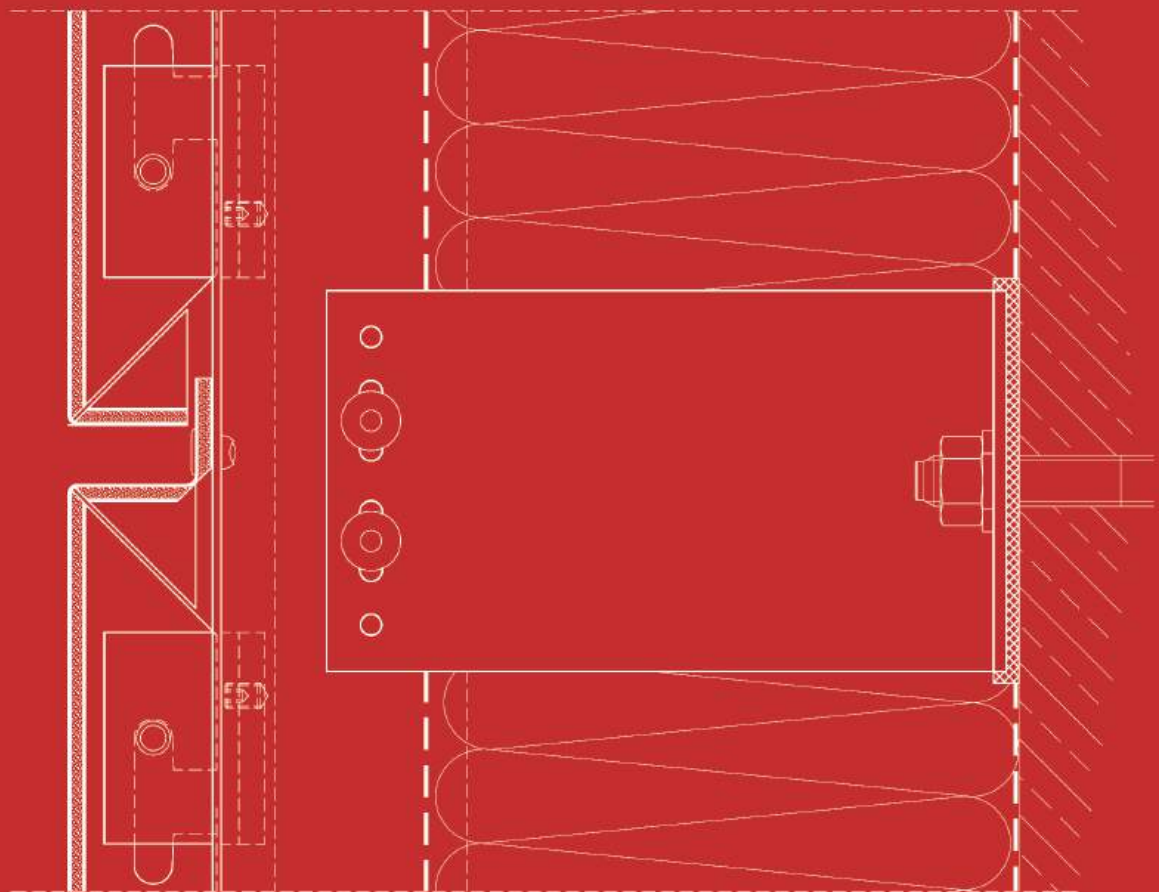


VENT

TEHNIČKI KATALOG / TECHNICAL CATALOGUE



TEHNO MARKET
aluminium systems

[SRB]

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[ENG]

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TEHNIČKI KATALOG / TECHNICAL CATALOGUE

izdanje / edition 2026.V5



TEHNOMARKET
aluminium systems



O KOMPANIJI

TEHNOMARKET iz Pančeva posluje od 1990. godine, kao kompanija specijalizovana za aluminijumske konstrukcije sa primenom u građevinarstvu. Dugogodišnje iskustvo, najpre u proizvodnji prozora i vrata, a zatim i ostakljenih fasada, pretočeno je tokom vremena u rad na dizajnu i proizvodnji sistema aluminijumskih profila različite namene. Pokretanjem prvog privatnog pogona za ekstrudiranje aluminijumskih profila u Srbiji, 2002. godine, TEHNOMARKET započinje novo razdoblje, povećavajući obim svog poslovanja i pozicionirajući se u regionu kao značajan industrijski proizvođač u aluminijumskoj branši.

Sistemi koje TEHNOMARKET razvija i nudi su namenjeni izradi prozora i vrata, ostakljenih fasada, kliznih elemenata, neprobojnih konstrukcija, kao i za potkonstrukcije različitih fasadnih obloga. Najnovije i trenutno aktuelne serije proizvoda nastale su primenom novih tehnologija i tehničkih rešenja sa ciljem da zadovolje sve komplikovanije zahteve tržišta u pogledu energetske efikasnosti i zaštite životne sredine.

Pored sistemskih i profila standardne geometrije, u pogonu za ekstrudiranje proizvode se i profili posebnih namena po porudžbini, koji dalje pronalaze primenu u velikom broju različitih privrednih grana, od auto-industrije, saobraćajne signalizacije, elektro-industrije, proizvodnje nameštaja, telekomunikacija, oglašavanja...

ABOUT COMPANY

Since 1990, TEHNOMARKET from Pancevo has specialized in aluminium constructions that caters to the building and construction industry needs. Our experience, gained from many years of doors, windows and glazed curtain walls manufacturing successfully transferred to design and development of modern aluminium profile systems for different purposes. By starting a first privately owned aluminium extrusion factory in Serbia in 2002, TEHNOMARKET starts a new chapter, increasing product range and volume and positioning itself as one of the major regional manufacturers of aluminium products.

Systems that TEHNOMARKET develops and offers are meant for manufacturing of windows and doors, glazed curtain walls, sliding elements and bulletproof constructions, as well as substructures for various types of ventilated facades. Our latest lines of products were created with state of the art technologies and technical solutions in order to comply with increasingly demanding energy efficiency and environmental protection standards and regulations.

Beside system and standard dimensioned profiles, a variety of custom designed profiles is extruded for known client and according to their technical drawings. These special profiles are widely used in number of different industrial areas, such as automotive, signage, furniture, telecommunication, electronical and advertising industry...



PRINCIPI

Stalno praćenje trendova, saradnja sa kupcima i tehnička podrška klijentima tokom dugogodišnjeg poslovanja su se izdvojili kao osnovni principi rada kompanije TEHNOMARKET. Ujedno, konstantna saradnja sa vodećim domaćim i evropskim sertifikacionim kućama je doprinela razvoju i uvođenju inovacija u sve aspekte organizacije i proizvodnje firme, a ISO 9001, ISO 14001, ISO 45001, ISO 50001 EN 15088 i EN 1090 sertifikacije, koje kompanija poseduje, to i zvanično potvrđuju.

Pozicija sedišta firme i fabrike za ekstruziju aluminijuma se nalazi samo 17 kilometara od centra Beograda i svega nekoliko kilometara od železničkog kargo terminala i velike rečne luke na Dunavu, kao i nepunih 30 kilometara od međunarodnog aerodroma „Nikola Tesla“ u Beogradu.

PRINCIPLES

Ongoing trend monitoring, direct communication with clients and technical support have become defining principles of TEHNOMARKETS's long-term business philosophy. At the same time, constant cooperation with domestic and European certification institutes further strenghtens basic principles of research, development and ongoing innovation throughout all organisational and manufacturing segments of the company, which is confirmed by ISO 9001, ISO 14001, ISO 45001, ISO 50001, EN 15088 and EN 1090 certificates.

Company's headquarters and extrusion factory are located only 17 km from centre of Belgrade, Serbia's capital, and just a few kilometers from rail cargo terminal and a major river port on Danube. Belgrade International airport "Nikola Tesla" is also less than 30 km away.

**Tehnomarket izvozi svoje proizvode
u preko 50 zemalja**

**Tehnomarket exports its products
to over 50 countries**

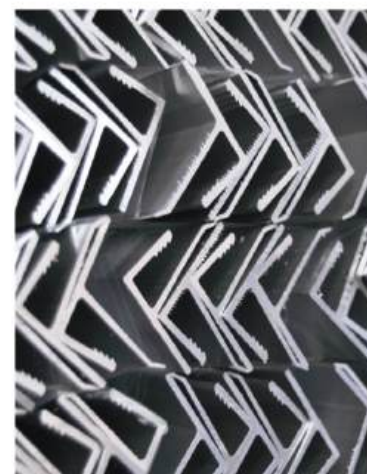


ALUMINIJUM ... naš pokretač

Stalne promene na svetskom tržištu i sve kompleksniji zahtevi krajnjih korisnika, sa veoma jasno izdvojenom potrebom za brзом proizvodnjom i izradom, lakoćom i jednostavnošću u obradi, jasno su izdvojili aluminijum kao građevinski materijal budućnosti. Aluminijum, kao najzastupljeniji od svih metala na Zemlji, našao je primenu u skoro svim granama industrije i građevinarstva. Većina njegove mase na planeti se nalazi u obliku aluminosilikata. Sa svojom gustinom od 2700kg/m^3 , oko tri puta je lakši od gvožđa i bakra, pa je upravo iz tog razloga i dominantno prisutniji u lakim građevinskim konstrukcijama. Dobija se elektrolitičkim postupkom u specijalnim električnim pećima, u kojima temperature dostiže i 1000°C . Standardni procesi obrade aluminijuma kako bi se dobili krajnji proizvodi su ekstrudiranje, zavarivanje, toplo i hladno valjanje. U završnoj primeni najčešće se koristi sa površinskom zaštitom od koje su najviše zastupljene eloksaža i plastifikacija.

Kao neke od brojnih prednosti aluminijuma izdvajaju se:

- izuzetno lagan materijal, male gustine, stabilan je i ne opterećuje konstrukciju
- poseduje veliku mogućnost oblikovanja, pruža raznovrsnost oblika i široku mogućnost kombinovanja
- trajan je i postojan kao građevinska komponenta bez promena osobina tokom vremena
- reciklabilan, po isteku eksploatacije se lako topi i ponovo vraća u novi ciklus primene
- neotrovan je, ne šteti okolini, nema otrovna isparenja i nezapaljiv je
- ima mogućnost zavarivanja i ne varniči prilikom obrade
- dobar je provodnik toplote
- otporan je na koroziju usled atmosferskih uticaja, u sirovom stanju oblaže se tankim slojem oksida
- dopadljive je srebrnaste nijanse, dekorativnog izgleda i pruža velike mogućnosti kod odabira boje površinske zaštite
- jednostavan za održavanje i u eksterijeru i u enterijeru



ALUMINIUM ... our driving force

Constant shifts in global market and more complex demands by clients, with distinctly outlined need for fast manufacturing and assembly, followed by simple machining, have clearly selected aluminium as building material of the future. Aluminium, the most common metal on Earth, has found its use in almost all segments of industry and construction. The most of it's mass on planet is found in shape of aluminosilicate. With it's density of 2700kg/m^3 , it is about three times lighter than iron and copper, and therefore far more present in light building constructions. Aluminium is acquired in special electrolytic process conducted in special electric ovens that generate temperatures up to 1000°C . Further aluminium processing into final products includes extrusion, welding, hot and cold rolling. For finished products, aluminium is usually used with anodized or powder coated surface.

Here are some of aluminium's numerous advantages:

- extremely lightweight, low density, stable and it does not present an unnecessary burden for structure
- easily machinable into number of different shapes, optimal for numerous applications
- long lasting and stable as a construction component without change in properties over time
- completely recyclable, easily re-inserted into manufacturing cycle
- it is not toxic, flammable, evaporable and it is safe for the environment
- aluminium can be welded and it does not produce sparks during machining
- good conductor of heat and electricity
- corrosion resistant, covered with thin oxide layer when raw
- it has appealing natural silver shade and offers great flexibility when choosing surface treatment colors
- simple and easy to maintain, both in interior and exterior

O SISTEMU

Sistemi potkonstrukcija VENT su dizajnirani sa ciljem da ponude savremeno, kompletno i efikasno rešenje za konstrukciju i projektovanje sve popularnijih ventilisanih fasada. Osnovna namena ove grupe profila je za izradu potkonstrukcija za sve tipove fasadnih obloga primenljivih u ventilisanim fasadama.

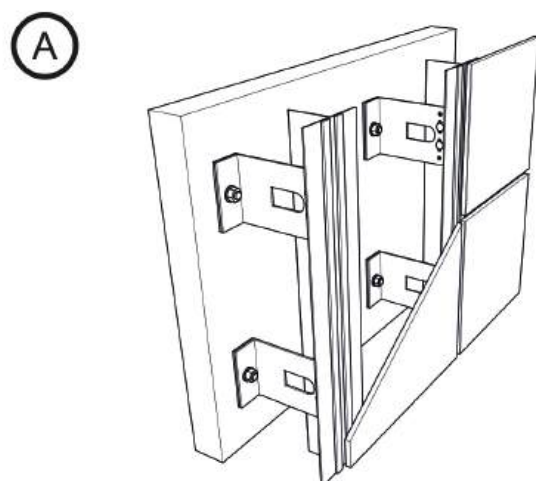
VENT broji deset različitih podсистема podeljenih u dve konstruktivne grupe:

[A] PANELNI SISTEMI

- RIVET
za kompozitne panele, lim, HPL
- TACK
za kompozitne panele, lim, staklo, HPL
- HIDE
za HPL, granitnu keramiku i kamen
- STONE
za keramiku i granitnu keramiku
- ROCK
za prirodni kamen veće debljine
- CONTINUAL
za sve pločaste materijale bez ograničenja

[B] KASETNI SISTEMI

- BOX
za kompozitne panele i limove
- SLIDER
za kompozitne panele i limove
- GASKET
za kompozitne panele i limove
- FIT
za kompozitne panele i limove



ABOUT THE SYSTEM

VENT series of substructure systems are designed to offer modern, complete and efficient solution for construction and production of increasingly popular ventilated facades. The basic purpose of these solutions is to offer complete substructure systems for all types of suitable cladding materials.

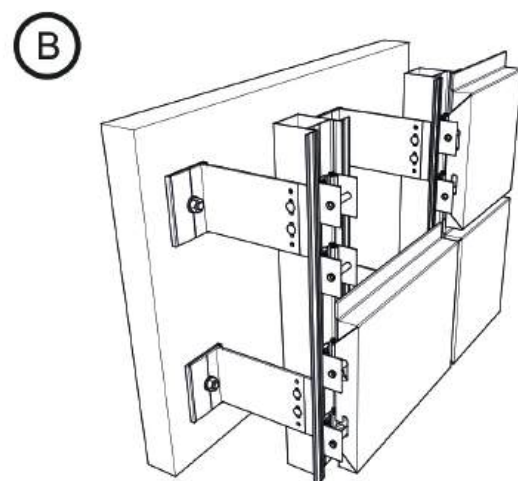
VENT consists of ten different subsystems divided into two main groups:

[A] PANEL SYSTEMS

- RIVET
for composite panels, solid metal sheets, HPL
- TACK
for composite panels, solid metal sheets, glass, HPL
- HIDE
for HPL, granite ceramics and stone
- STONE
for ceramic tiles and granite ceramics
- ROCK
for thick natural stone panels
- CONTINUAL
for all flat cladding materials without limitations

[B] CASSETTE SYSTEMS

- BOX
for composite panels and solid metal sheets
- SLIDER
for composite panels and solid metal sheets
- GASKET
for composite panels and solid metal sheets
- FIT
for composite panels and solid metal sheets



Sistemi iz grupe A nude mnogo više opcija za postavljanje svih vrsta pločastih materijala kao spoljne obloge u sklopu ventilisane fasade, bez obzira na vrstu materijala, njegove mehaničke karakteristike, debljinu ili željeni izgled gotove fasade.

Sistemi iz grupe B, zbog specifičnosti sistema kačenja koji zahteva kasetiranje panela, namenjeni su isključivo za obloge od kompozitnih panela ili punih limova koji se mogu obrađivati na CNC obradnom centru. Svi sistemi iz ove grupe nude brzu montažu gotovih kaseti i njihovo sigurno zaključavanje u fasadnom sklopu.

Kao najbitnije karakteristike VENT sistema izdvajaju se:

- širok izbor sistema za sve tipove materijala namenjenih za korišćenje u sklopu ventilisanih fasada
- jednostavno integrisanje toplotne izolacije u fasadu
- visoka prilagodljivost sistema svim tipovima objekata
- visok stepen radioničke pripreme i prefabrikacije
- sloboda u dizajniranju finalnog izgleda fasade
- izuzetna trajnost fasade, bez održavanja i uz laku popravku pojedinačnih polja u slučaju oštećenja
- mogućnost jednostavne modernizacije postojećih objekata
- sistemski omogućena integracija sa ostakljenim fasadama, kao i kombinovanje više materijala u sklopu jednog projekta
- primena u eksterijeru i enterijeru, na projektima gde se zahteva efikasno kačenje Equitone fiber-cementnih panela, Larson i Larcore aluminijumskih kompozitnih i sačastih panela, prirodnog kamena, granitne keramike ili HPL panela
- širok izbor kotvi različitih dužina, pratećeg materijala i pribora za montažu
- sertifikacija CE oznakom

Systems from group A offer numerous options for installation of all types of flat cladding panels as a final layer of the ventilated facade, regardless of material type, mechanical properties, thickness or desired visual appearance of finished facade.

Systems from group B, due to specific attachment points that require panels to be formed into cassettes, are suitable for aluminium composite panels and solid metal sheets that are suitable for CNC machining. All systems in this group offer fast final installation and secure locking of individual elements into place.

The most important VENT system features are:

- wide array of different systems for all types of cladding materials suitable for ventilated facade applications
- simple integration of thermal insulation layer within the facade
- high flexibility and adjustability of systems for all types of projects
- high percentage of workshop prefabrication
- freedom in designing of visual facade appearance
- exceptional facade durability, with almost no maintenance and easy repair in case of damage
- easy modernization of old buildings and renovation projects
- application in exterior and interior projects, particularly where efficient mounting of Equitone fibre cement panels, Larson and Larcore aluminium composite and honeycomb panels, natural stone, porcelain or granite tiles, or HPL panels is required.
- wide array of system anchors in different lengths, accessories and installation bits available
- certification with CE mark



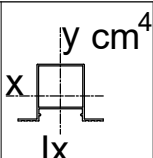
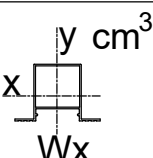
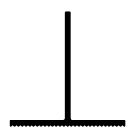
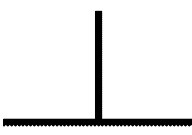
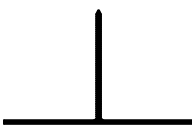
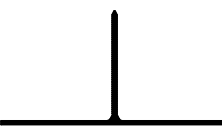
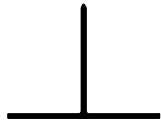
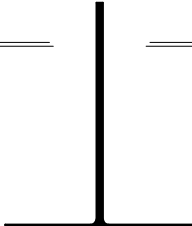
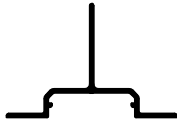
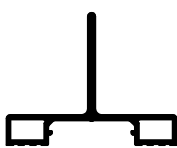
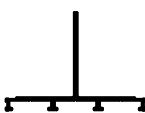
Uvod
Introduction

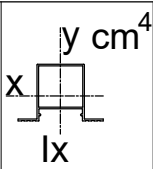
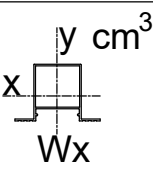
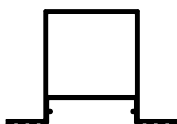
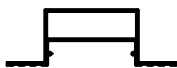


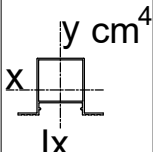
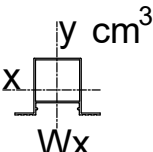
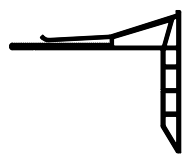
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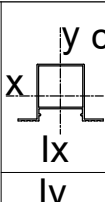
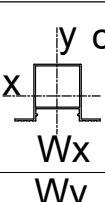
Pregled aluminijumskih profila
Aluminium profiles overview

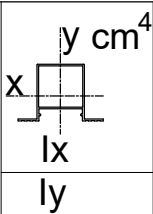
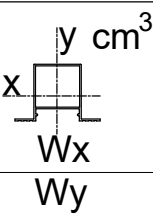
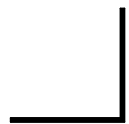
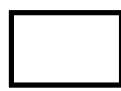


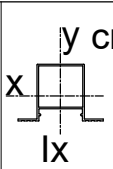
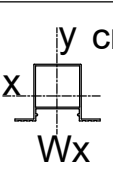
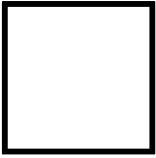
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	V06	Stub / Prečka	12,79	2,732
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	0,908	Mullion / Transom	16,67	3,334
	V08	Stub / Prečka	10,97	2,247
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	0,798	Mullion / Transom	9,84	2,46
	V20	Stub / Prečka	103,78	12,718
	1,829	Mullion / Transom	20,877	4,175
	V101	Stub	8,05	1,825
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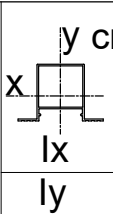
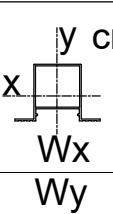
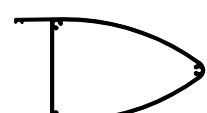
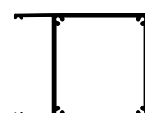
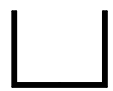
	Oznaka Mark	Opis Description	 $y \text{ cm}^4$ I_x	 $y \text{ cm}^3$ W_x
	kg/m`		I_y	W_y
	V124	Horizontalni profil Horizontal profile	99,98	13,331
	1,448		5,08	3,385
	V01	Stub Mullion	23,90	7,134
	1,184		20,51	4,558
	V134	Stub Mullion	3,75	2,500
	0,920		18,28	4,062
	V14	Prečka / Nosač Transom / Bracket	11,56	3,247
	0,730		1,50	1,111
	V19	Prečka / Nosač Transom / Bracket	14,531	4,199
	0,919		1,744	1,255
	V17	Prečka / Nosač Transom / Bracket	1,533	0,592
	0,748		6,116	2,926
	V18	Prečka / Nosač Transom / Bracket	4,964	1,993
	0,699		1,503	0,691
	V02	Prečka Transom	1,231	4,714
	0,464		4,477	1,189

	Oznaka Mark	Opis Description	 $y \text{ cm}^4$ I_x	 $y \text{ cm}^3$ W_x
	kg/m`		I_y	W_y
	V03	Profil nosača Bracket profile	0,537	0,365
	0,426		3,024	1,270
	V13	Profil za kotvu Bracket profile	15,09	3,118
	1,705		50,50	7,953
	V16	Stub / Profil za kotvu Mullion / Bracket profile	2,87	0,884
	1,028		33,83	5,812
	V10	Stub / Profil za kotvu Mullion / Bracket profile	3,254	0,965
	1,276		71,791	9,660
	V117	Stub / Profil za kotvu Mullion / Bracket profile	3,847	11,135
	1,585		116,68	13,38
	V11	Profil za kotvu Bracket profile	11,529	2,292
	2,115		214,90	21,642
	V12	Profil za kotvu Bracket profile	13,99	2,783
	2,860		377,43	30,911
	V126	Profil za kotvu Bracket profile	19,77	3,80
	3,152		523,13	38,47
	V15	Profil za prihvat obloge Cladding mounting profile		
	0,318			

	Oznaka Mark	Opis Description		
	kg/m`		ly	Wy
	V05	Profil za prihvat obloge Cladding mounting profile		
	0,385			
	V105	Profil za prihvat obloge Cladding mounting profile		
	0,239			
	V105	Profil za prihvat obloge Cladding mounting profile		
	0,224			
	L1530	Dodatni profil Additional profile		
	0,230			
	L2030	Dodatni profil Additional profile		
	0,264			
	L2020	Dodatni profil Additional profile		
	0,209			
	L2040	Dodatni profil Additional profile		
	0,319			
	L4040(2)	Dodatni profil Additional profile		
	0,428			
	L4040(4)	Dodatni profil Additional profile		
	0,836			

	Oznaka Mark	Opis Description		
	kg/m`		ly	Wy
	L2060	Dodatni profil Additional profile		
	0,429			
	L4060	Dodatni profil Additional profile	2,779	0,891
	0,538		7,516	1,820
	L6060	Dodatni profil Additional profile	8,564	1,993
	0,649		8,564	1,993
	K2020	Dodatni profil Additional profile		
	0,305			
	K2040	Dodatni profil Additional profile		
	0,470			
	K3030	Dodatni profil Additional profile		
	0,470			
	K4050	Dodatni profil Additional profile		
	0,946			
	K4040	Dodatni profil Additional profile		
	0,836			
	K4060	Dodatni profil Additional profile		
	0,946			

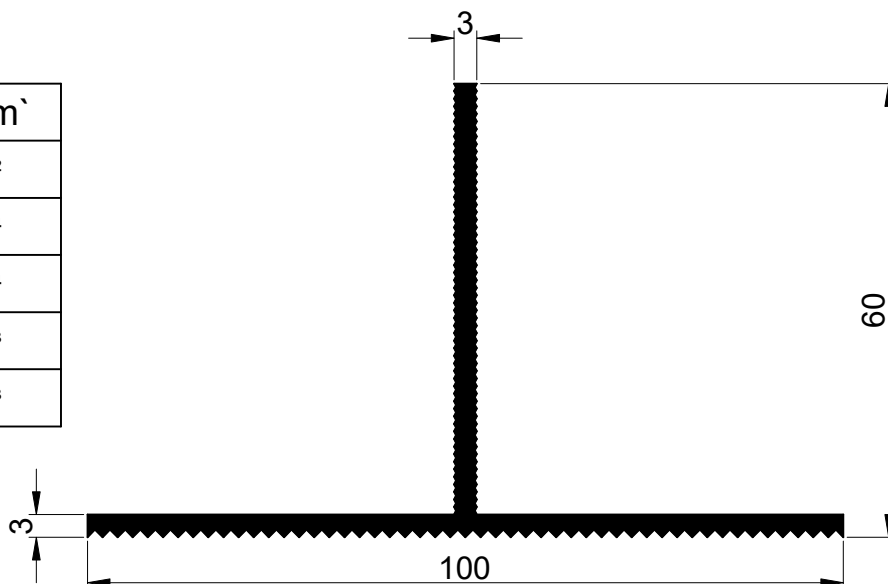
	Oznaka Mark	Opis Description		
	kg/m`		ly	Wy
	K8080	Dodatni profil Additional profile		
	1,716			
	T3030	Opšivka Flashing		
	0,319			
	TMF3	Potkapa Pressure plate		
	0,430			
	TMF33	Potkapa Pressure plate		
	0,507			
	TMF4	Kapa Cover cap		
	0,264			
	TMF5	Kapa Cover cap		
	0,238			
	TMF58	Kapa Cover cap		
	0,253			
	TMF27	Kapa Cover cap		
	0,209			
	TMF61	Potkapa / Kapa Pressure plate / Cover cap		
	0,841			

	Oznaka Mark	Opis Description		
	kg/m`		ly	Wy
	TMF54	Kapa Cover cap		
	2,088			
	TMF15	Kapa Cover cap		
	0,931			
	TMF20	Kapa Cover cap		
	0,963			
	TMF17	Potkapa / Kapa Pressure plate / Cover cap		
	0,216			
	TMF41	Potkapa / Kapa Pressure plate / Cover cap		
	0,591			
	V04	Profil klizača Slider profile	3,768	1,455
	0,867		7,652	3,401
	U4050	Stub Mullion	4,244	1,578
	0,693		10,843	4,337
	U5050	Stub Mullion	8,233	2,443
	0,862		13,455	5,382

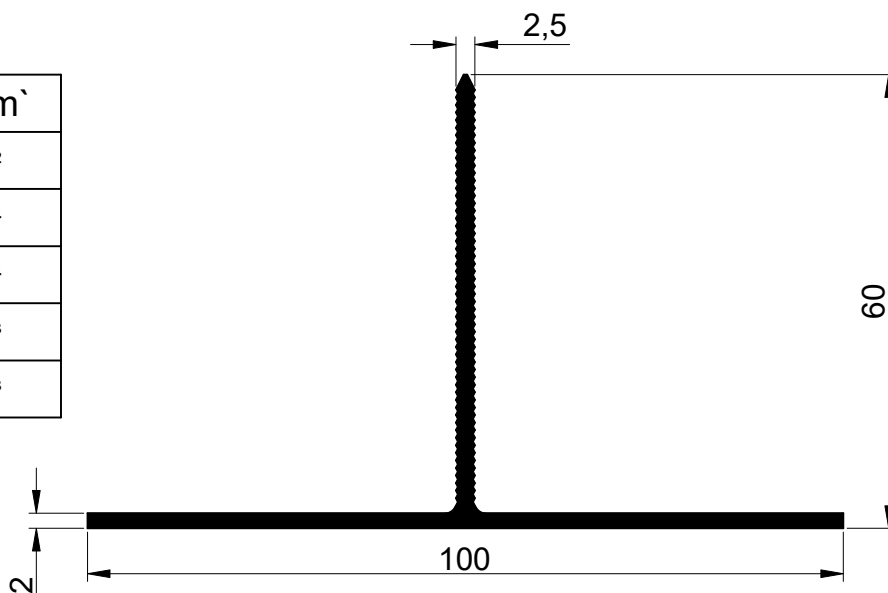
Pregled aluminijumskih profila
Aluminium profiles overview



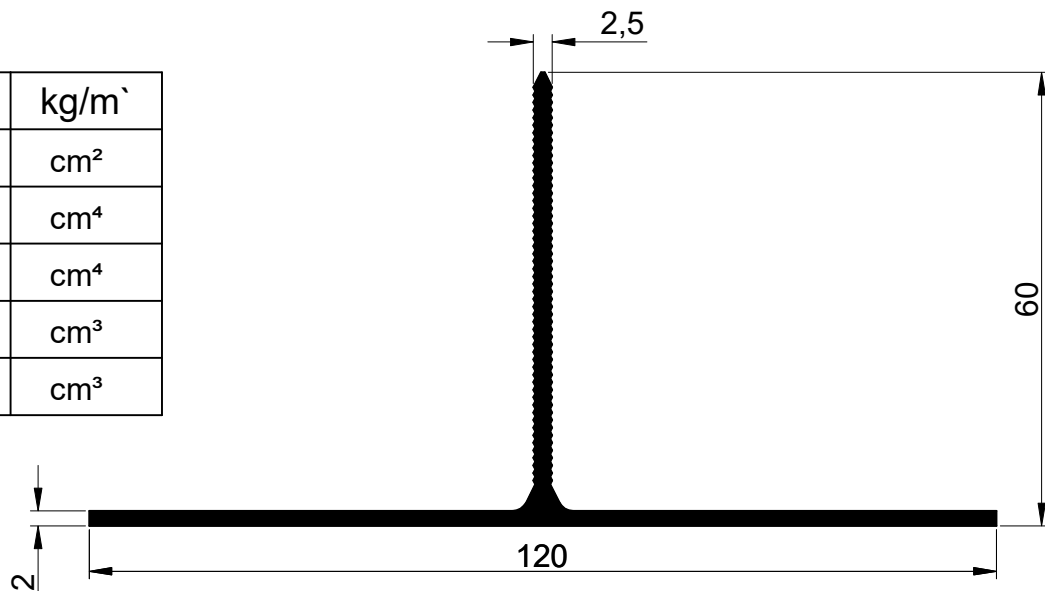
V06	1,119	kg/m`
S	4,067	cm ²
I _x	12,794	cm ⁴
I _y	20,844	cm ⁴
W _x	2,733	cm ³
W _y	4,168	cm ³



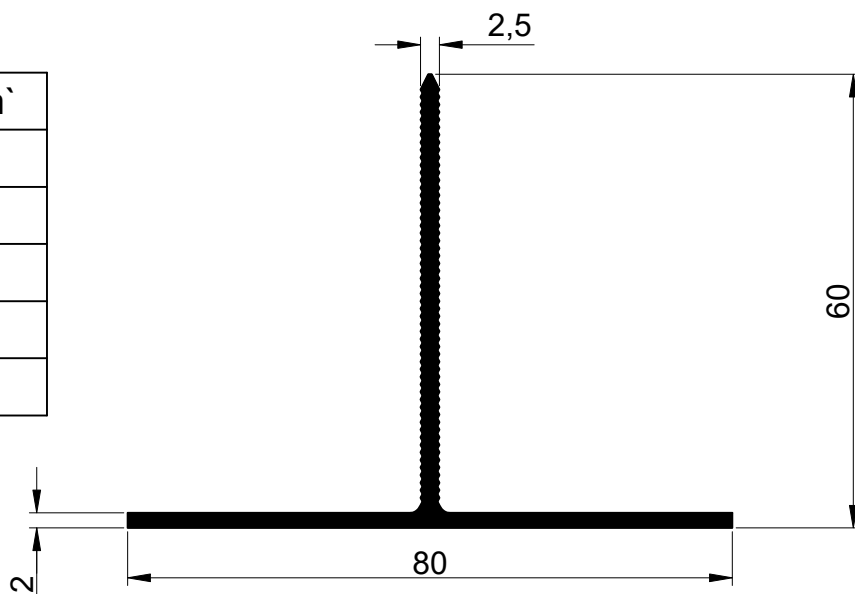
V07	0,908	kg/m`
S	3,300	cm ²
I _x	10,455	cm ⁴
I _y	16,672	cm ⁴
W _x	2,206	cm ³
W _y	3,334	cm ³



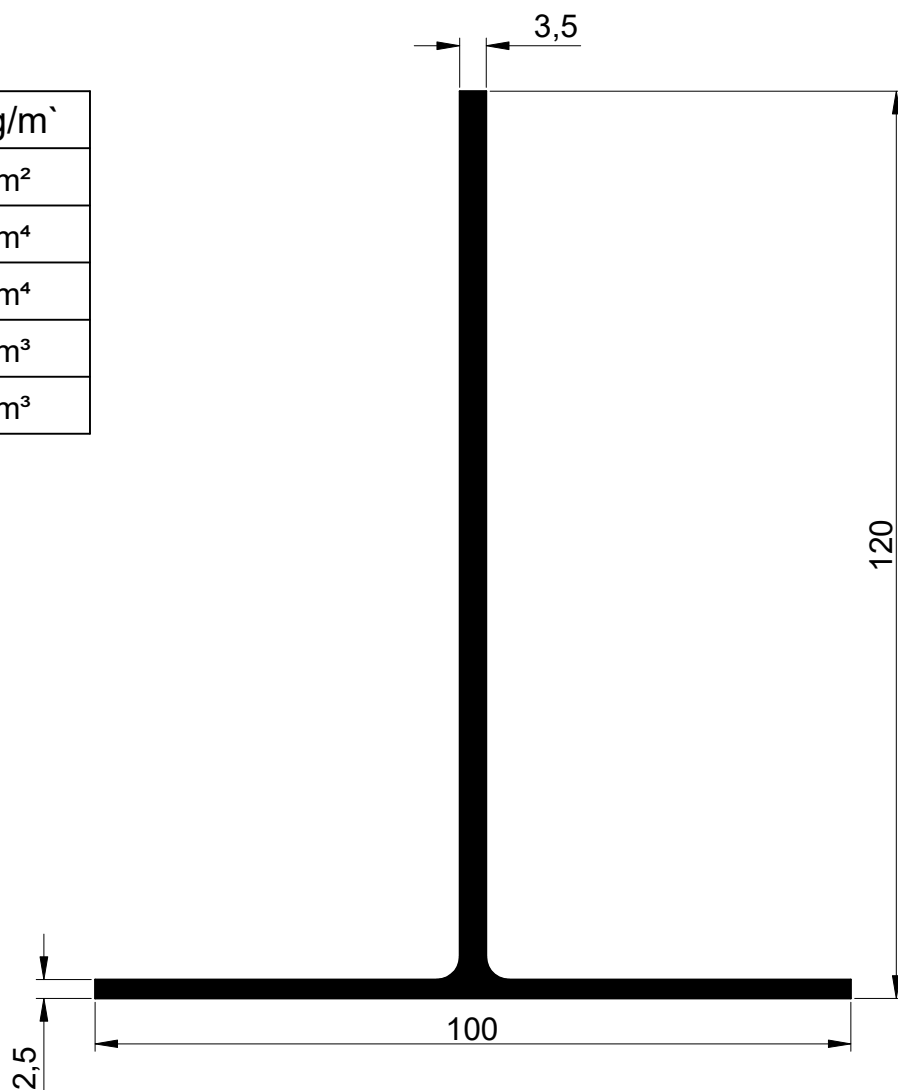
V08	1,031	kg/m`
S	3,748	cm ²
I _x	10,969	cm ⁴
I _y	28,807	cm ⁴
W _x	2,247	cm ³
W _y	4,801	cm ³



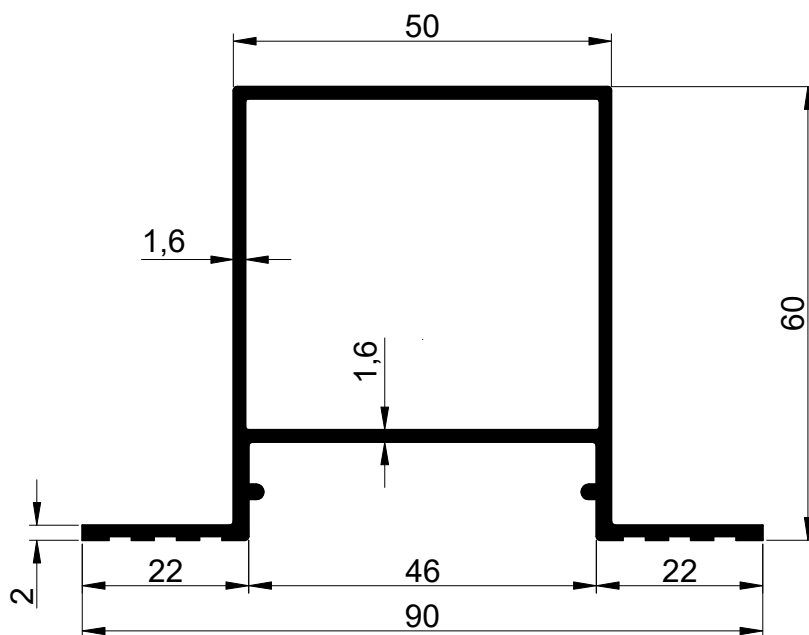
V95	0,798	kg/m`
S	2,9	cm ²
I _x	9,84	cm ⁴
I _y	8,54	cm ⁴
W _x	2,15	cm ³
W _y	2,14	cm ³



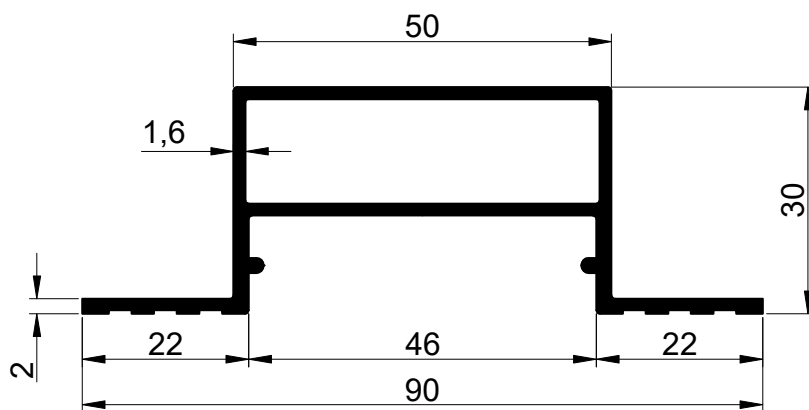
V20	1,829	kg/m`
S	6,651	cm ²
I _x	103,78	cm ⁴
I _y	20,877	cm ⁴
W _x	12,718	cm ³
W _y	4,175	cm ³



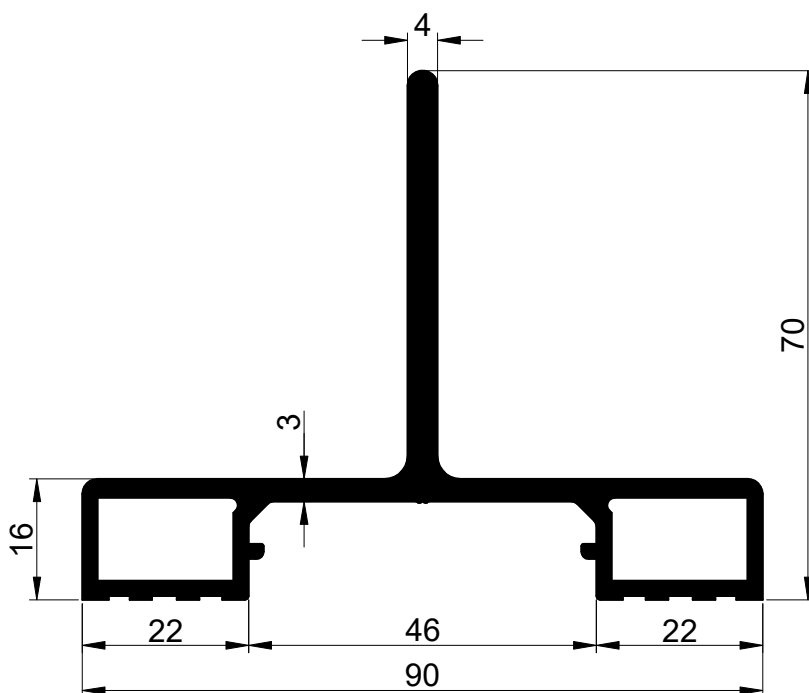
V01	1,184	kg/m`
S	4,304	cm ²
I _x	20,514	cm ⁴
I _y	23,902	cm ⁴
W _x	6,142	cm ³
W _y	5,312	cm ³



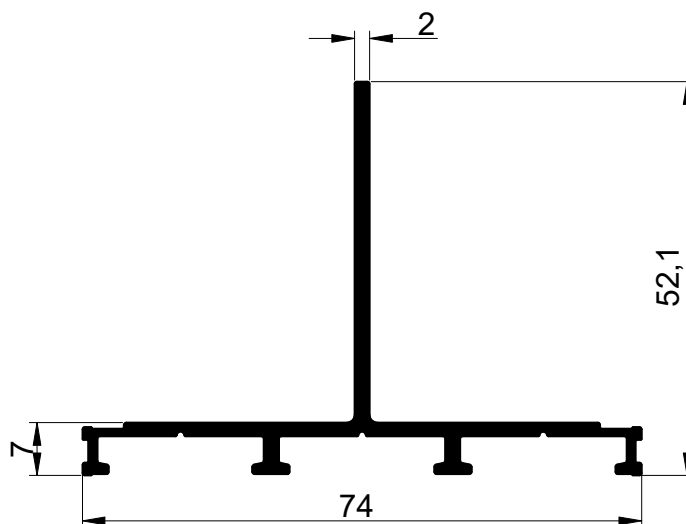
V134	0,920	kg/m`
S	4,344	cm ²
I _x	3,752	cm ⁴
I _y	18,278	cm ⁴
W _x	2,501	cm ³
W _y	4,062	cm ³



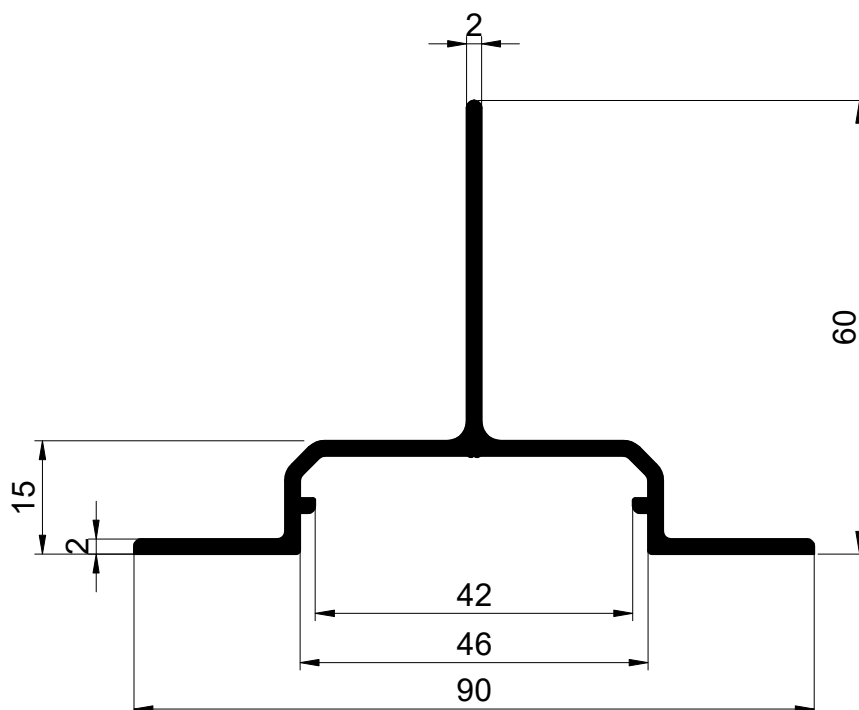
V88	1,840	kg/m`
S	6,691	cm ²
I _x	22,055	cm ⁴
I _y	39,291	cm ⁴
W _x	4,465	cm ³
W _y	8,731	cm ³



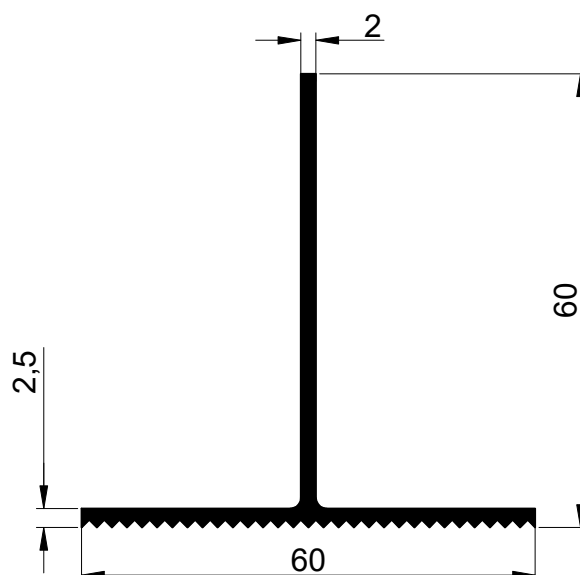
V09	0,720	kg/m`
S	2,617	cm ²
I _x	5,156	cm ⁴
I _y	7,941	cm ⁴
W _x	1,332	cm ³
W _y	2,146	cm ³

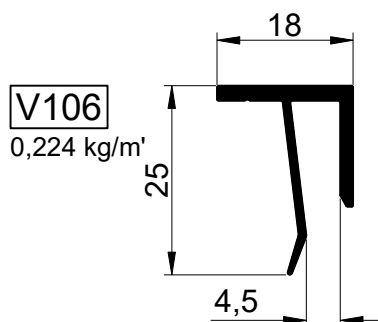
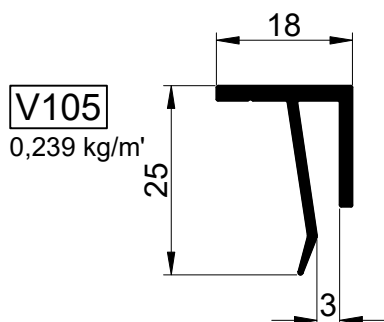
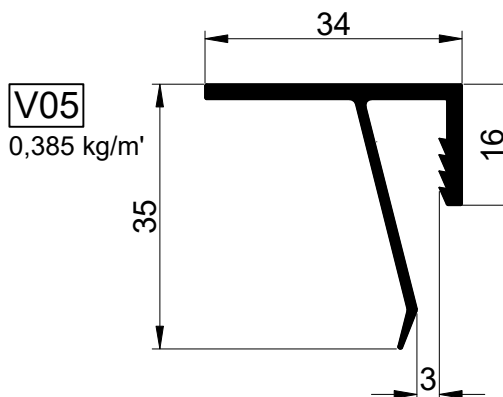
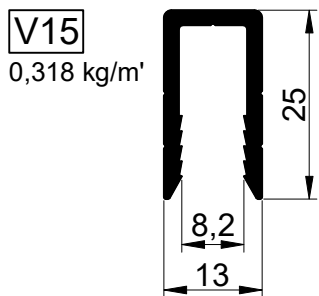


V101	0,889	kg/m`
S	3,23	cm ²
I _x	8,05	cm ⁴
I _y	14,91	cm ⁴
W _x	1,825	cm ³
W _y	3,313	cm ³

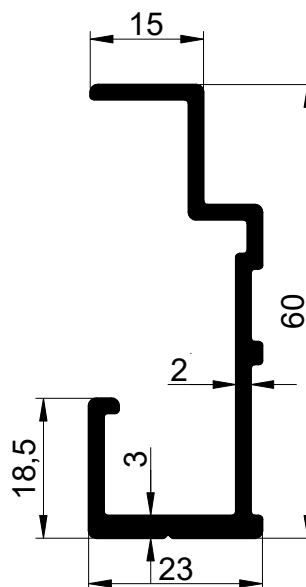


V125	0,651	kg/m`
S	2,358	cm ²
I _x	8,392	cm ⁴
I _y	3,605	cm ⁴
W _x	1,907	cm ³
W _y	1,202	cm ³

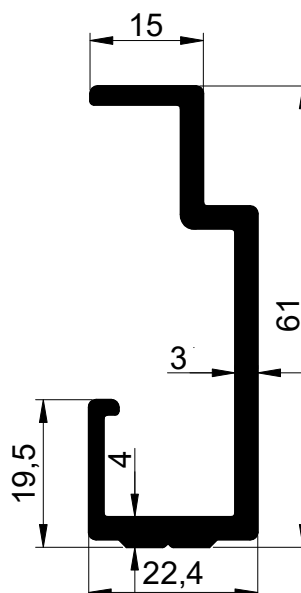




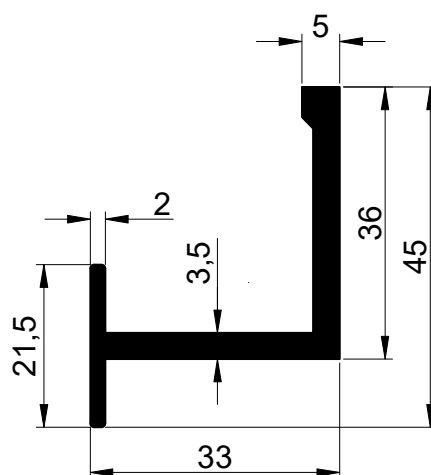
V14	0,730	kg/m'
S	2,654	cm ²
I _x	11,563	cm ⁴
I _y	1,500	cm ⁴
W _x	3,247	cm ³
W _y	1,111	cm ³



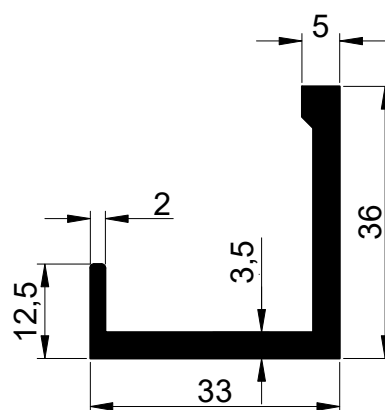
V19	0,919	kg/m'
S	3,345	cm ²
I _x	14,531	cm ⁴
I _y	1,744	cm ⁴
W _x	4,199	cm ³
W _y	1,255	cm ³



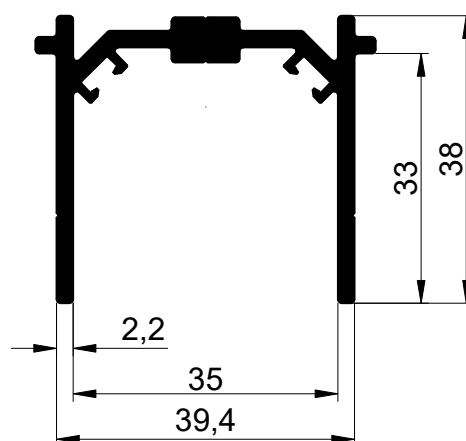
V17	0,748	kg/m`
S	2,722	cm ²
I _x	1,533	cm ⁴
I _y	6,116	cm ⁴
W _x	0,592	cm ³
W _y	2,926	cm ³



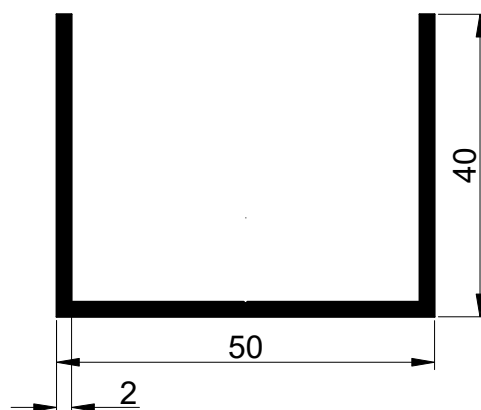
V18	0,699	kg/m`
S	2,543	cm ²
I _x	4,964	cm ⁴
I _y	1,503	cm ⁴
W _x	1,993	cm ³
W _y	0,671	cm ³



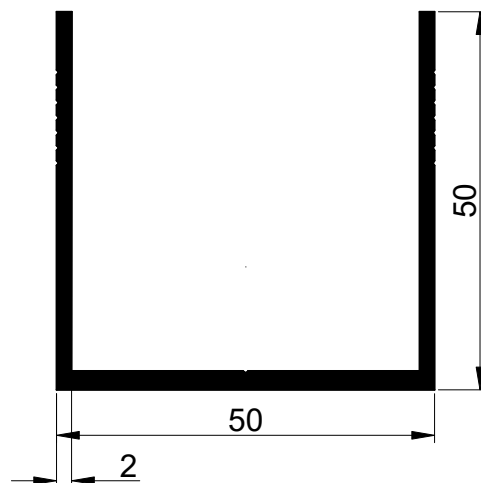
V04	0,867	kg/m`
S	3,153	cm ²
I _x	3,768	cm ⁴
I _y	7,652	cm ⁴
W _x	1,455	cm ³
W _y	3,401	cm ³



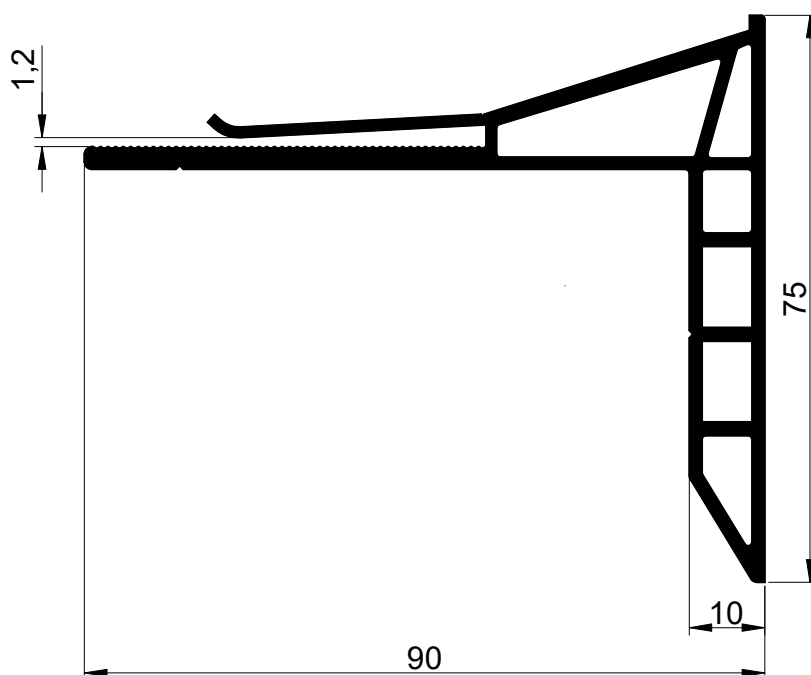
U4050	0,693	kg/m`
S	2,519	cm ²
I _x	4,244	cm ⁴
I _y	10,843	cm ⁴
W _x	1,578	cm ³
W _y	4,337	cm ³

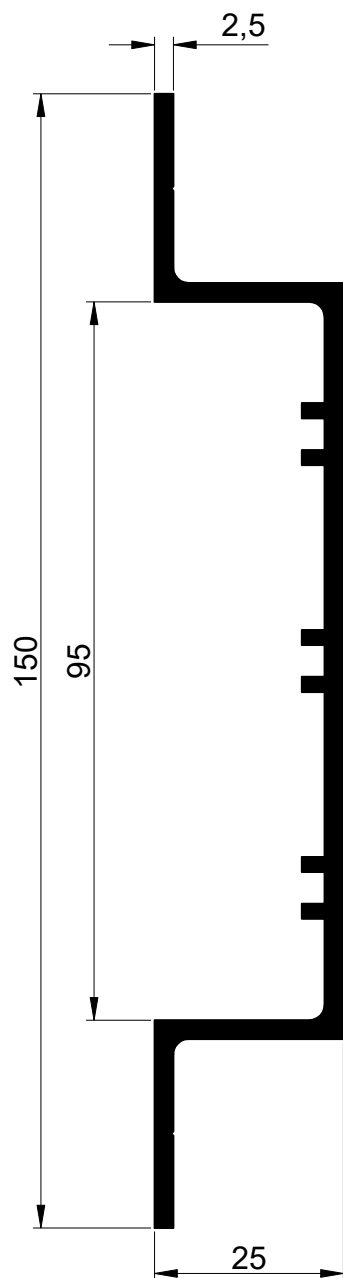


U5050	0,862	kg/m`
S	3,132	cm ²
I _x	8,233	cm ⁴
I _y	13,455	cm ⁴
W _x	2,443	cm ³
W _y	5,382	cm ³

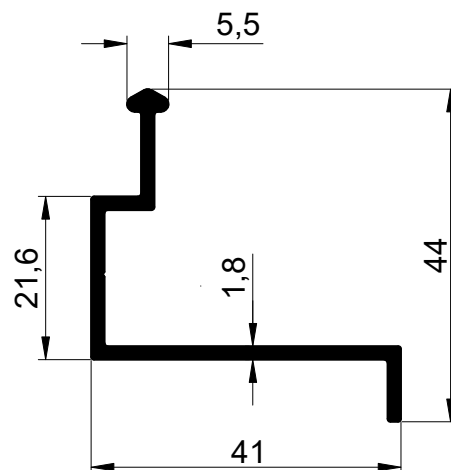


V13	1,705	kg/m`
S	6,201	cm ²
I _x	15,098	cm ⁴
I _y	50,502	cm ⁴
W _x	3,118	cm ³
W _y	7,953	cm ³

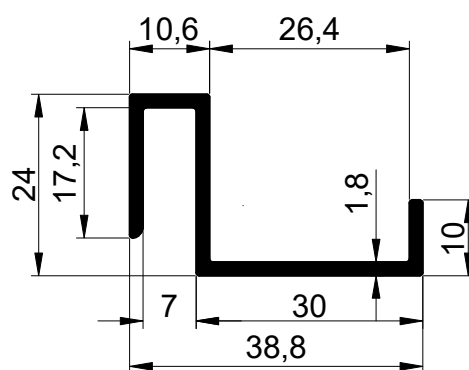




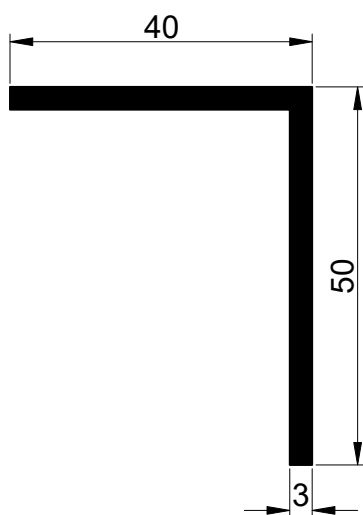
V124	1,448	kg/m`
S	5,265	cm ²
I _x	99,981	cm ⁴
I _y	5,078	cm ⁴
W _x	13,331	cm ³
W _y	3,385	cm ³



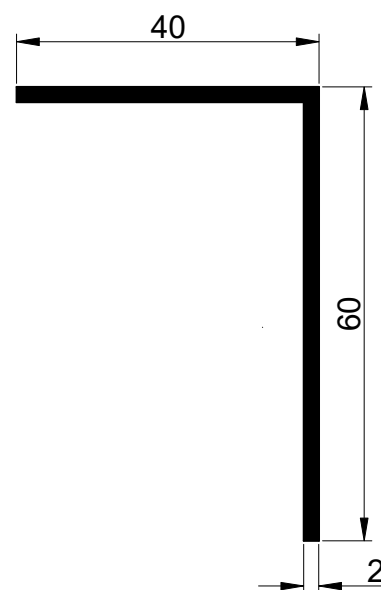
V02	0,464	kg/m`
S	1,686	cm ²
I _x	1,230	cm ⁴
I _y	4,477	cm ⁴
W _x	4,714	cm ³
W _y	1,689	cm ³



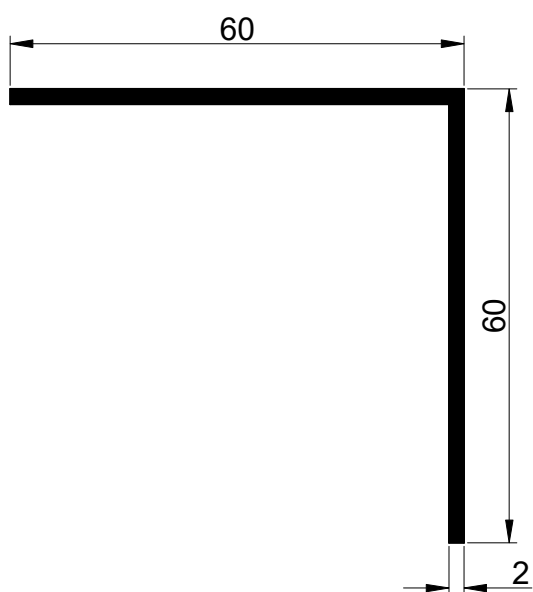
V03	0,426	kg/m`
S	3,153	cm ²
I _x	0,537	cm ⁴
I _y	3,024	cm ⁴
W _x	0,365	cm ³
W _y	1,270	cm ³



L40503	0,718	kg/m`
S	2,610	cm ²
I _x	6,660	cm ⁴
I _y	3,830	cm ⁴
W _x	1,903	cm ³
W _y	1,277	cm ³



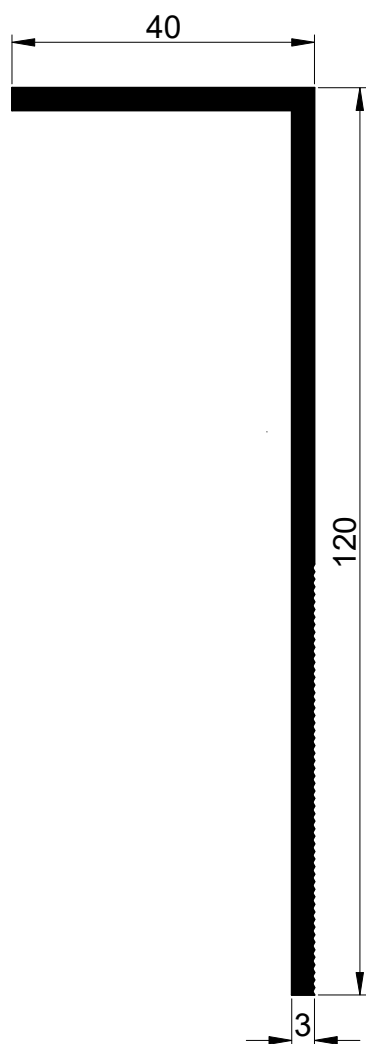
L40602	0,538	kg/m`
S	1,960	cm ²
I _x	7,516	cm ⁴
I _y	2,779	cm ⁴
W _x	1,820	cm ³
W _y	0,891	cm ³



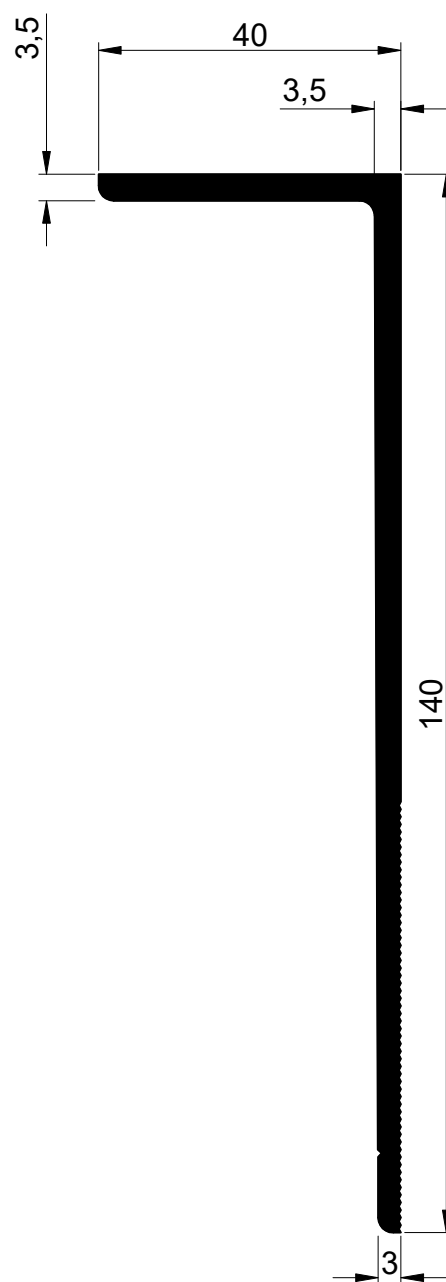
L60602	0,649	kg/m`
S	2,360	cm ²
I _x	8,564	cm ⁴
I _y	8,564	cm ⁴
W _x	1,933	cm ³
W _y	1,933	cm ³



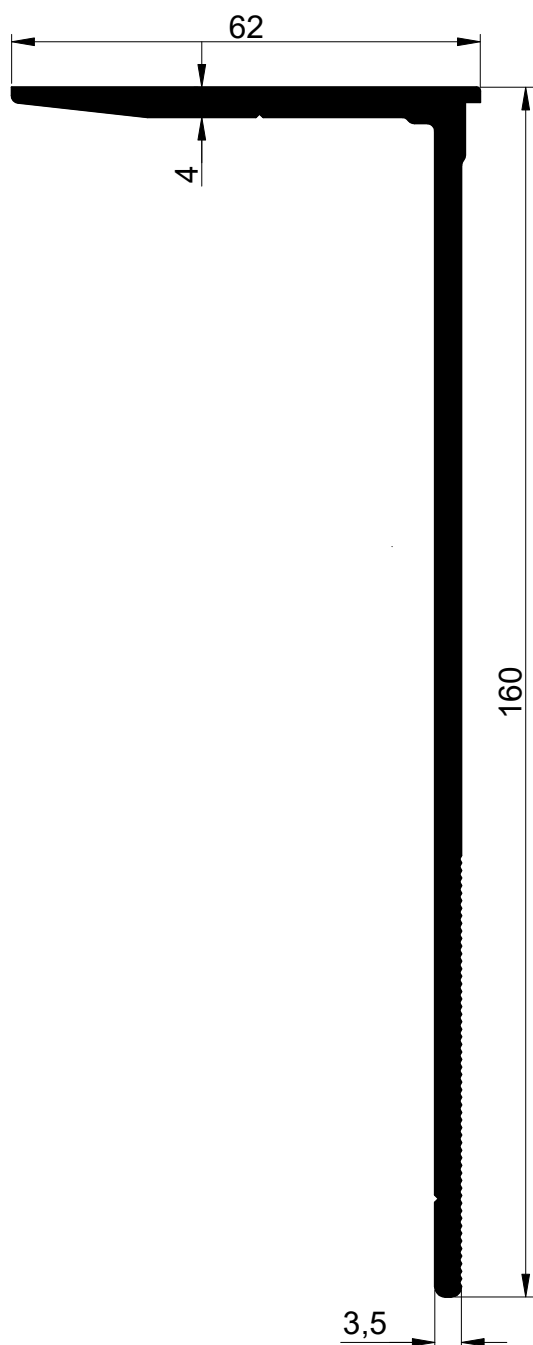
V16	1,028	kg/m`
S	3,739	cm ²
I _x	33,828	cm ⁴
I _y	2,874	cm ⁴
W _x	5,812	cm ³
W _y	0,884	cm ³



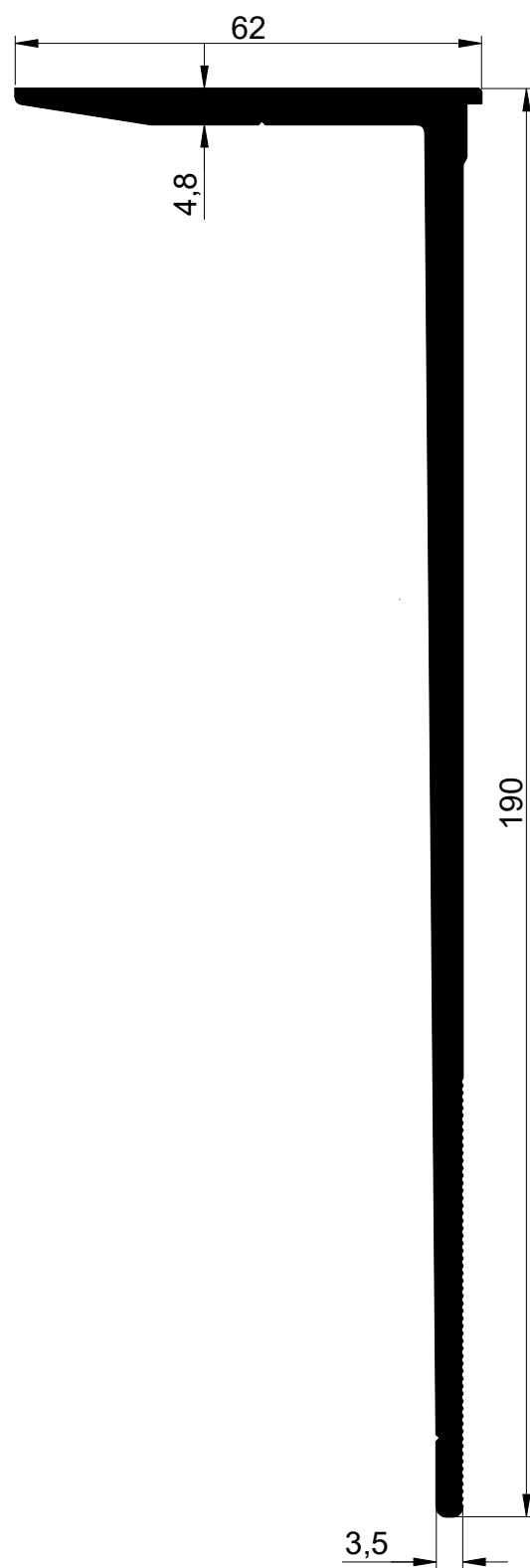
V10	1,276	kg/m`
S	4,639	cm ²
I _x	71,971	cm ⁴
I _y	3,254	cm ⁴
W _x	9,660	cm ³
W _y	0,965	cm ³



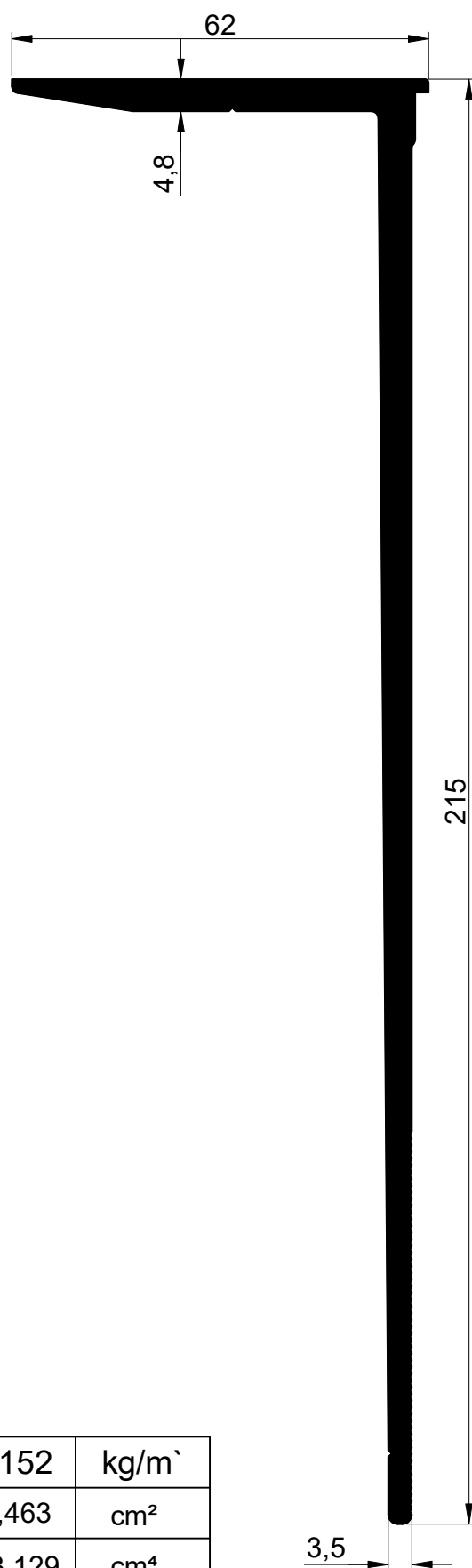
V117	1,585	kg/m`
S	5,762	cm ²
I _x	116,68	cm ⁴
I _y	3,847	cm ⁴
W _x	13,38	cm ³
W _y	1,135	cm ³



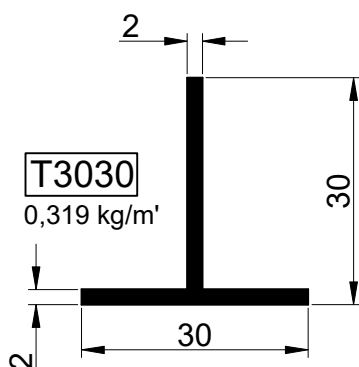
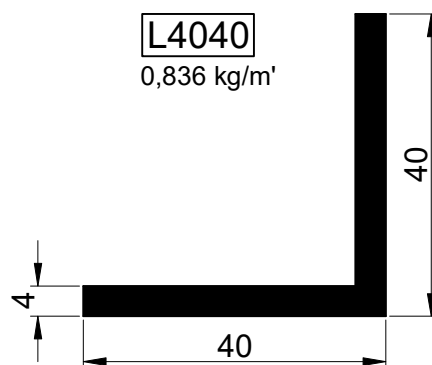
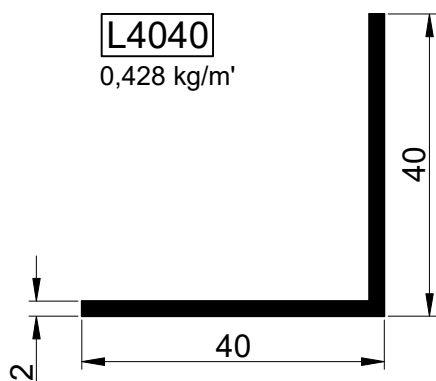
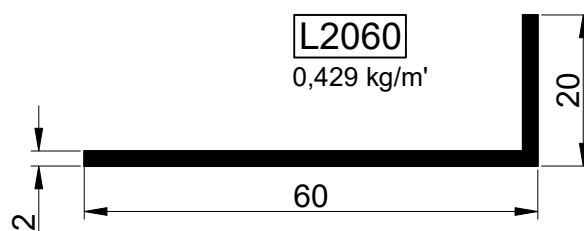
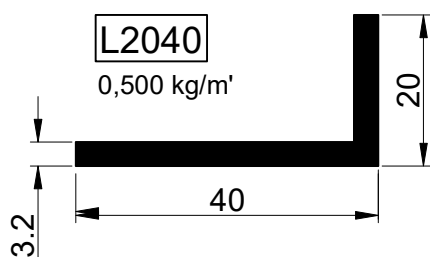
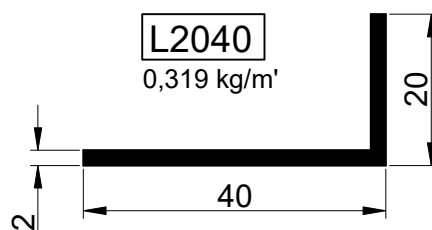
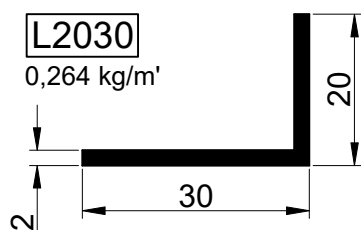
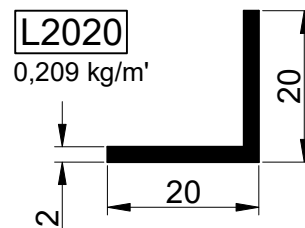
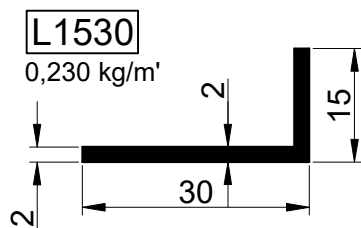
V11	2,115	kg/m`
S	7,691	cm ²
I _x	214,902	cm ⁴
I _y	11,529	cm ⁴
W _x	21,642	cm ³
W _y	2,292	cm ³

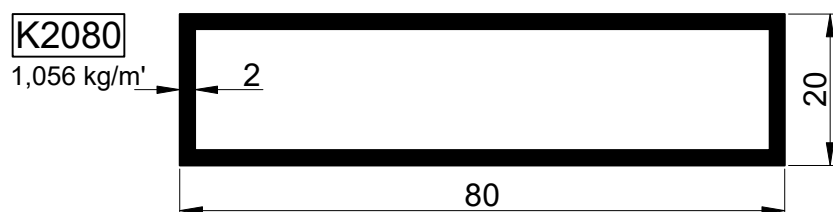
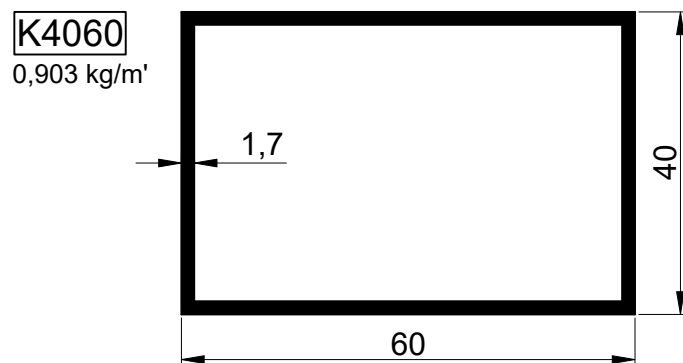
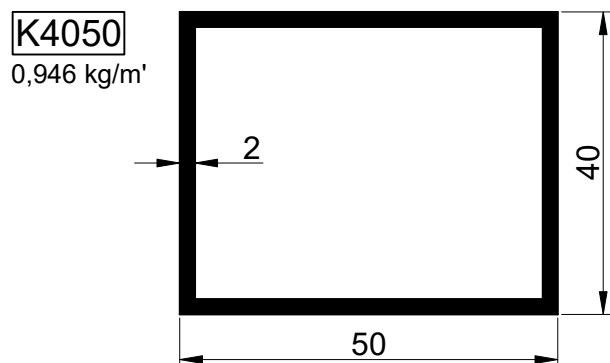
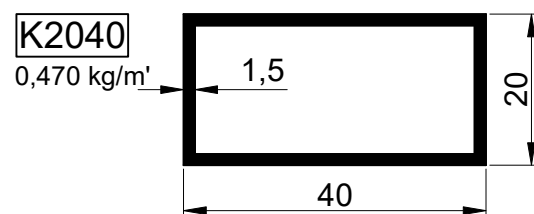
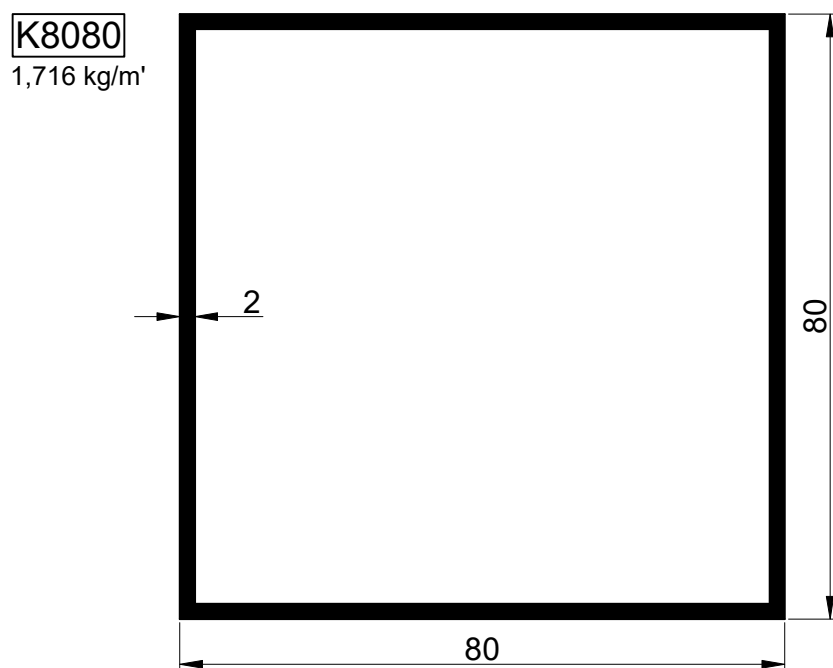
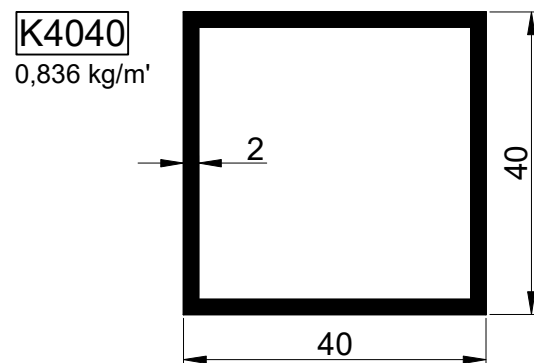
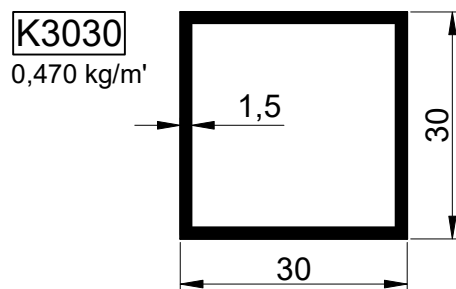
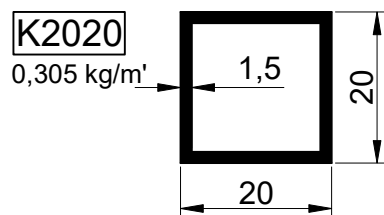


V12	2,860	kg/m`
S	1,040	cm ²
I _x	377,427	cm ⁴
I _y	13,993	cm ⁴
W _x	30,911	cm ³
W _y	2,738	cm ³



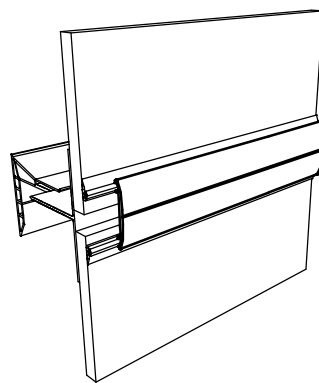
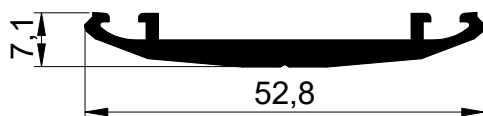
V126	3,152	kg/m`
S	11,463	cm ²
I _x	523,129	cm ⁴
I _y	19,767	cm ⁴
W _x	38,465	cm ³
W _y	3,801	cm ³





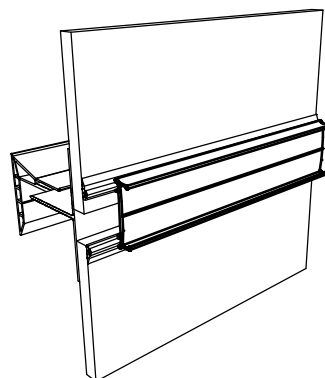
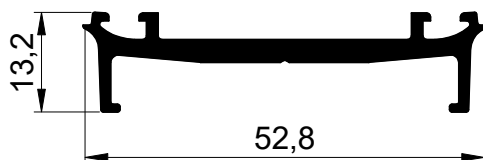
TMF3

0,430 kg/m'



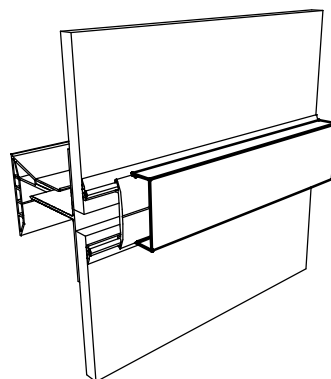
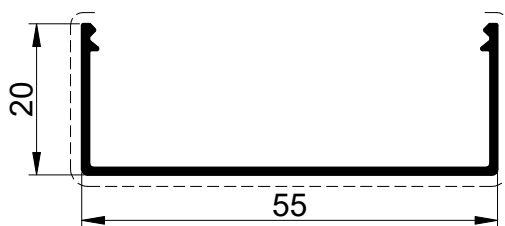
TMF33

0,507 kg/m'



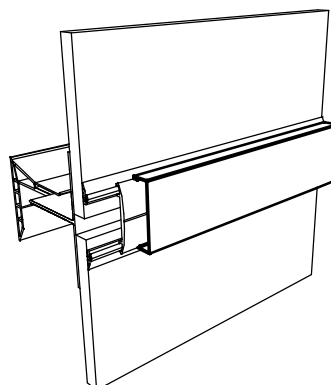
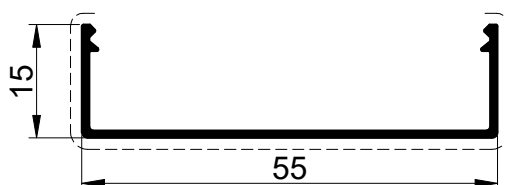
TMF4

0,264 kg/m'

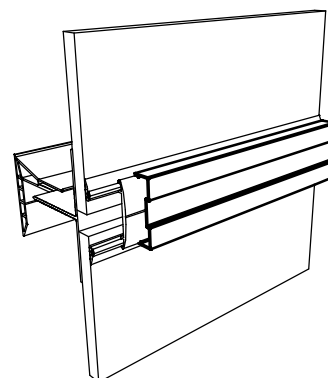
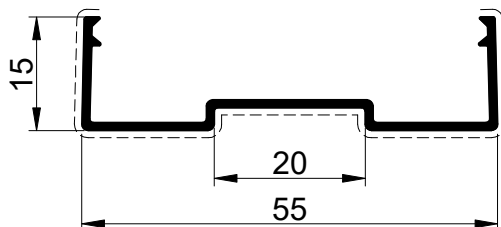


TMF5

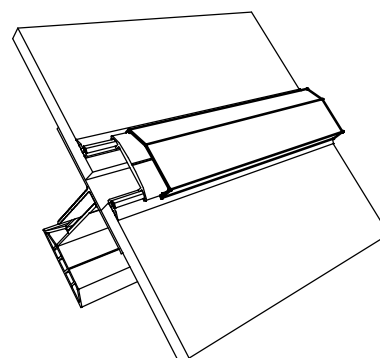
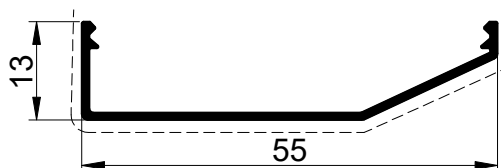
0,238 kg/m'



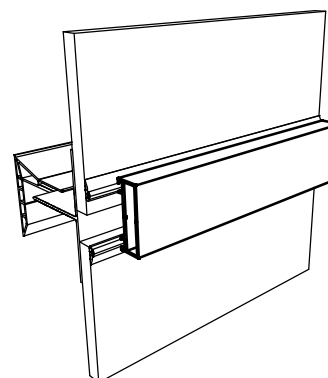
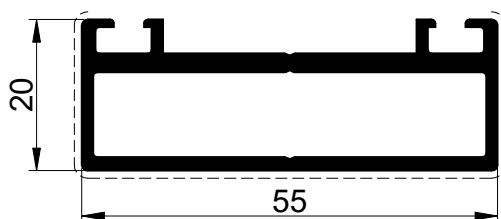
TMF58
0,253 kg/m'



TMF27
0,209 kg/m'

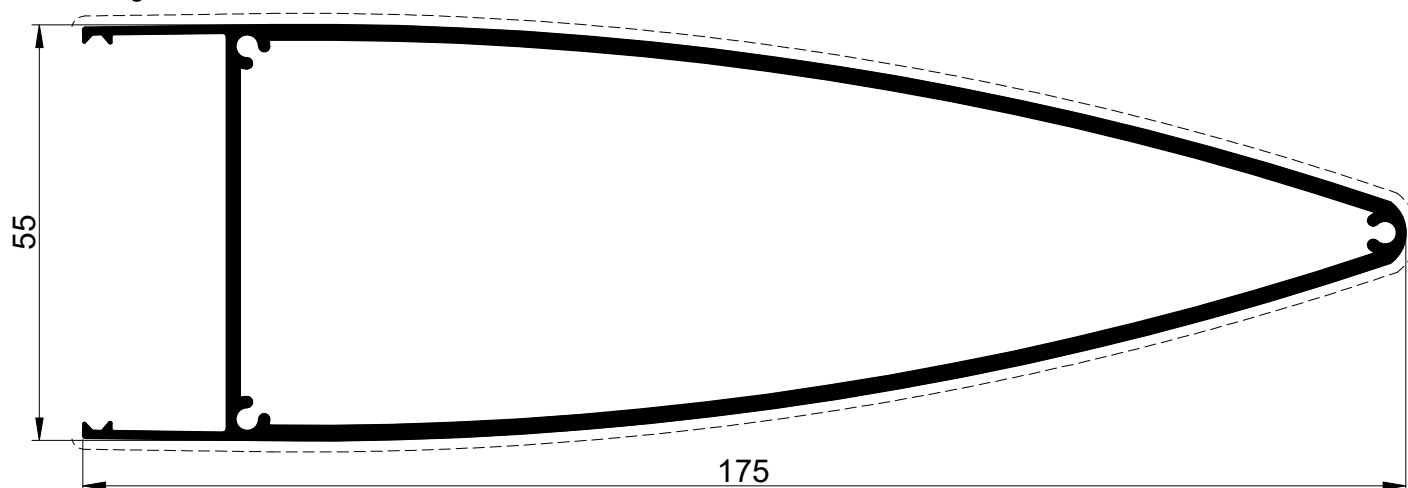


TMF61
0,841 kg/m'



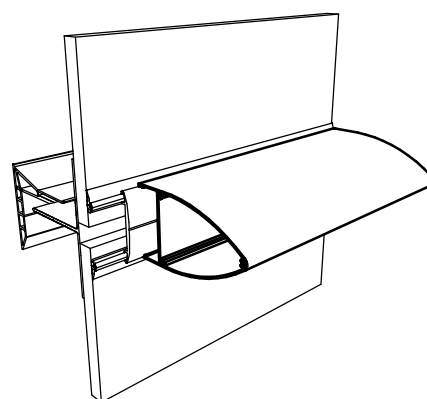
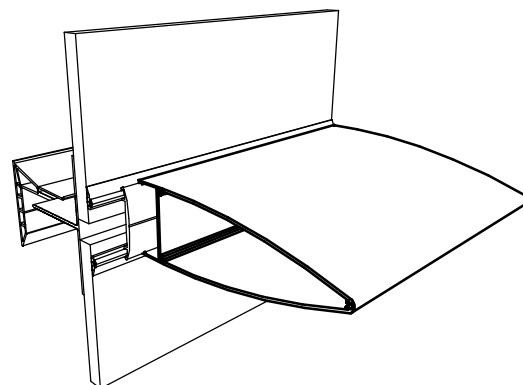
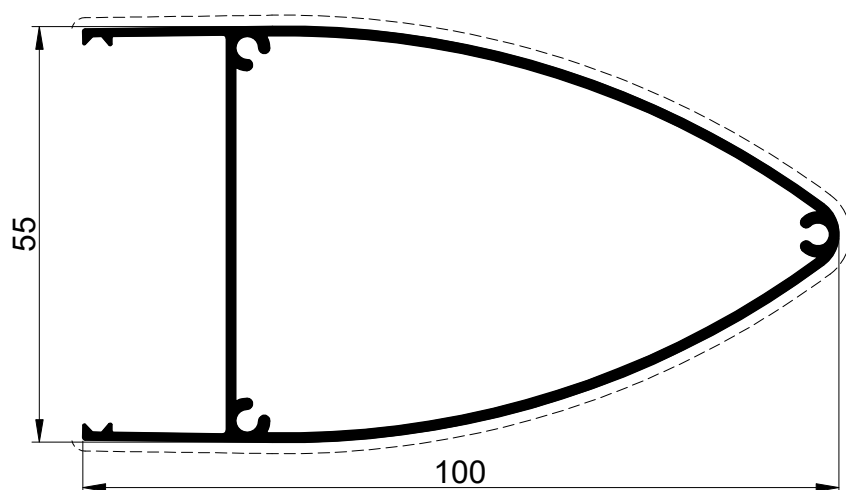
TMF54

2,088 kg/m'



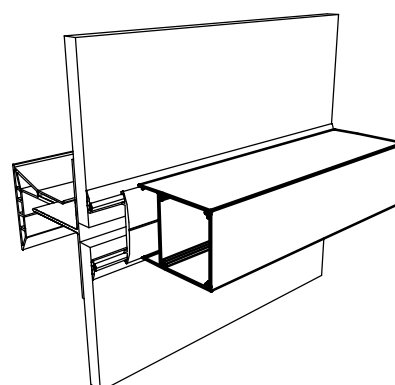
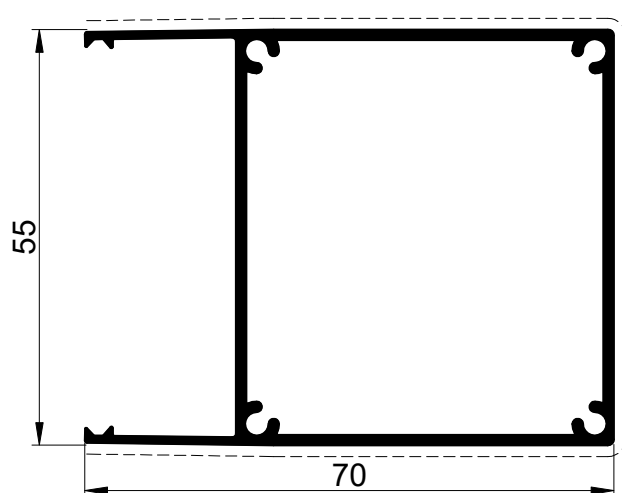
TMF15

0,931 kg/m'



TMF20

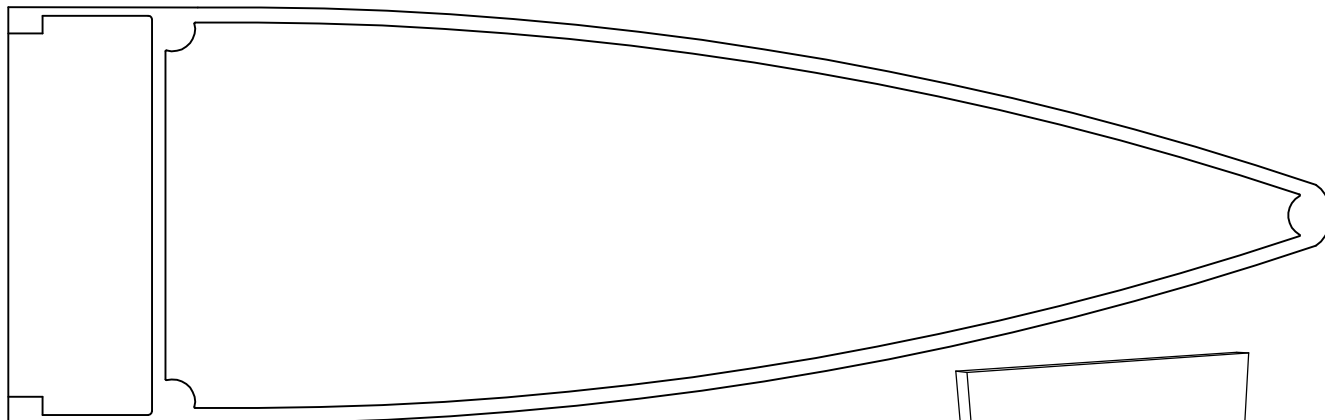
0,963 kg/m'



Mogućnost montiranja vertikalno i horizontalno.
Possibility of installation vertically and horizontally.

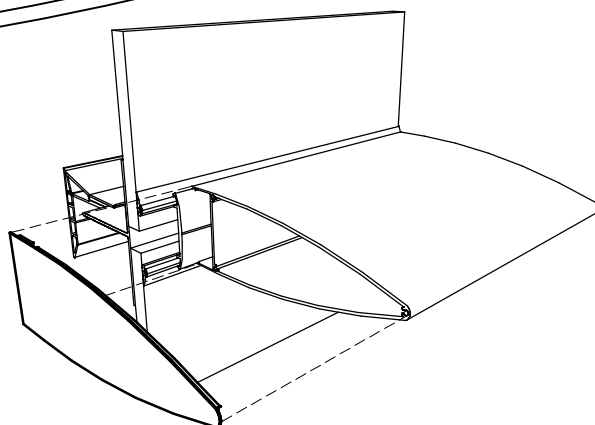
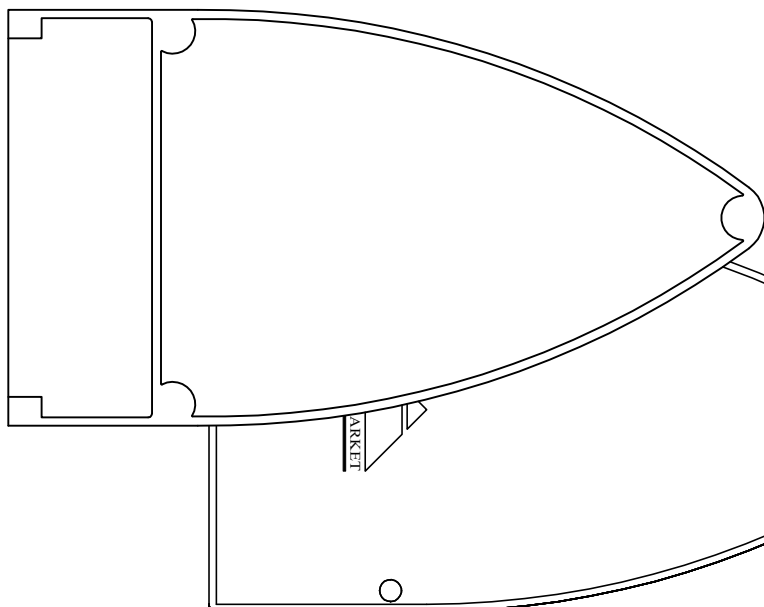
TMPB16

Čep za TMF54
Plug for TMF54



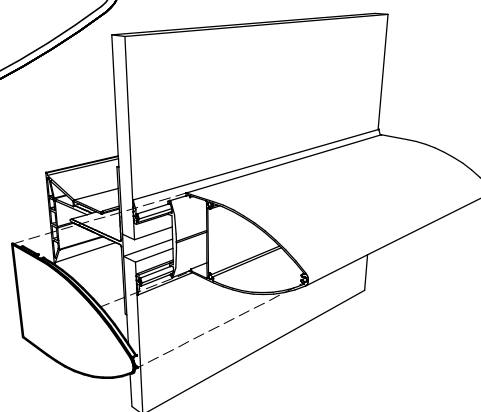
TMPB17

Čep za TMF15
Plug for TMF15



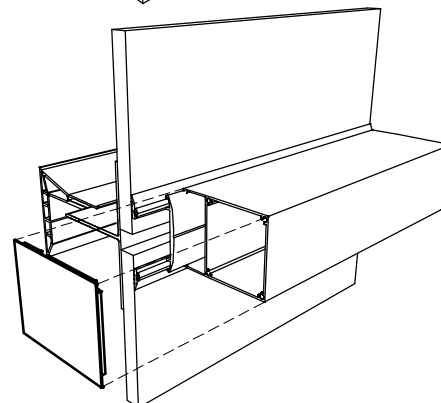
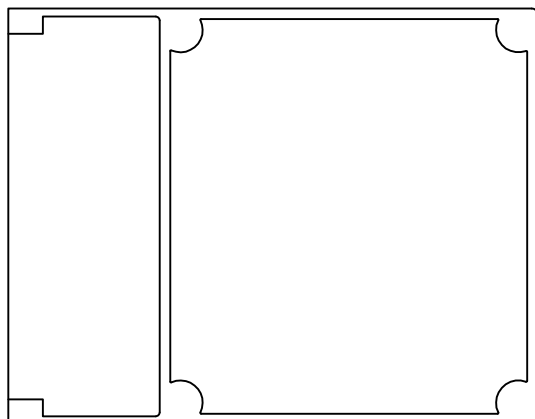
TMFP8

Plastični čep za TMF15 (crni)
Plastic plug for TMF15 (black)



TMPB18

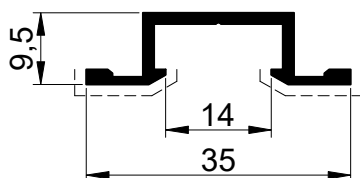
Čep za TMF20
Plug for TMF20



Čepovi se prave od aluminijumskih kompozitnih panela debljine 4mm u velikom izboru boja
Plugs are made of aluminium composite panels in thickness 4mm in variety of colors

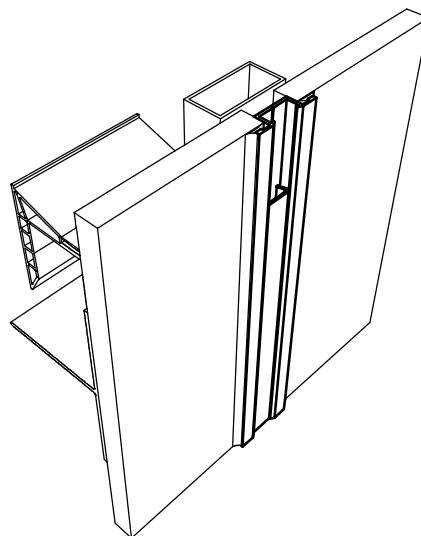
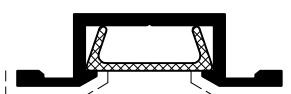
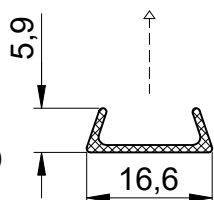
TMF17

0,216 kg/m'



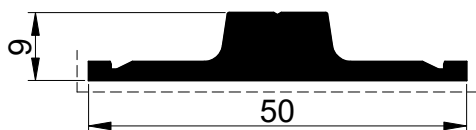
TMFP7

PVC pokrivna lajsna za TMF17 (crni)
U-PVC Cover cap for TMF17 (black)



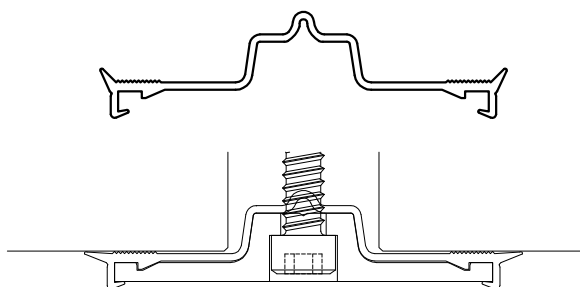
TMF41

0,591 kg/m'



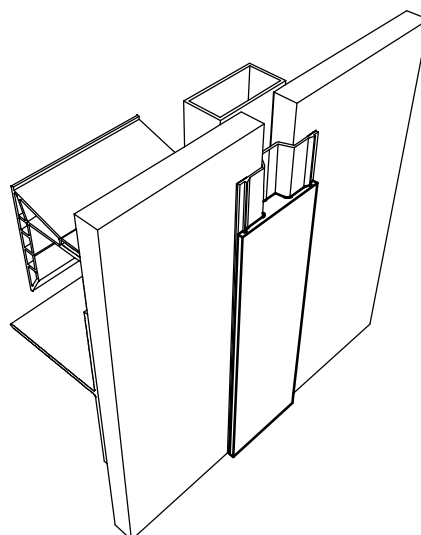
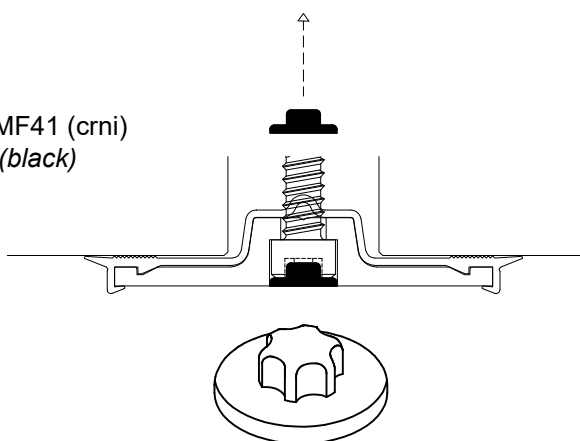
TMFG20

EPDM zaptivka (crna)
EPDM gasket (black)



TMFG19

Plastični čep vijka za TMF41 (crni)
Plastic plug for TMF41 (black)

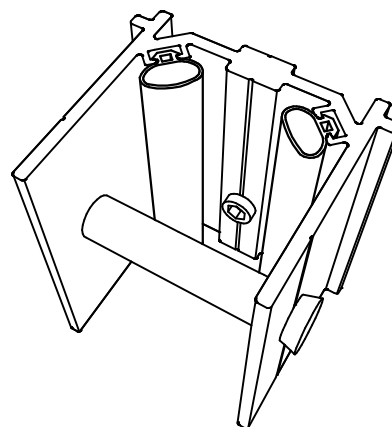
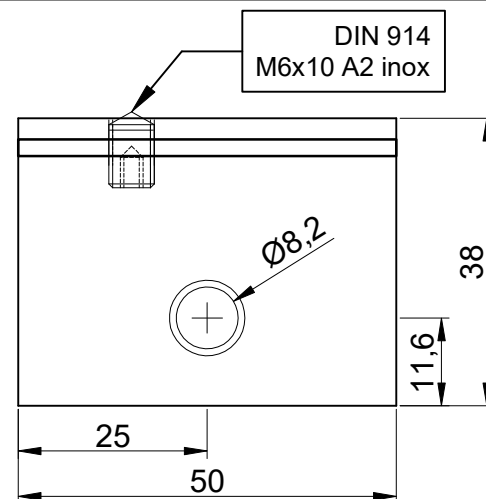
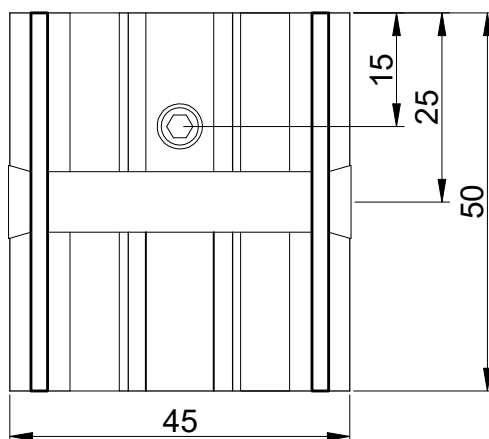
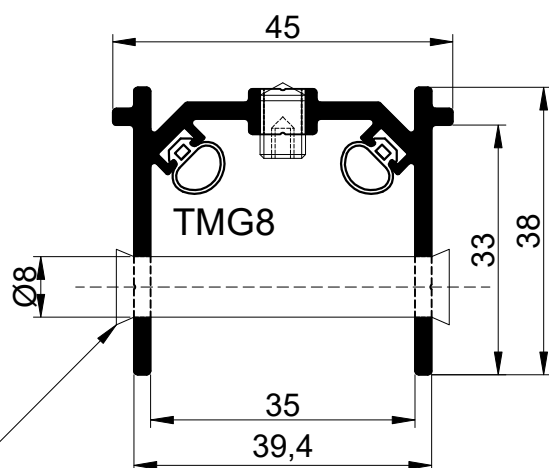


Lista artikala i pratećeg materijala
Articles and accessories list

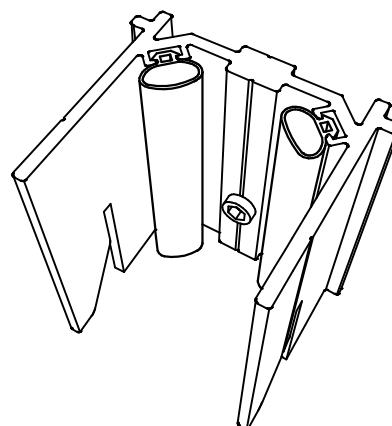
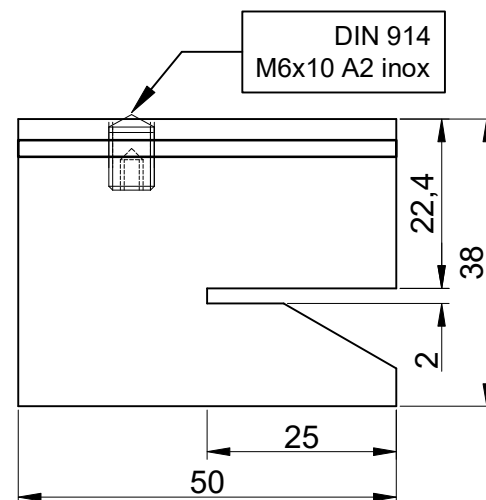
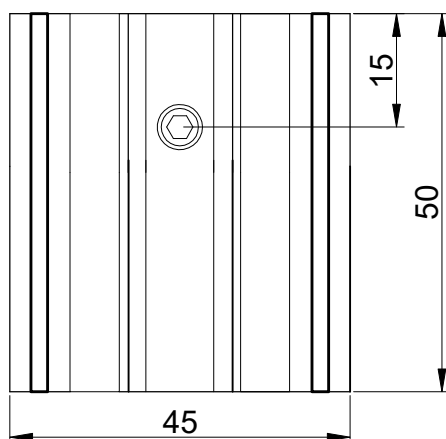
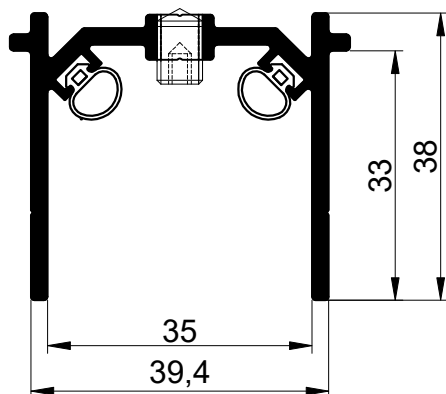


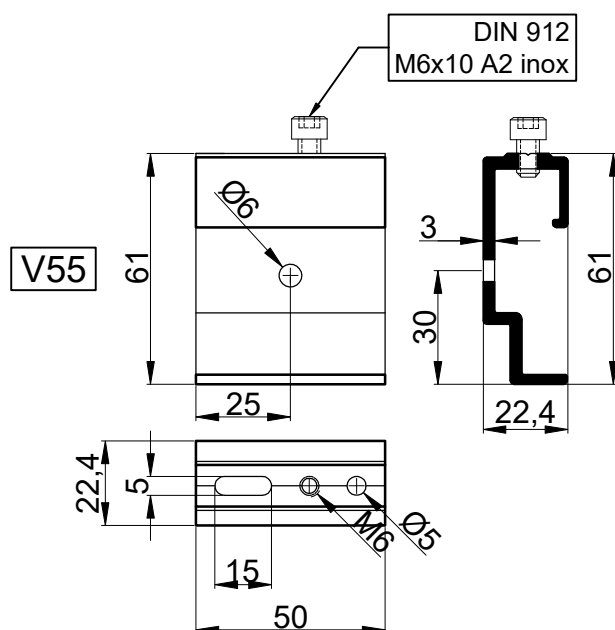
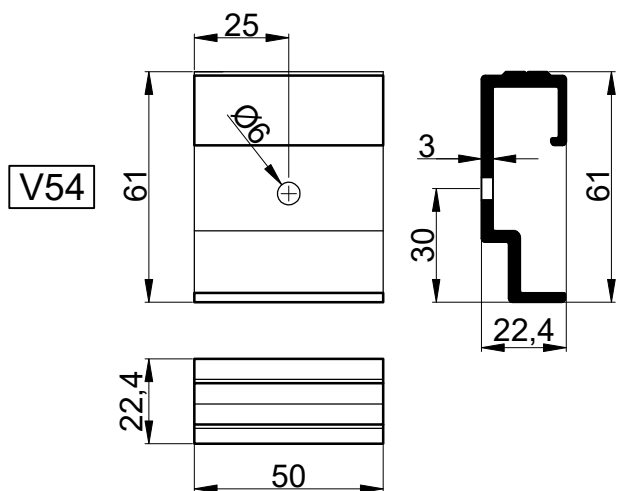
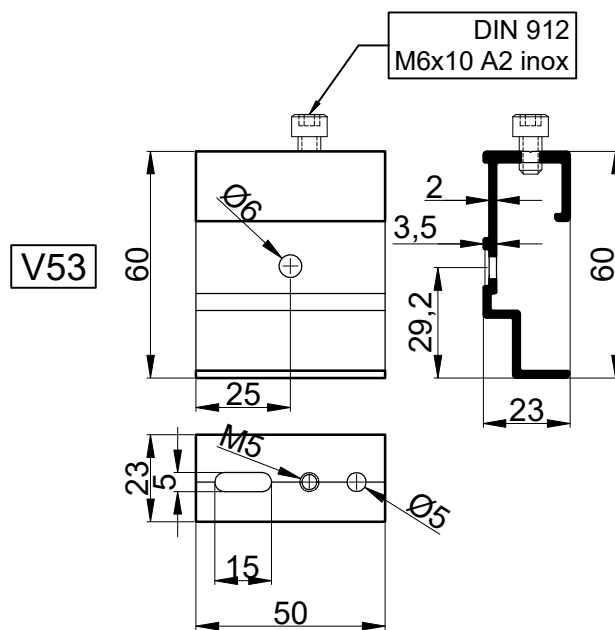
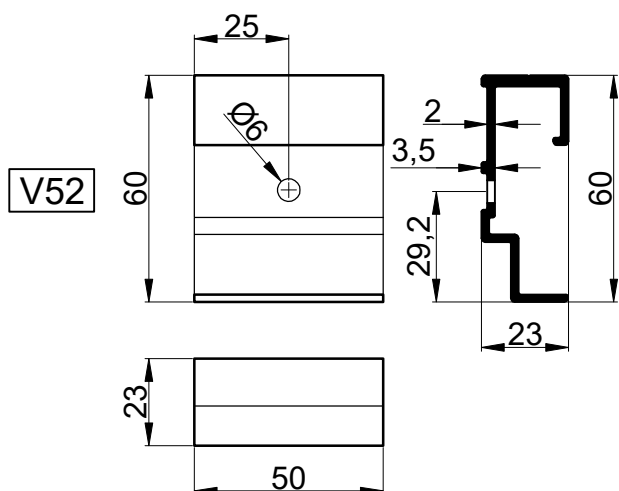
V50

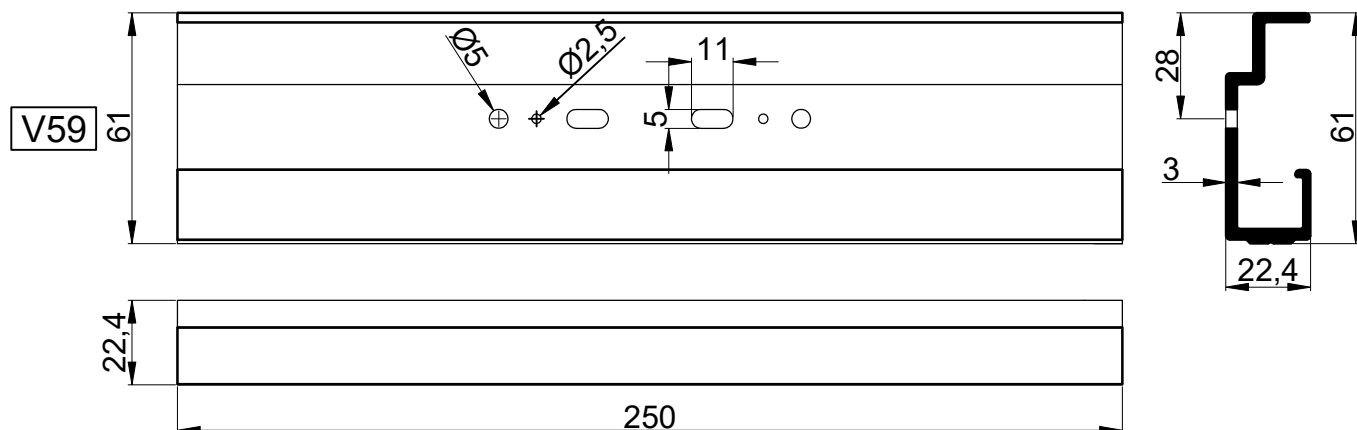
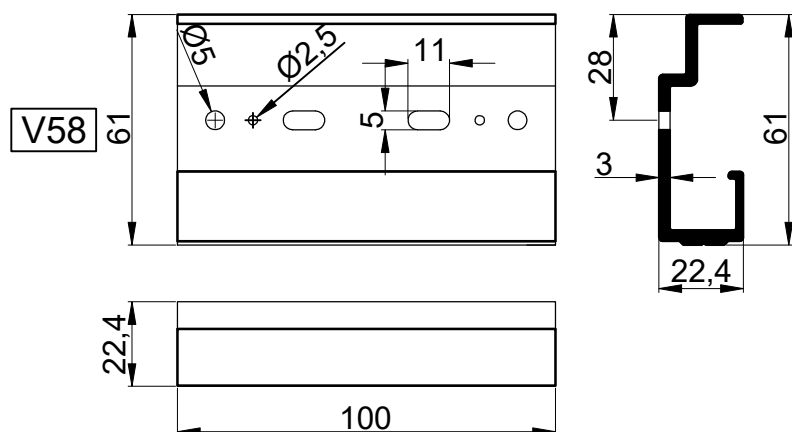
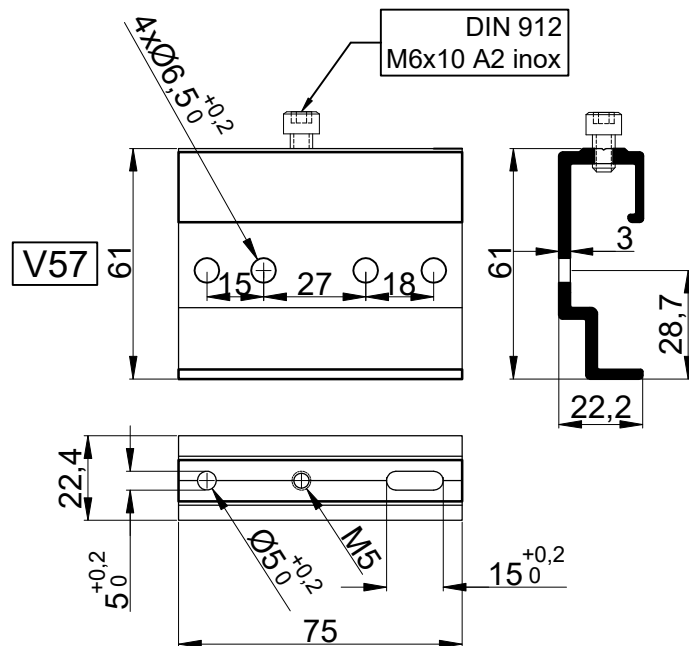
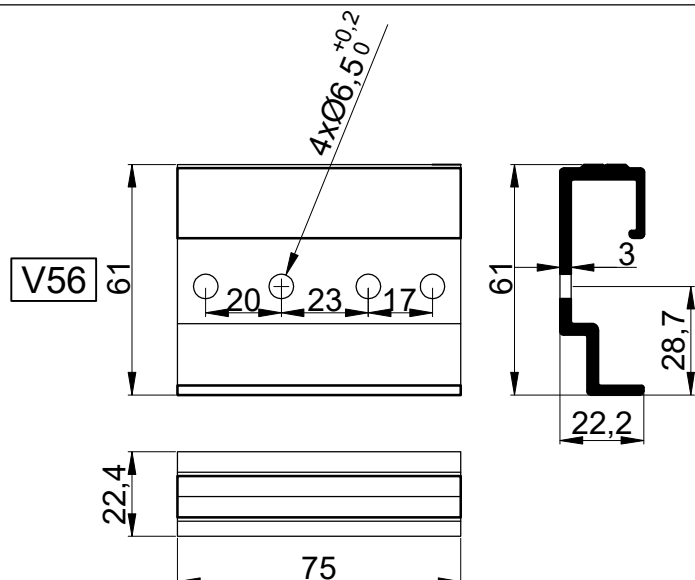
Aluminijumska cev Ø8mm/1mm
Aluminium tube Ø8mm/1mm



V51



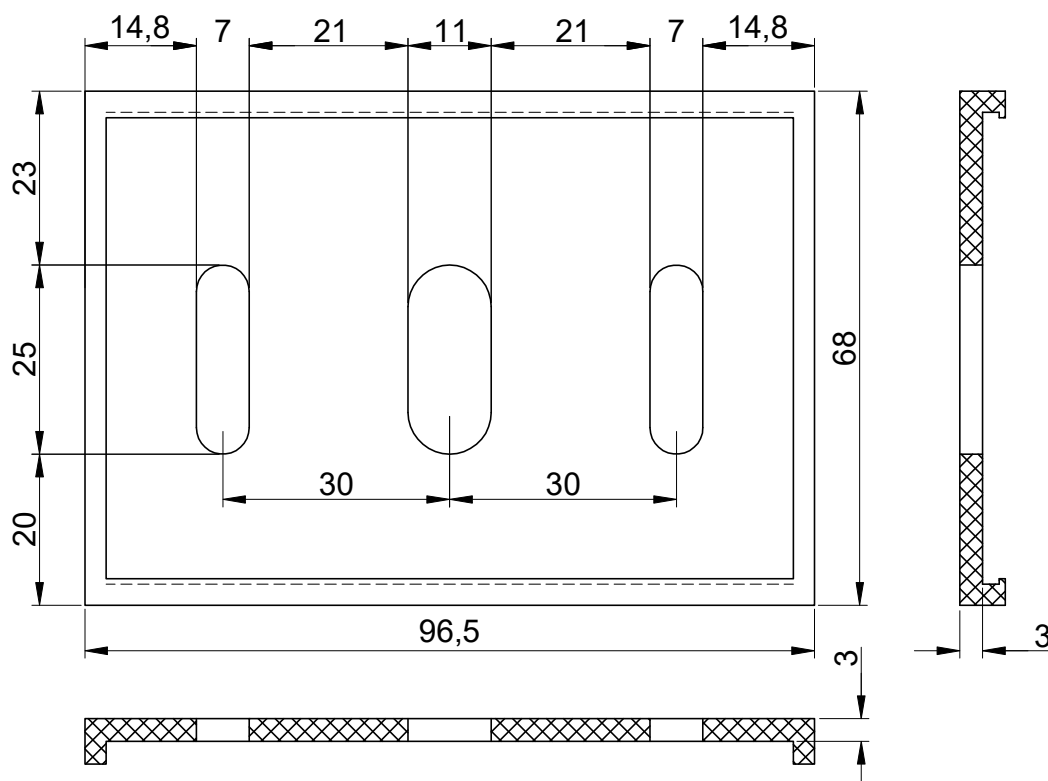




V70

Za kotve:
For brackets:

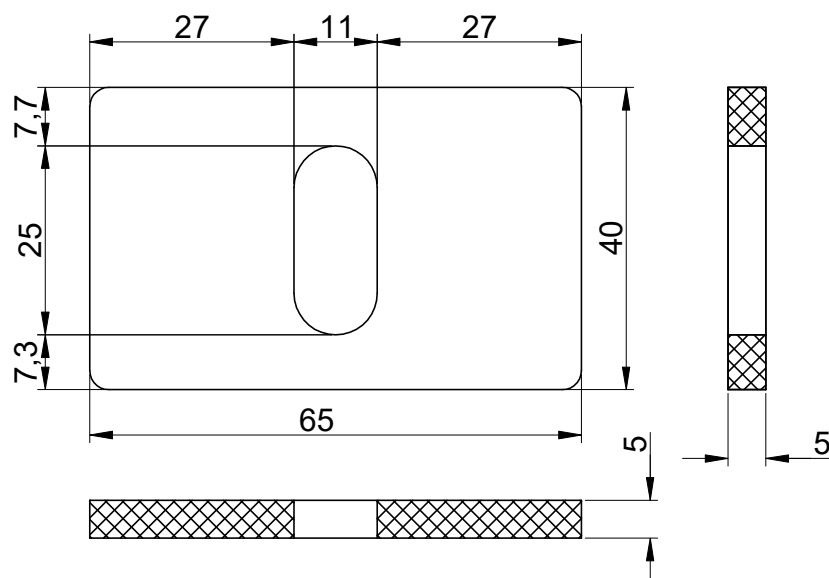
V34
V35
V36
V37
V43
V44
V45
V46
V127
V128
V129
V130



V71

Za kotve:
For brackets:

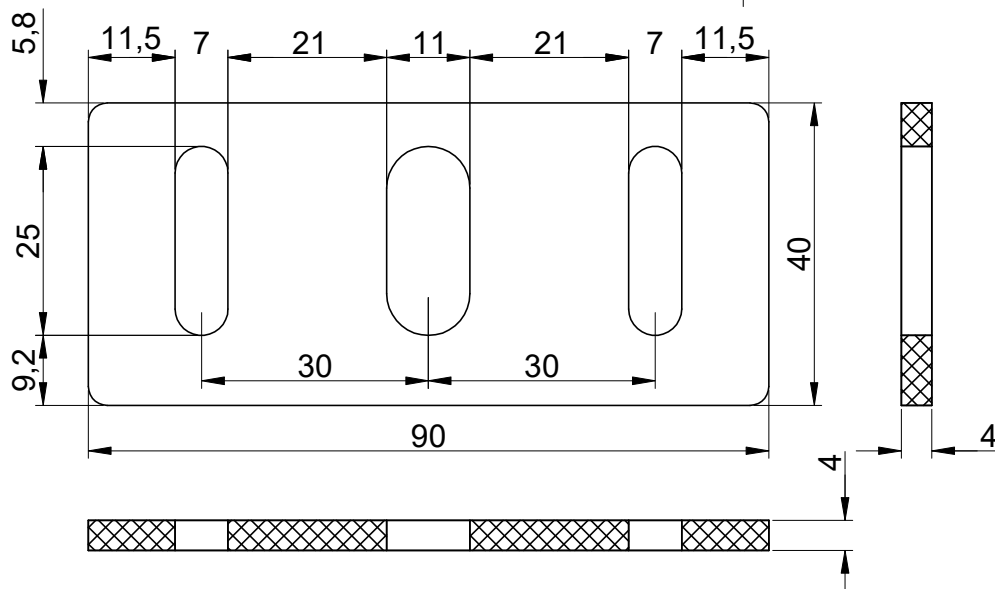
V24
V25
V28
V29
V39
V40
V41
V42
V47
V48
V120
V121



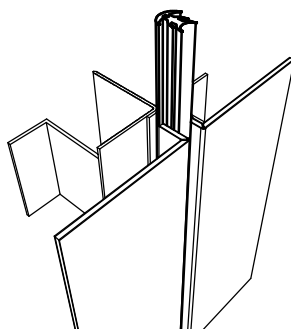
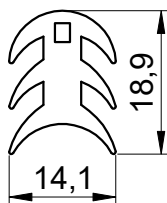
V72

Za kotve:
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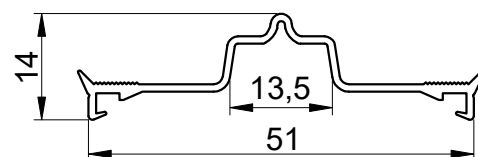
V26
V27
V30
V31
V32
V33
V122
V123



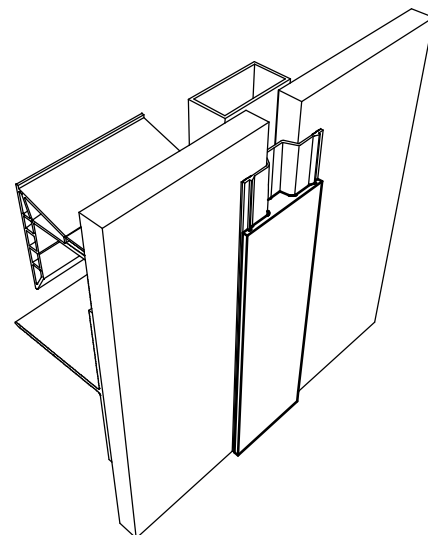
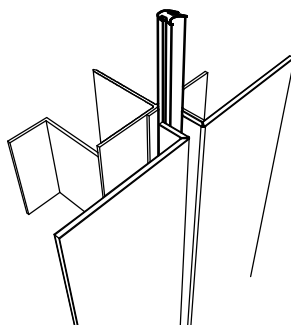
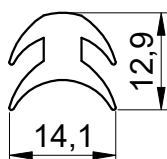
V60



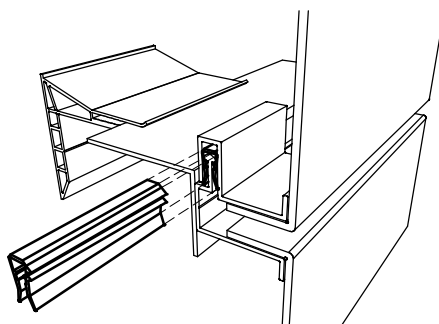
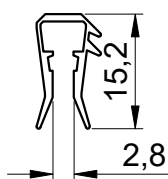
TMFG20



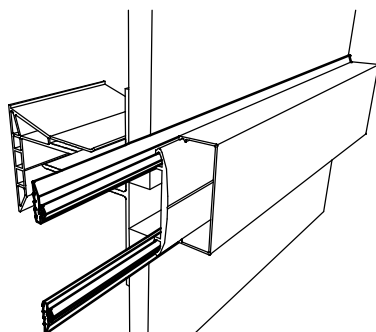
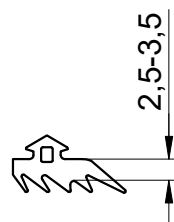
V61



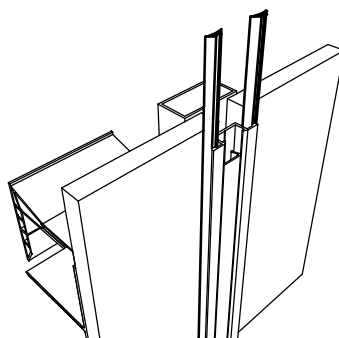
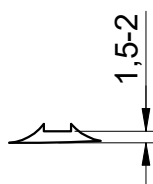
V62

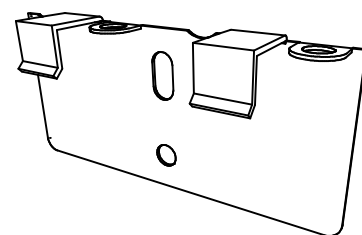
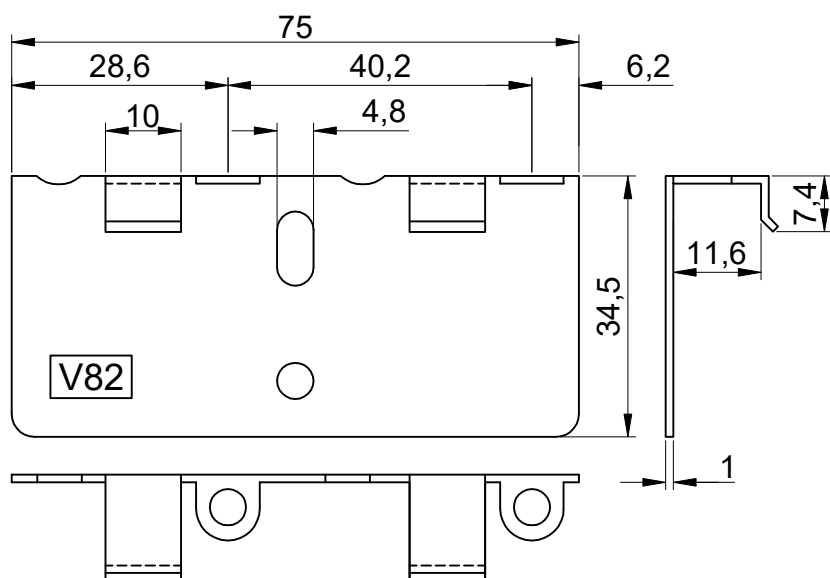
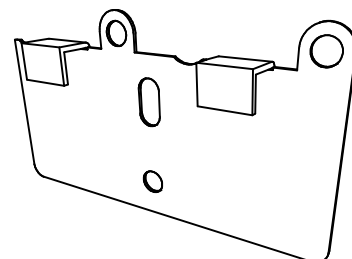
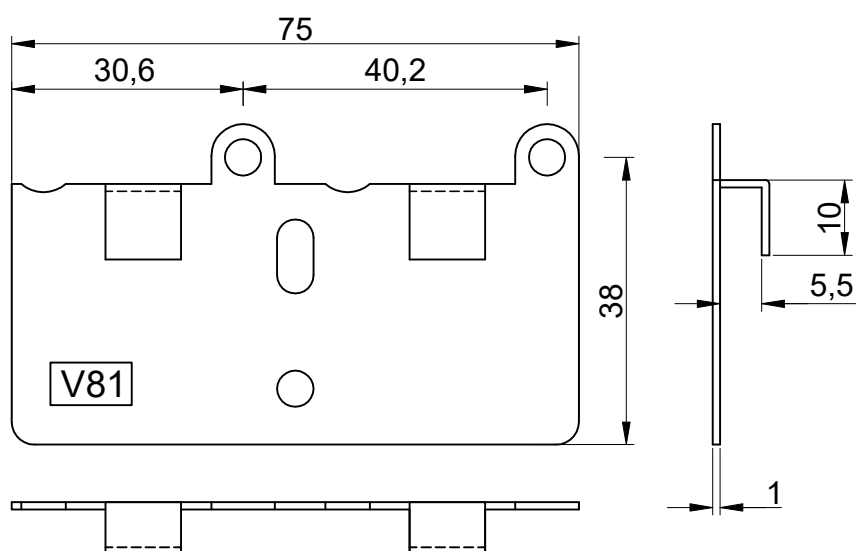
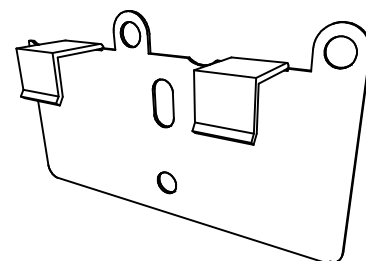
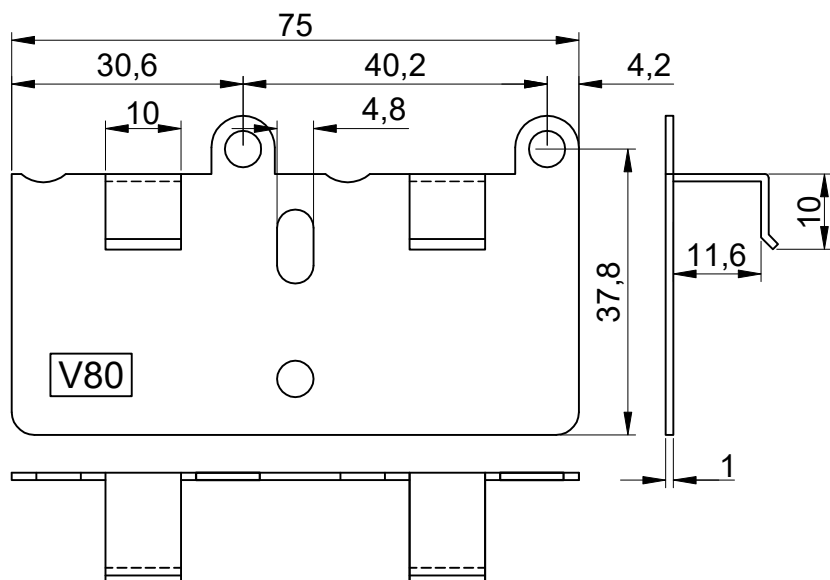


TMFG3

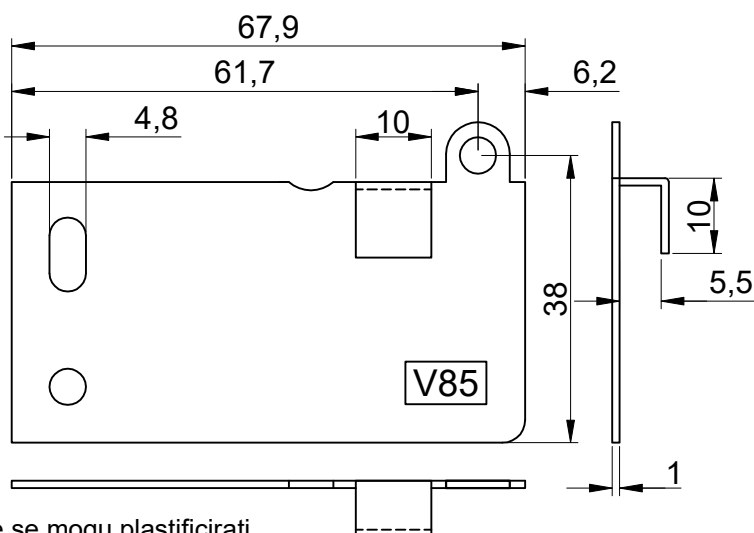
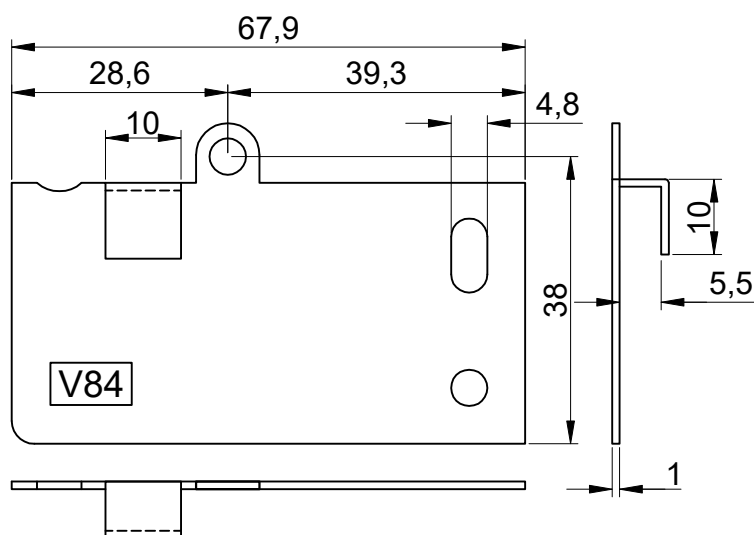
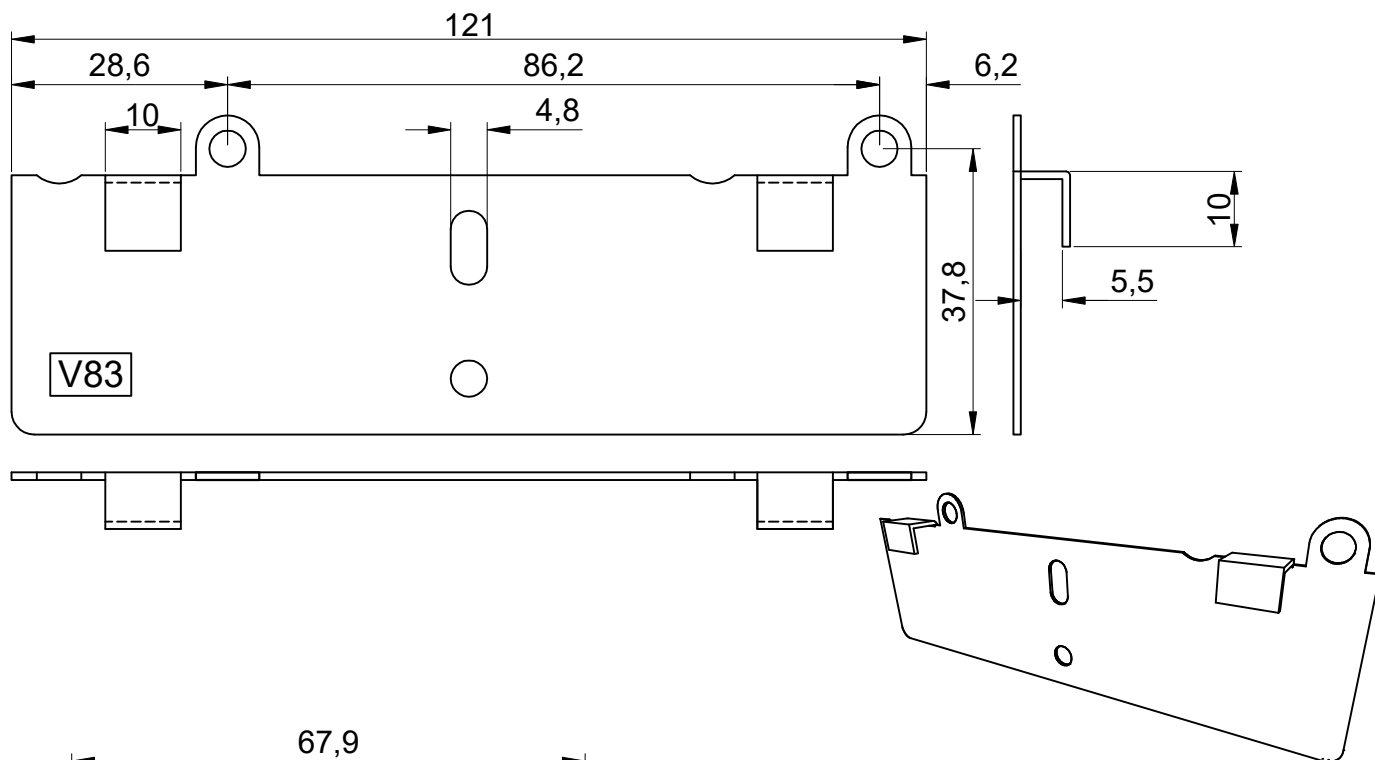


TMG4

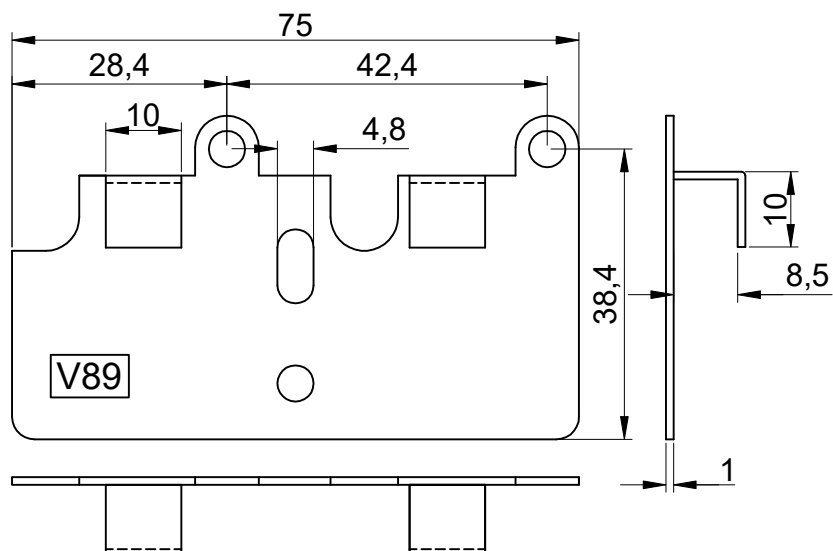
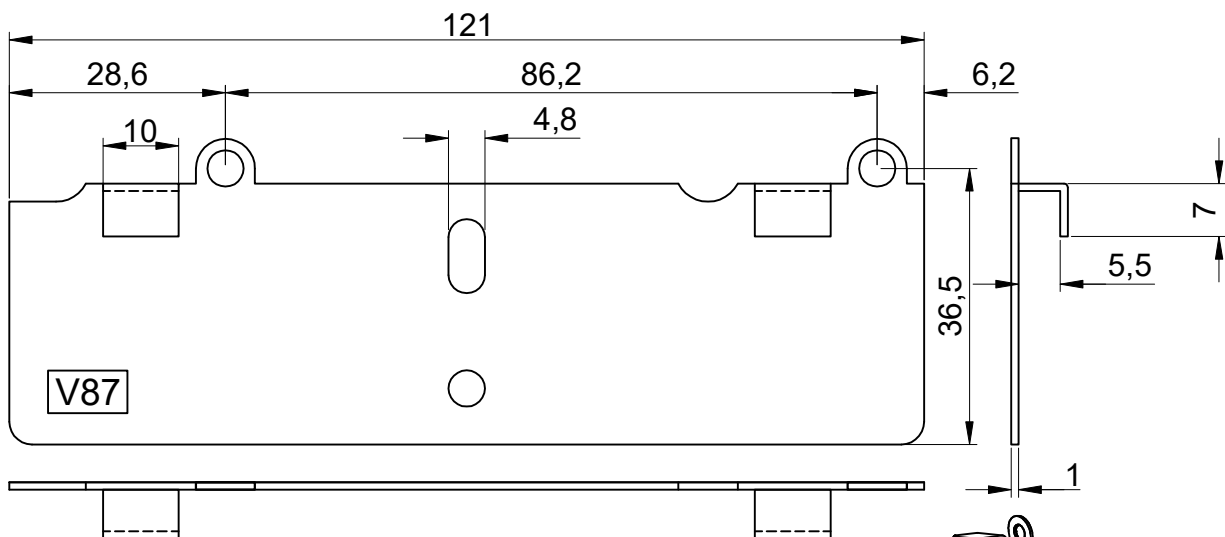
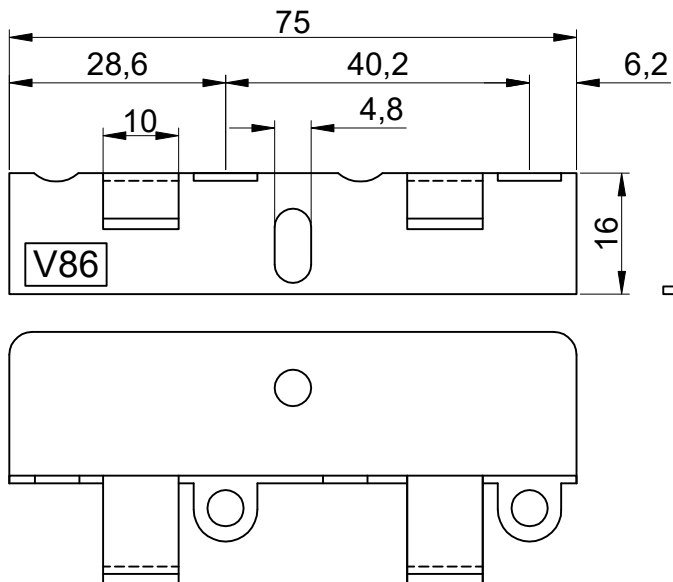




*Pločice se mogu plastificirati.
*Plates can be powder-coated.

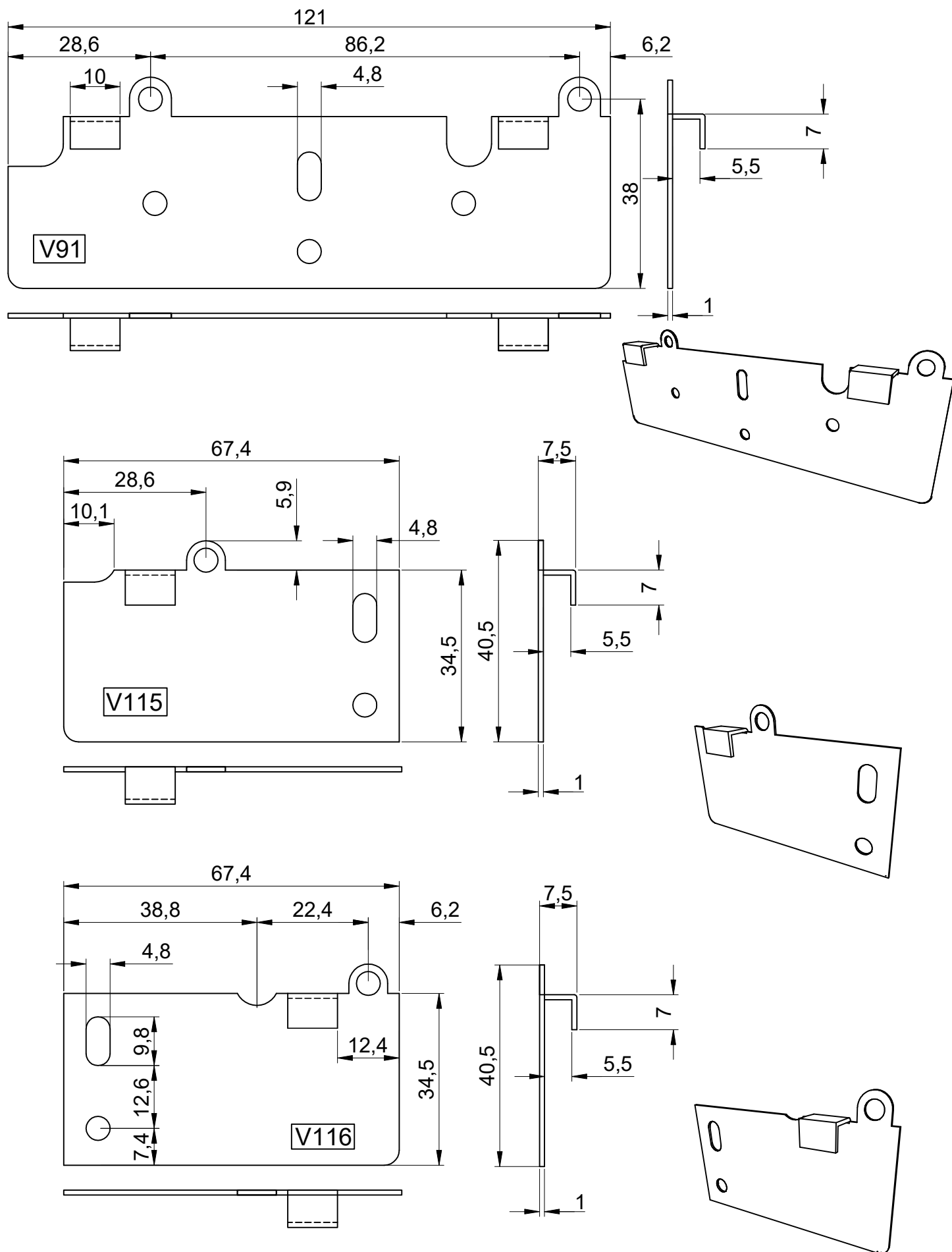


*Pločice se mogu plastificirati.
*Plates can be powder-coated.



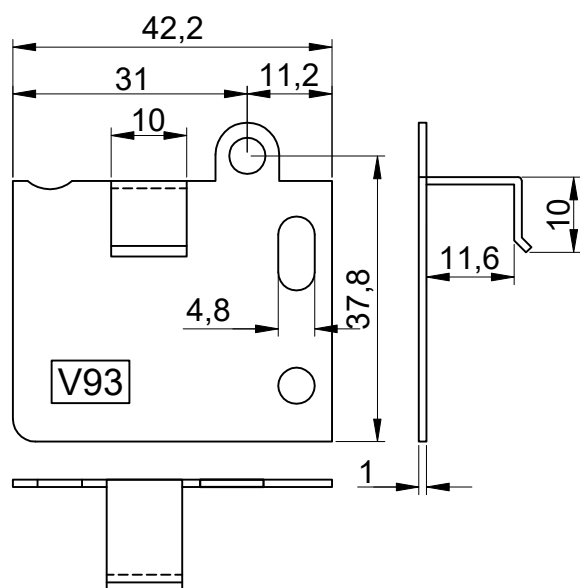
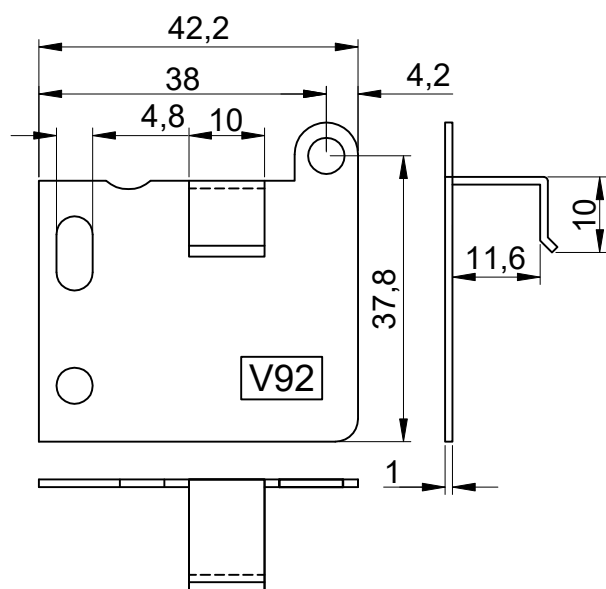
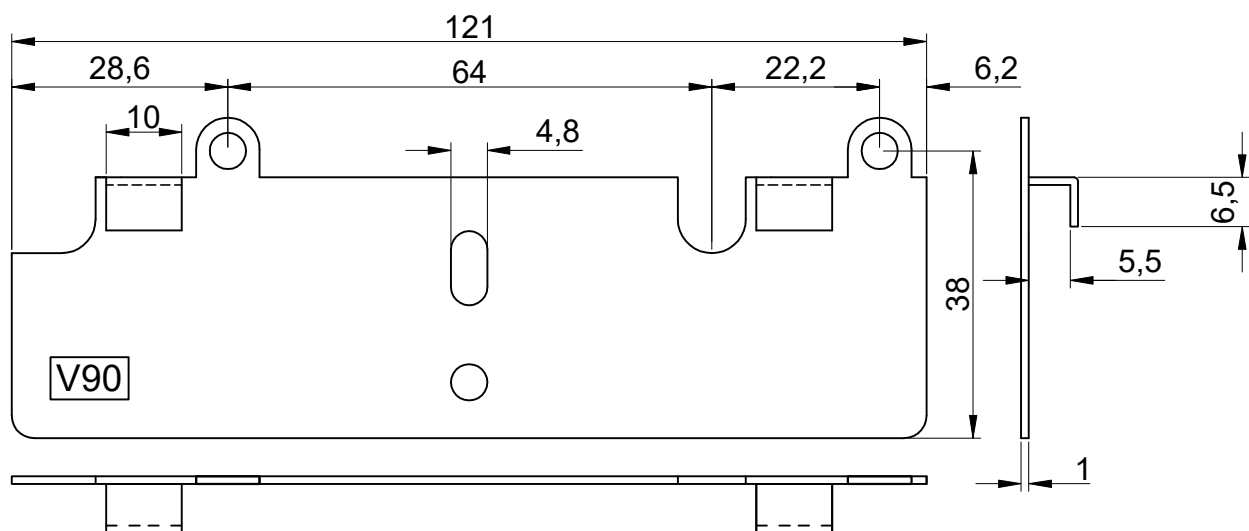
*Pločice se mogu plastificirati.

*Plates can be powder-coated.



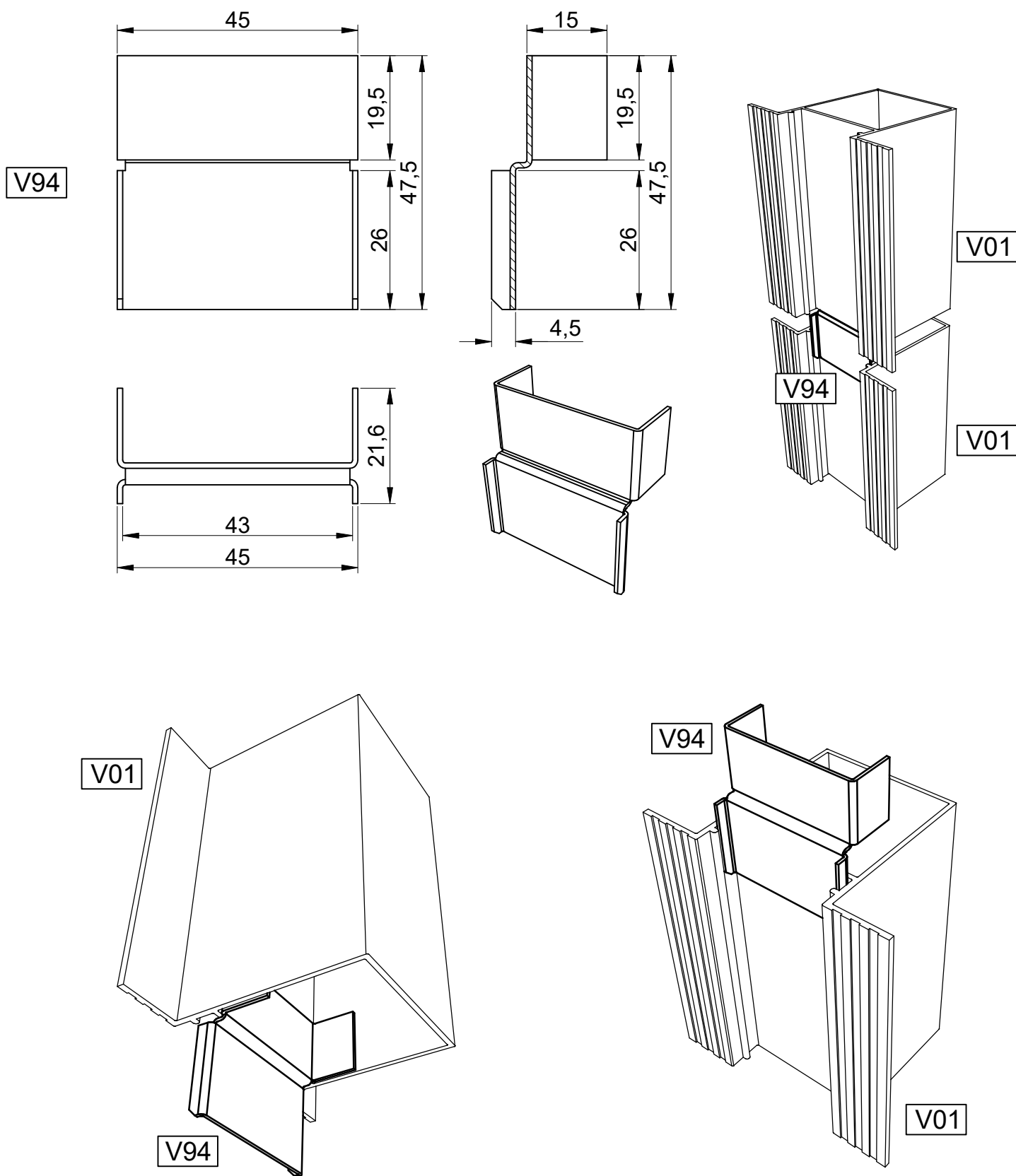
*Pločice se mogu plastificirati.

*Plates can be powder-coated.

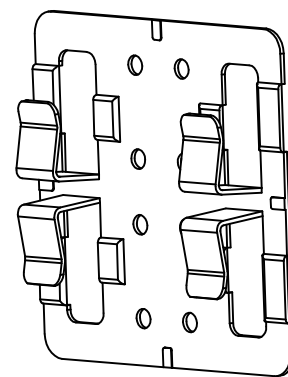
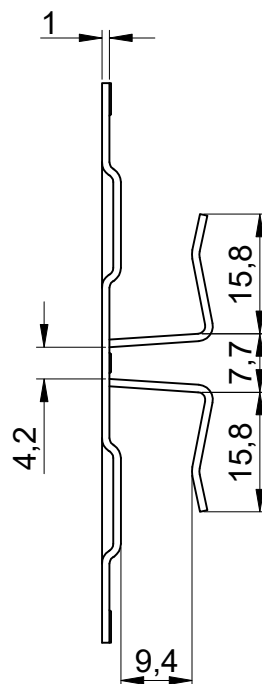
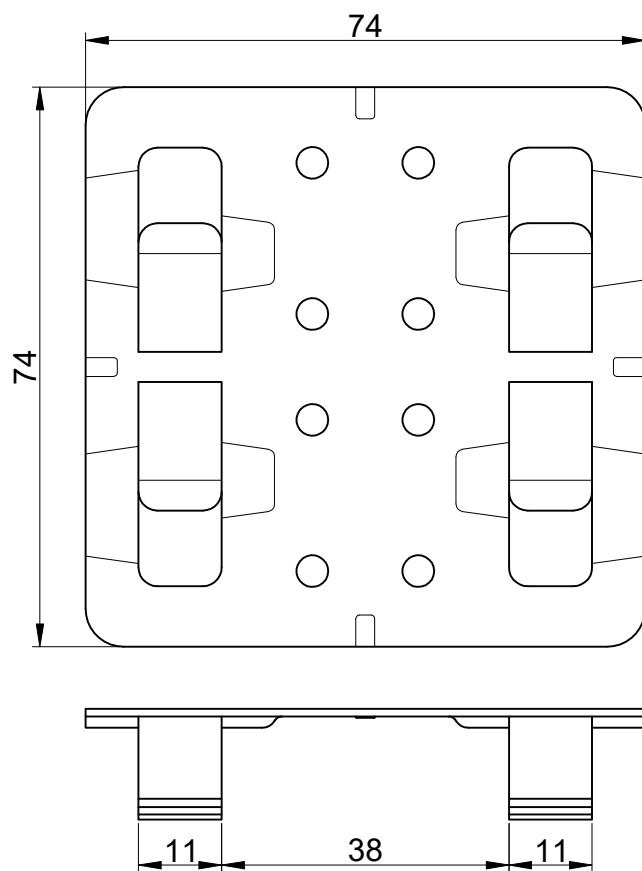


*Pločice se mogu plastificirati.

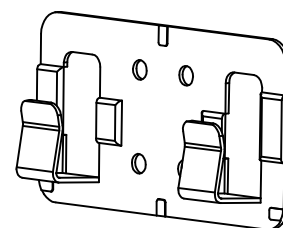
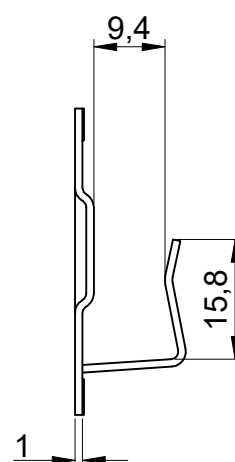
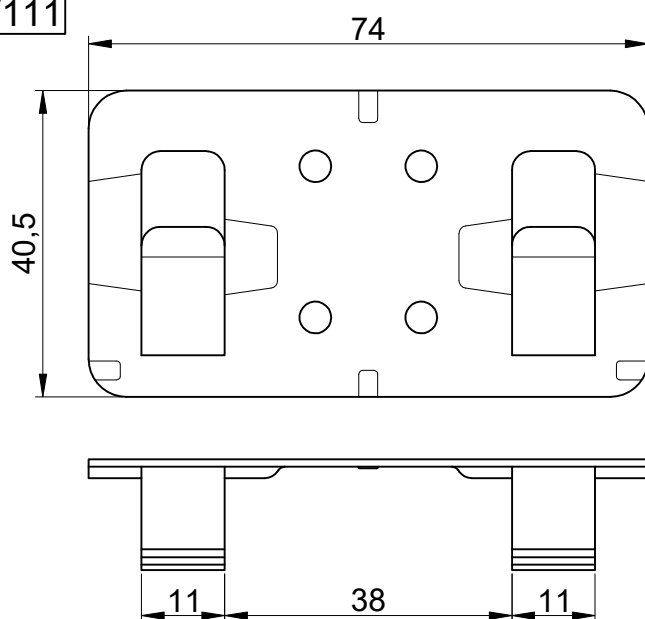
*Plates can be powder-coated.



V110

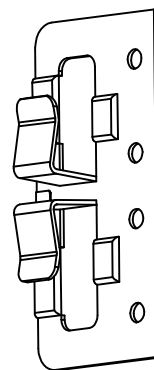
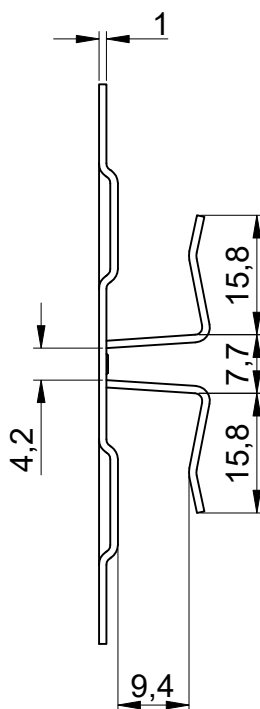
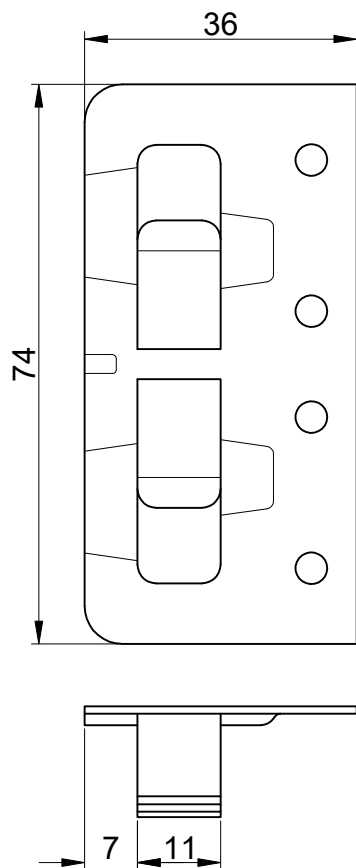


V111

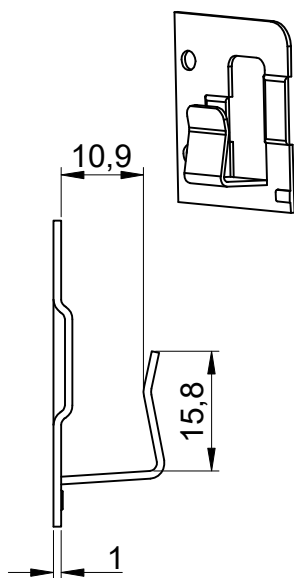
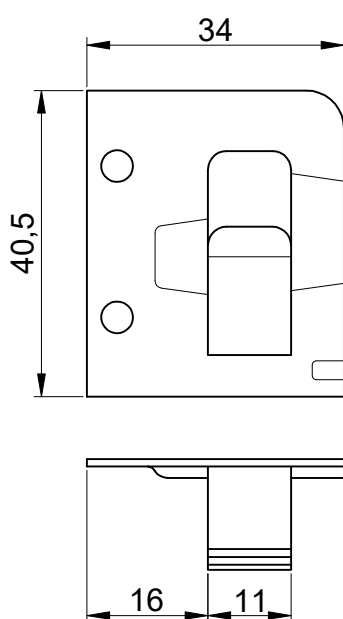


*Pločice se mogu plastificirati.
*Plates can be powder-coated.

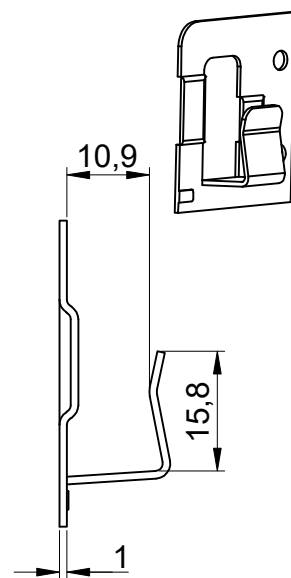
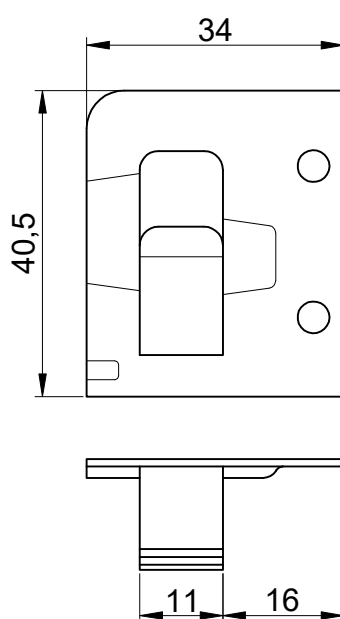
V112



V113



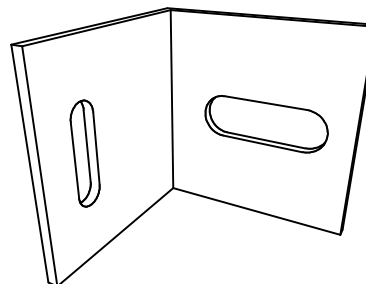
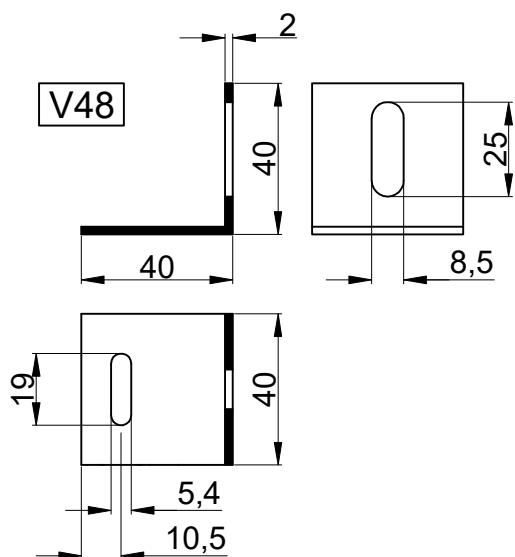
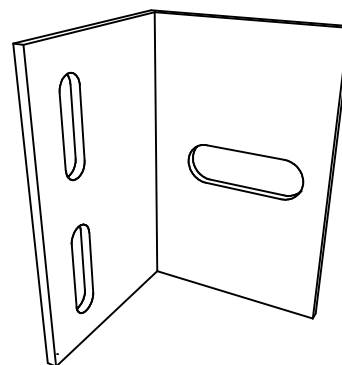
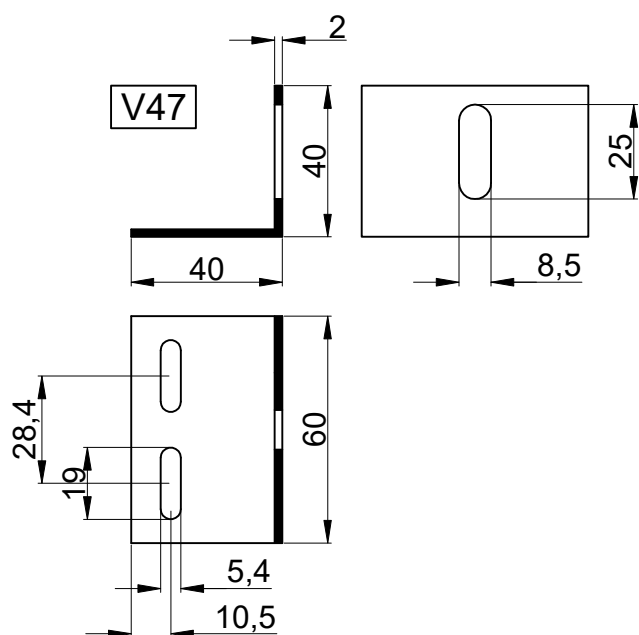
V114

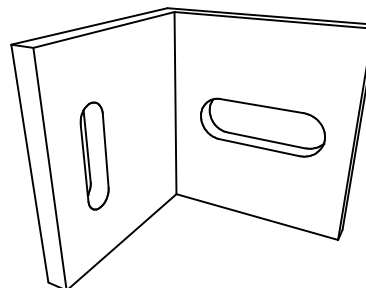
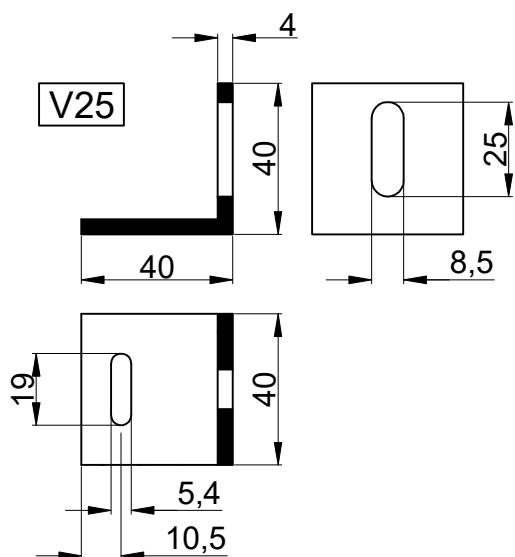
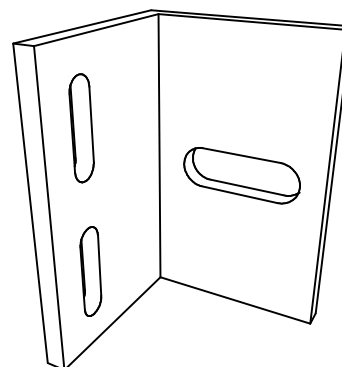
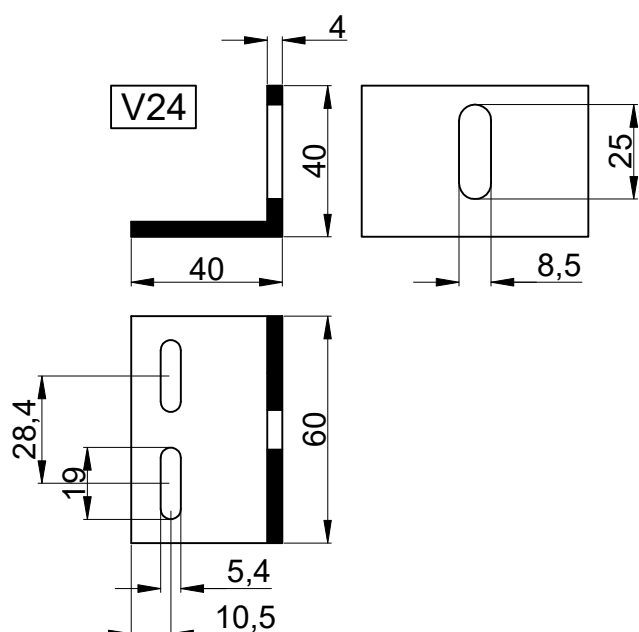


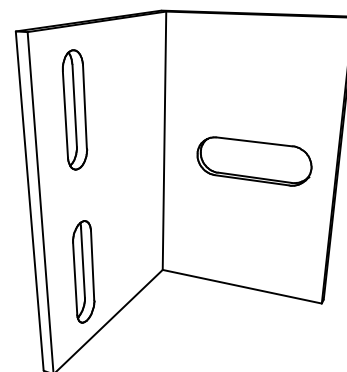
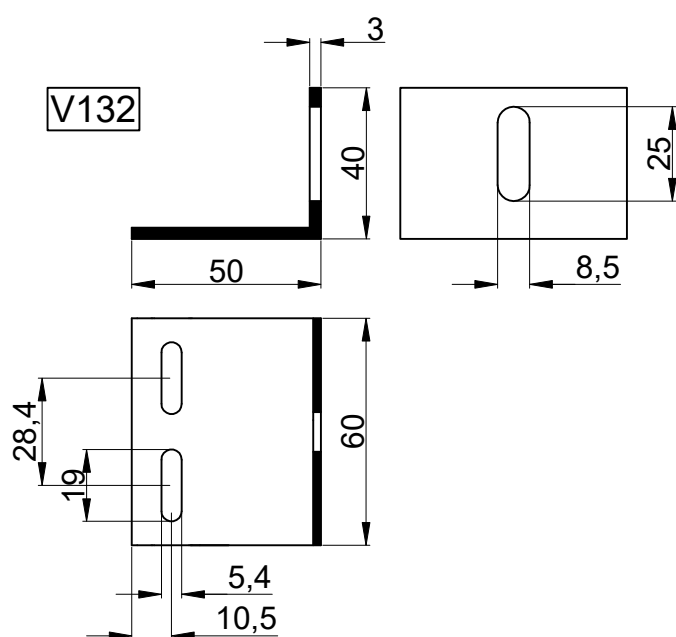
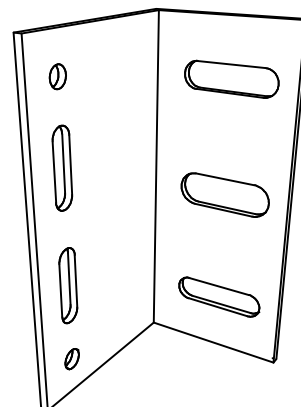
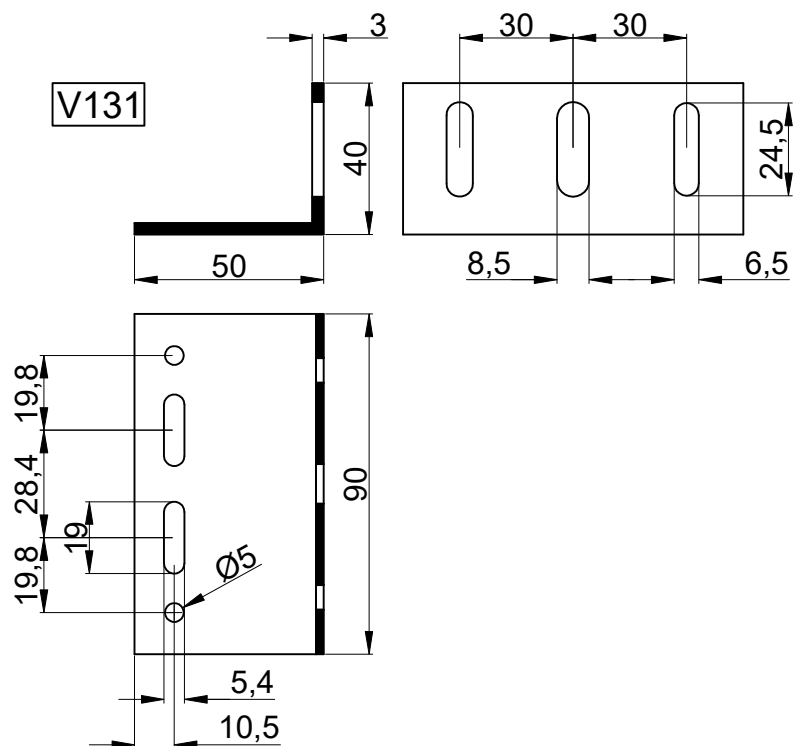
*Pločice se mogu plastificirati.
*Plates can be powder-coated.

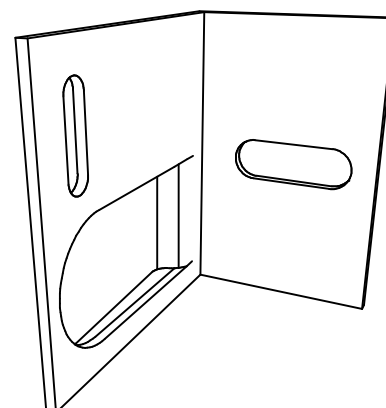
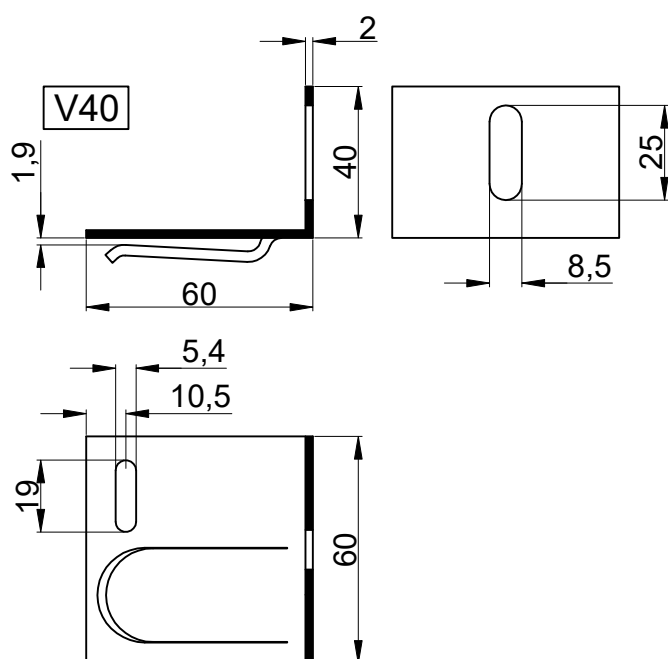
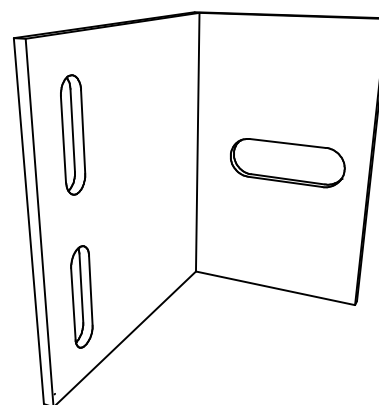
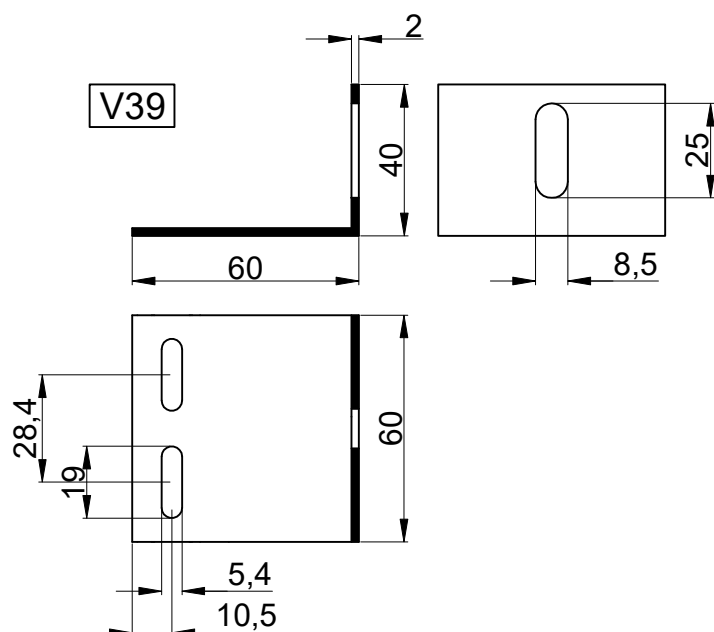
Pregled kotvi
Brackets overview

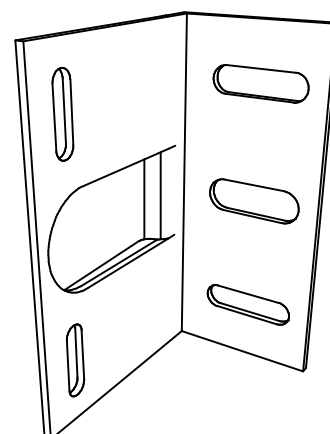
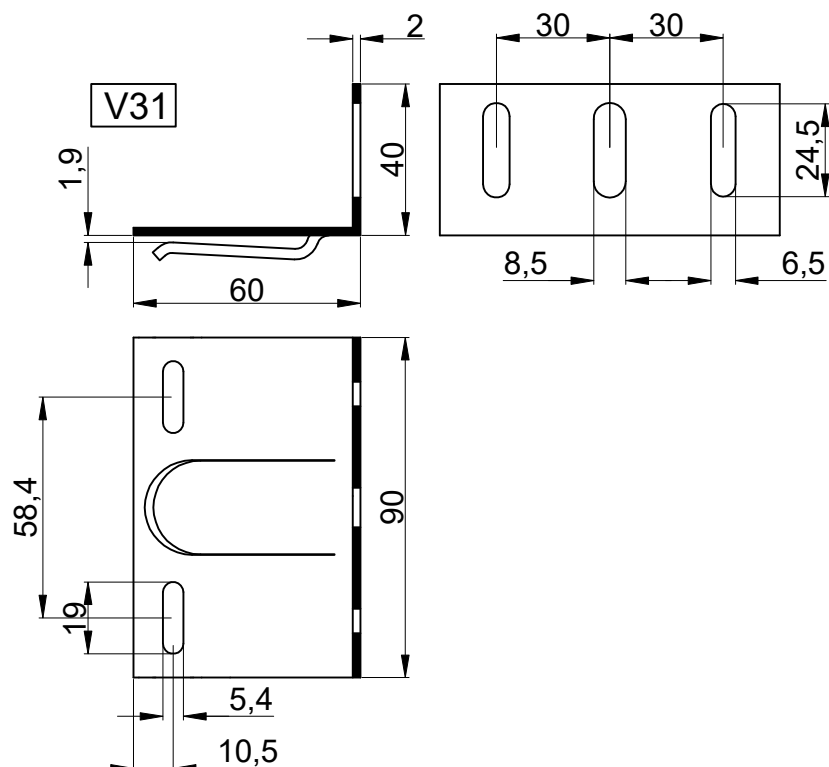
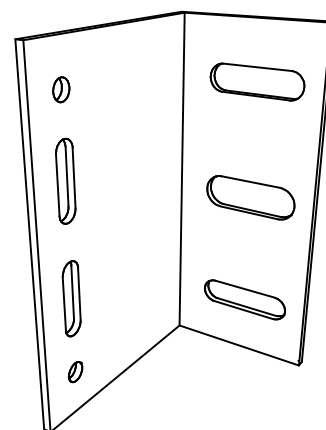
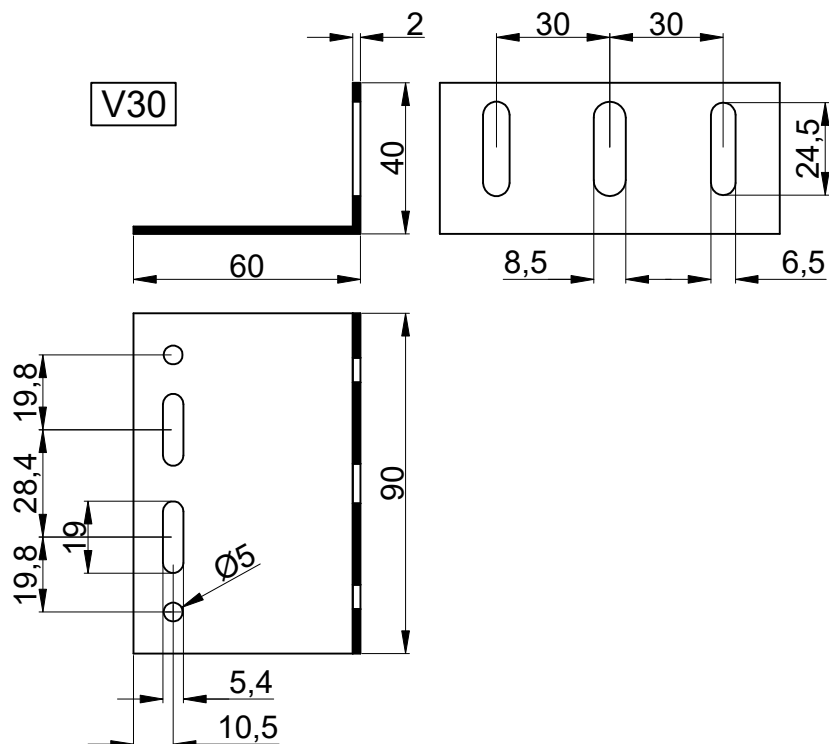


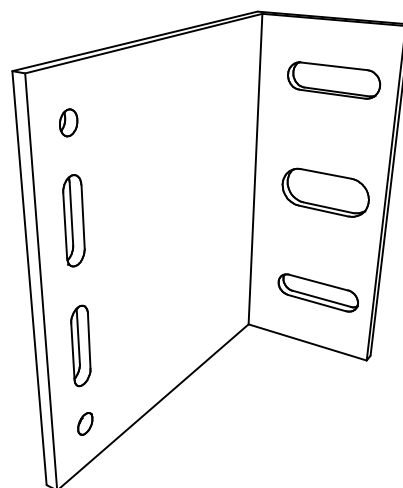
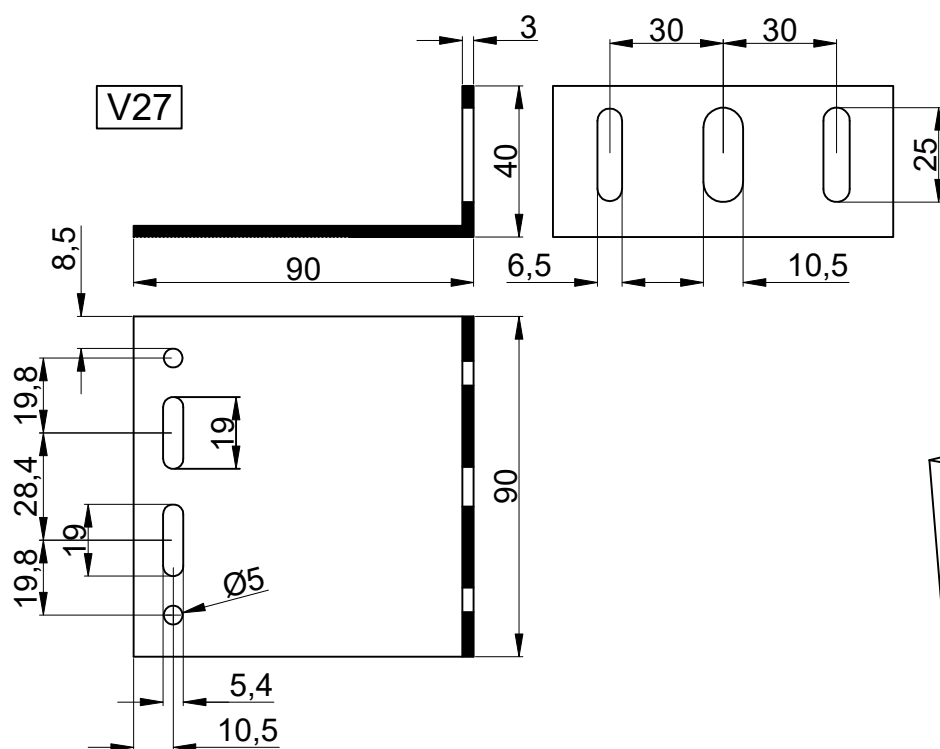
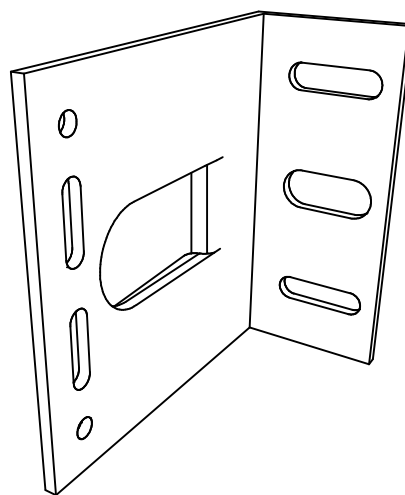
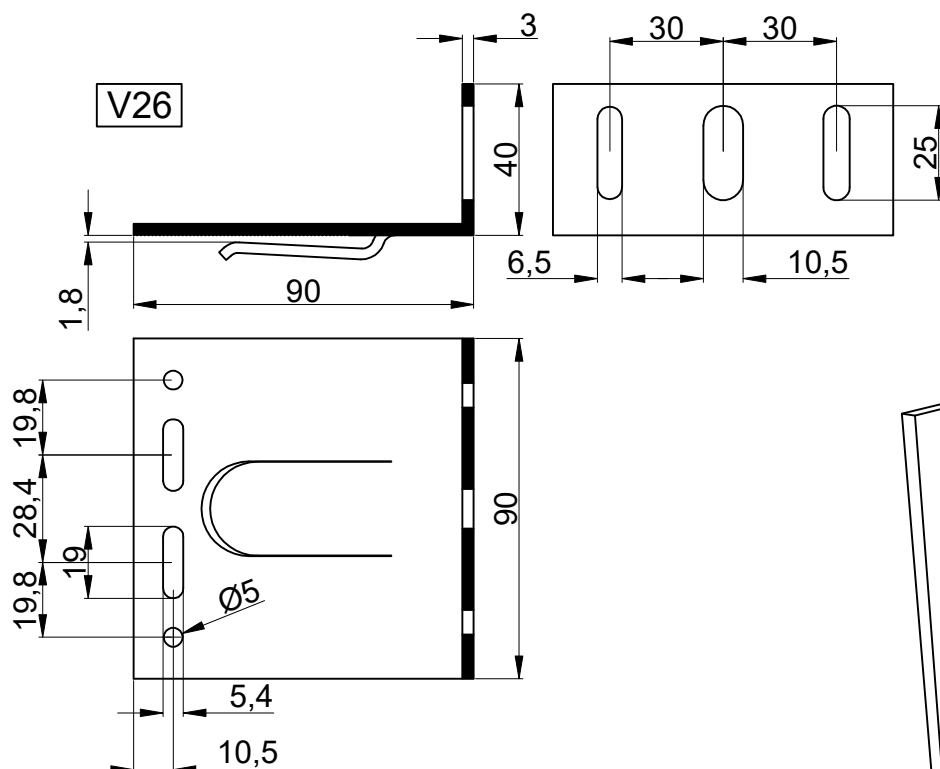


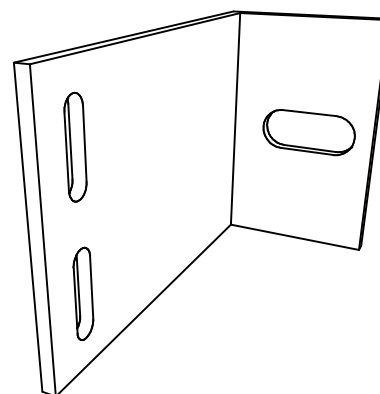
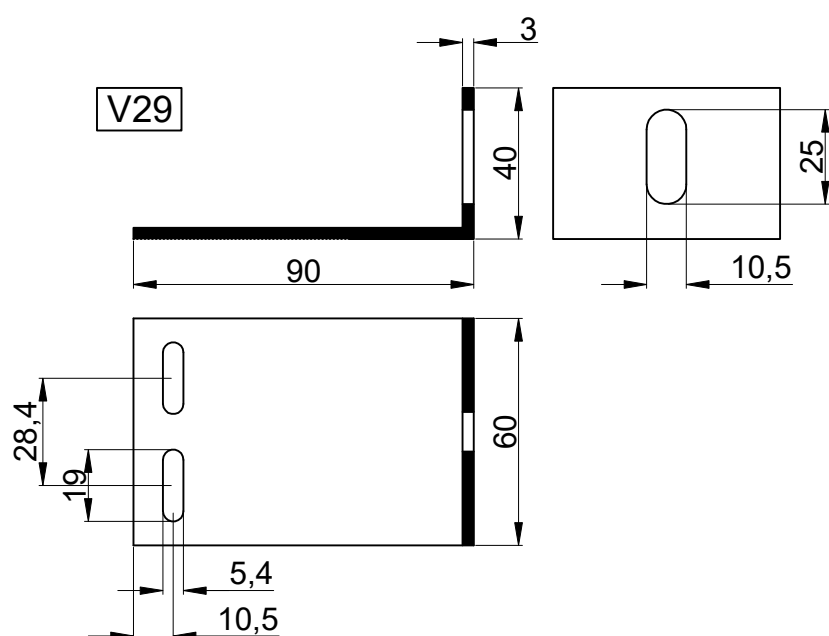
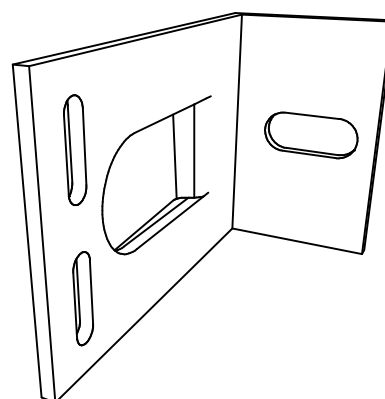
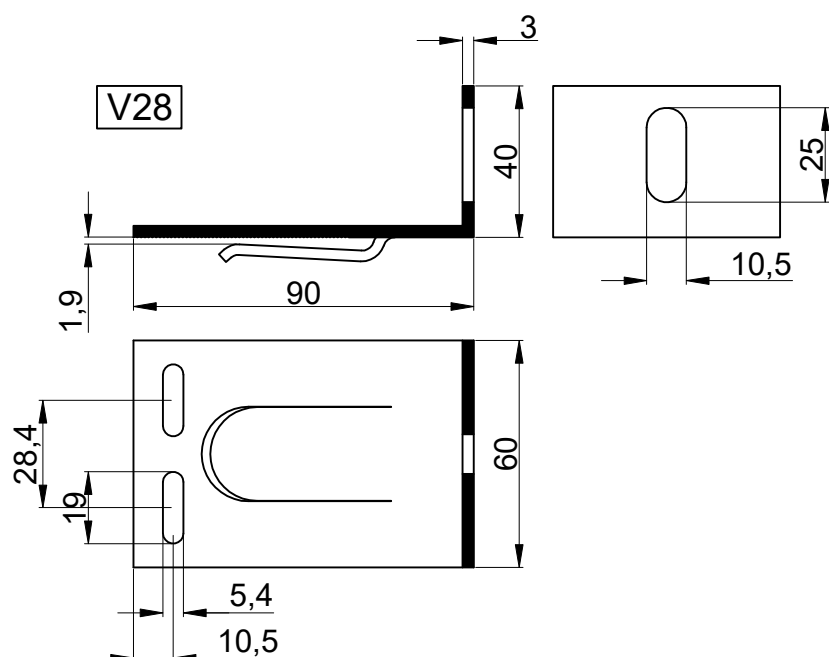


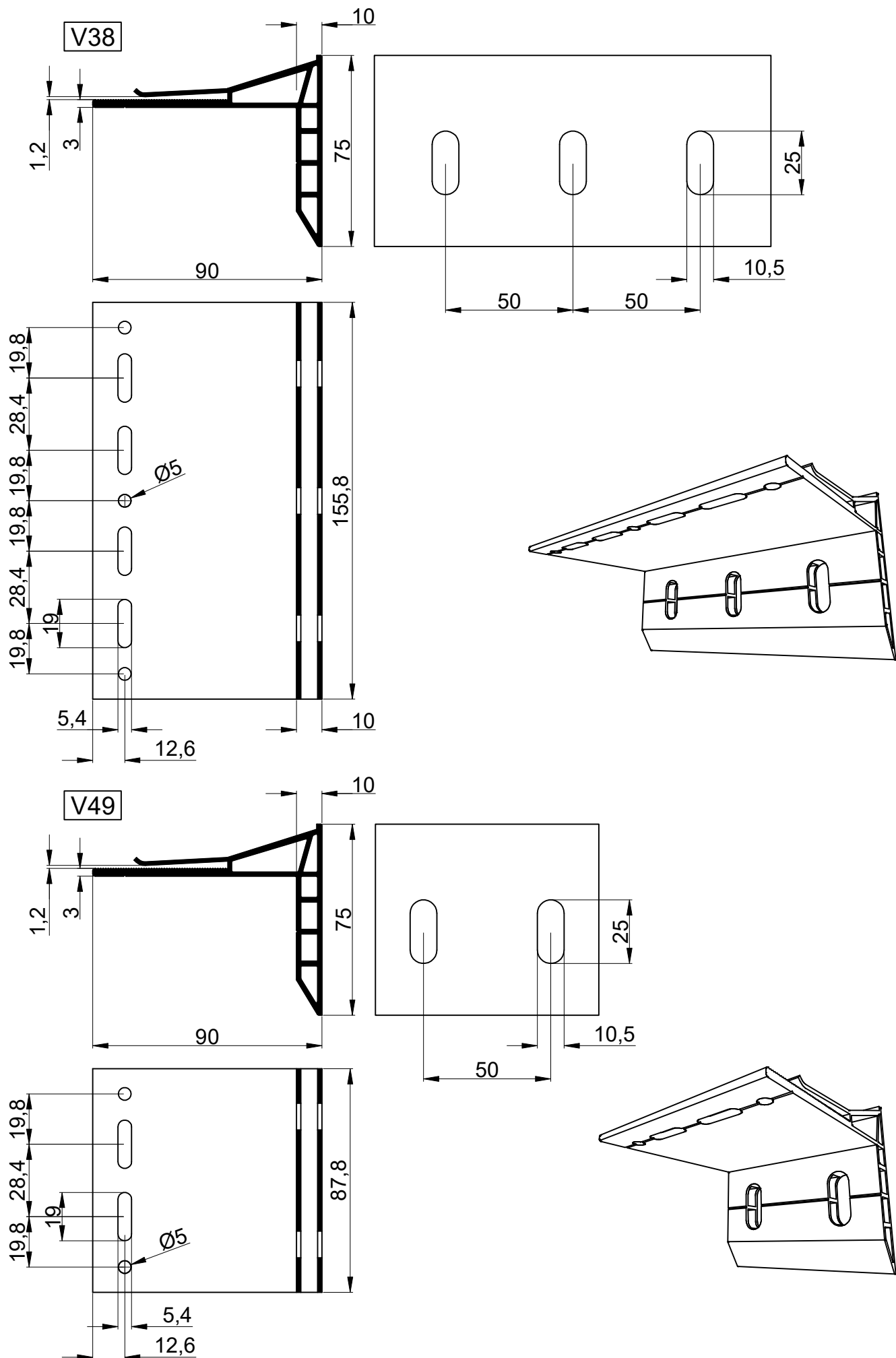


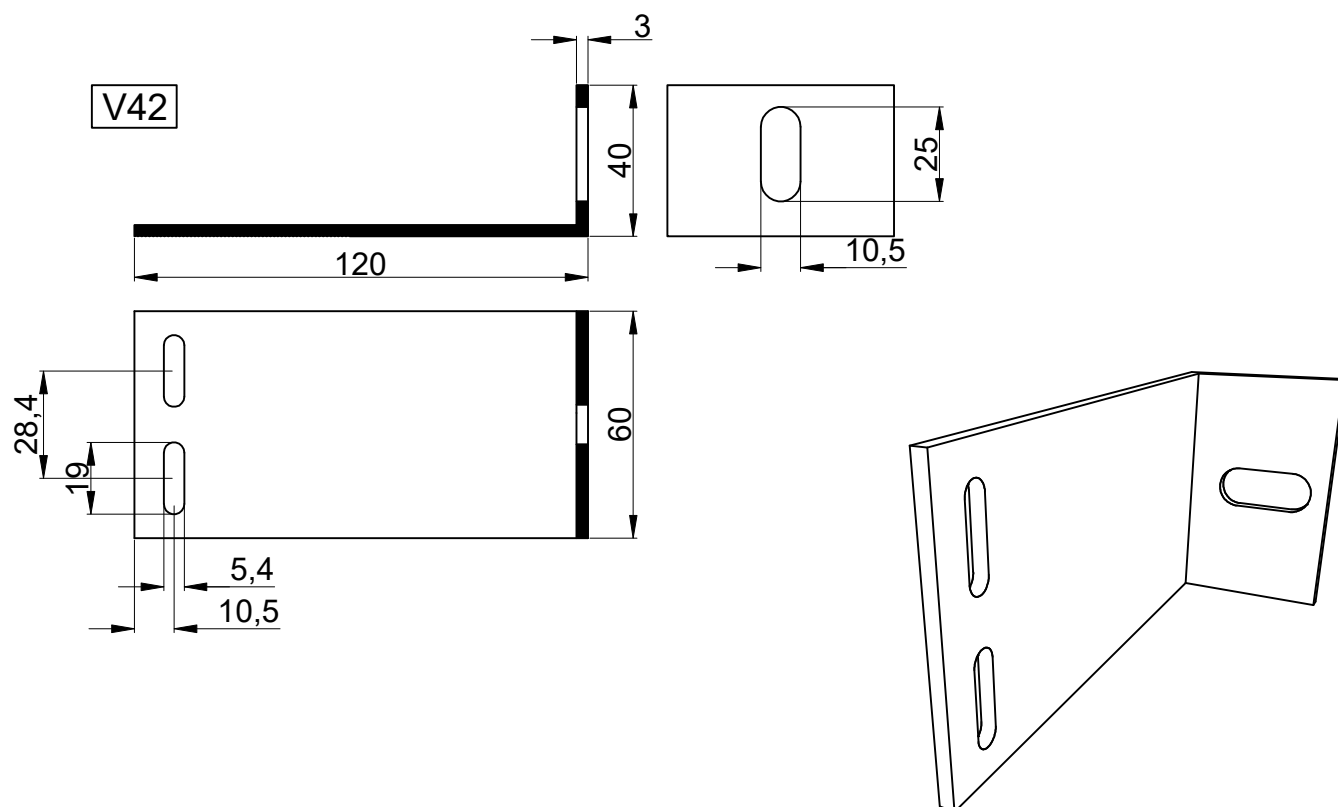
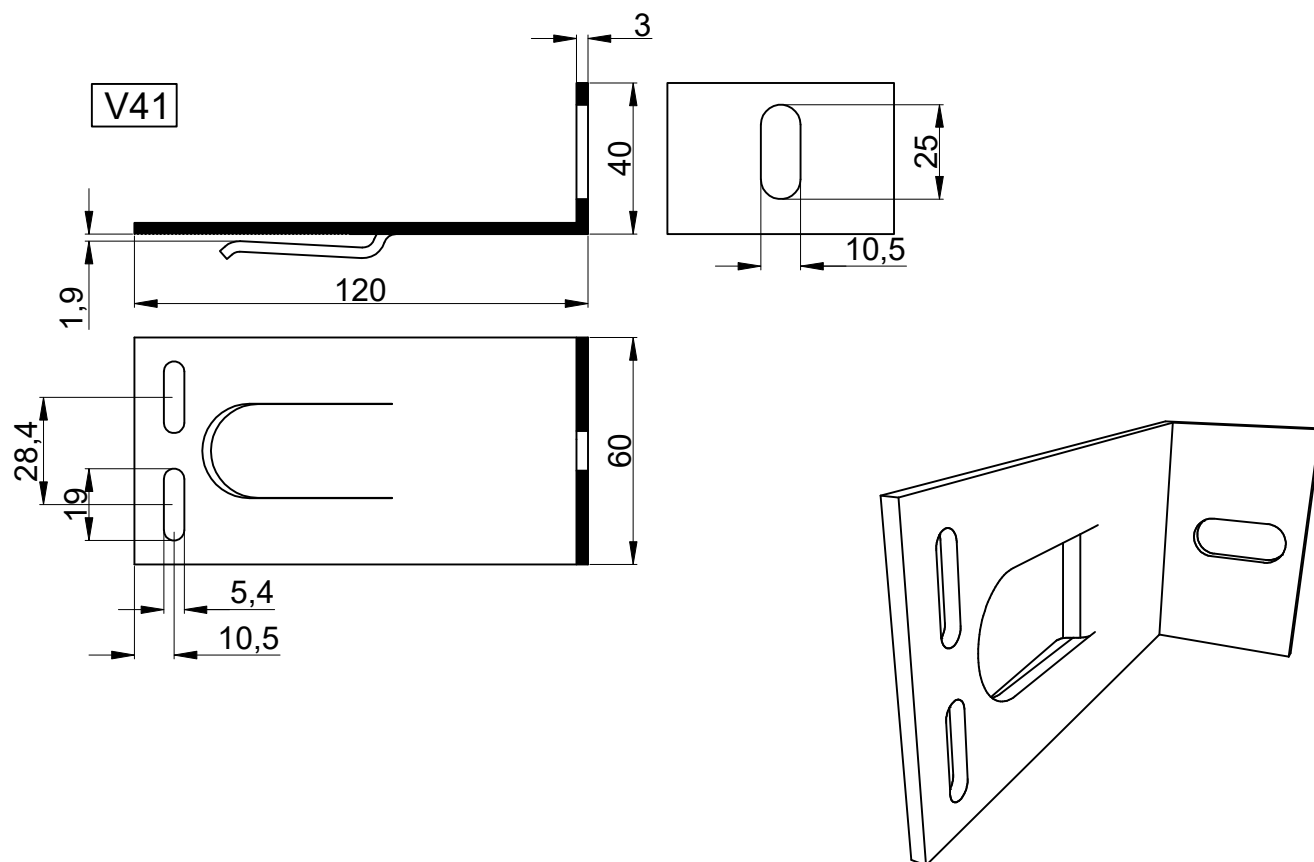


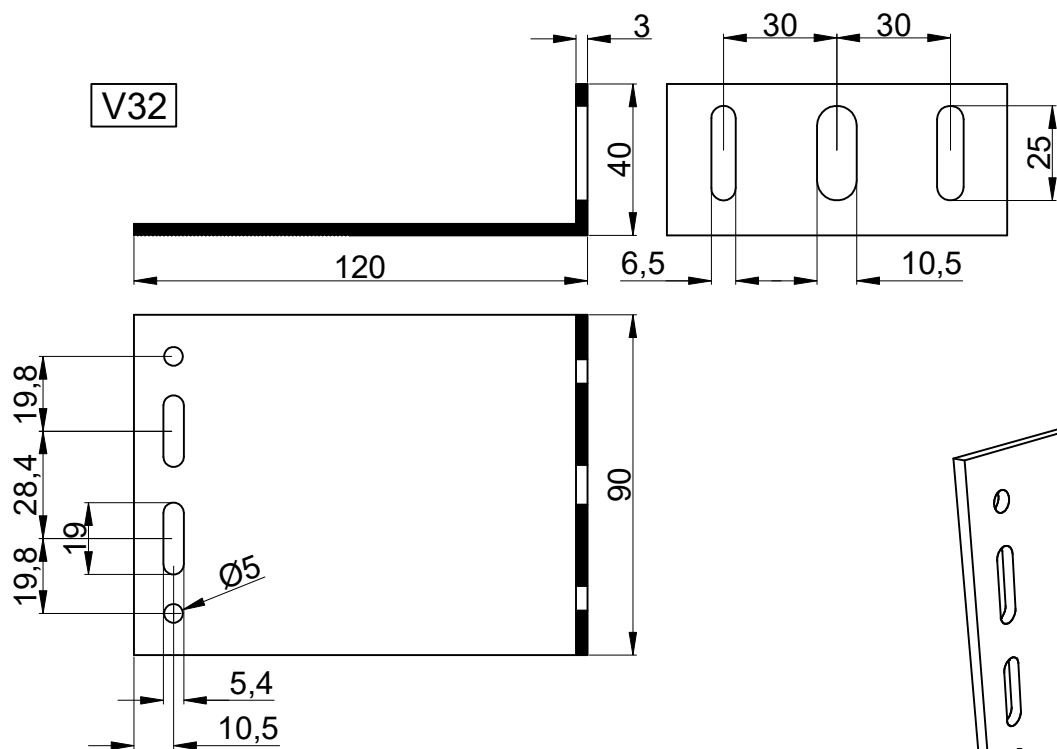
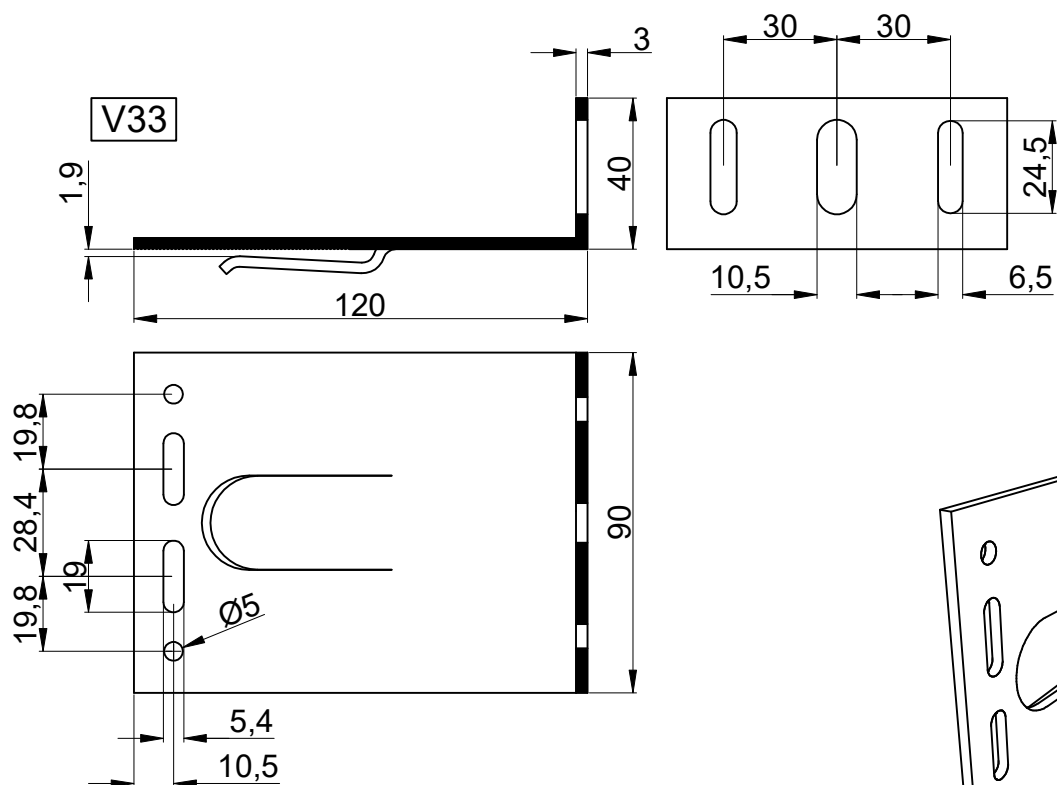


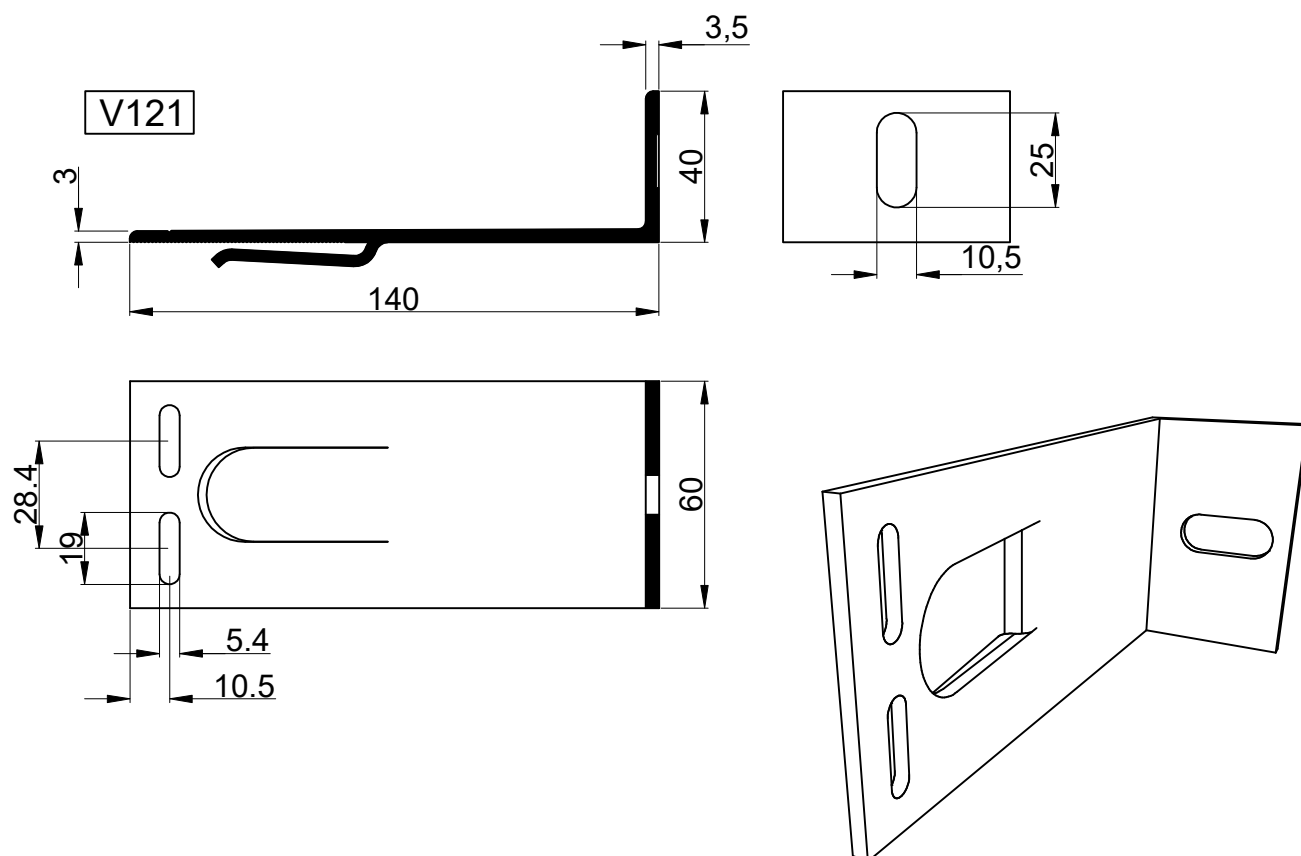
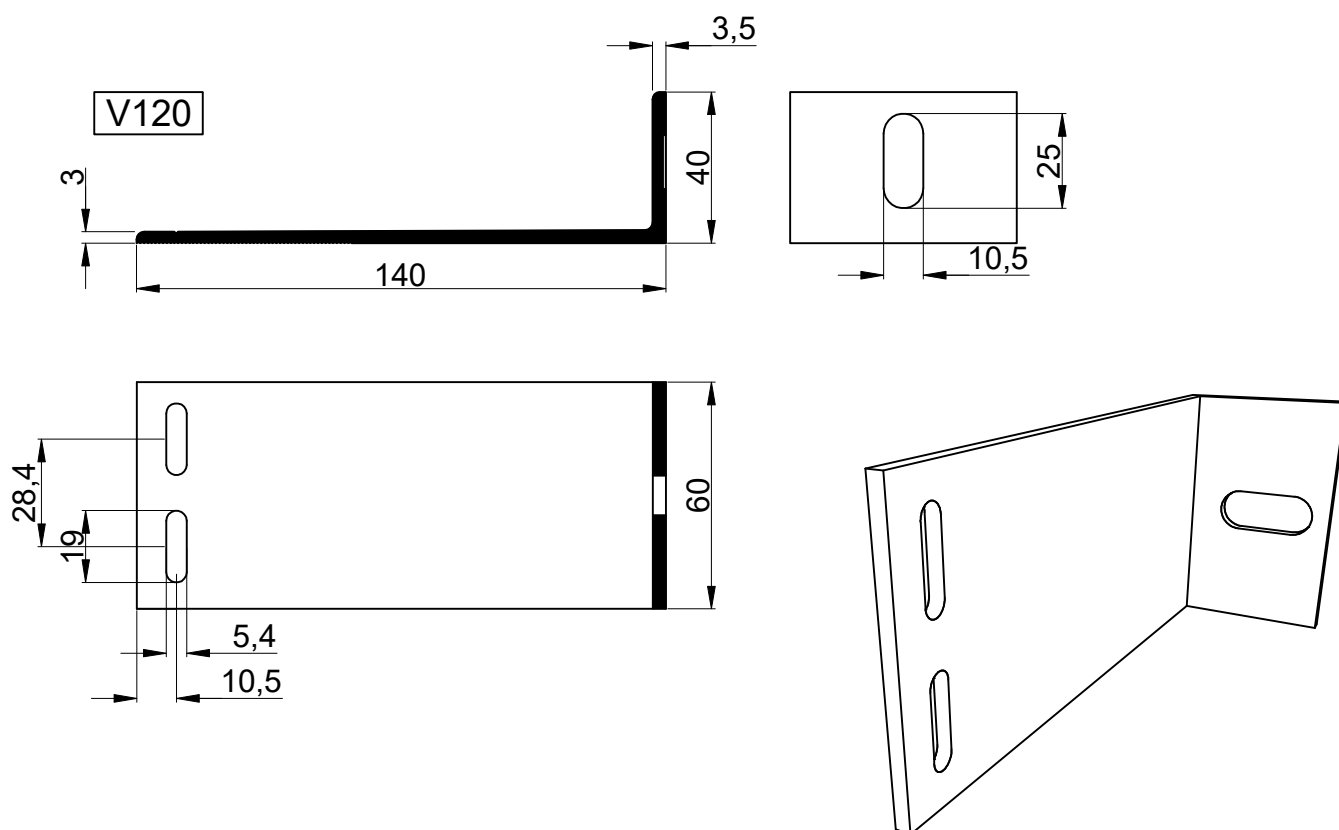


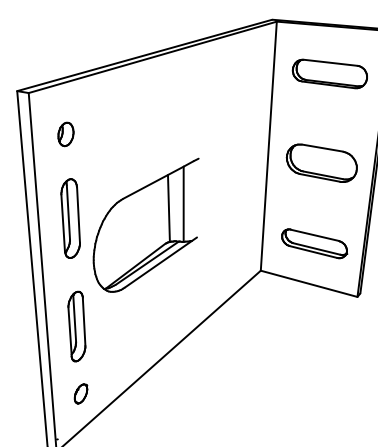
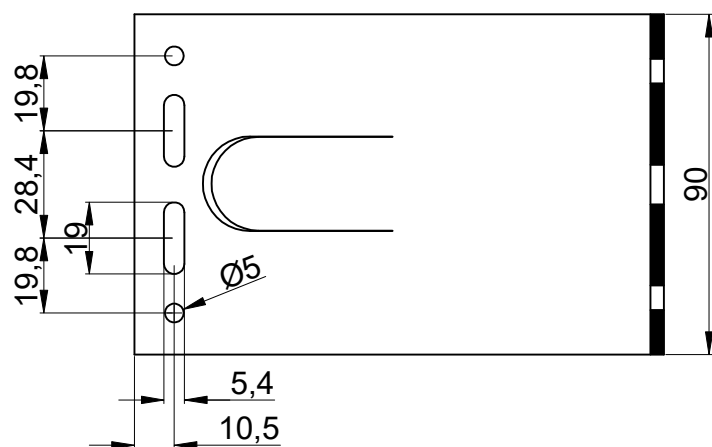
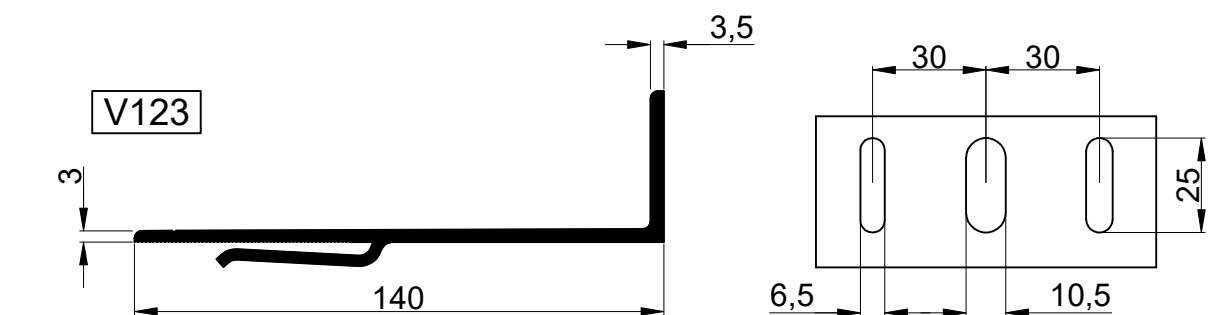
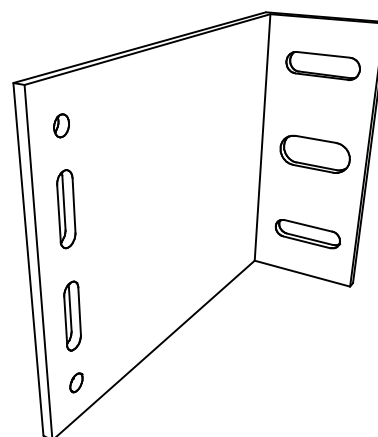
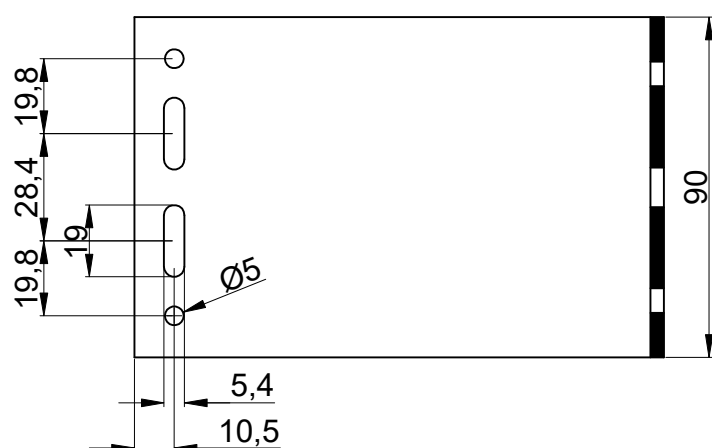
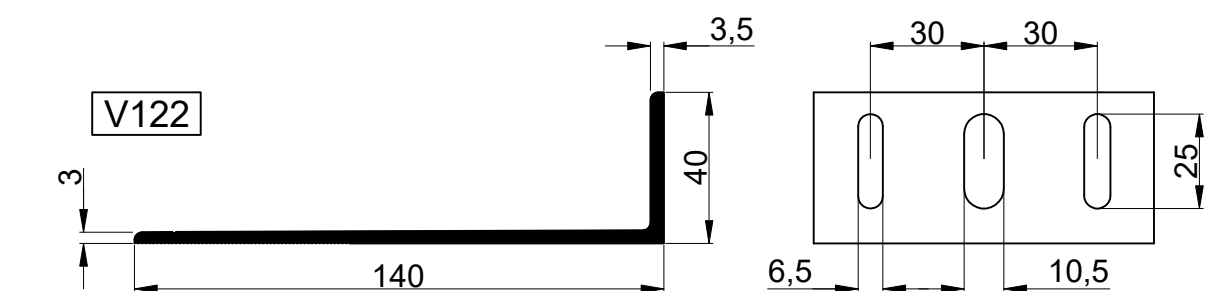


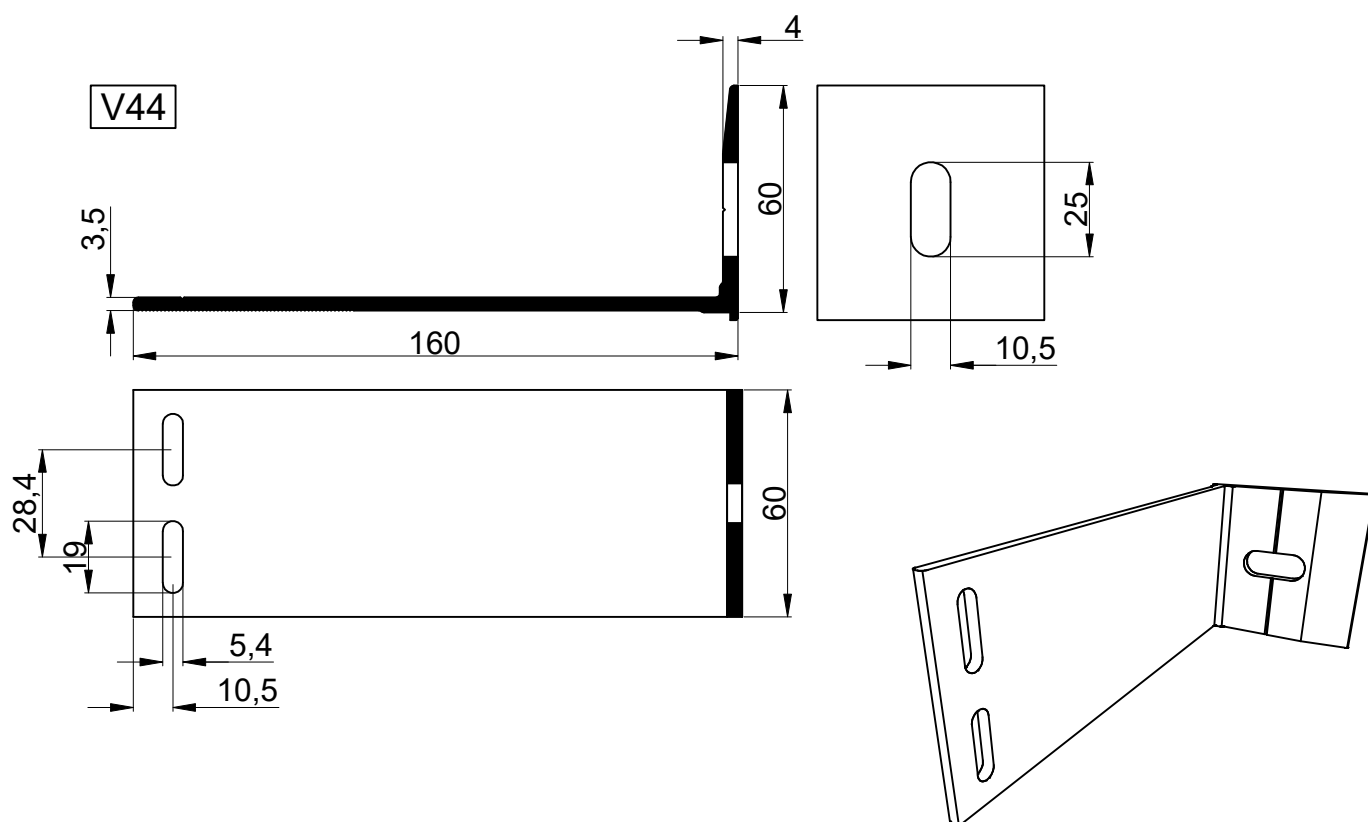
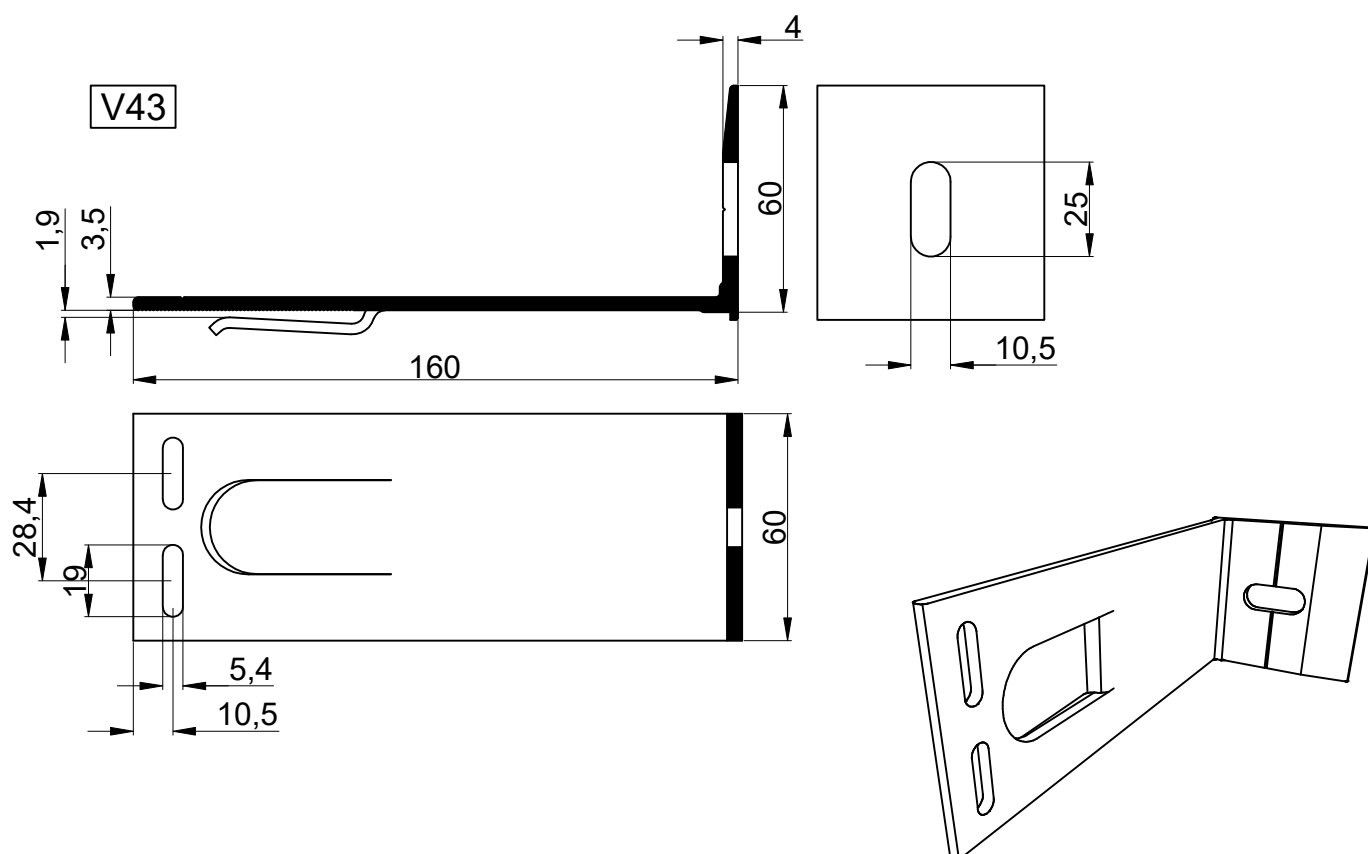


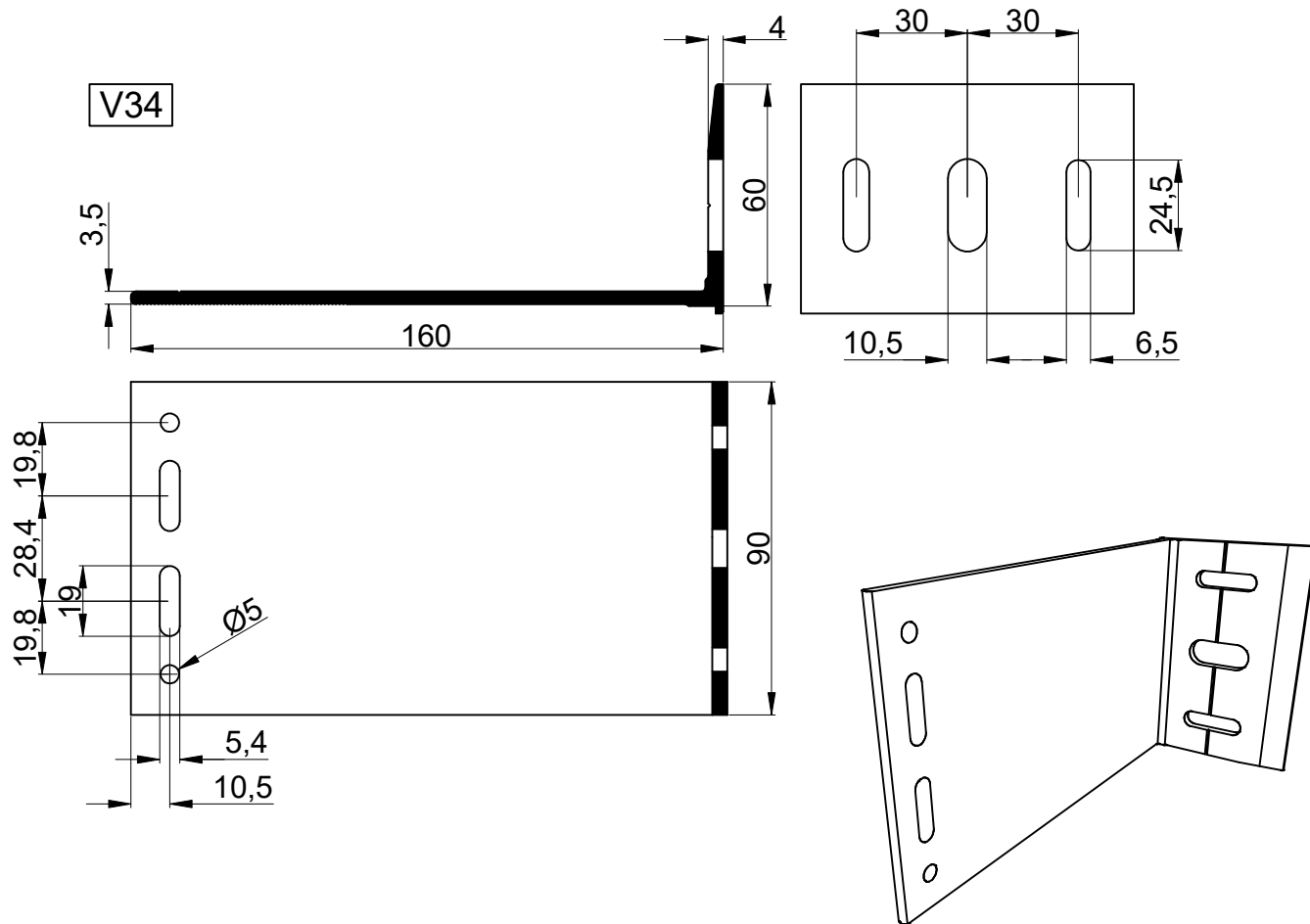
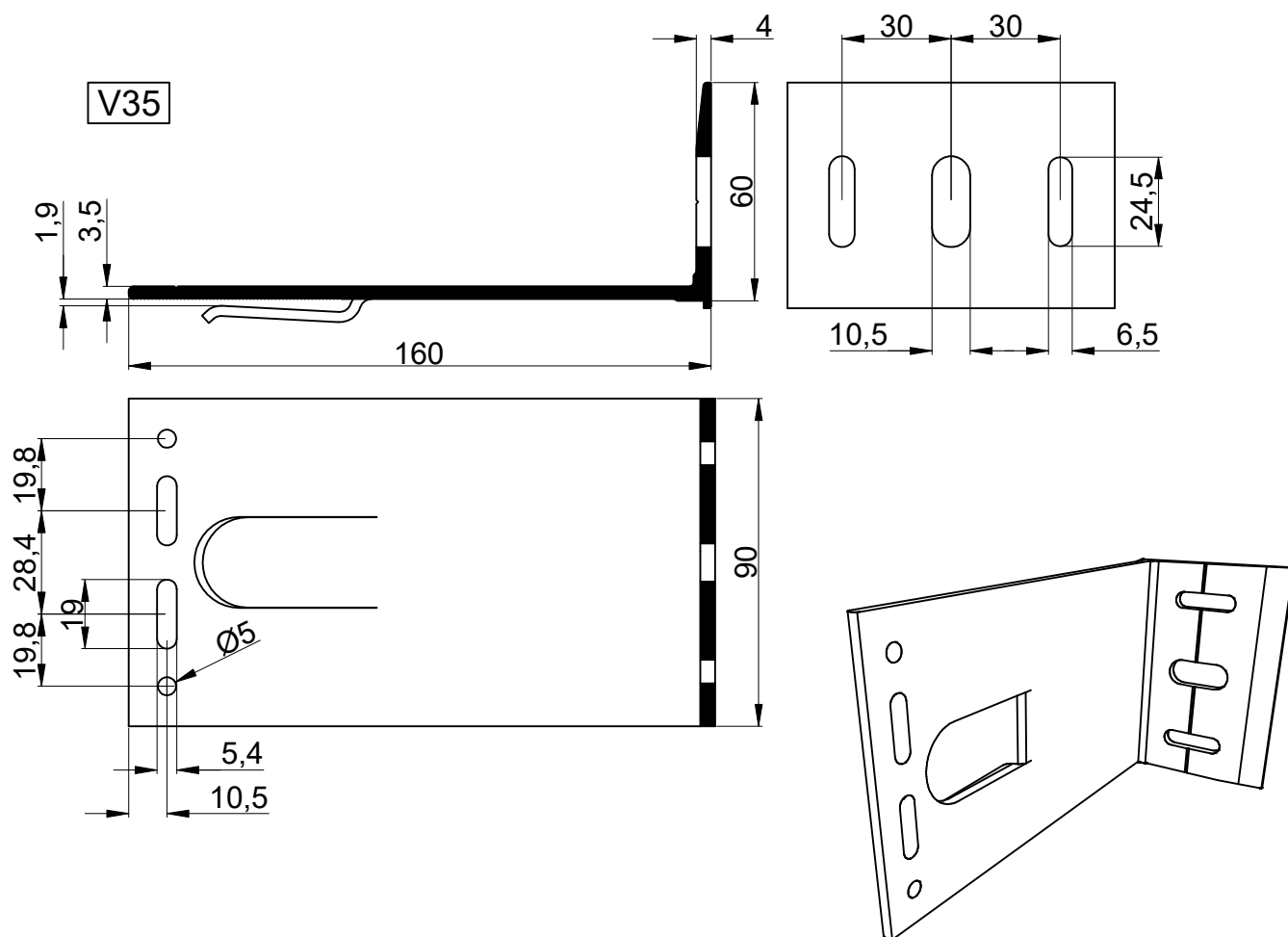


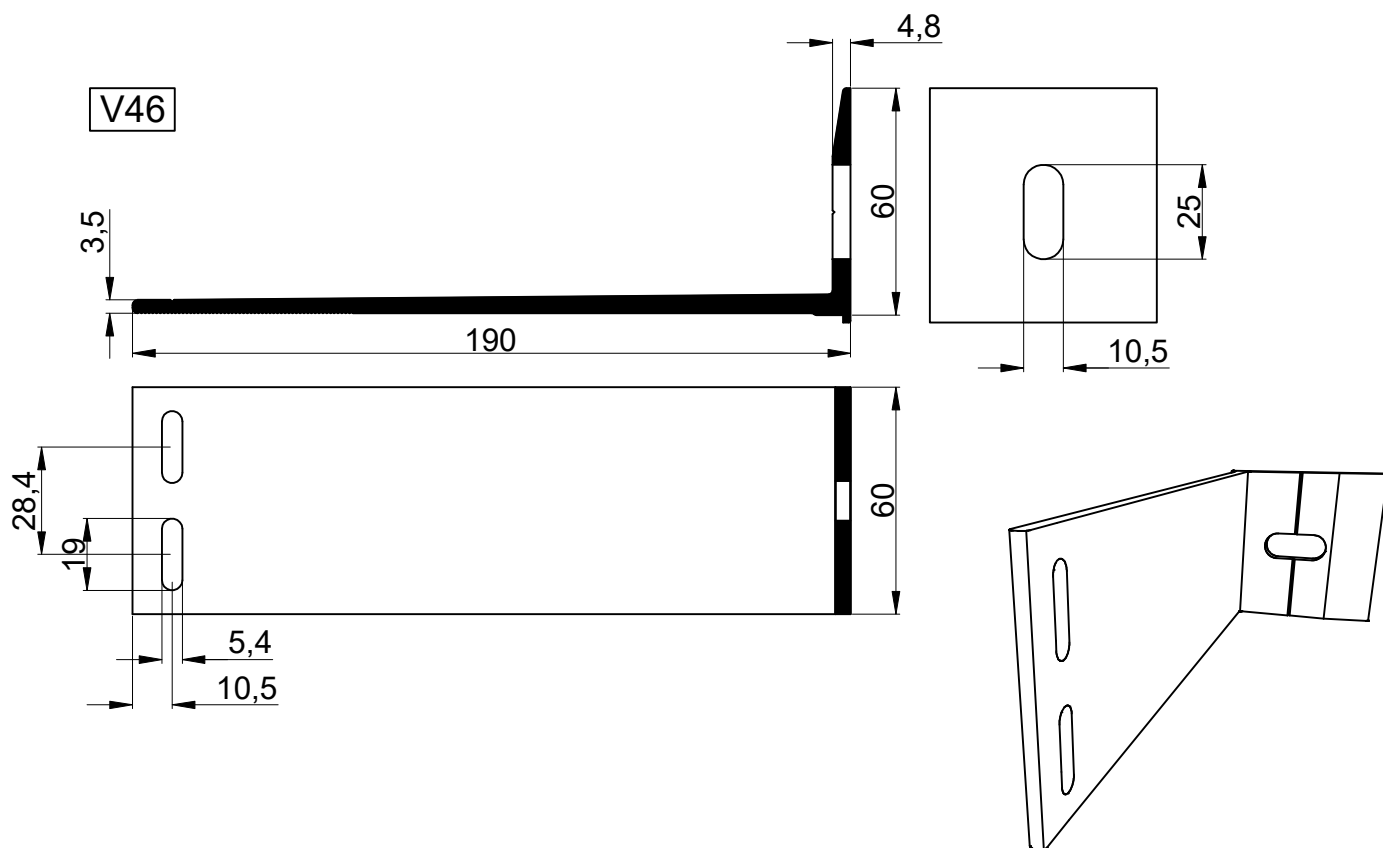
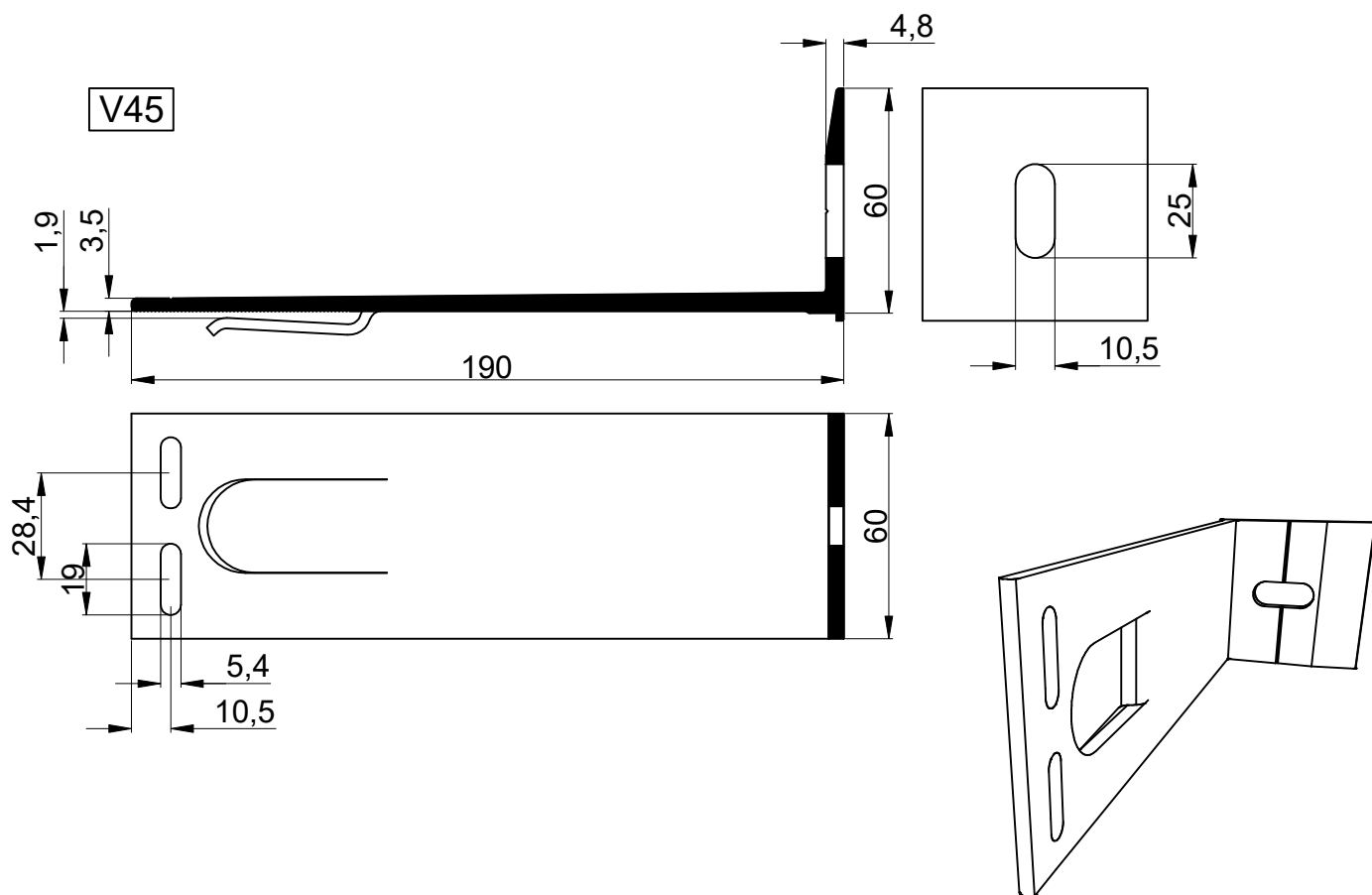


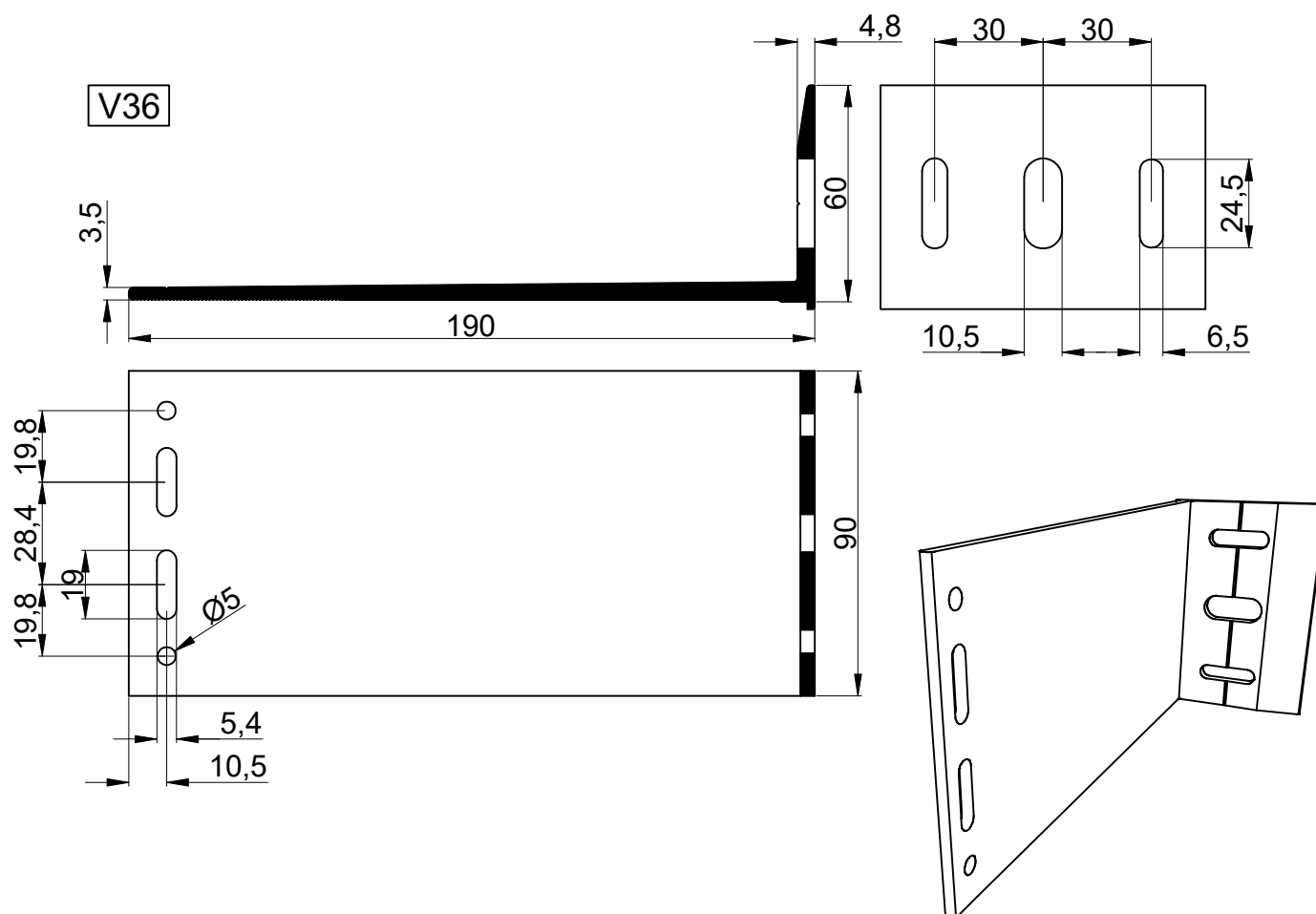
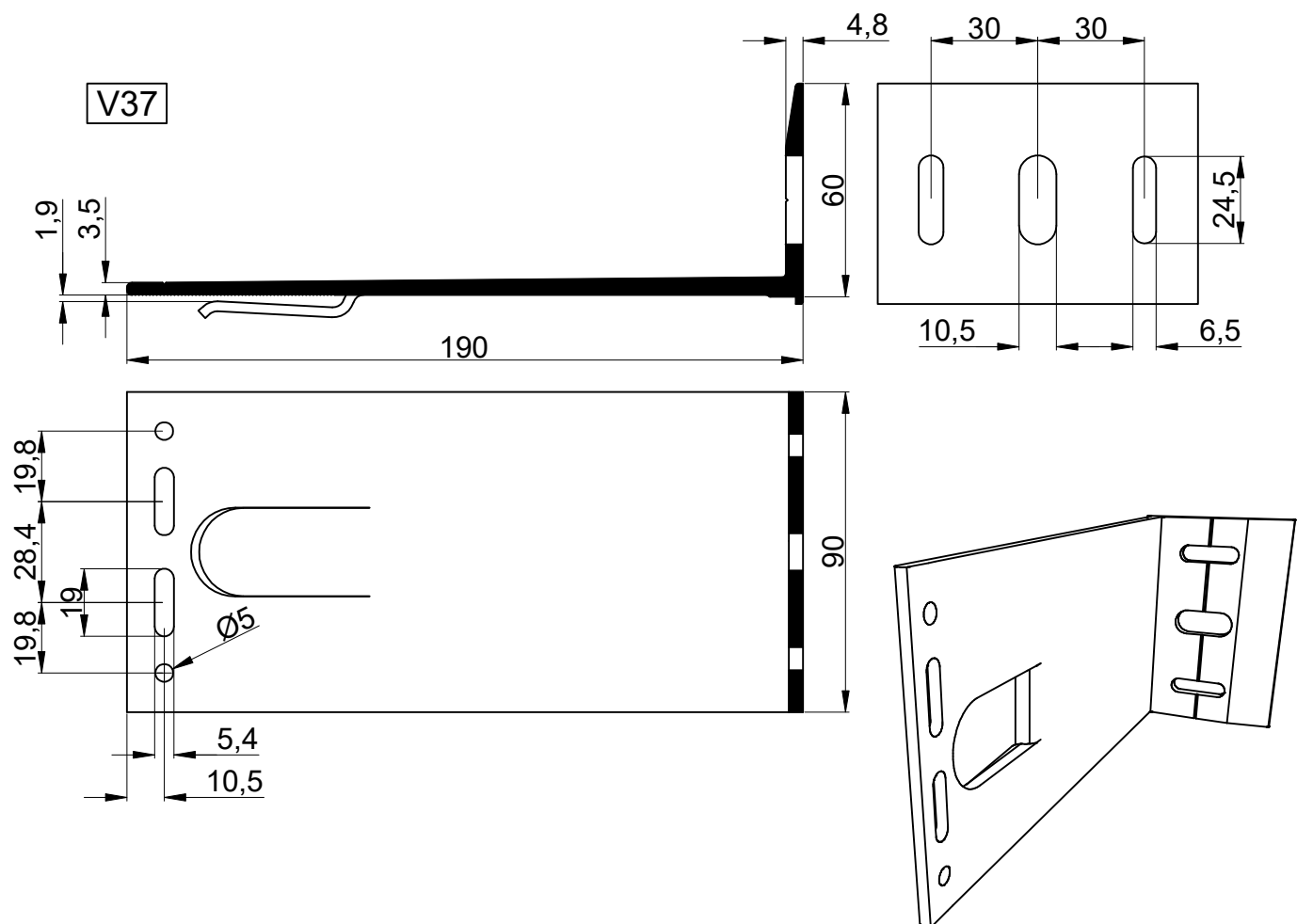


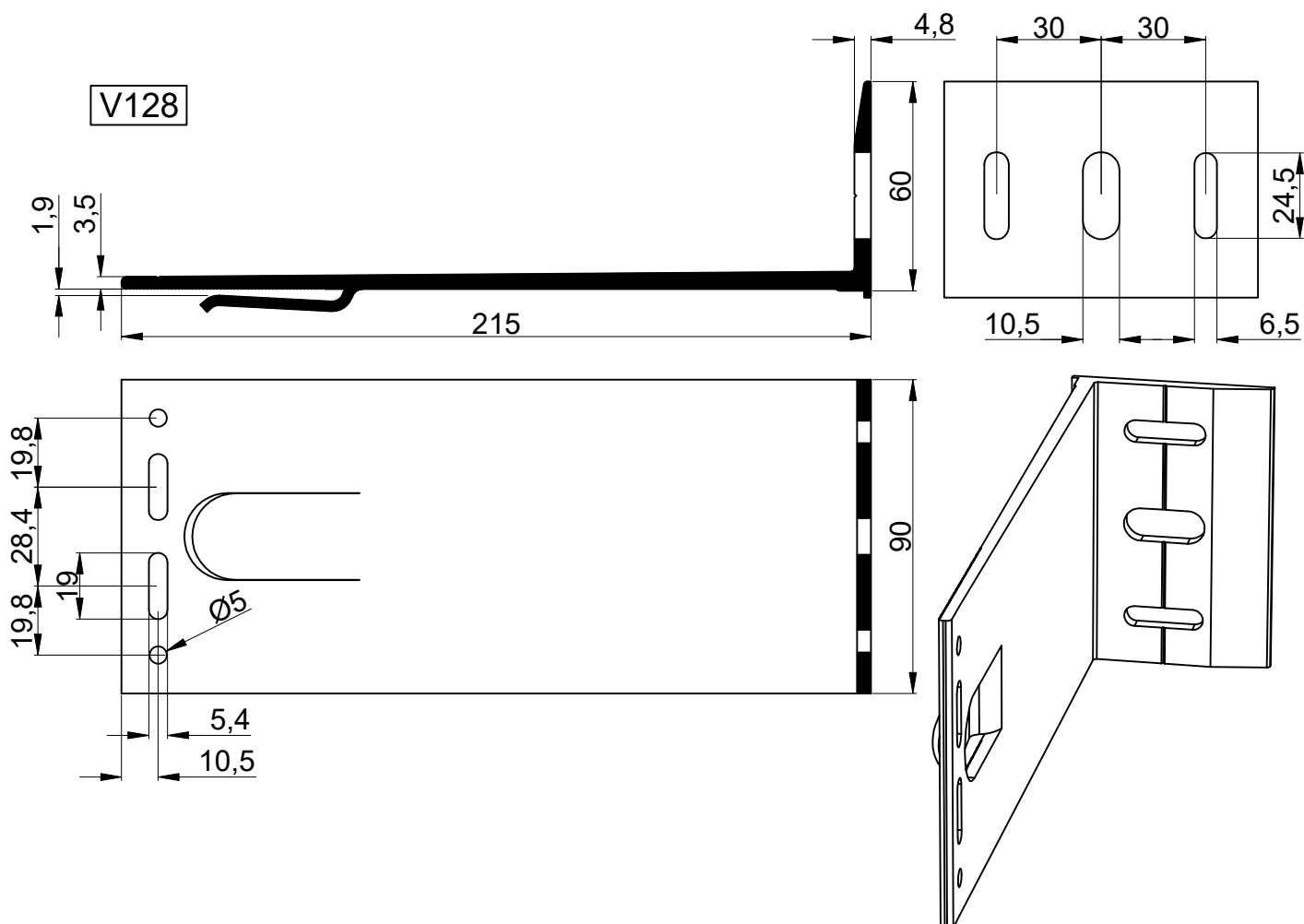
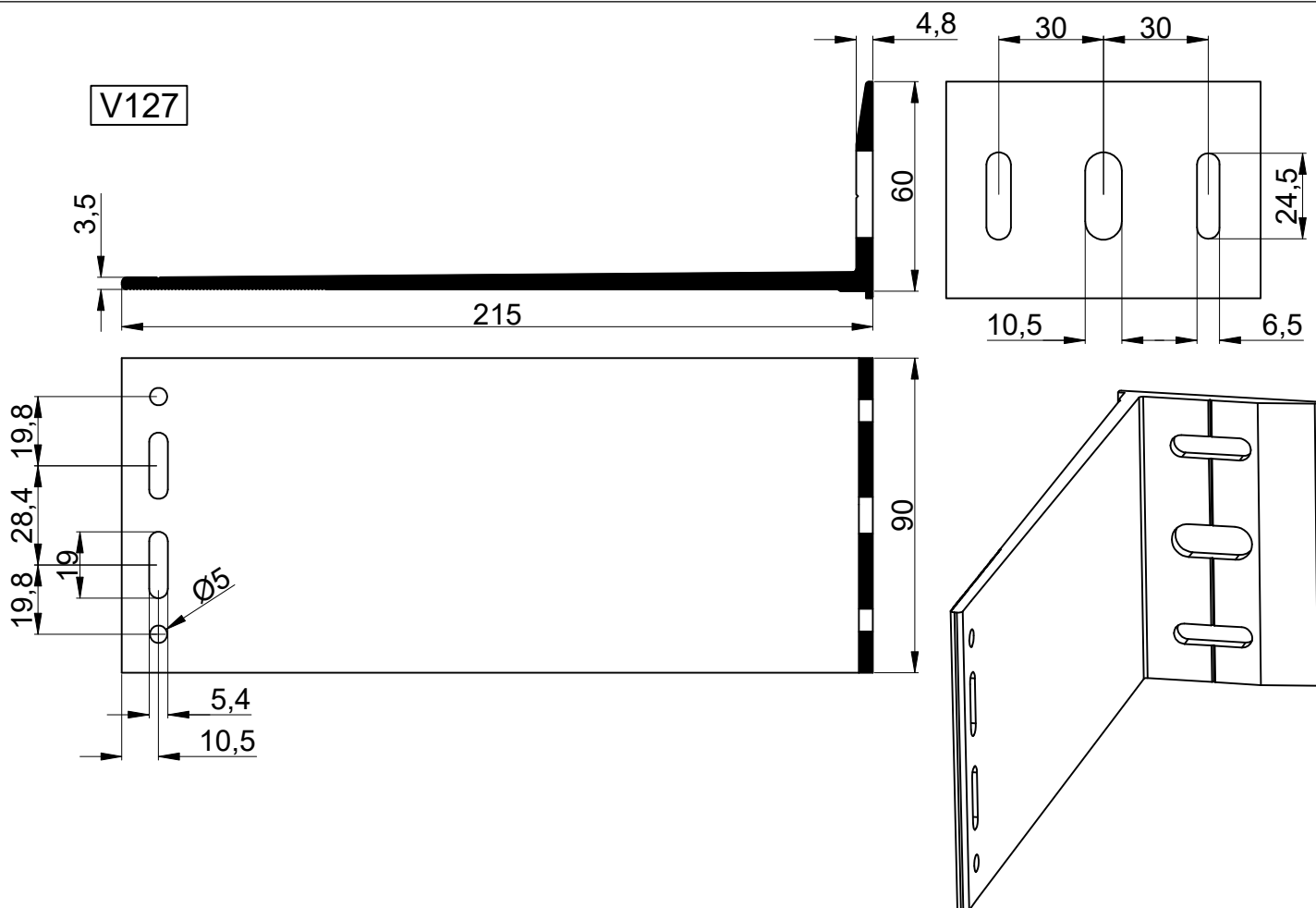


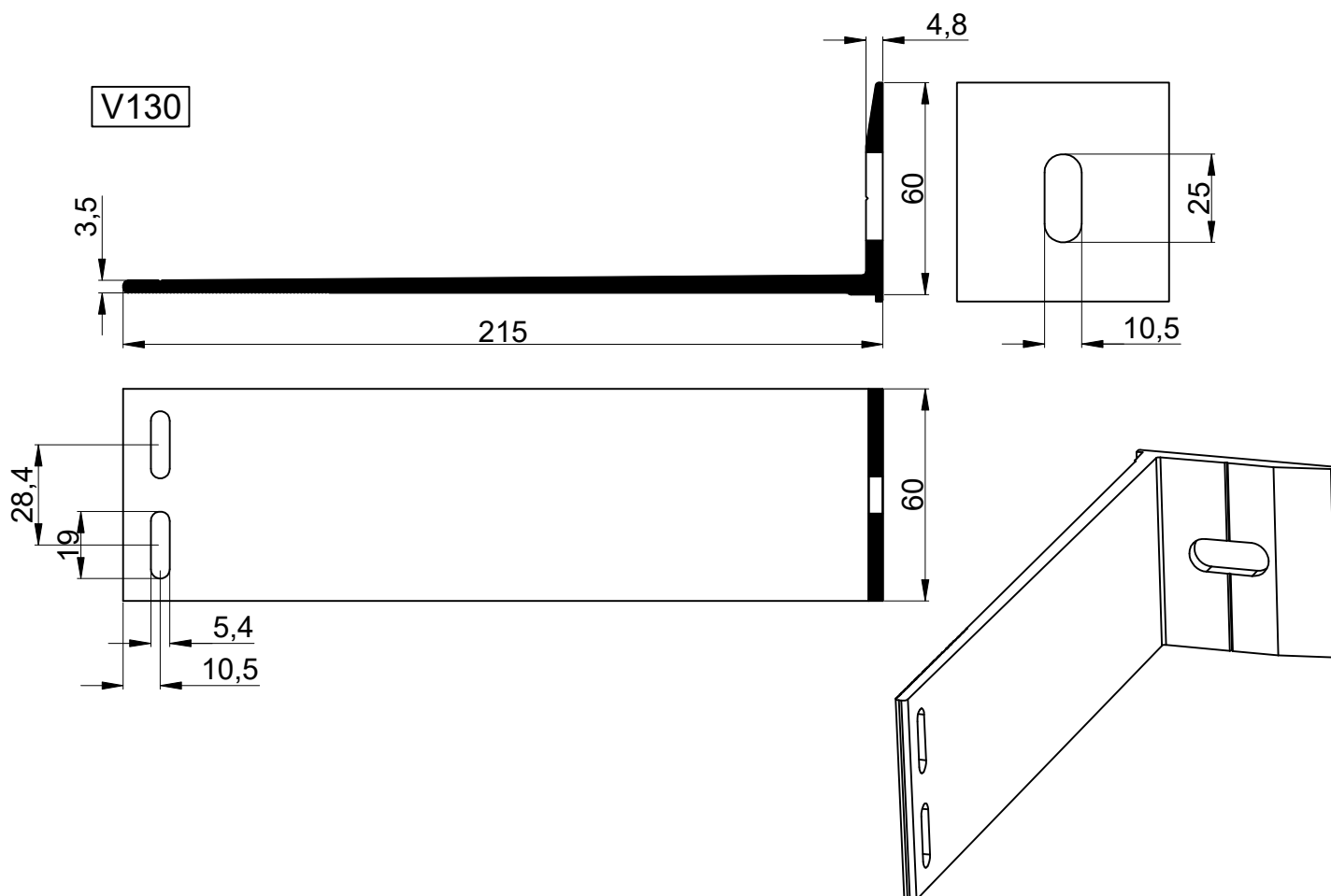
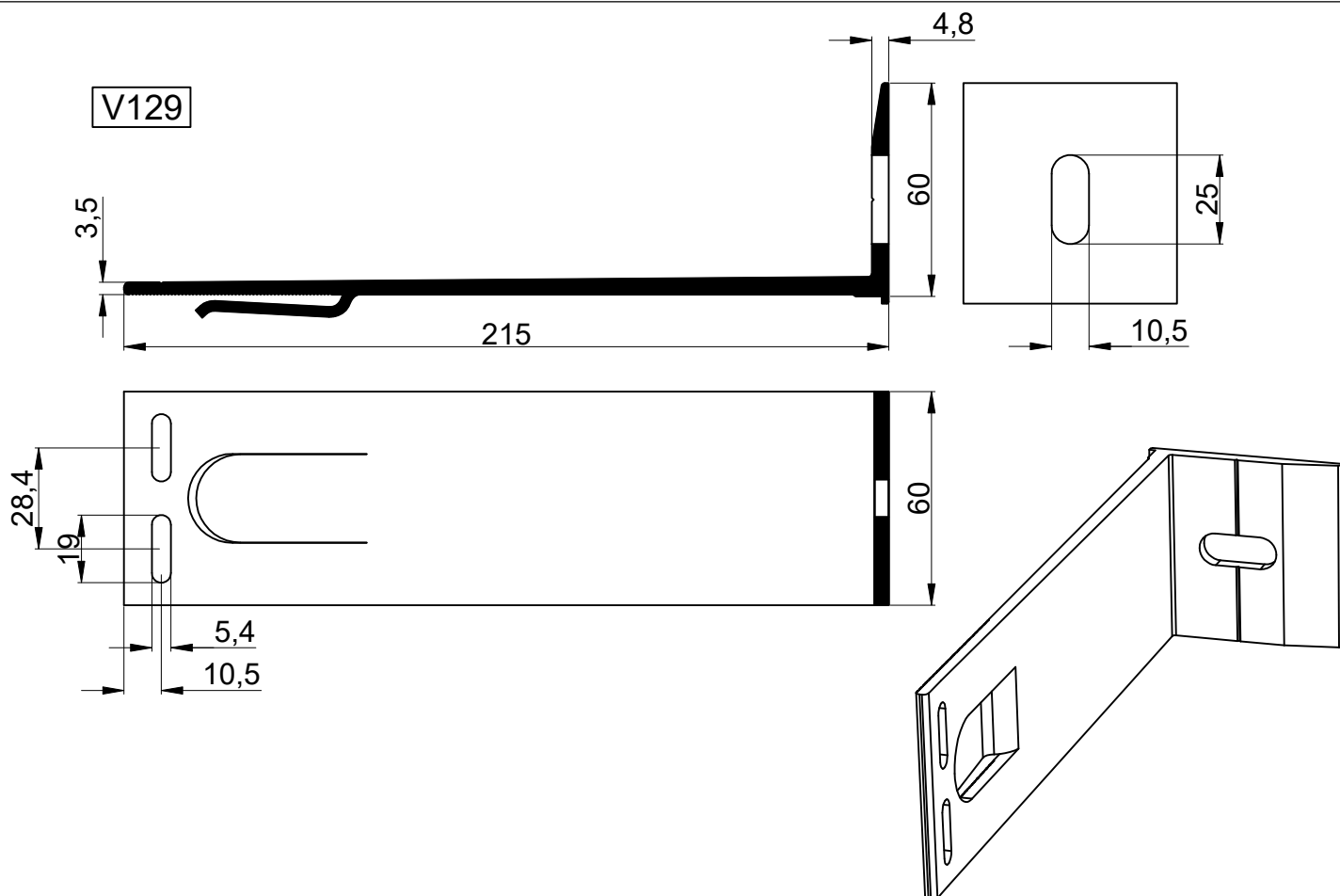






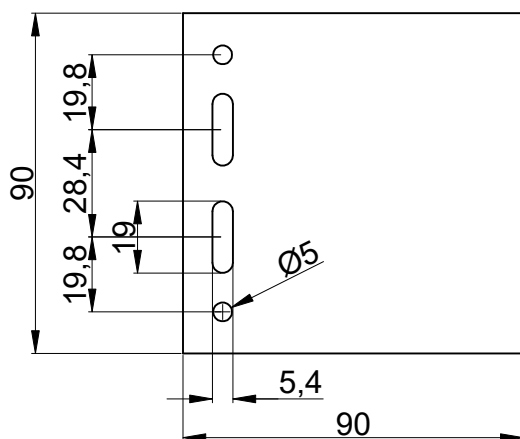




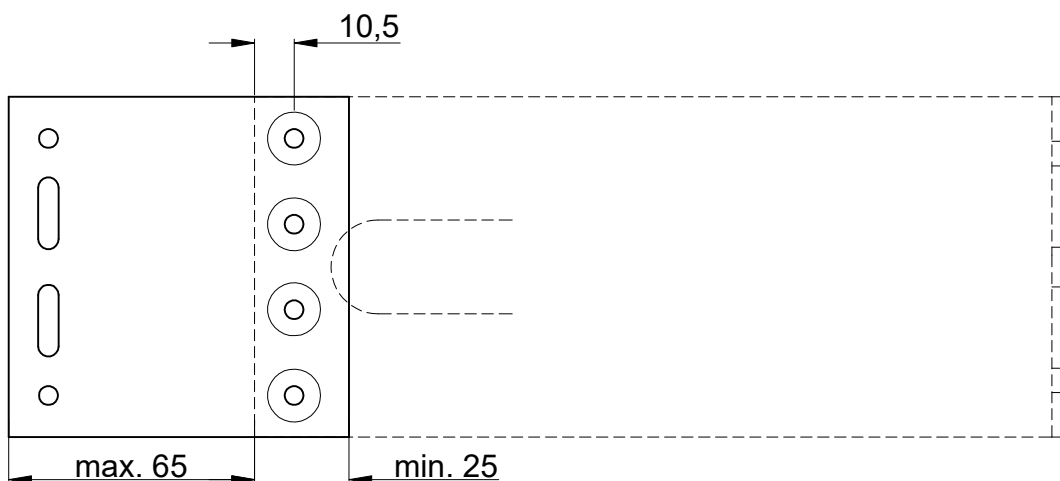
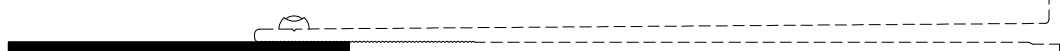


maksimalno dovoljeno vertikalno opterećenje na sklop kotve je 0,4 kN
maximum allowed vertical load on bracket assembly is 0,4 kN

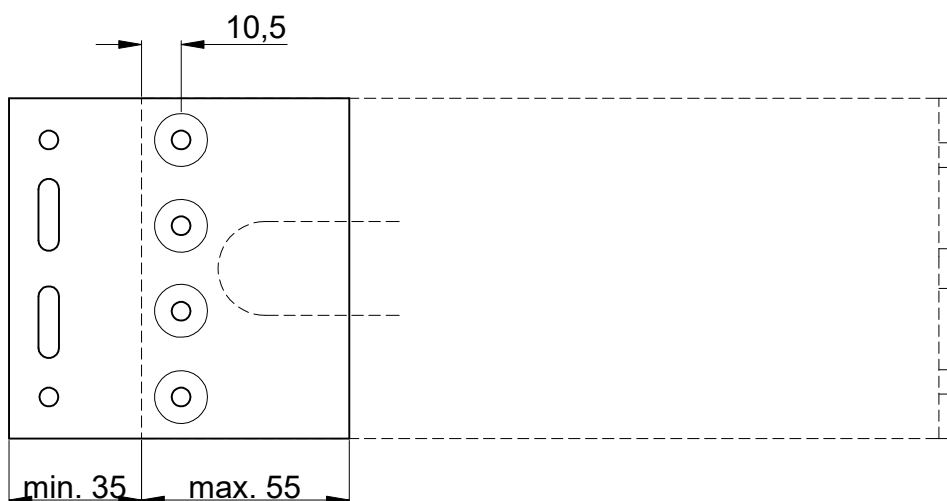
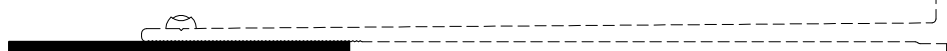
V135



4 x pop nitna, inox A2, Ø4,8x12, DIN 7337
4 x blind rivet, inox A2, Ø4,8x12, DIN 7337

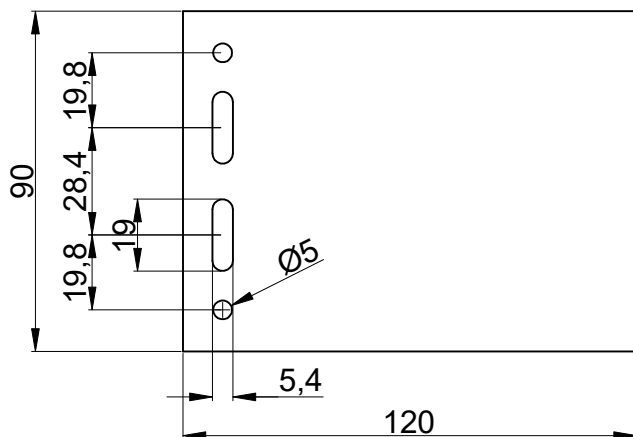


4 x pop nitna, inox A2, Ø4,8x12, DIN 7337
4 x blind rivet, inox A2, Ø4,8x12, DIN 7337

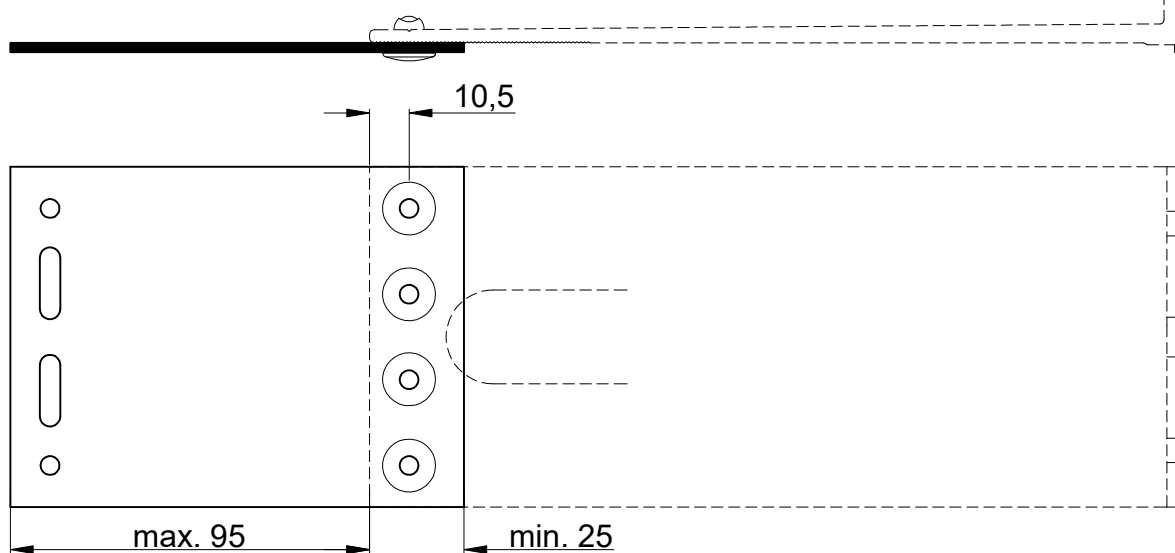


maksimalno dovoljeno vertikalno opterećenje na sklop kotve je 0,4 kN
maximum allowed vertical load on bracket assembly is 0,4 kN

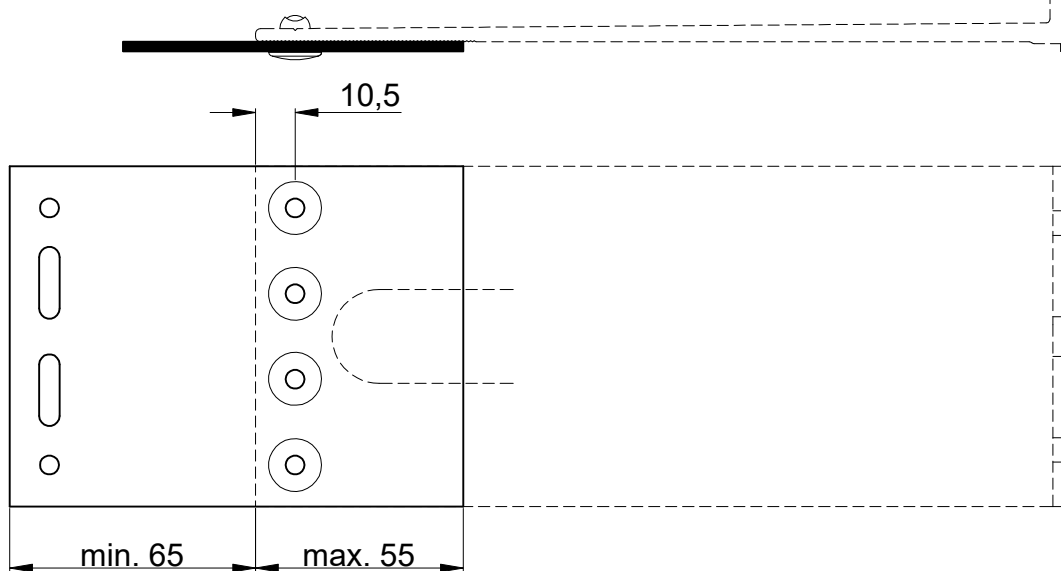
V136



4 x pop nitna, inox A2, Ø4,8x12, DIN 7337
4 x blind rivet, inox A2, Ø4,8x12, DIN 7337

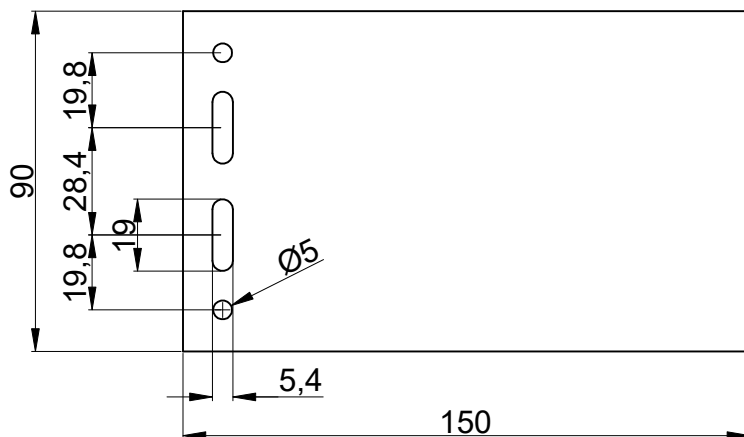


4 x pop nitna, inox A2, Ø4,8x12, DIN 7337
4 x blind rivet, inox A2, Ø4,8x12, DIN 7337

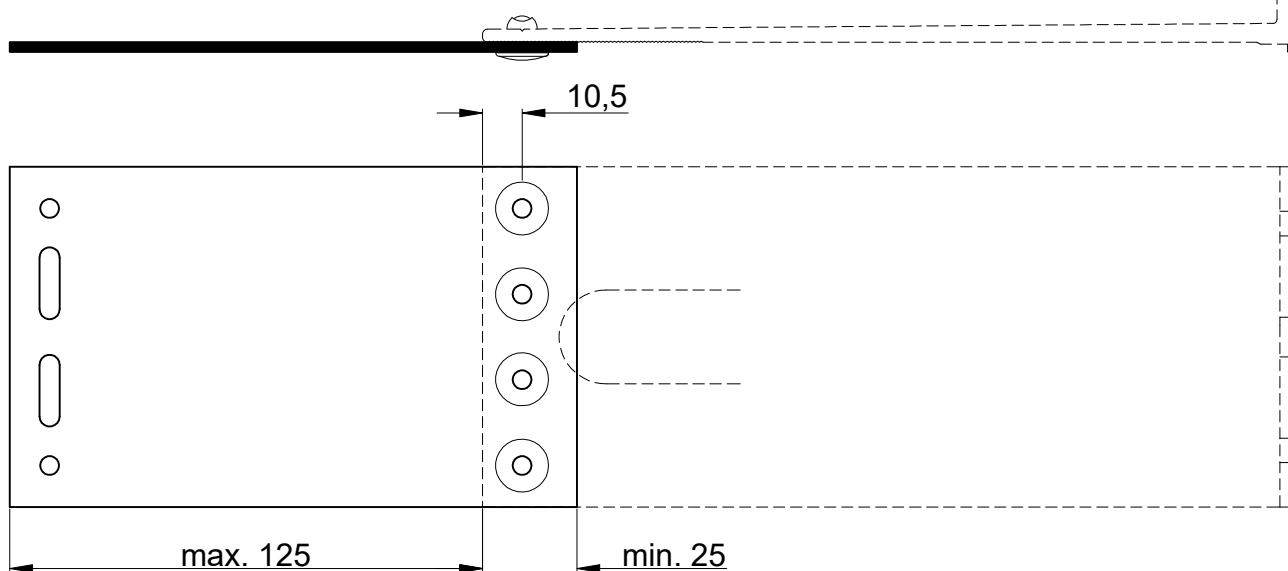


maksimalno dovoljeno vertikalno opterećenje na sklop kotve je 0,4 kN
maximum allowed vertical load on bracket assembly is 0,4 kN

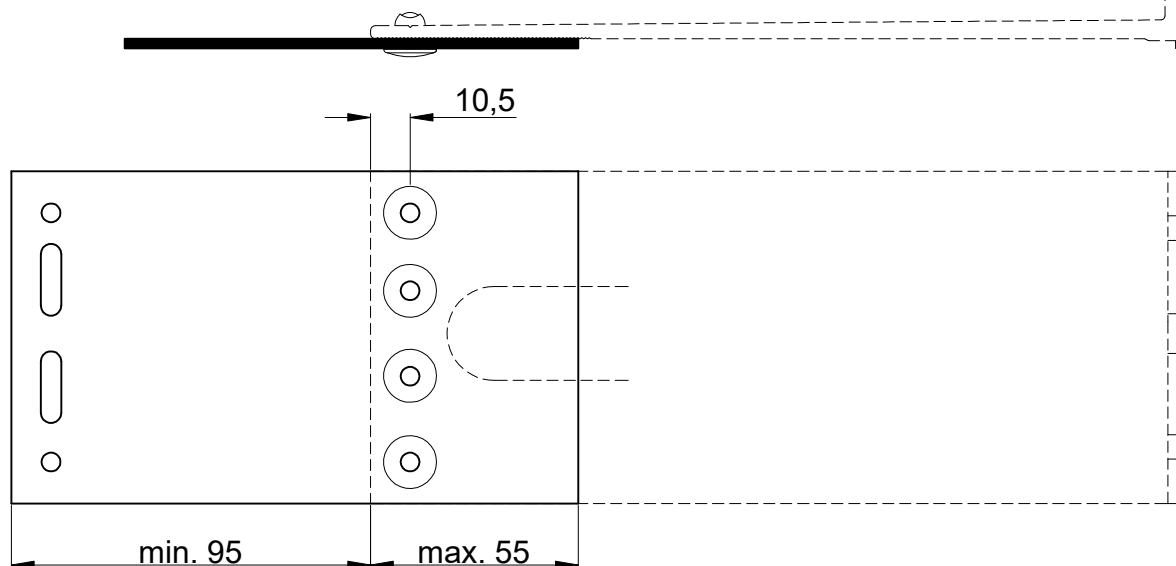
V137



4 x pop nitna, inox A2, Ø4,8x12, DIN 7337
4 x blind rivet, inox A2, Ø4,8x12, DIN 7337

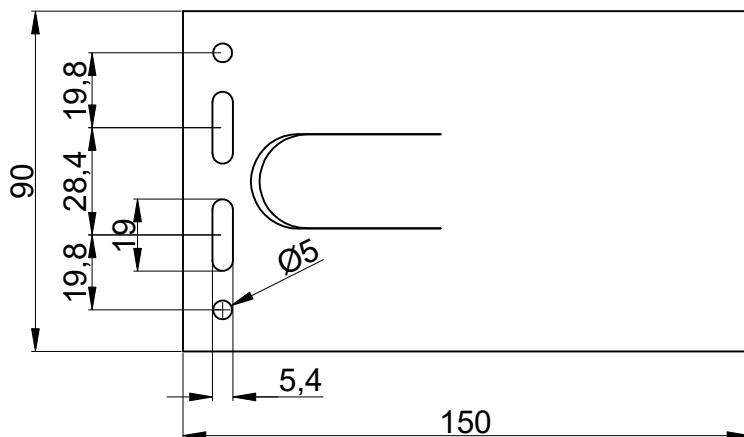


4 x pop nitna, inox A2, Ø4,8x12, DIN 7337
4 x blind rivet, inox A2, Ø4,8x12, DIN 7337

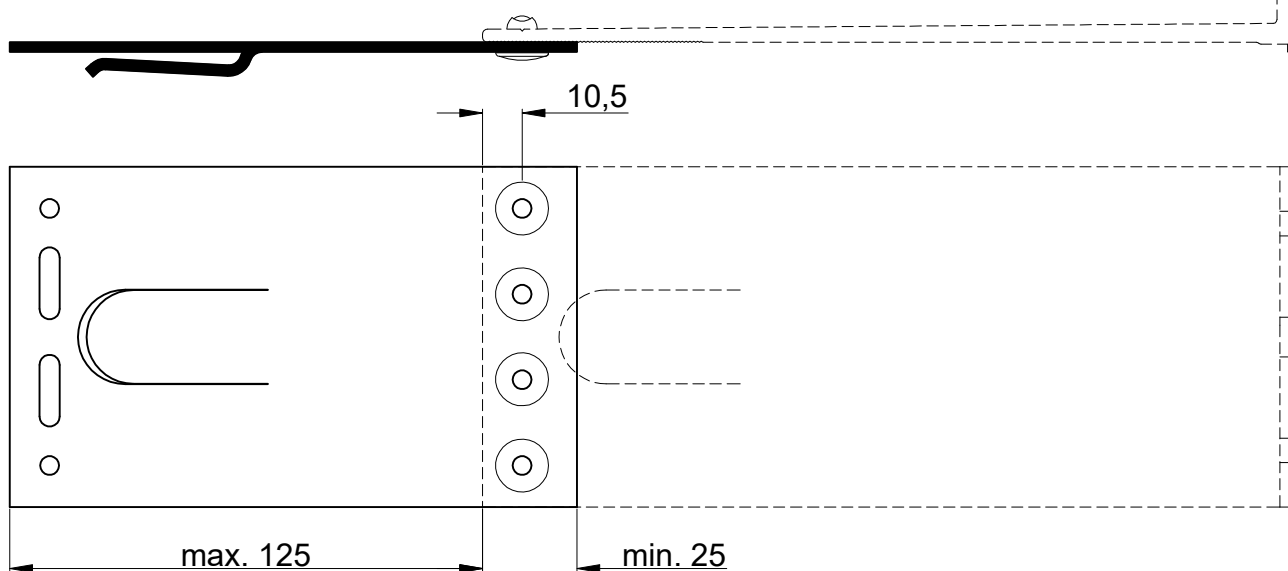


maksimalno dovoljeno vertikalno opterećenje na sklop kotve je 0,4 kN
maximum allowed vertical load on bracket assembly is 0,4 kN

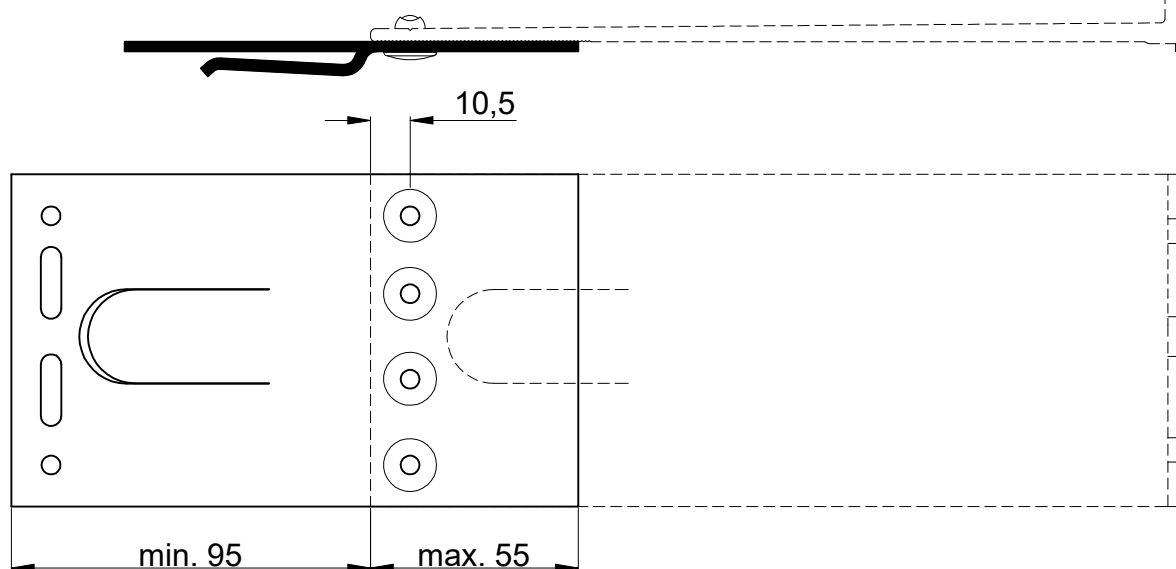
V138



4 x pop nitna, inox A2, Ø4,8x12, DIN 7337
4 x blind rivet, inox A2, Ø4,8x12, DIN 7337

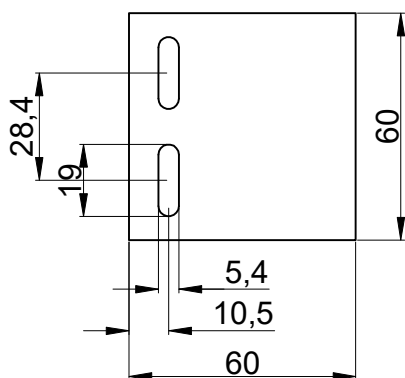


4 x pop nitna, inox A2, Ø4,8x12, DIN 7337
4 x blind rivet, inox A2, Ø4,8x12, DIN 7337

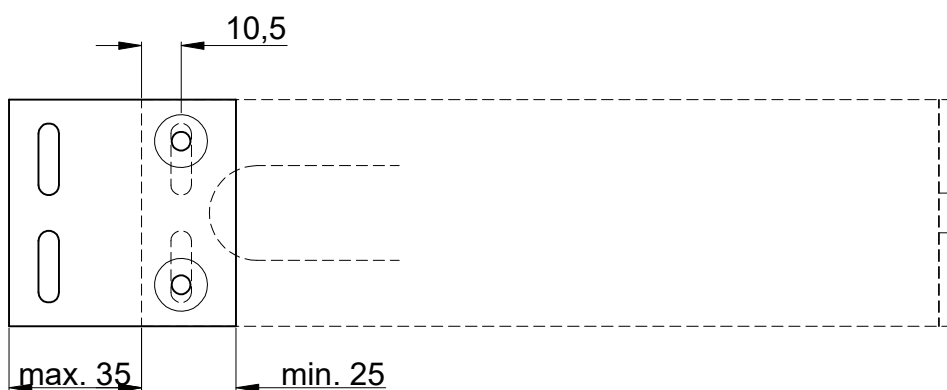
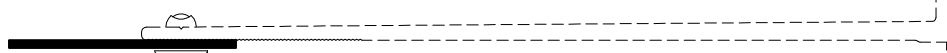


maksimalno dovoljeno vertikalno opterećenje na sklop kotve je 0,3 kN
maximum allowed vertical load on bracket assembly is 0,3 kN

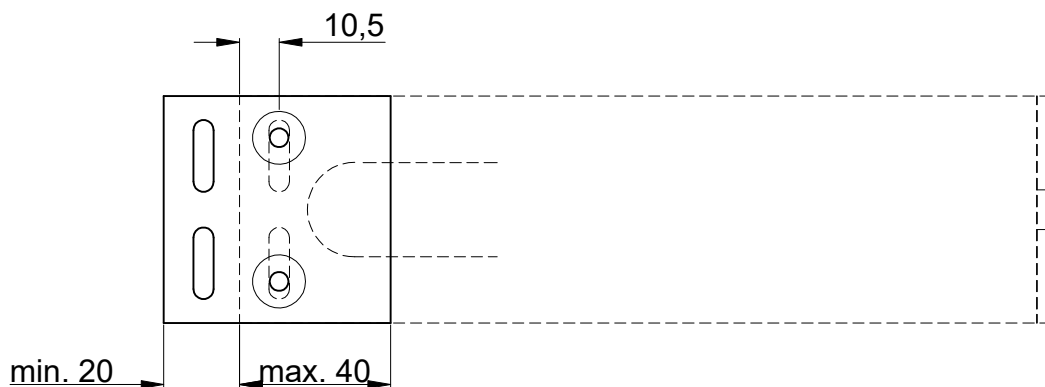
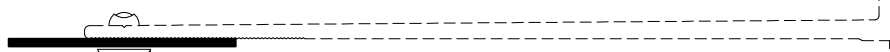
V145



4 x pop nitna, inox A2, Ø4,8x12, DIN 7337
4 x blind rivet, inox A2, Ø4,8x12, DIN 7337

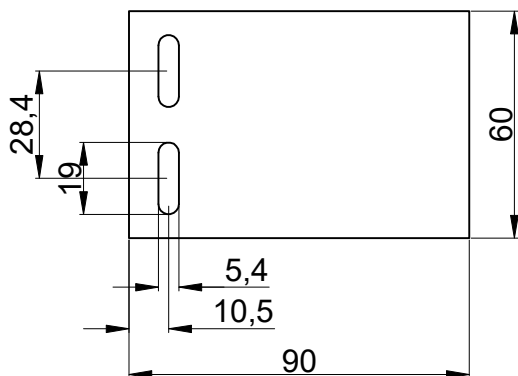


4 x pop nitna, inox A2, Ø4,8x12, DIN 7337
4 x blind rivet, inox A2, Ø4,8x12, DIN 7337

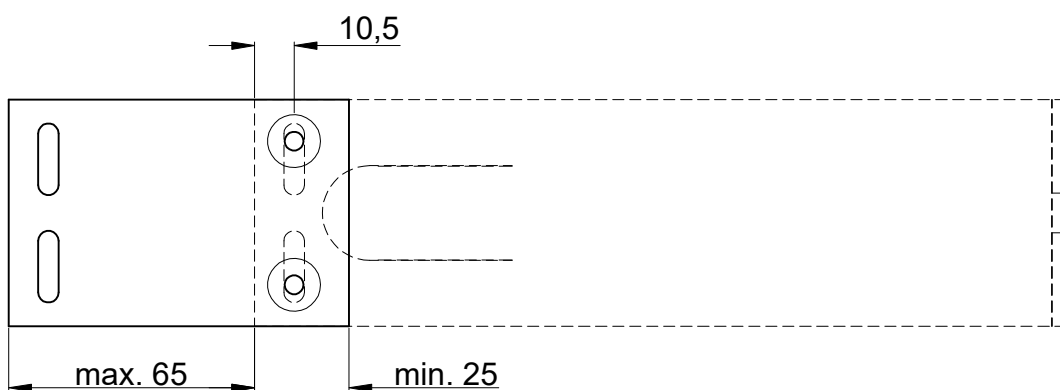
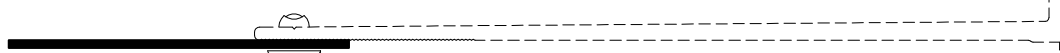


maksimalno dovoljeno vertikalno opterećenje na sklop kotve je 0,3 kN
maximum allowed vertical load on bracket assembly is 0,3 kN

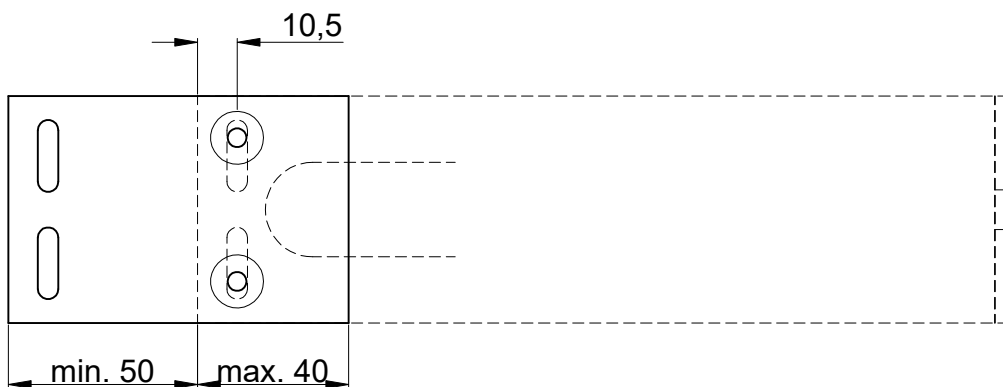
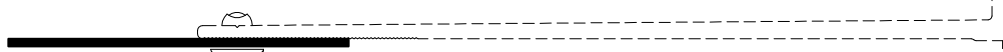
V146



4 x pop nitna, inox A2, Ø4,8x12, DIN 7337
4 x blind rivet, inox A2, Ø4,8x12, DIN 7337

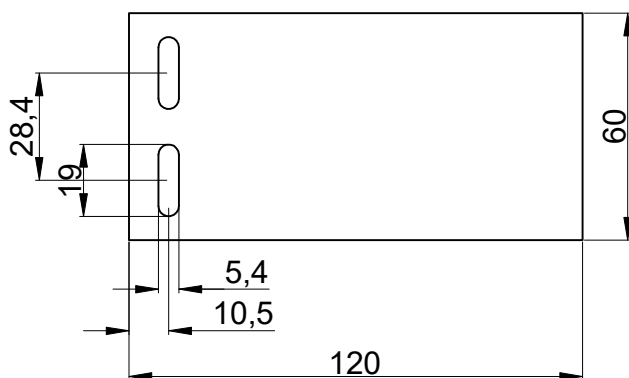


4 x pop nitna, inox A2, Ø4,8x12, DIN 7337
4 x blind rivet, inox A2, Ø4,8x12, DIN 7337

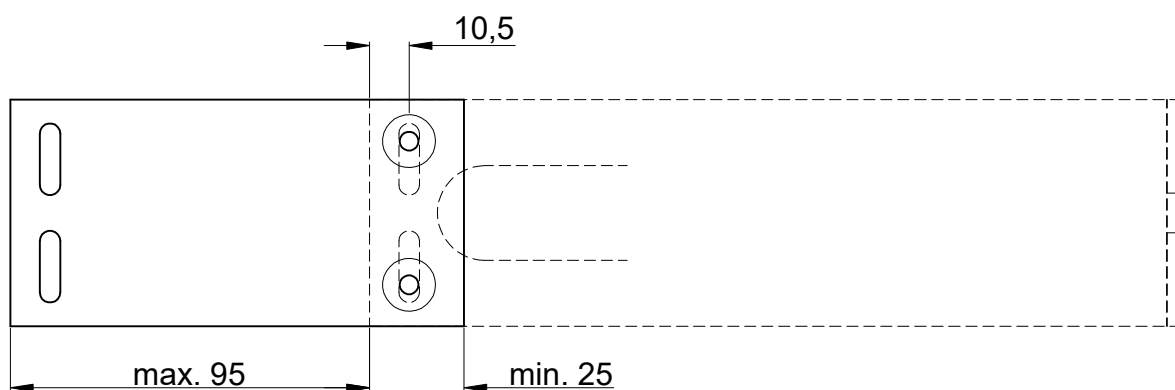
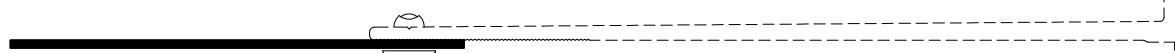


maksimalno dovoljeno vertikalno opterećenje na sklop kotve je 0,3 kN
maximum allowed vertical load on bracket assembly is 0,3 kN

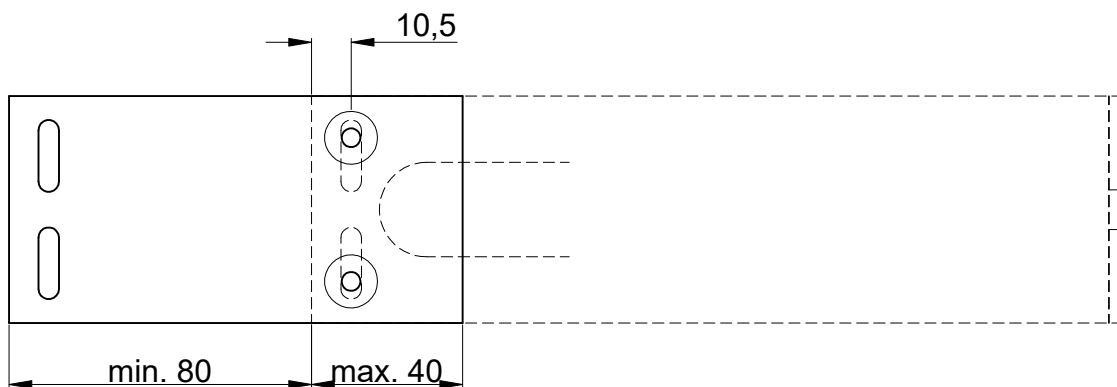
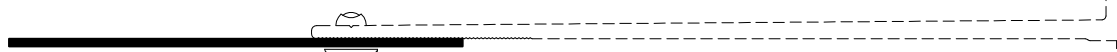
V147



4 x pop nitna, inox A2, Ø4,8x12, DIN 7337
4 x blind rivet, inox A2, Ø4,8x12, DIN 7337

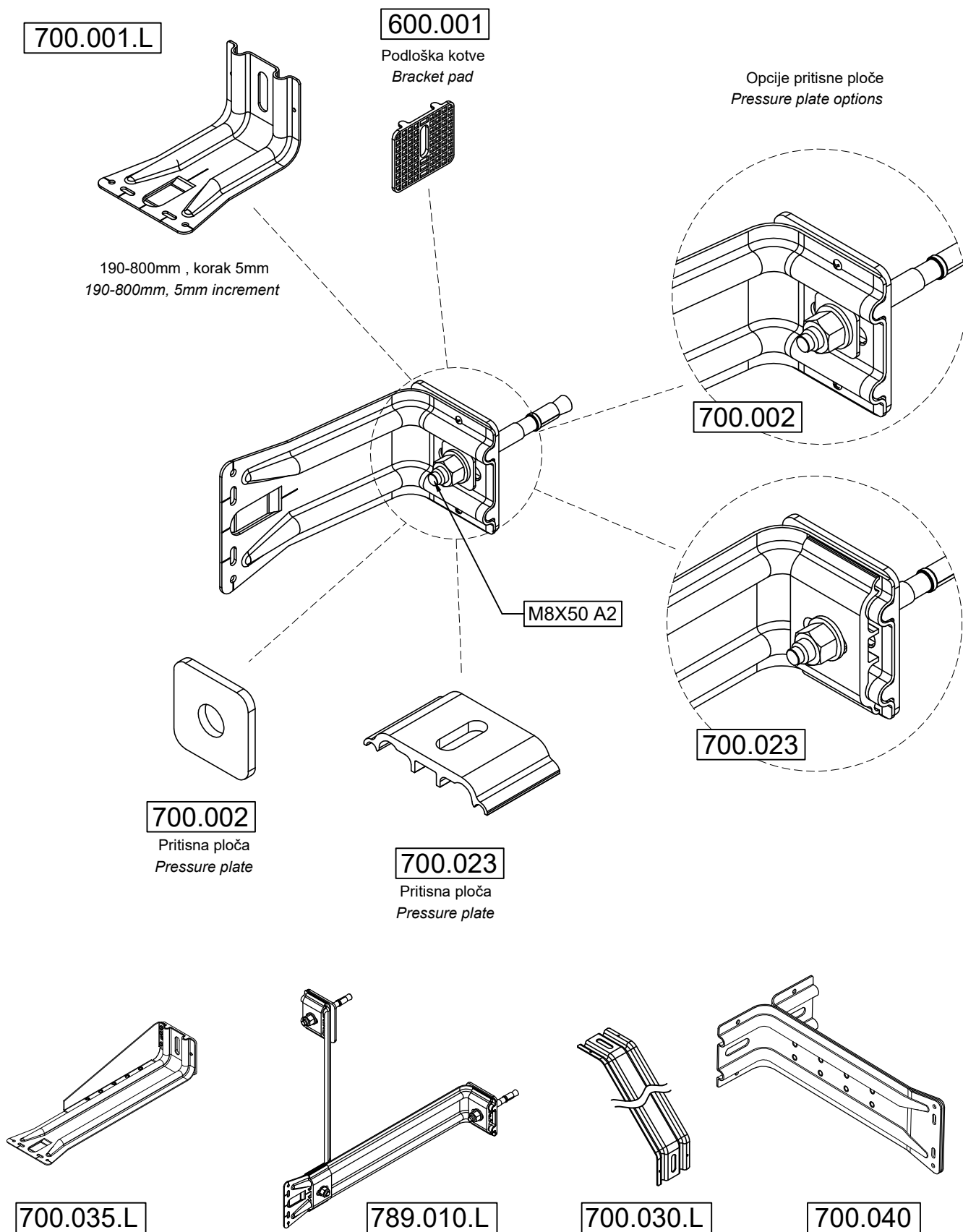


4 x pop nitna, inox A2, Ø4,8x12, DIN 7337
4 x blind rivet, inox A2, Ø4,8x12, DIN 7337



Za velike izbačaje fasade ($L=190-800\text{mm}$) i velika opterećenja.
For large facade off-sets ($L=190-800\text{mm}$) and heavy loads.

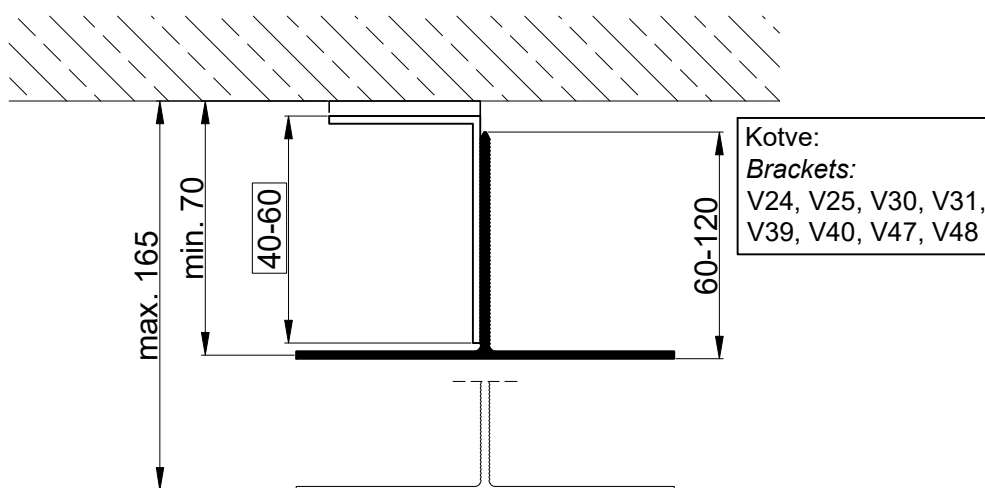
4 x pop nitna, inox A2, $\varnothing 4,8 \times 12$, DIN 7337
4 x blind rivet, inox A2, $\varnothing 4,8 \times 12$, DIN 7337



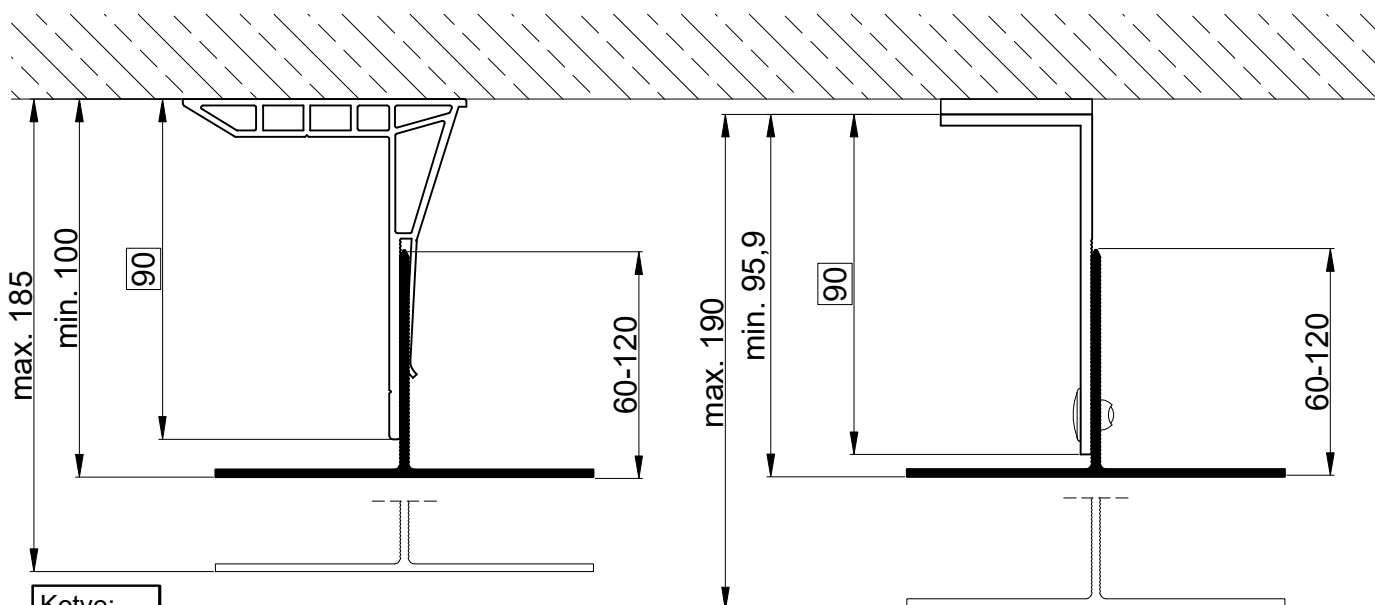
Principi
Principles

V  **NT**

Horizontalni presek
Horizontal section



Stubovi:
Mullions:
V125, V06, V07, V08,
V95, V20, V101, V88,
V09, V01, V134, V16
V10, V117, L4060,
L6060



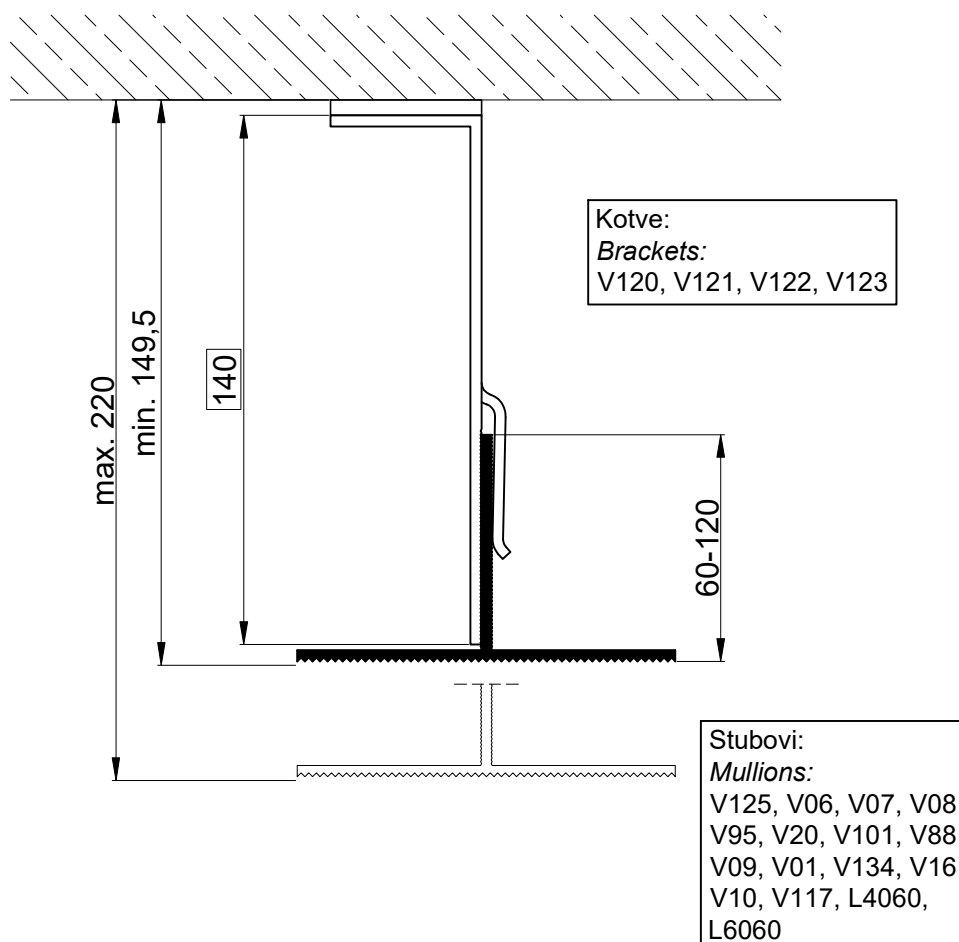
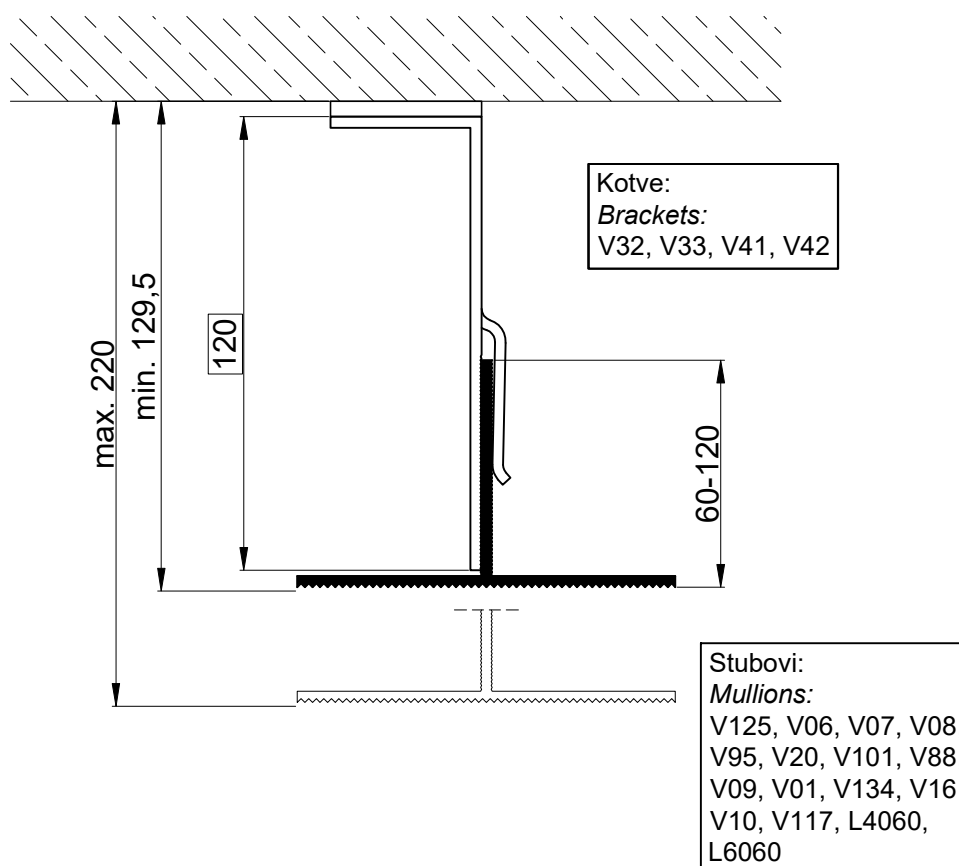
Kotve:
Brackets:
V38, V49

Stubovi:
Mullions:
V125, V06, V07, V08,
V95, V20, V101, V88,
V09, V01, V134, V16
V10, V117, L4060,
L6060

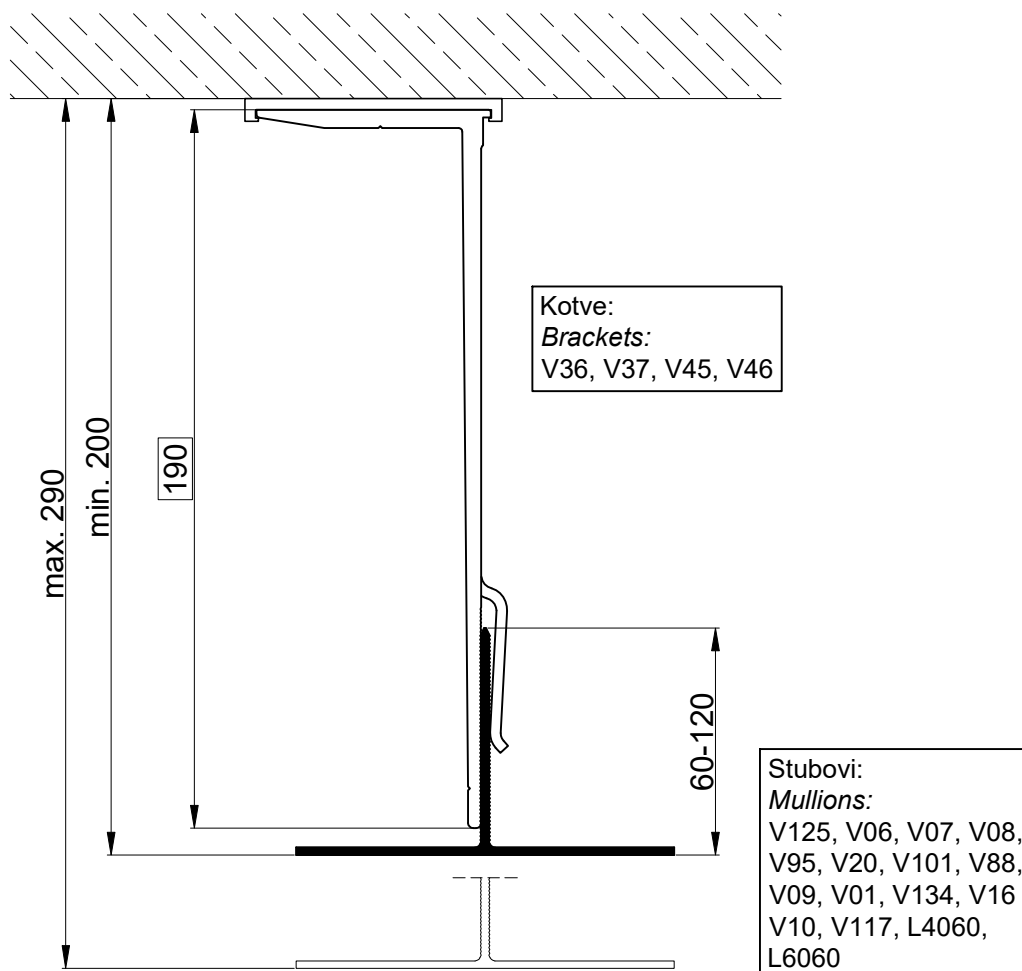
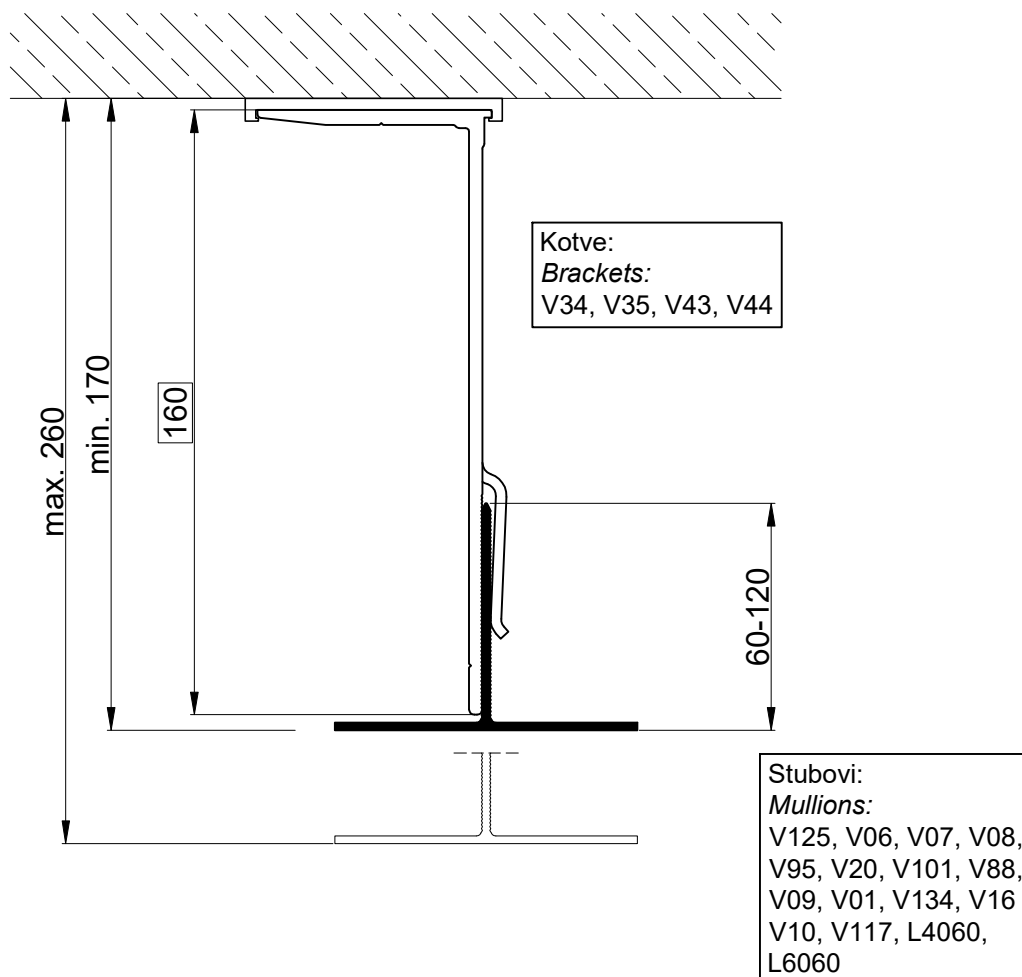
Kotve:
Brackets:
V26, V27, 28, 29

Stubovi:
Mullions:
V125, V06, V07, V08,
V95, V20, V101, V88,
V09, V01, V134, V16
V10, V117, L4060,
L6060

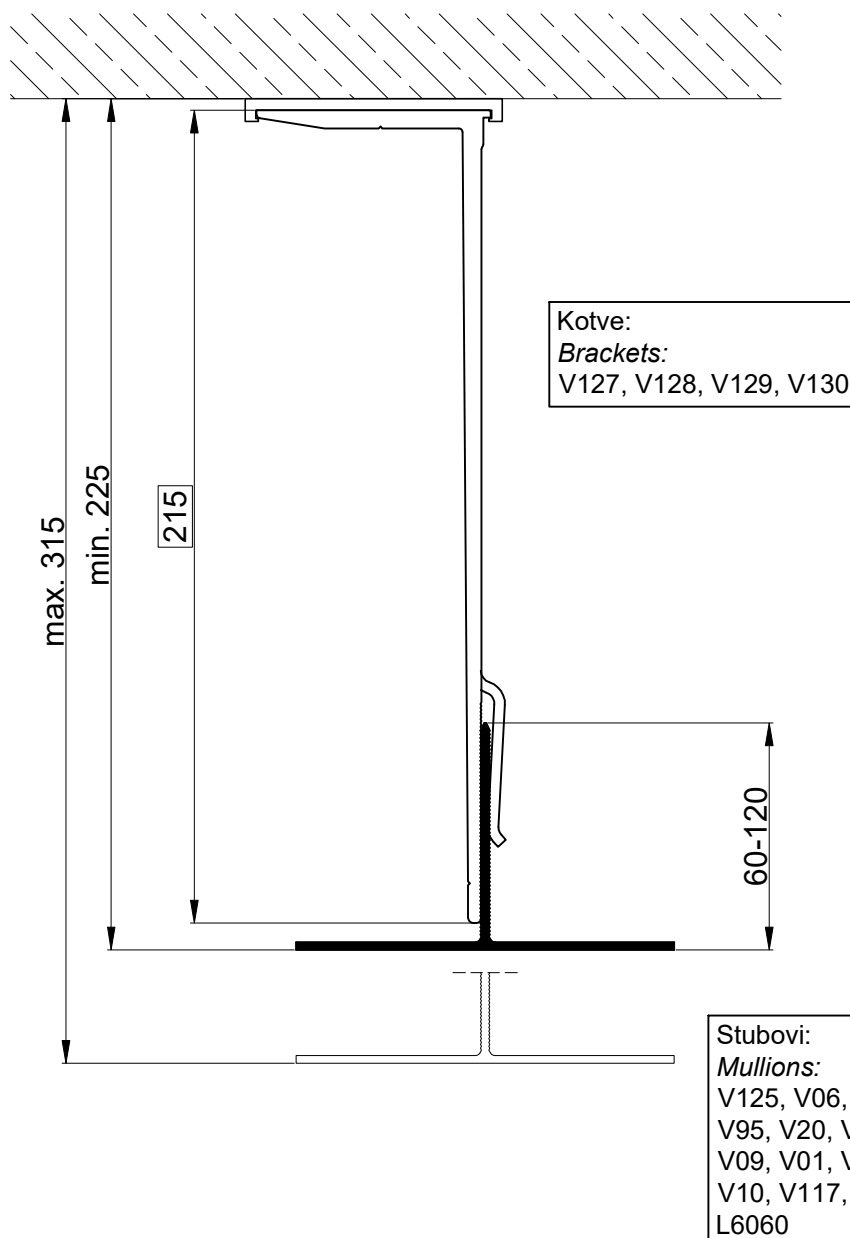
Horizontalni presek
Horizontal section



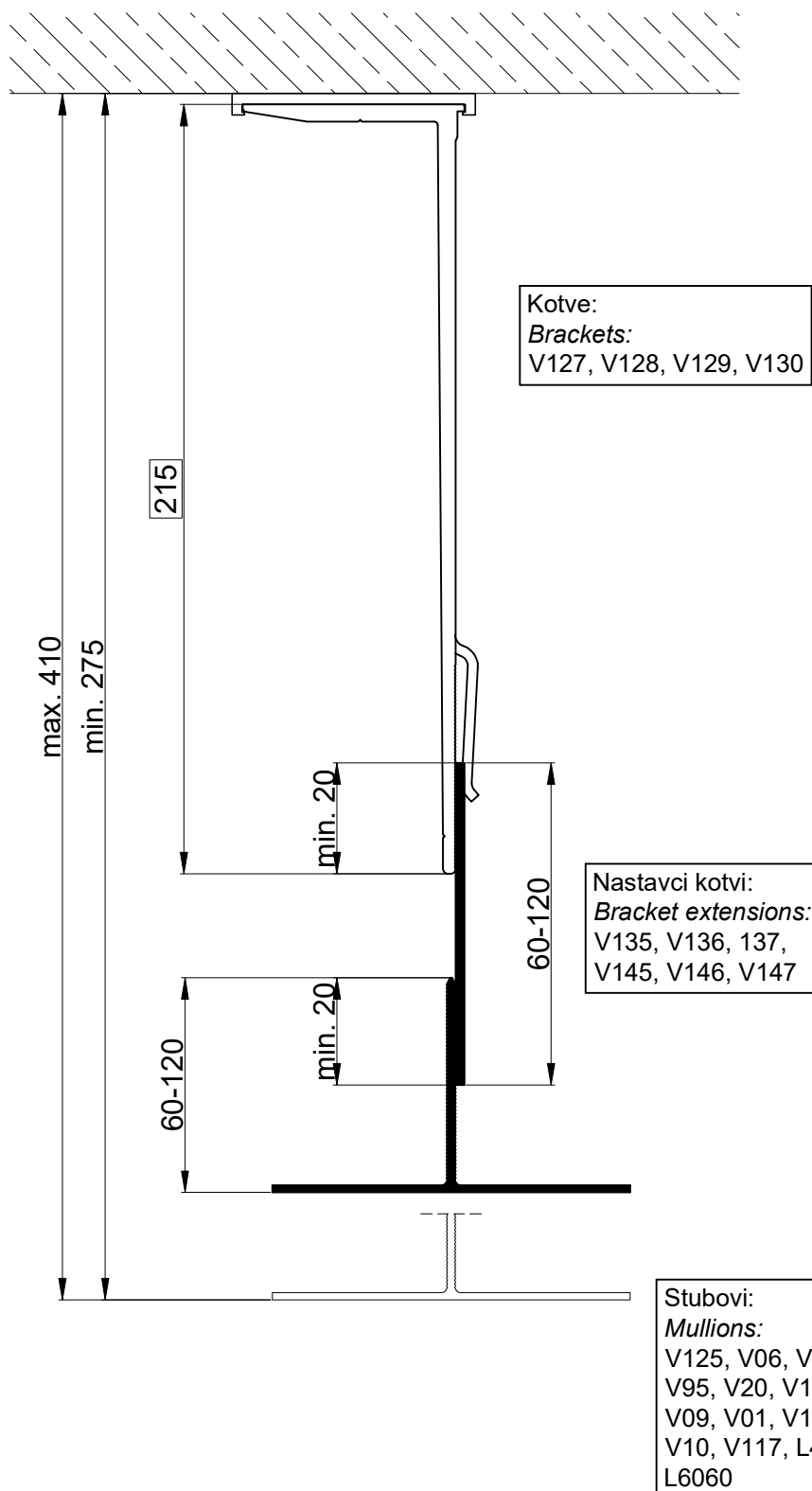
Horizontalni presek
Horizontal section



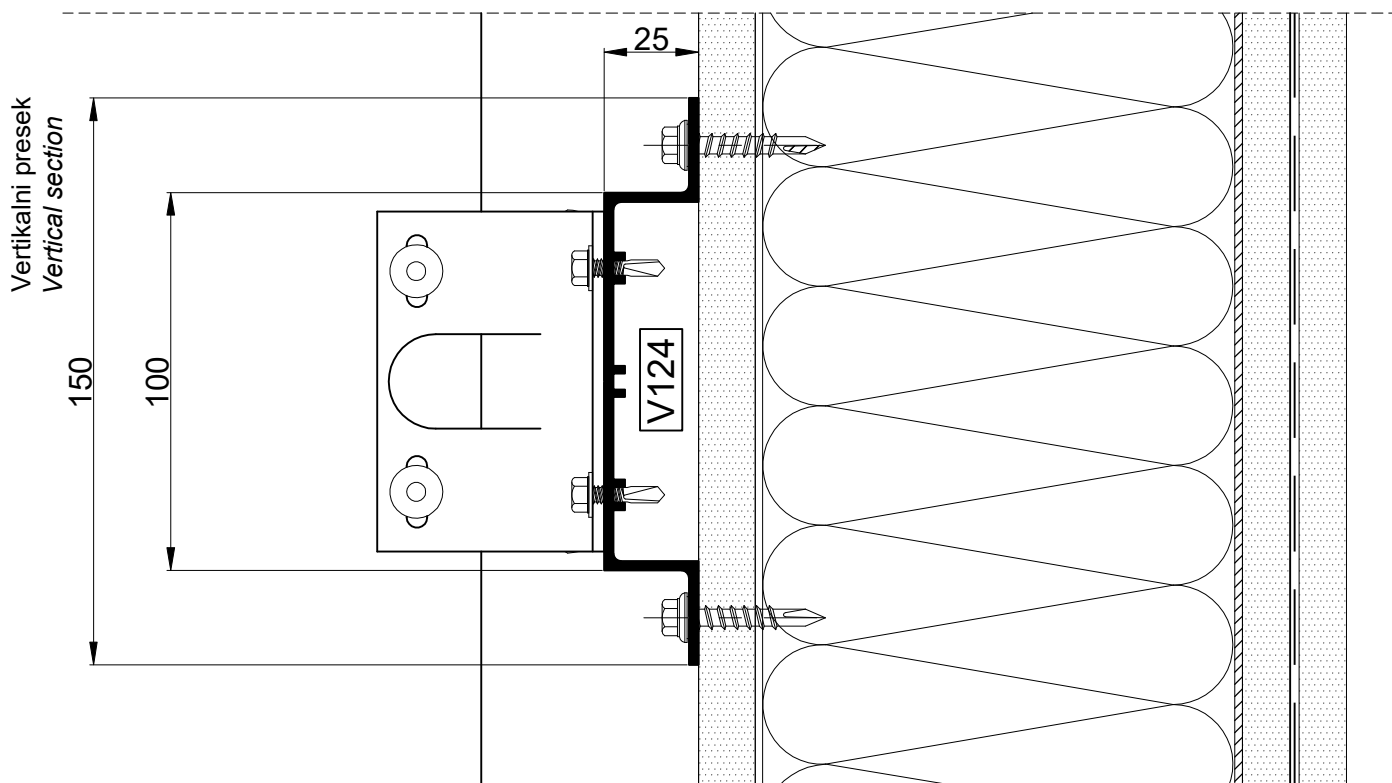
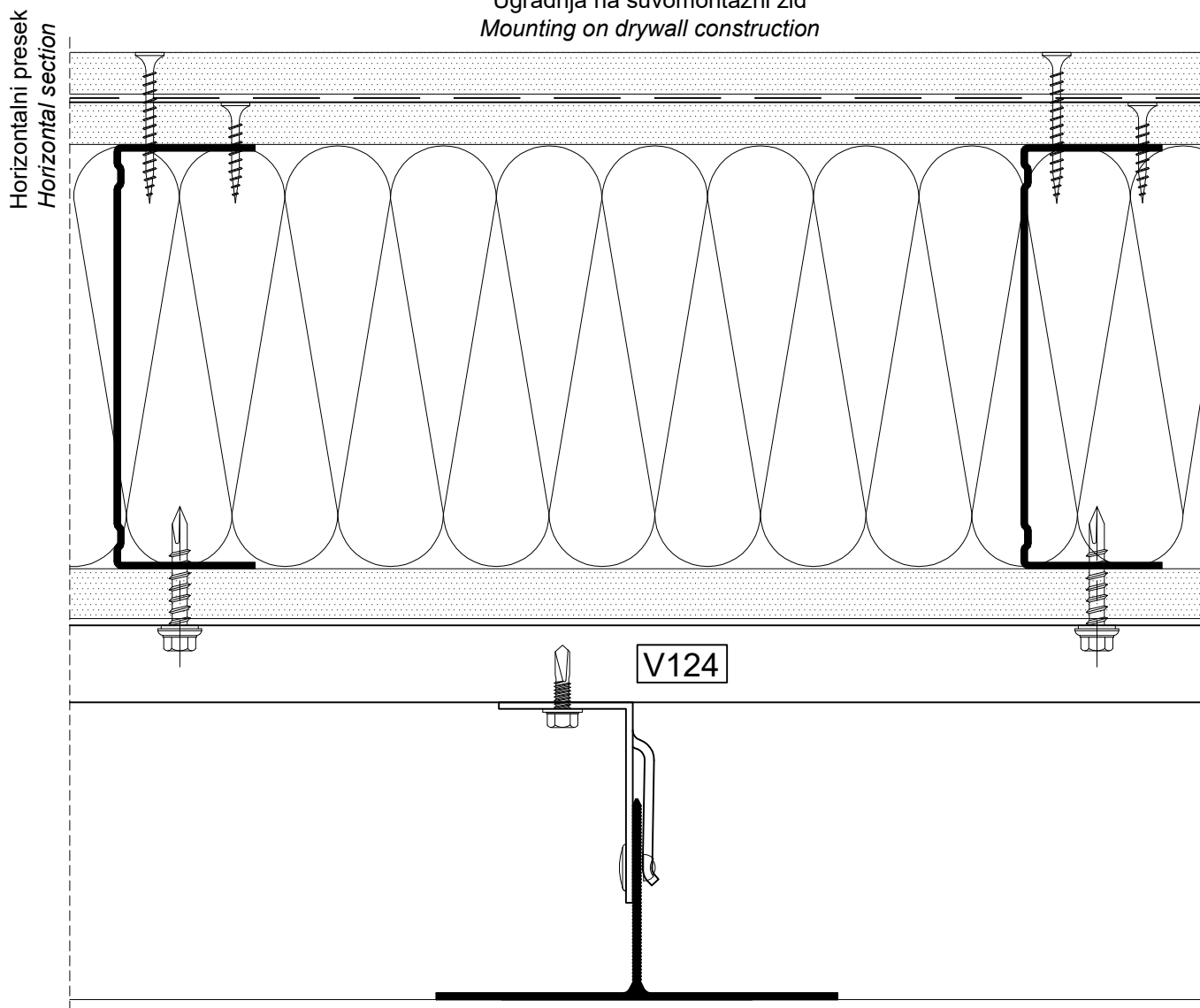
Horizontalni presek
Horizontal section



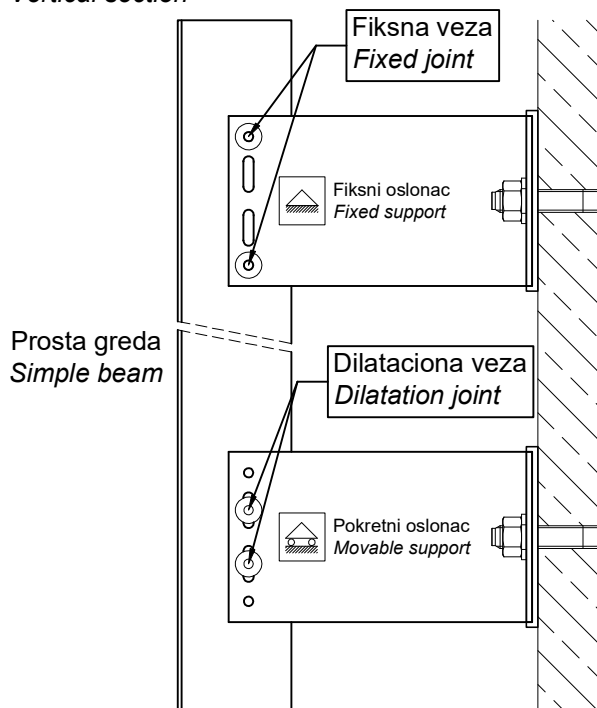
Horizontalni presek
Horizontal section



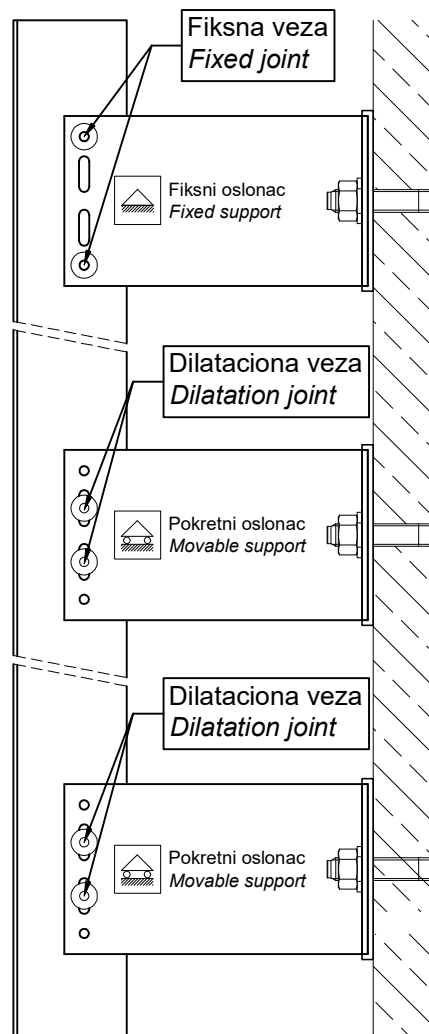
Ugradnja na suvomontažni zid
Mounting on drywall construction



Vertikalni presek
Vertical section



Kontinualna greda
Continuous beam



*Za dužine šipke <4,5m, šipka je "ovešana" i krajnja gornja kotva je fiksna.

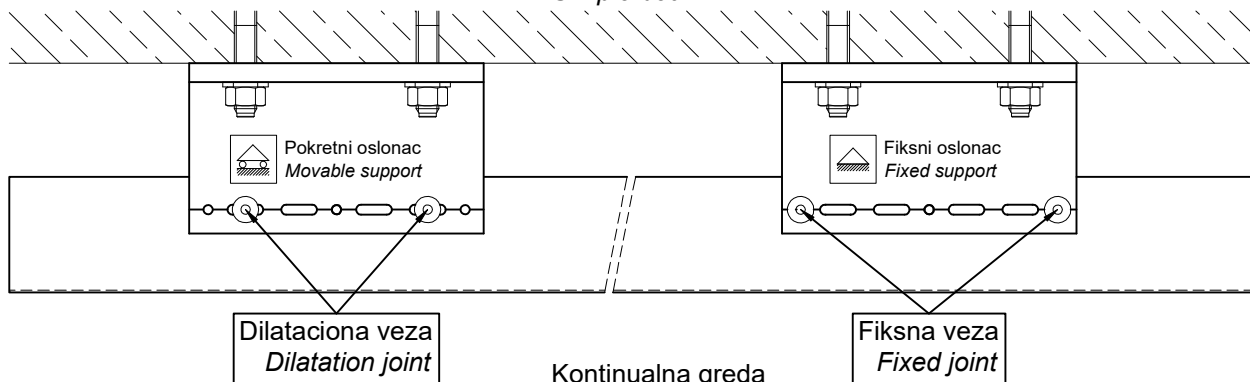
*For bar lengths <4,5m, bar is suspended and the top Bracket is fixed.

*Za dužine šipke >4,5m, pozicija fiksne kotve je u sredini.

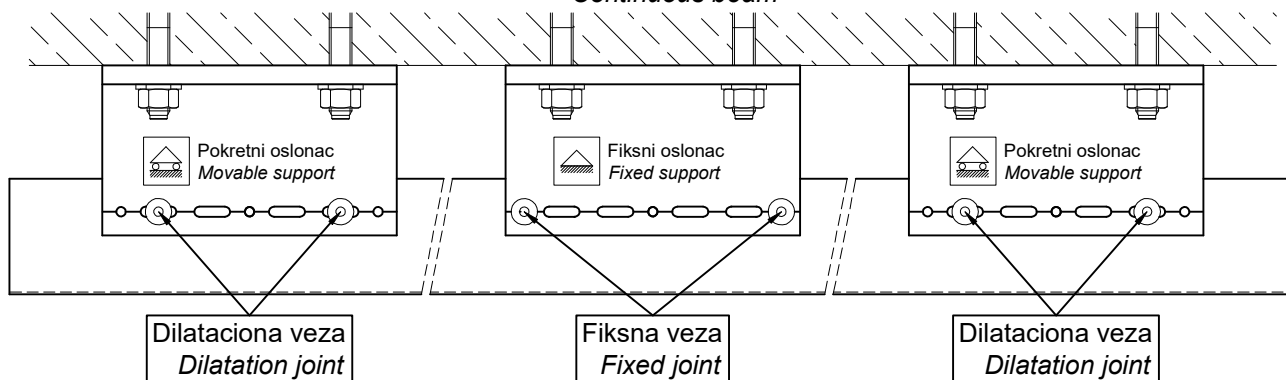
*For bar lengths >4,5m, fixed Bracket is positioned in the center.

Horizontalni presek
Horizontal section

Prosta greda
Simple beam

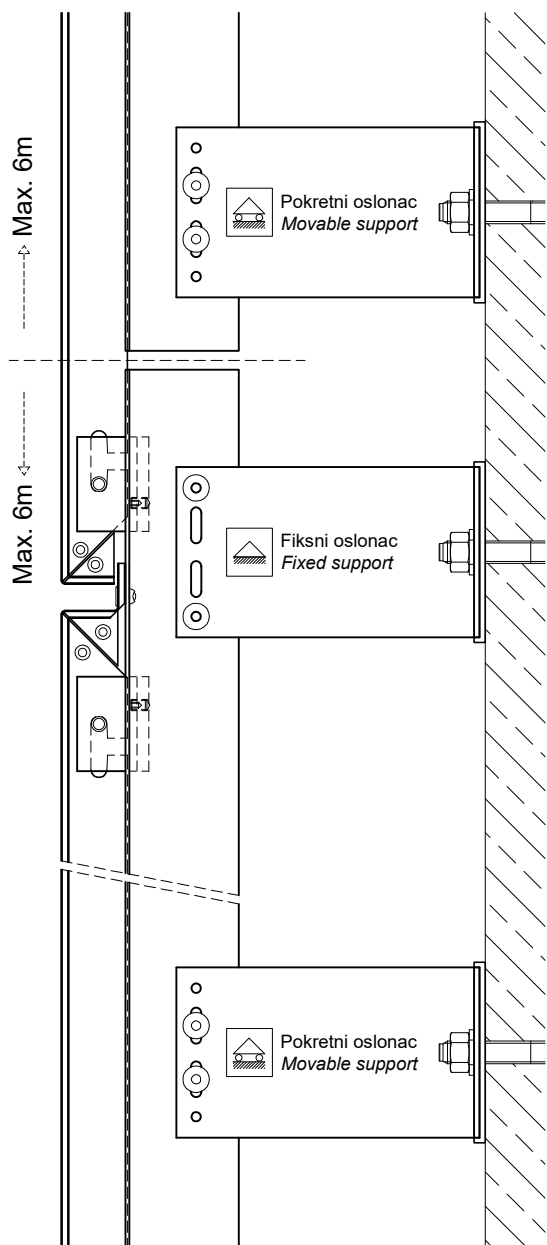


Kontinualna greda
Continuous beam

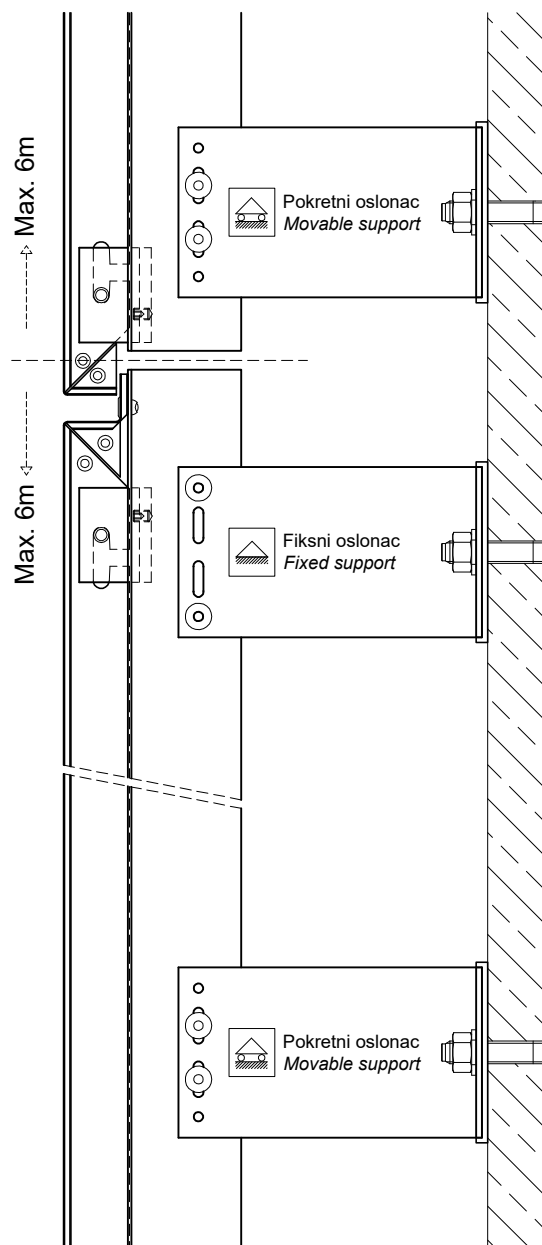


Nastavljanje vertikalnih nosećih profila
Vertical load-bearing profiles resumption

Vertikalni presek
Vertical section



Panel / kaseta se ne sme postaviti preko dva noseća profila.
A panel / cassette must not be spread across two load-bearing profiles.

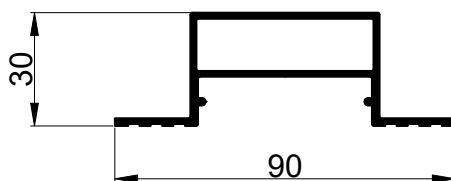


Pozicija zone dilatacije mora da odgovara poziciji fiksiranja fasadne obloge za vertikalni noseći profil.
The position of dilatation must correspond to the cladding fixing point.

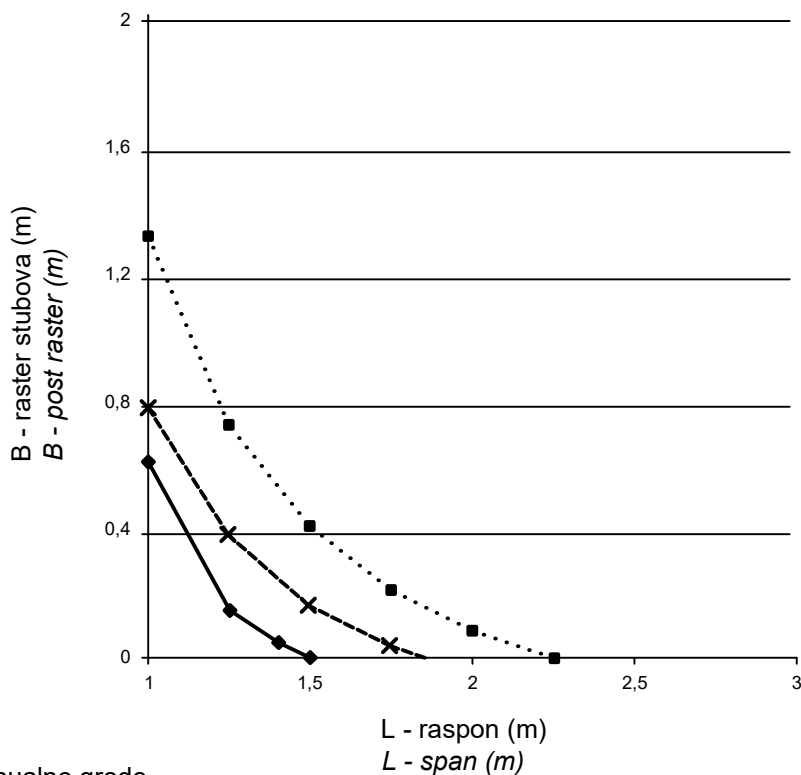
Statički proračun
Structural analysis

V  **NT**

V134



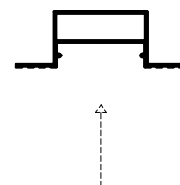
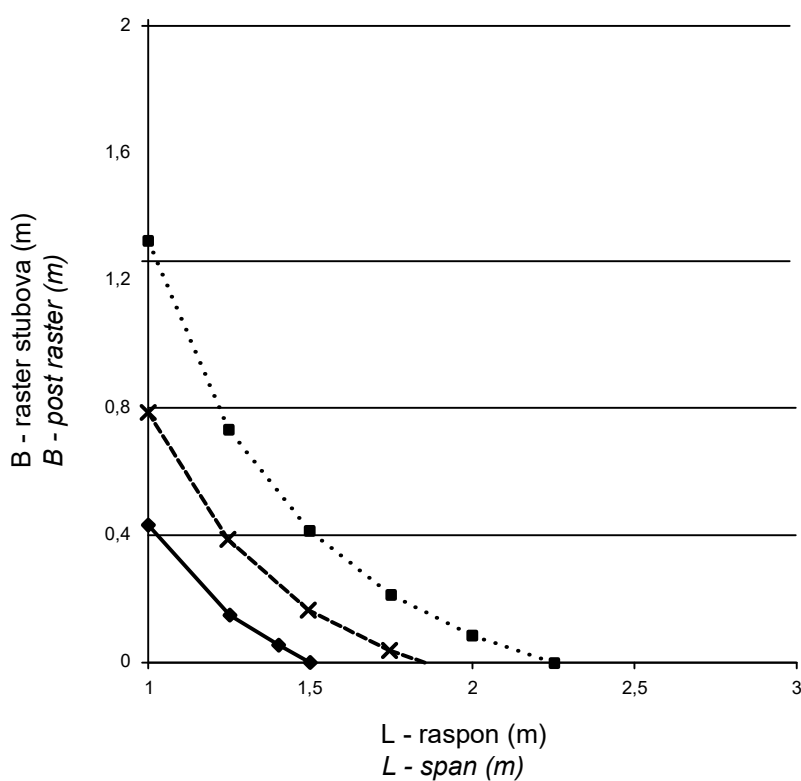
Proračun proste grede
Simple beam calculation



w - računski pritisak vetra (kN/m)
w - calculated wind pressure (kN/m)

.....■..... w=0,6
-----X----- w=0,9
—————◆————— w=1,32

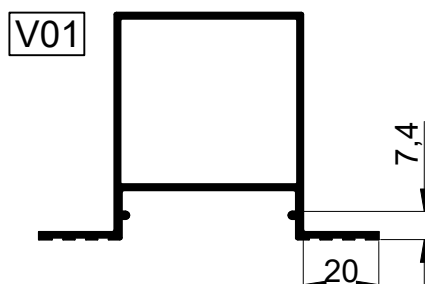
Proračun kontinualne grede
Continuous beam calculation



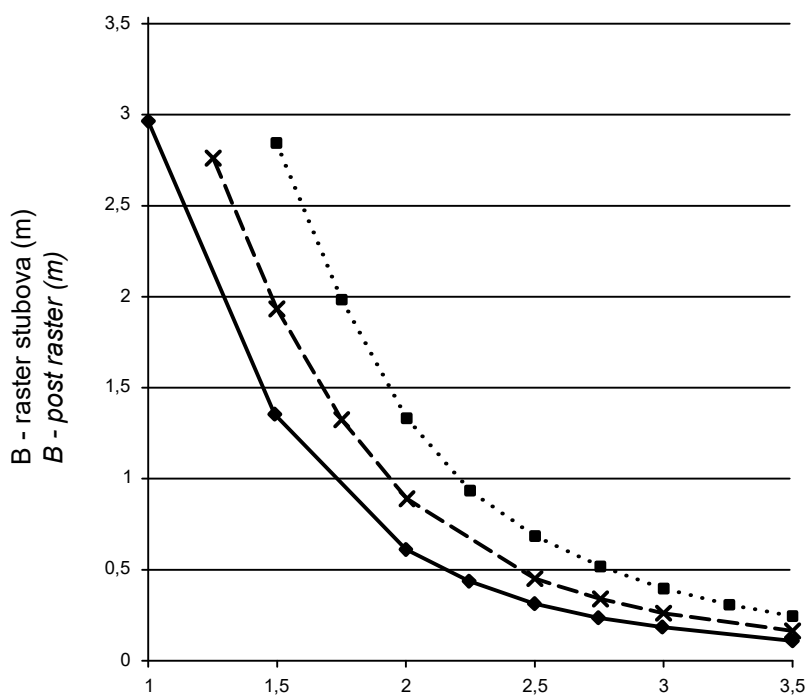
pravac delovanja sile
force impact direction

w - računski pritisak vetra (kN/m)
w - calculated wind pressure (kN/m)

.....■..... w=0,6
-----X----- w=0,9
—————◆————— w=1,32



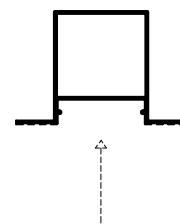
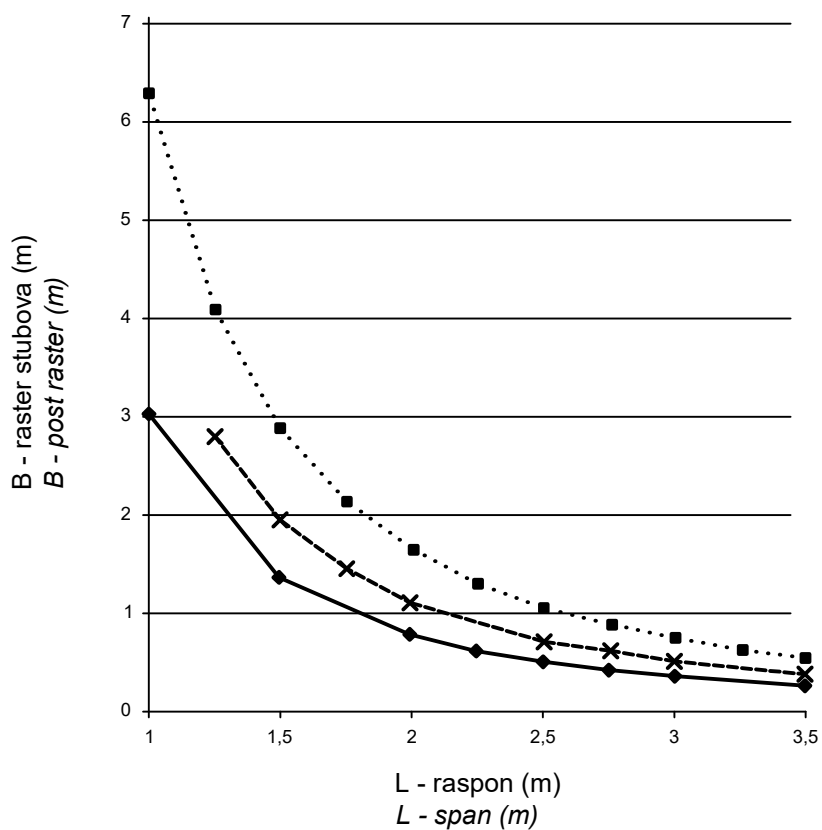
Proračun proste grede
Simple beam calculation



w - računski pritisak vetra (kN/m)
w - calculated wind pressure (kN/m)

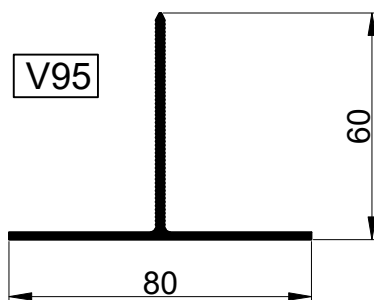
.....■ w=0,6
-----× w=0,9
—————◆ w=1,32

Proračun kontinualne grede
Continuous beam calculation

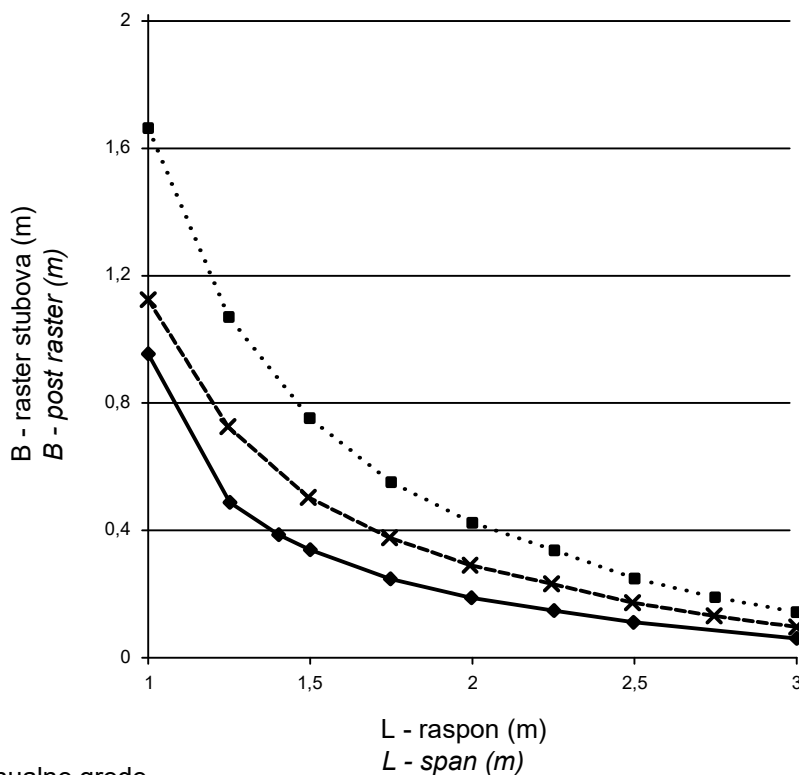


w - računski pritisak vetra (kN/m)
w - calculated wind pressure (kN/m)

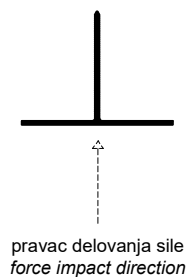
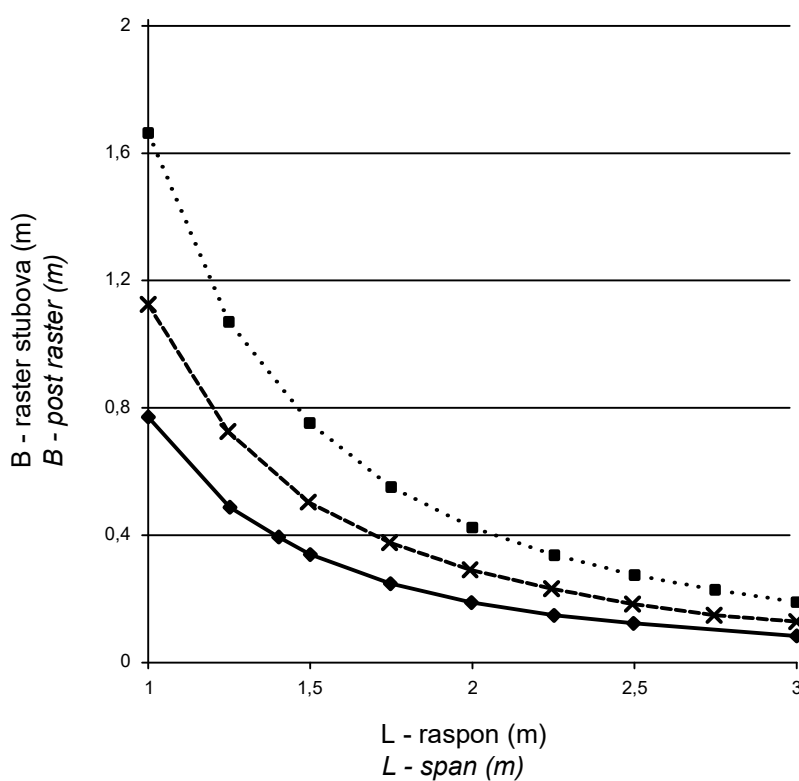
.....■ w=0,6
-----× w=0,9
—————◆ w=1,32

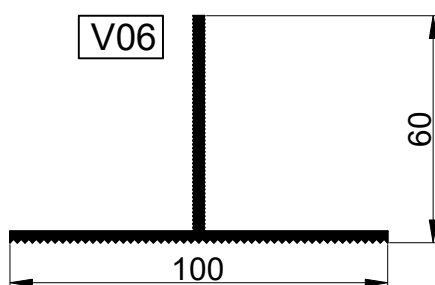


Proračun proste grede
Simple beam calculation

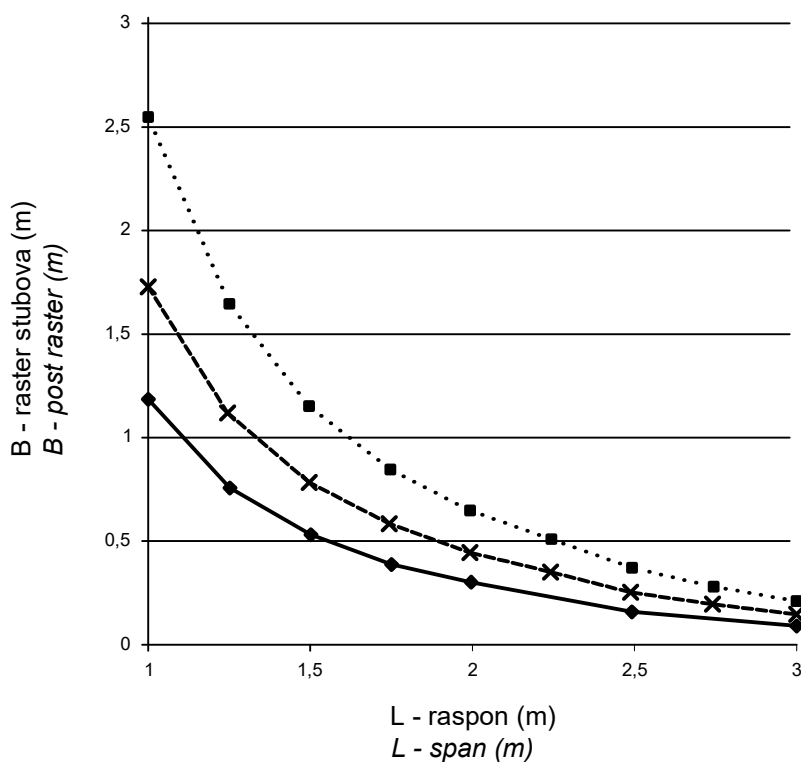


Proračun kontinualne grede
Continuous beam calculation

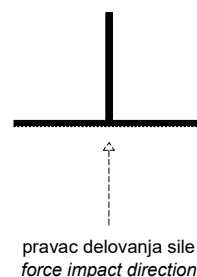
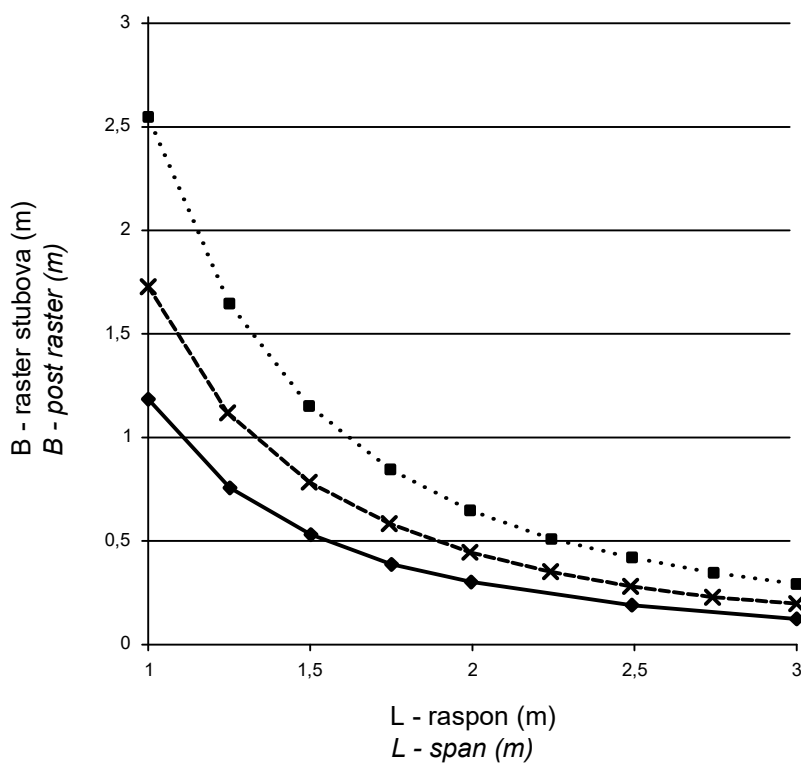




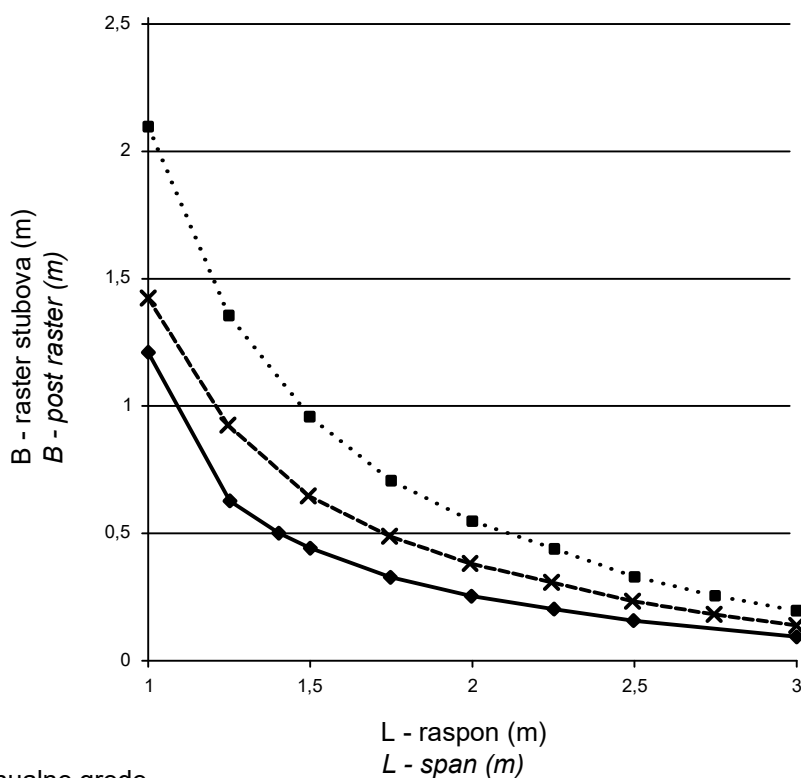
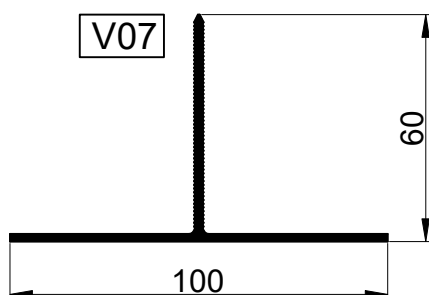
Proračun proste grede
Simple beam calculation



Proračun kontinualne grede
Continuous beam calculation



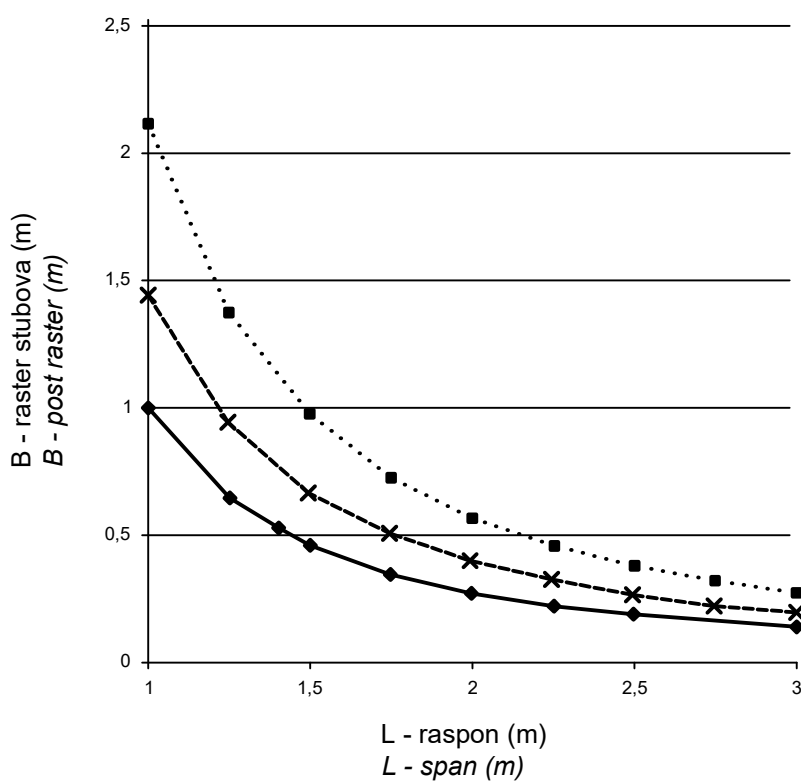
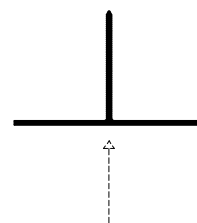
Proračun proste grede
Simple beam calculation



w - računski pritisak vetra (kN/m)
w - calculated wind pressure (kN/m)

.....■..... w=0,6
-----x----- w=0,9
—————♦———— w=1,32

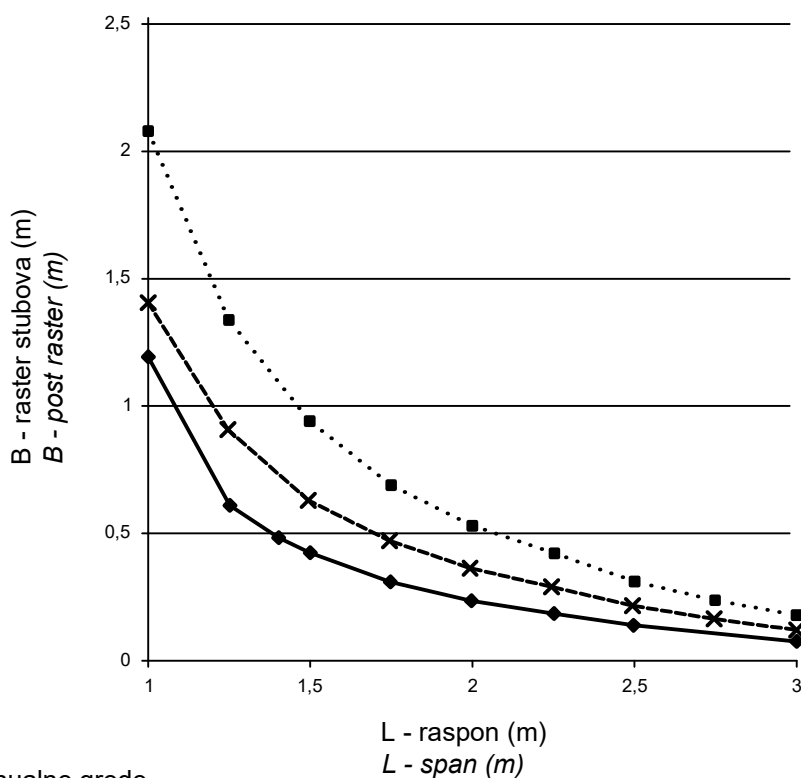
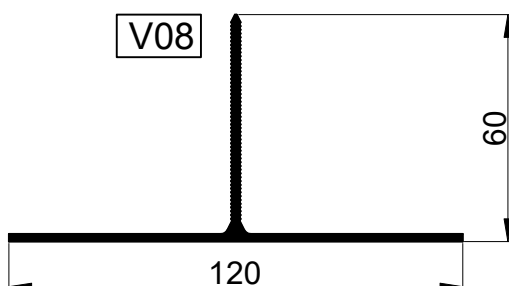
Proračun kontinualne grede
Continuous beam calculation



w - računski pritisak vetra (kN/m)
w - calculated wind pressure (kN/m)

.....■..... w=0,6
-----x----- w=0,9
—————♦———— w=1,32

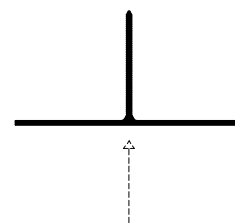
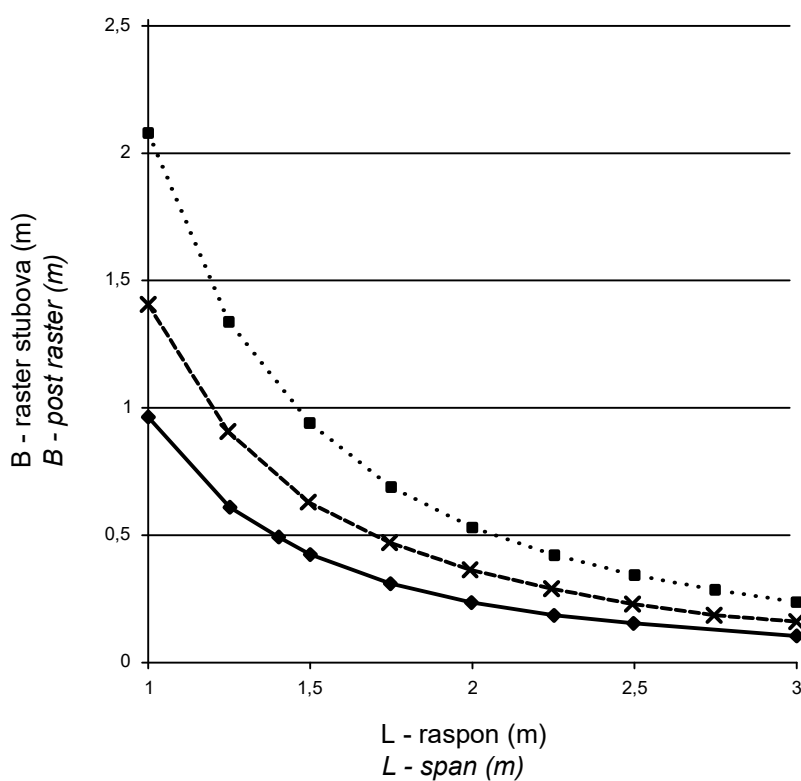
Proračun proste grede
Simple beam calculation



w - računski pritisak vetra (kN/m)
 w - calculated wind pressure (kN/m)

.....■..... $w=0,6$
-----x----- $w=0,9$
—————♦———— $w=1,32$

Proračun kontinualne grede
Continuous beam calculation

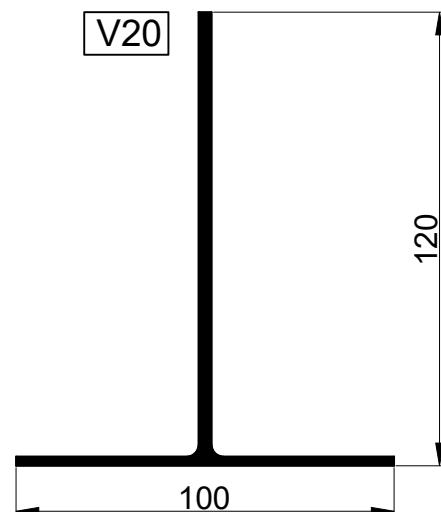
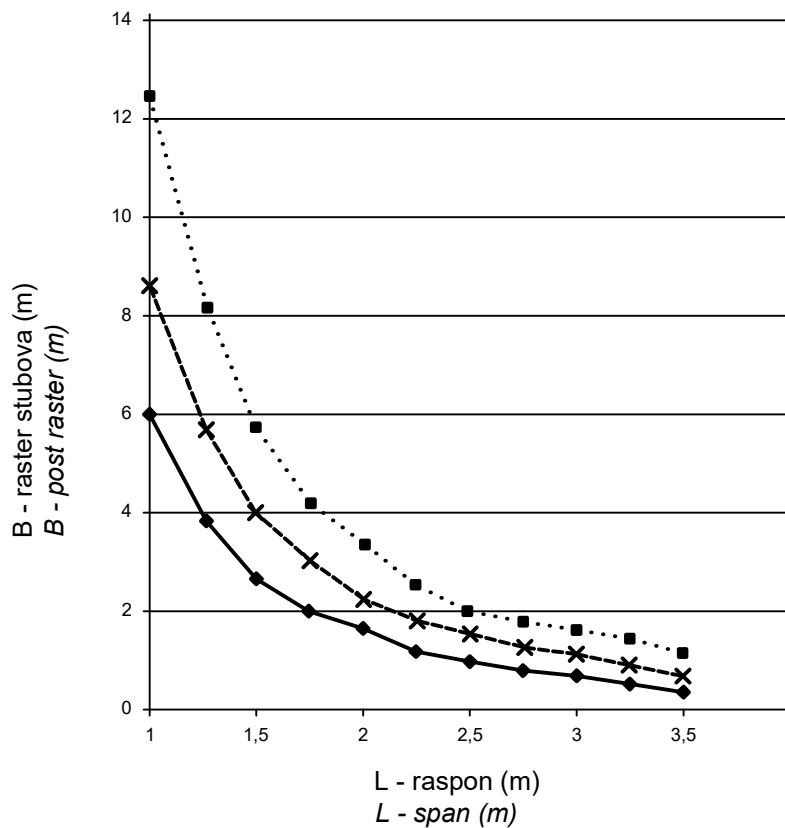


pravac delovanja sile
force impact direction

w - računski pritisak vetra (kN/m)
 w - calculated wind pressure (kN/m)

.....■..... $w=0,6$
-----x----- $w=0,9$
—————♦———— $w=1,32$

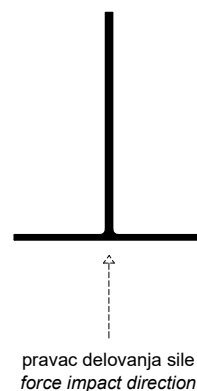
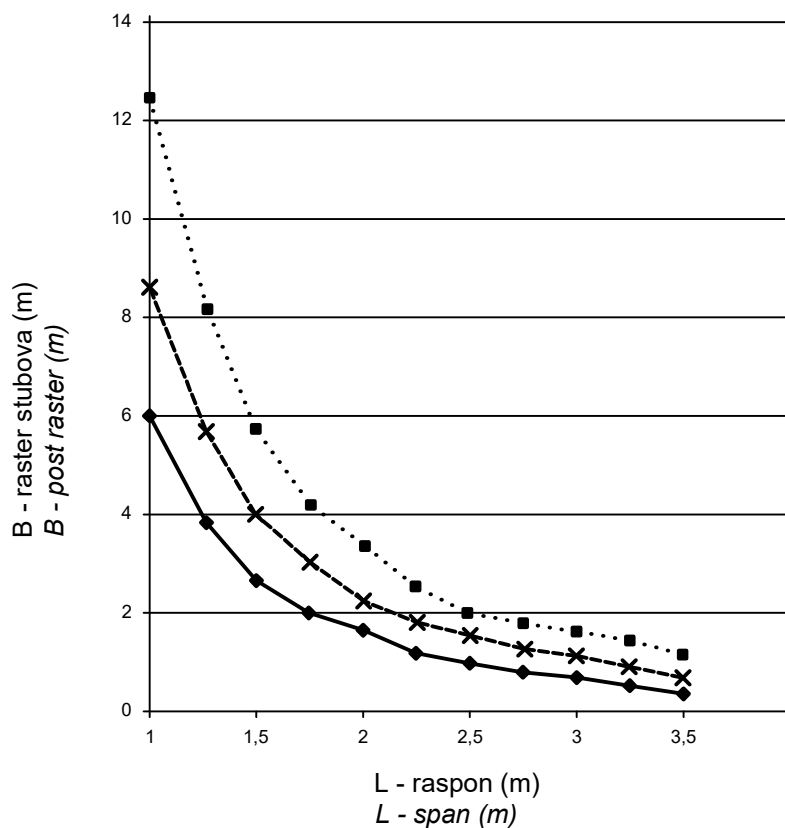
Proračun proste grede
Simple beam calculation



w - računski pritisak vetra (kN/m)
 w - calculated wind pressure (kN/m)

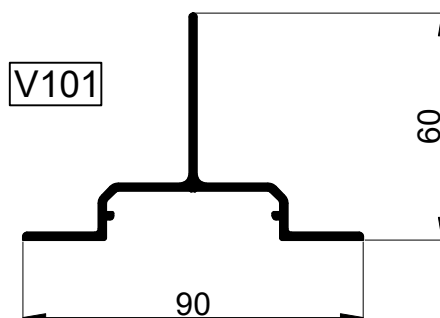
- $\blacksquare$ $w=0,6$
- $\times$ ----- $w=0,9$
- $\blacklozenge$ ----- $w=1,32$

Proračun kontinualne grede
Continuous beam calculation

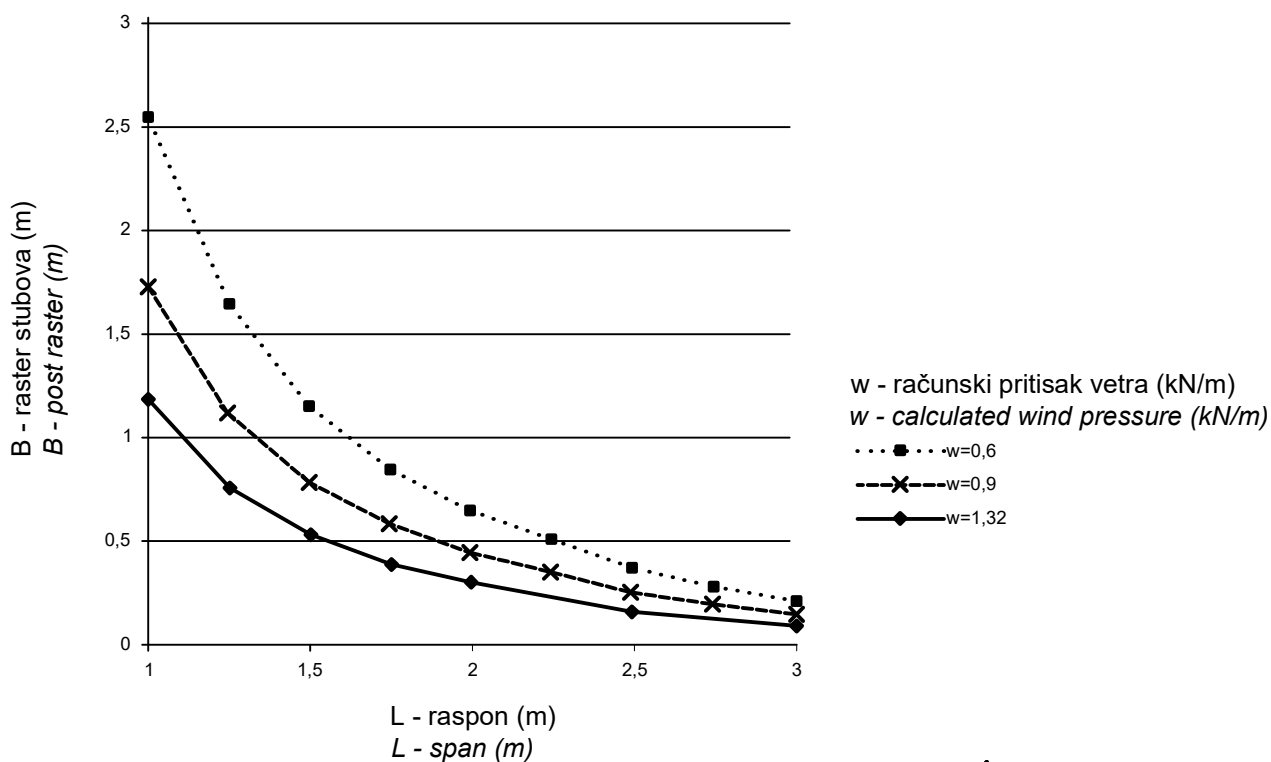


w - računski pritisak vetra (kN/m)
 w - calculated wind pressure (kN/m)

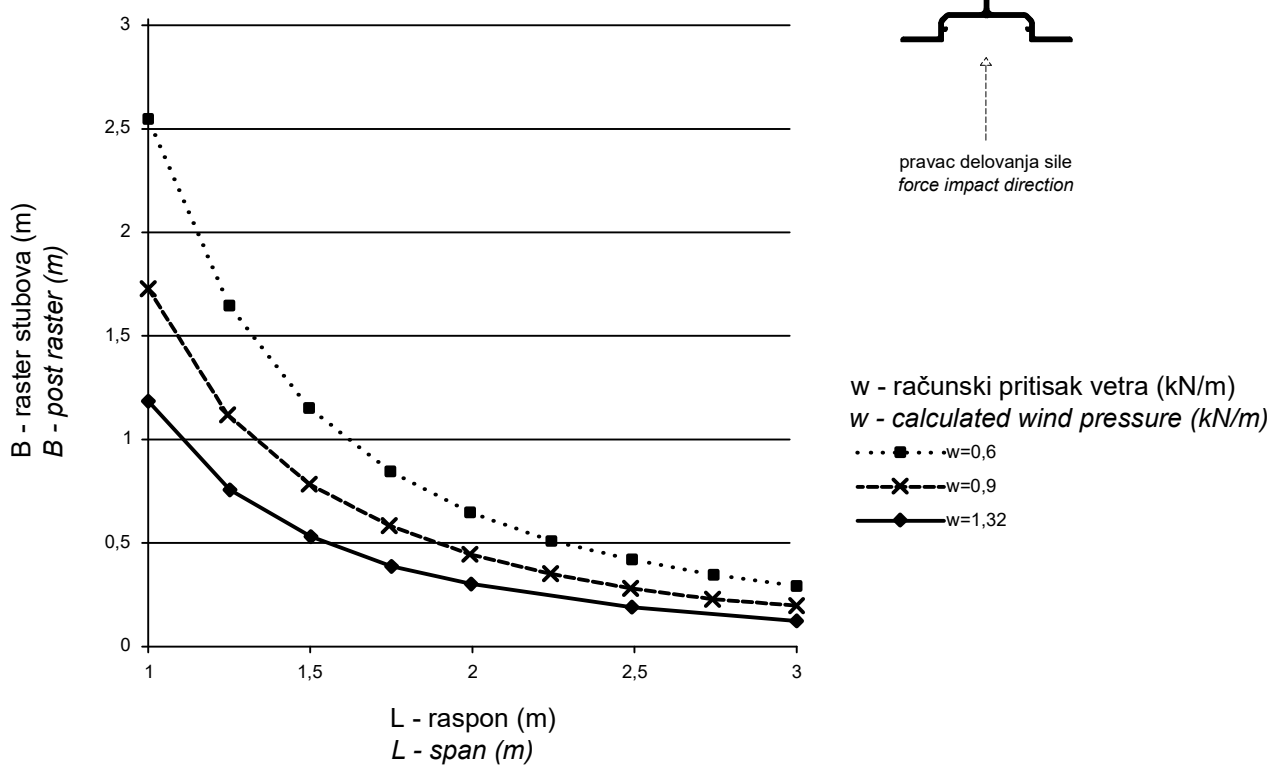
- $\blacksquare$ $w=0,6$
- $\times$ ----- $w=0,9$
- $\blacklozenge$ ----- $w=1,32$

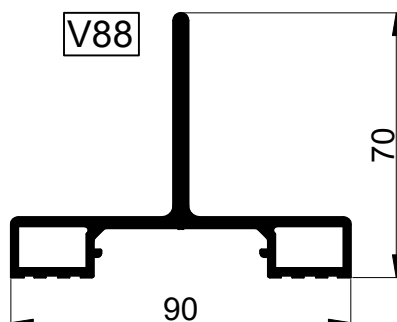


Proračun proste grede
Simple beam calculation

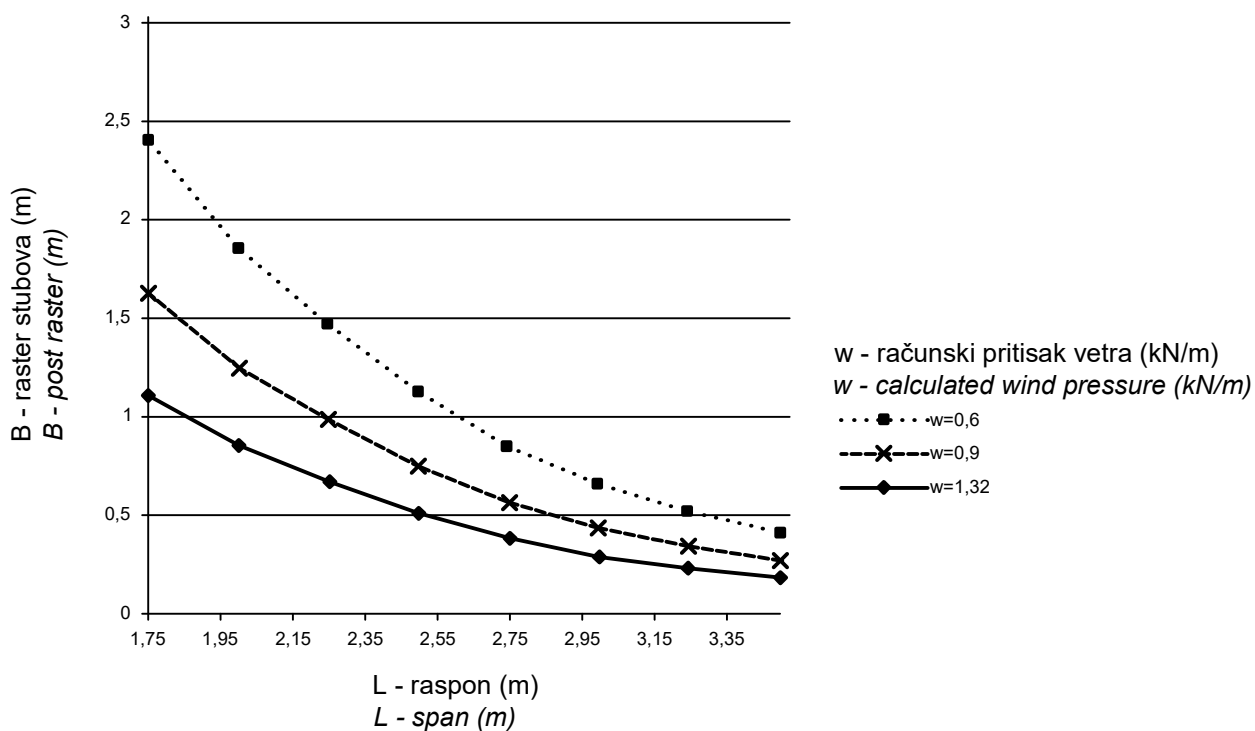


Proračun kontinualne grede
Continuous beam calculation

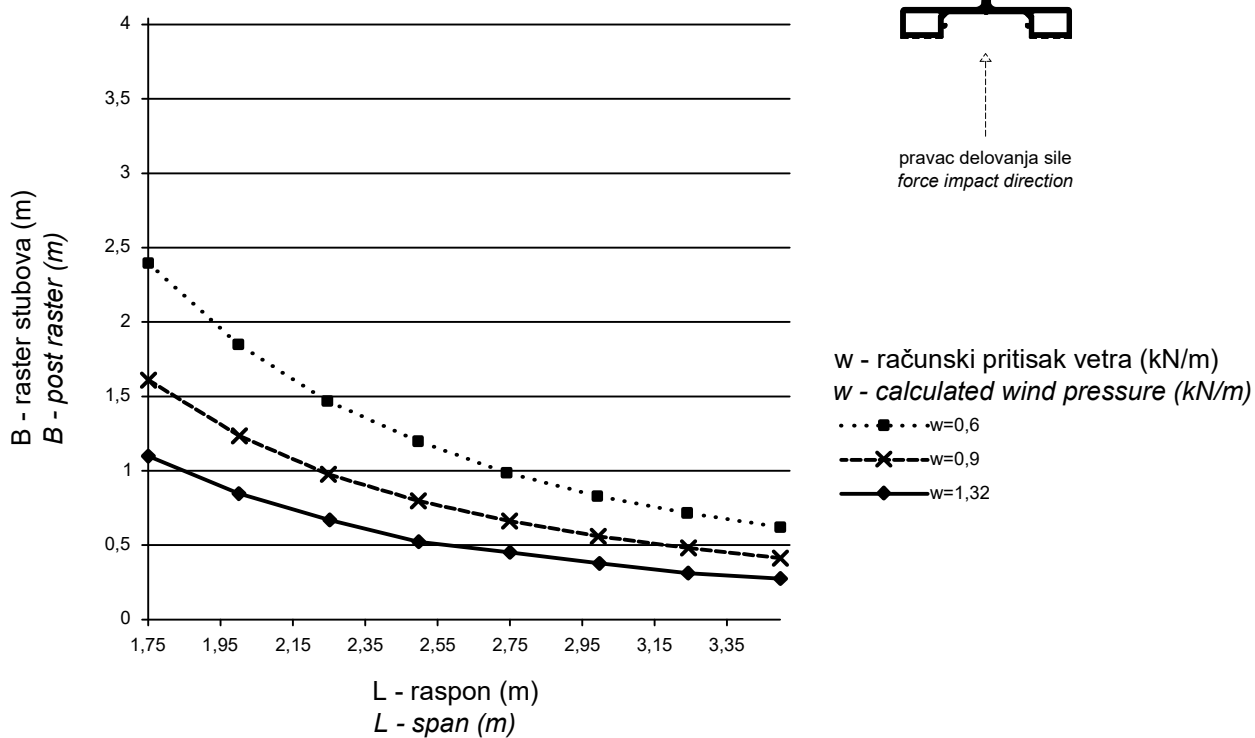


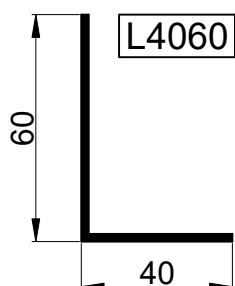


Proračun proste grede
Simple beam calculation

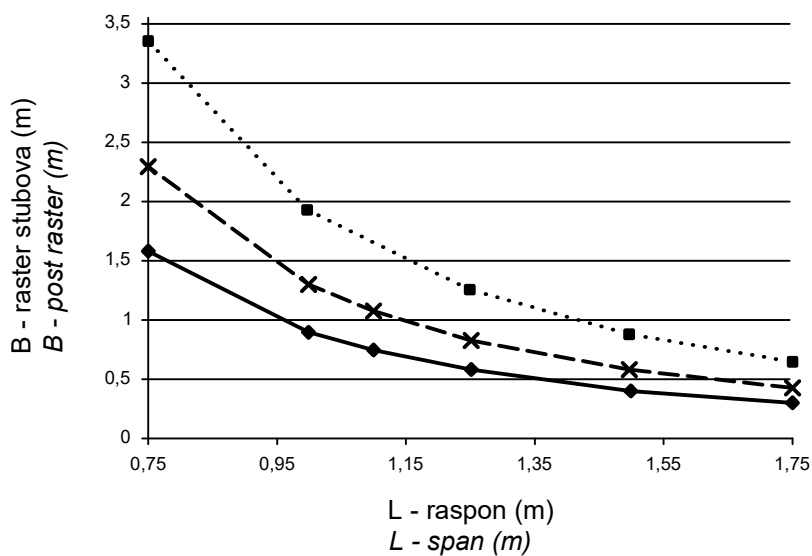


Proračun kontinualne grede
Continuous beam calculation

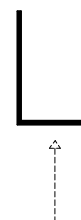
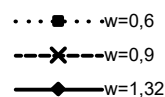




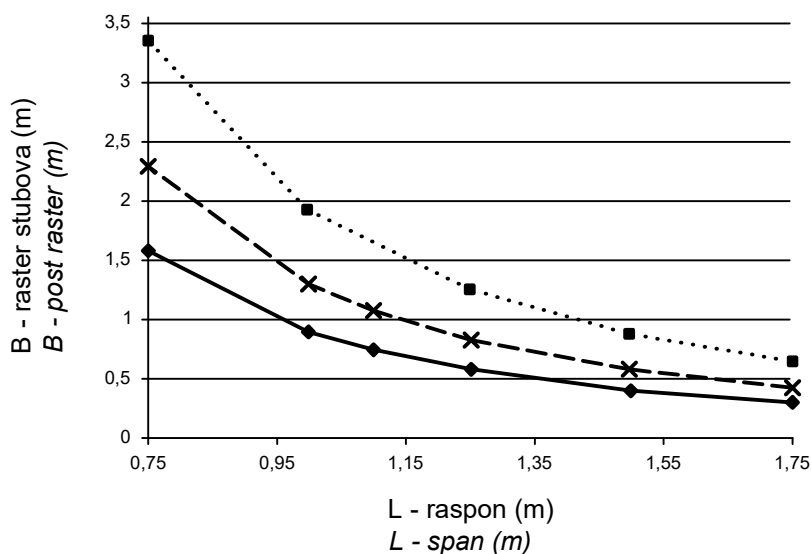
Proračun proste grede
Simple beam calculation



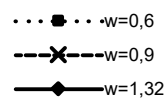
w - računski pritisak vetra (kN/m)
w - calculated wind pressure (kN/m)

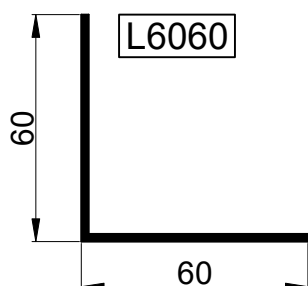


Proračun kontinualne grede
Continuous beam calculation

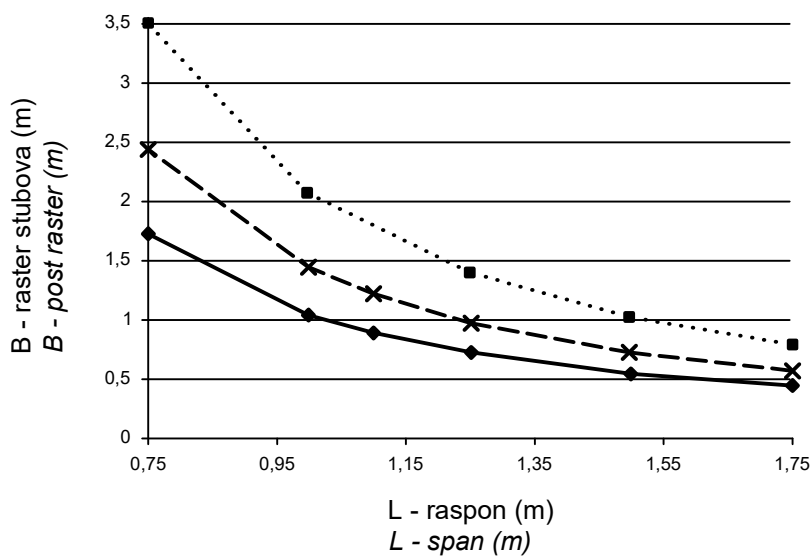


w - računski pritisak vetra (kN/m)
w - calculated wind pressure (kN/m)



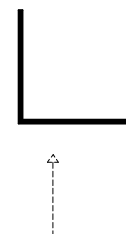


Proračun proste grede
Simple beam calculation



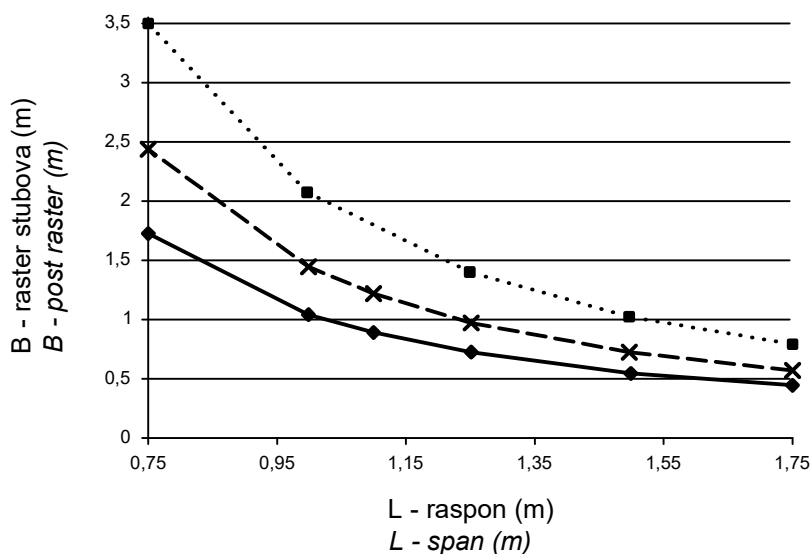
w - računski pritisak vetra (kN/m)
 w - calculated wind pressure (kN/m)

...■... $w=0.6$
---x--- $w=0.9$
—◆— $w=1.32$



pravac delovanja sile
force impact direction

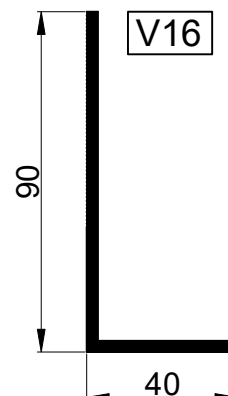
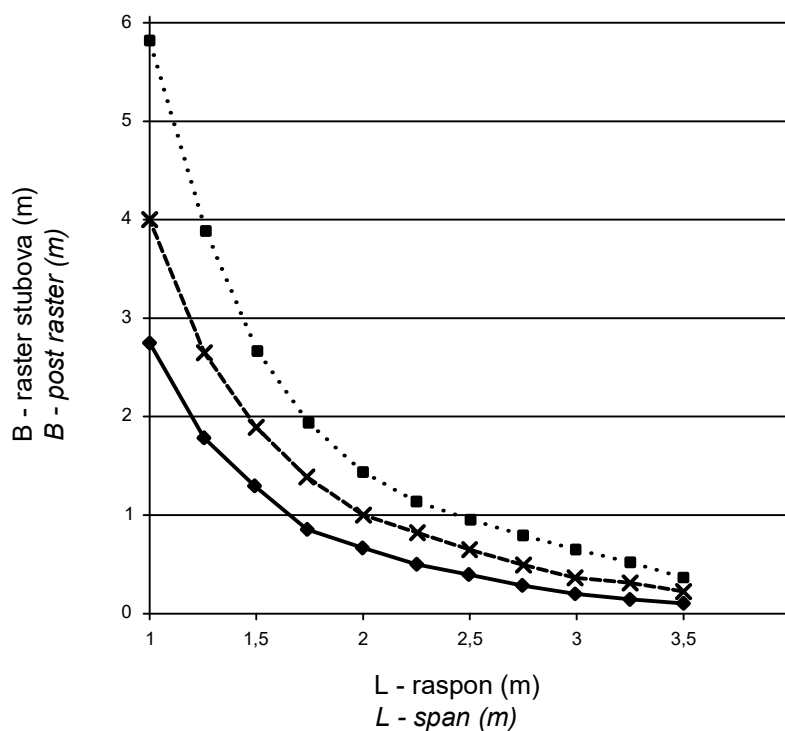
Proračun kontinualne grede
Continuous beam calculation



w - računski pritisak vetra (kN/m)
 w - calculated wind pressure (kN/m)

...■... $w=0.6$
---x--- $w=0.9$
—◆— $w=1.32$

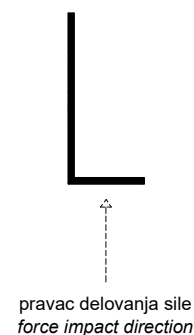
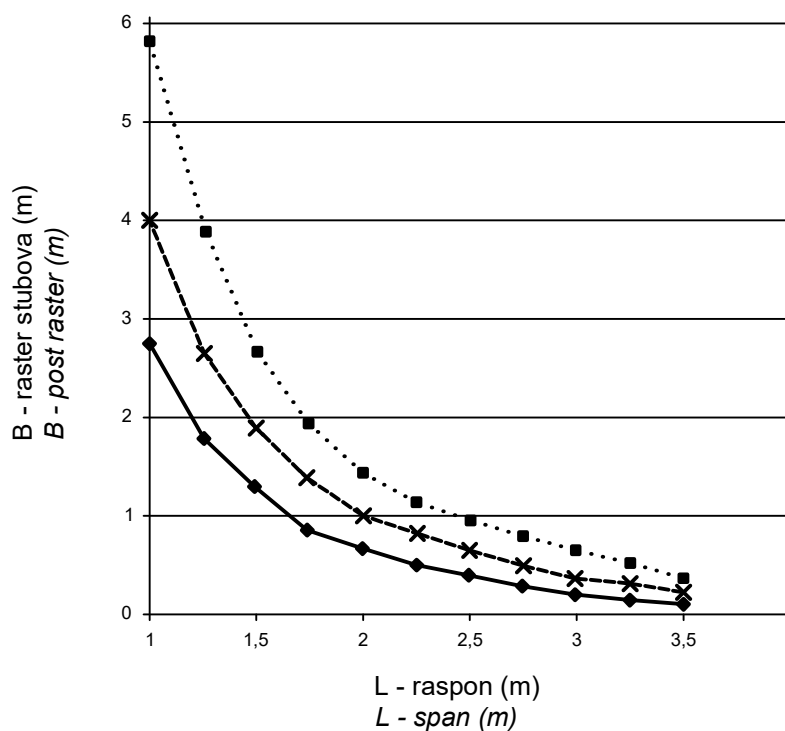
Proračun proste grede
Simple beam calculation



w - računski pritisak vetra (kN/m)
 w - calculated wind pressure (kN/m)

- ...■... $w=0,6$
- - - x - - - $w=0,9$
- ◆— $w=1,32$

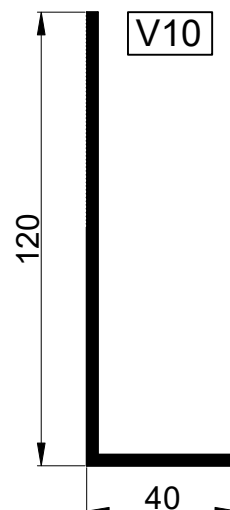
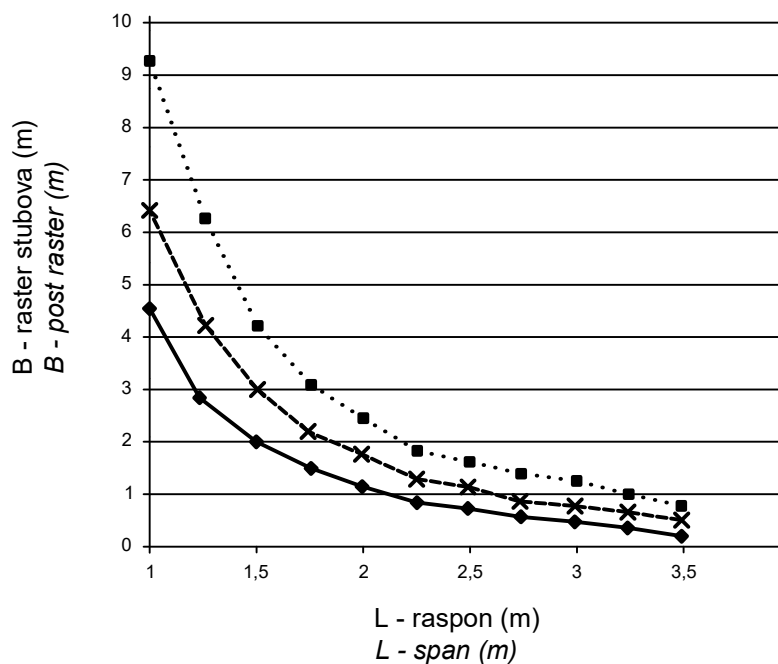
Proračun kontinualne grede
Continuous beam calculation



w - računski pritisak vetra (kN/m)
 w - calculated wind pressure (kN/m)

- ...■... $w=0,6$
- - - x - - - $w=0,9$
- ◆— $w=1,32$

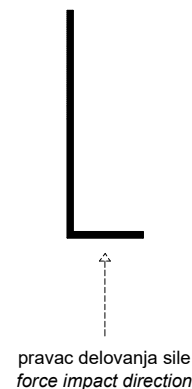
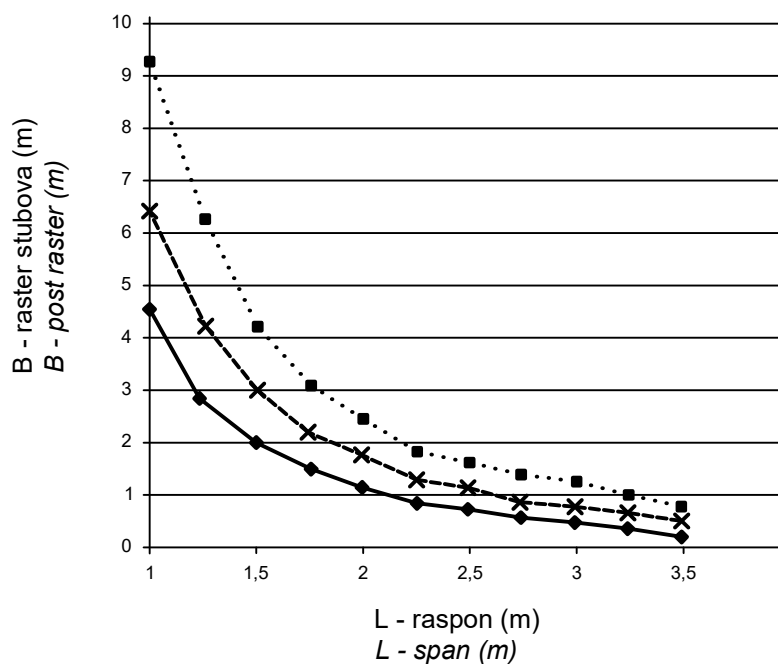
Proračun proste grede
Simple beam calculation



w - računski pritisak vetra (kN/m)
w - calculated wind pressure (kN/m)

.....■..... $w=0,6$
 ----×---- $w=0,9$
 —◆— $w=1,32$

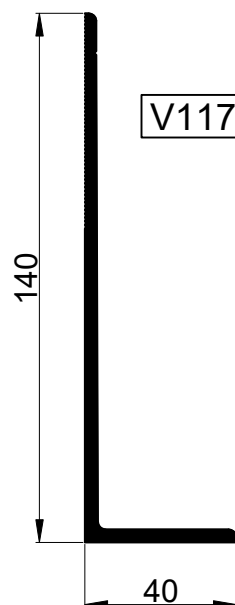
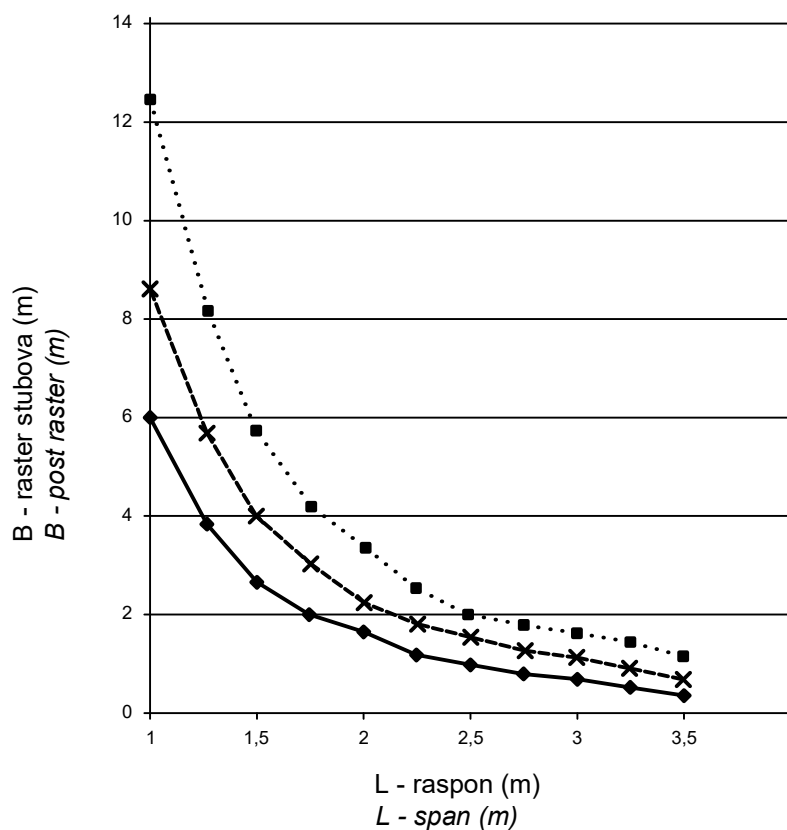
Proračun kontinualne grede
Continuous beam calculation



w - računski pritisak vetra (kN/m)
w - calculated wind pressure (kN/m)

.....■..... $w=0,6$
 ----×---- $w=0,9$
 —◆— $w=1,32$

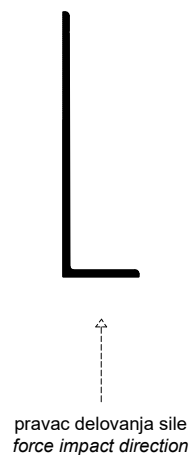
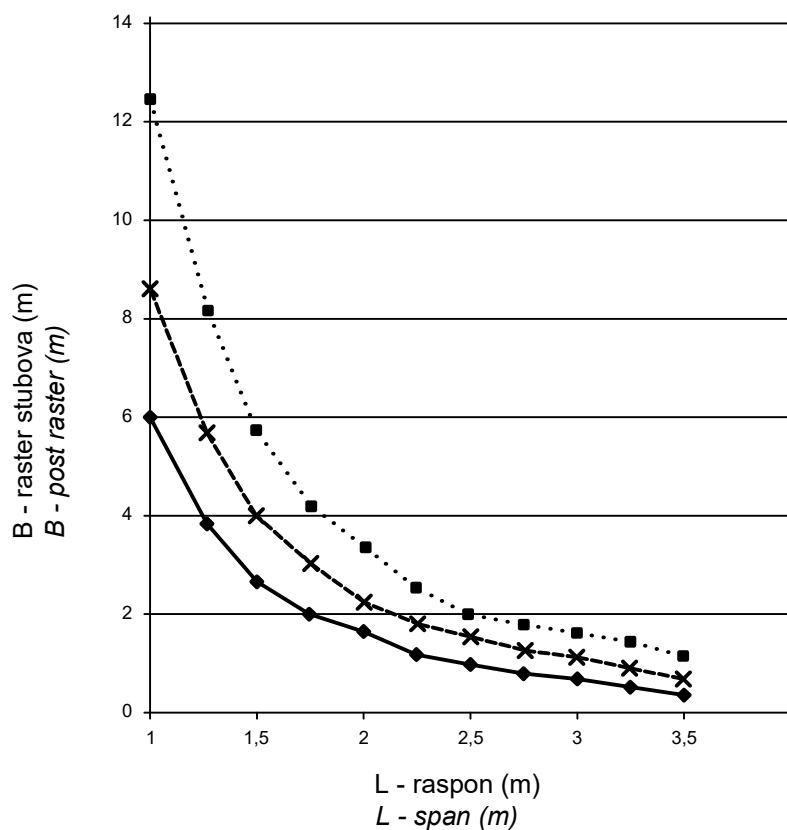
Proračun proste grede
Simple beam calculation



w - računski pritisak vetra (kN/m)
w - calculated wind pressure (kN/m)

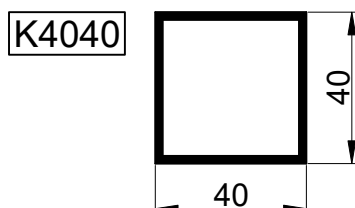
...■... w=0,6
- - - x - - - w=0,9
—◆— w=1,32

Proračun kontinualne grede
Continuous beam calculation

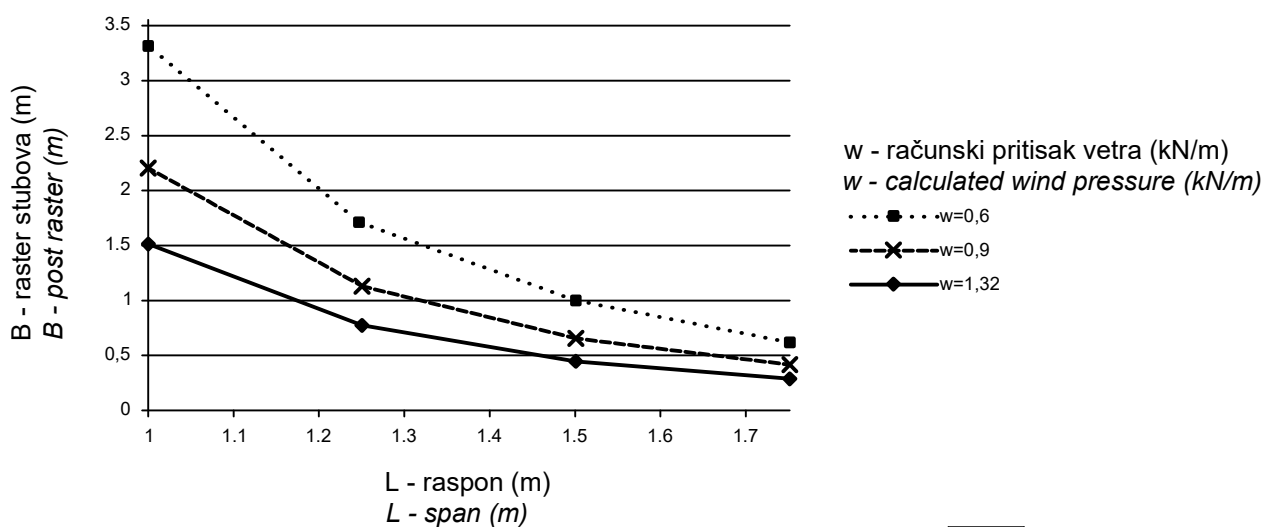


w - računski pritisak vetra (kN/m)
w - calculated wind pressure (kN/m)

...■... w=0,6
- - - x - - - w=0,9
—◆— w=1,32

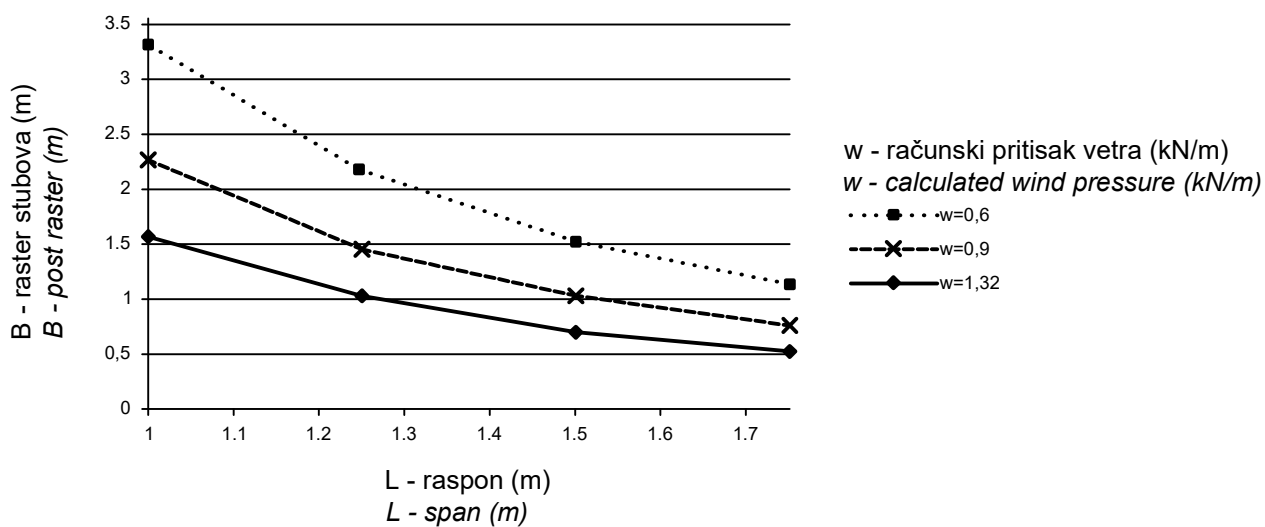


Proračun proste grede
Simple beam calculation



pravac delovanja sile
force impact direction

Proračun kontinualne grede
Continuous beam calculation



*Sistemi
Systems*

V  **NT**

Sistem
System

V  **NT** [rivet]



TEHNIČKI OPIS SISTEMA

Sistem aluminijumske potkonstrukcije namenjen prihvatanju ravnih ploča fiksnih vidljivom vezom sa lica fasade, u vidu pop-zakivaka ili vijaka. Ova pričvrstna sredstva mogu imati posebne, dekorativne glave za poseban efekat na fasadi, ili biti plastificirane u boju obloge kako bi bili što manje primetni. Pruža fleksibilnost u izboru obloge, njenom dizajnu i estetskom oblikovanju sa mogućnošću kombinovanja nepravilnih oblika i formi na fasadi.

Postupak montaže startuje sa razmeravanjem i obeležavanjem pozicija nosećih profila.

- a) Ekstrudirani noseći T ili L profili postavljaju se na objekat u projektovanom rasteru. Maksimalna preporučena dužina profila, kao i rastojanje između susednih vertikala, određuju se statičkim proračunom. Dužina profila ne može biti veća od 3500 mm, dok maksimalno rastojanje između susednih nosećih profila ne sme biti više od 1200 mm.
- b) Sistem Rivet omogućava udaljenje fasadne obloge od zida u rasponu od 64mm do 410mm*
- c) Podržane su fasadne obloge debljine od 1mm do 25mm
- d) Fiksiranje nosećih T ili L profila (kat. br. V06, V07, V08, V20, V95, L4060 i L6060) se vrši kotvama koje omogućavaju fino podešavanje aluminijumskih nosećih profila u svim pravcima, kako bi se dobila potpuno ravna površina fasade. Njihov spoj može biti fiksni ili dilatirajući zahvaljujući integrisanom rešenju koje omogućuje obe opcije, a spajanje se izvodi pomoću pop-zakivaka ili samourezujućim nerđajućim vijcima. U slučaju zahteva za prekidom termo mosta, ispod kotvi se montiraju specijalno dizajnirane plastične podloške.
- e) Fasadni paneli se seku na odgovarajuće dimenzije, uz opciono bušenje precizno pozicioniranih otvora za montažu (vodeći računa o dilataciji konstrukcije i obloge) na noseću potkonstrukciju. Tako pripremljeni paneli se montiraju na fasadu pomoću pop-zakivaka ili vijaka koji mogu biti obojeni u bilo koju boju predviđenu projektom. U ovom sistemu predviđena je fuga od 4mm do 40mm.

* ove dimenzije podržane su standardnim VENT sistemskim kotvama, za veća udaljenja pregledajte tehnički katalog (sekcije 5.19-5.24) i TMTK katalog



TECHNICAL SYSTEM DESCRIPTION

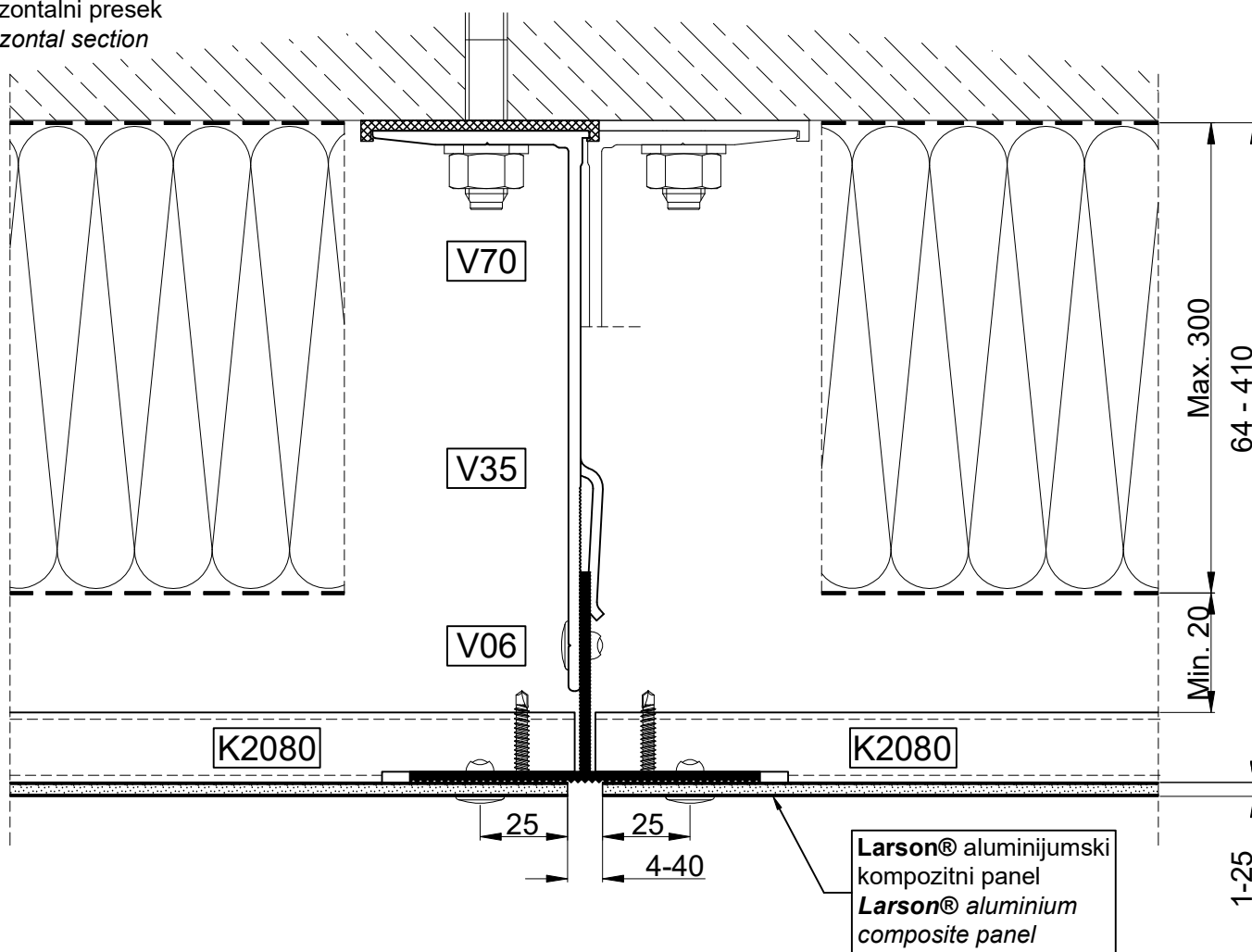
Aluminum substructure system designed for the installation of flat panels fixed with visible front-facing connections using pop rivets or screws. The fasteners may be equipped with special decorative heads to create a distinctive façade effect or powder-coated to match the cladding color in order to remain as discreet as possible. The system offers high flexibility in the selection of cladding materials, design, and aesthetic expression, including the possibility of combining irregular shapes and forms on the façade.

The installation process begins with surveying and marking the positions of the load-bearing profiles.

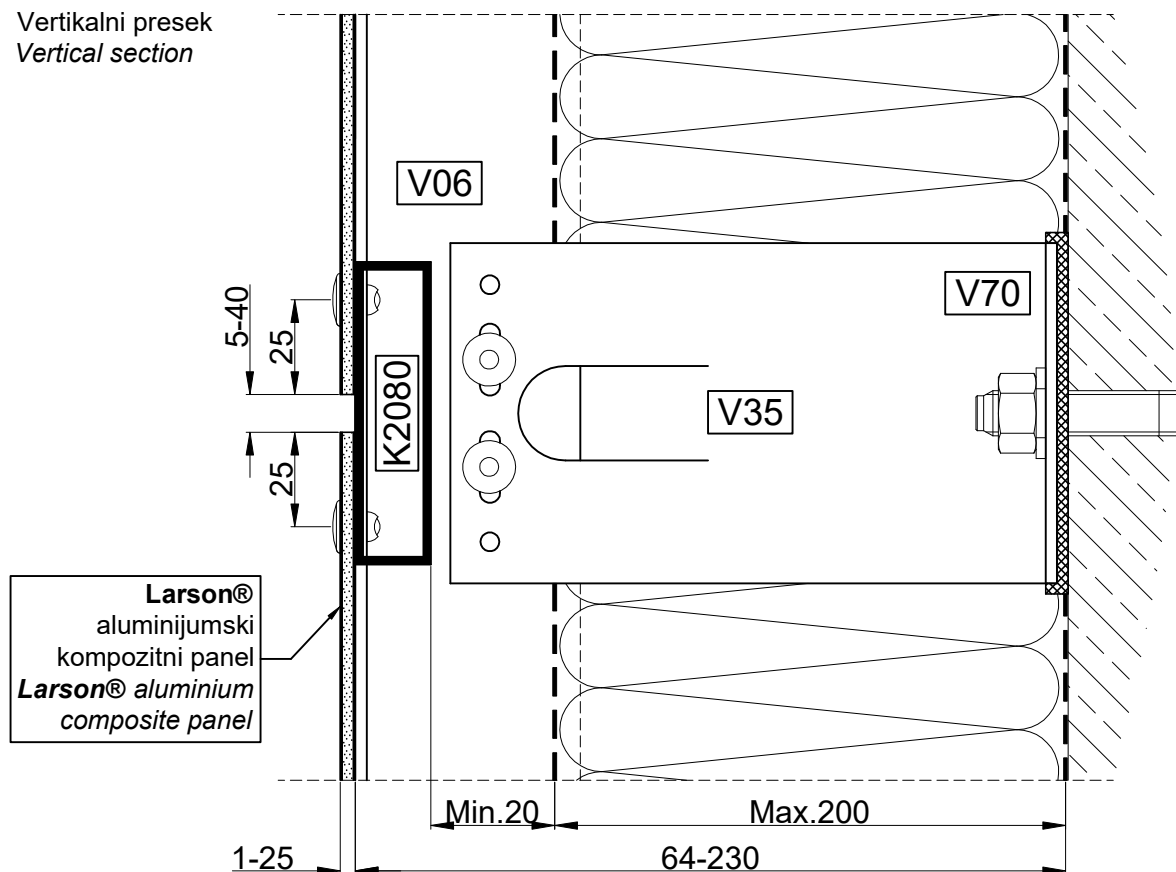
- a) Extruded load-bearing T or L profiles are installed on the building according to the designed grid. The maximum recommended profile length and the spacing between adjacent vertical profiles are determined by static calculations. The profile length must not exceed 3500 mm, while the maximum spacing between adjacent load-bearing profiles must not exceed 1200 mm.
- b) The Rivet system allows the façade cladding to be offset from the wall within a range of 64 mm to 410 mm*.
- c) Façade cladding panels with a thickness ranging from 1 mm to 25 mm are supported.
- d) Fixing of the load-bearing T or L profiles (cat. no. V06, V07, V08, V20, V95, L4060, L6060) is carried out using anchors that allow fine adjustment of the aluminum profiles in all directions, ensuring a perfectly planar façade surface. The connection can be either fixed or sliding, thanks to an integrated solution that allows both options. Connections are made using pop rivets or self-drilling stainless steel screws. Where thermal bridge interruption is required, specially designed plastic spacers are installed beneath the anchors.
- e) Façade panels are cut to the required dimensions, with optional drilling of precisely positioned fixing holes (taking into account thermal expansion of both the substructure and the cladding). The prepared panels are installed on the façade using pop rivets or screws, which may be colored according to project requirements. The system provides for a panel gap ranging from 4 mm to 40 mm.

* These dimensions are supported by standard VENT system anchors. For larger offsets, please refer to the technical catalogue (sections 5.19-5.24) and the TMTP catalogue.

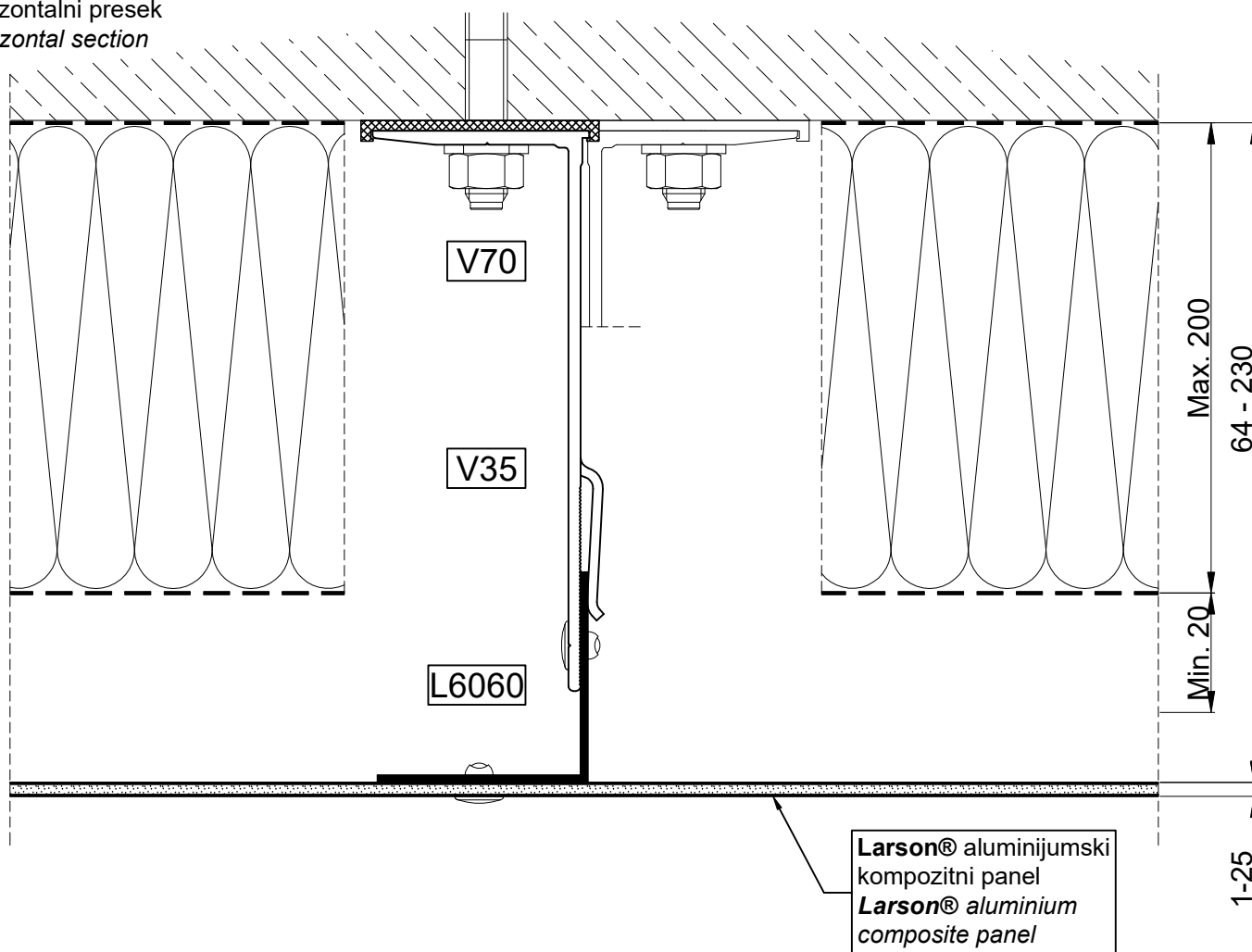
Horizontalni presek
Horizontal section



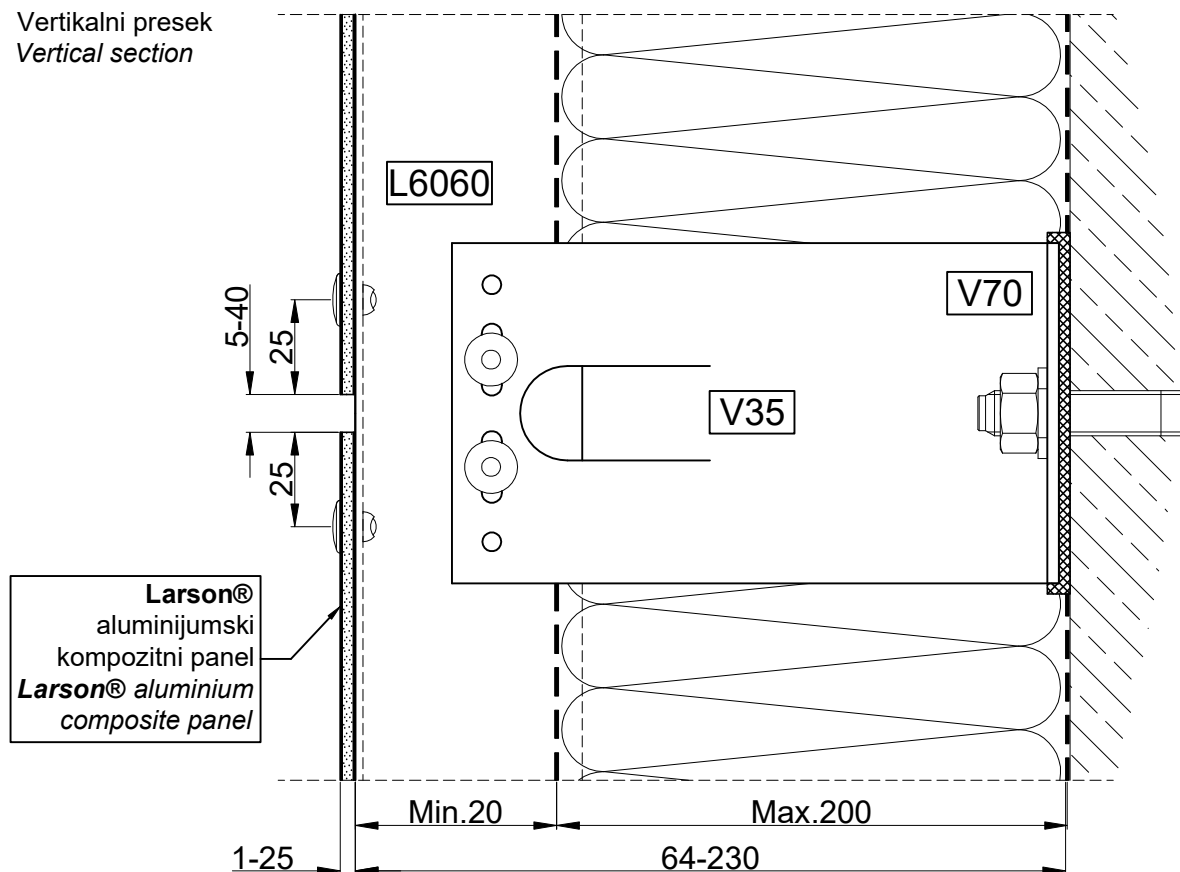
Vertikalni presek
Vertical section

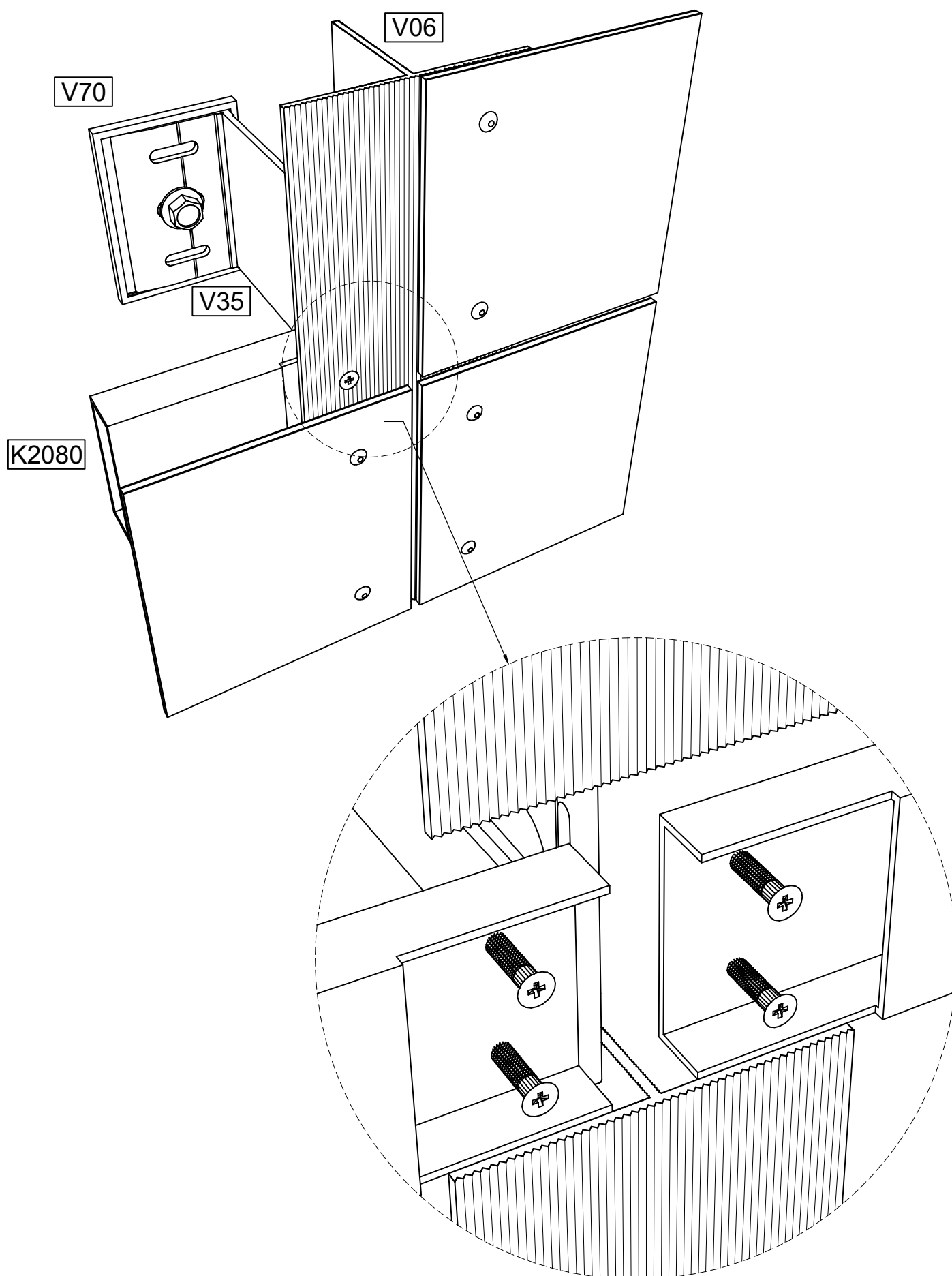


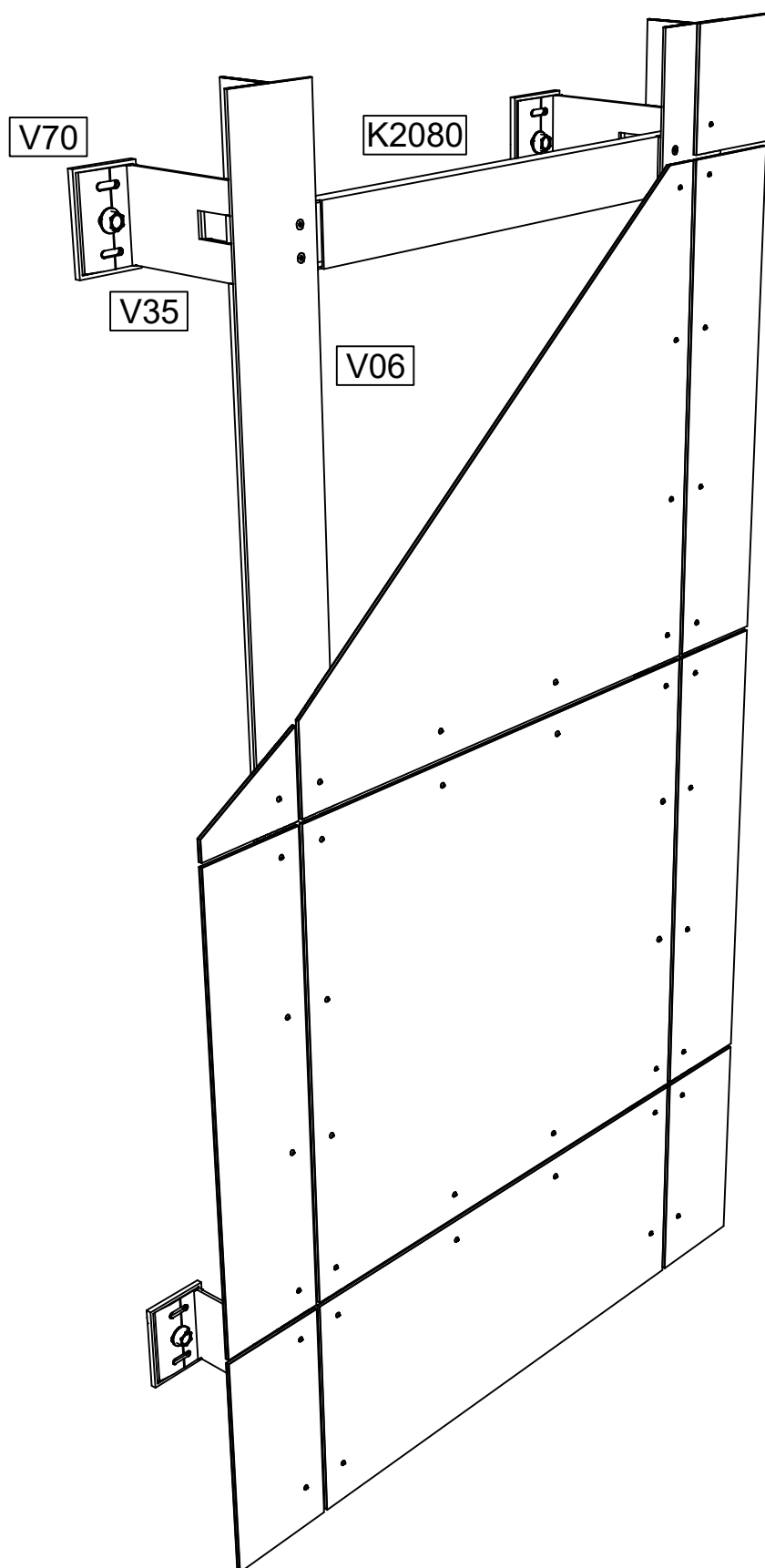
Horizontalni presek
Horizontal section

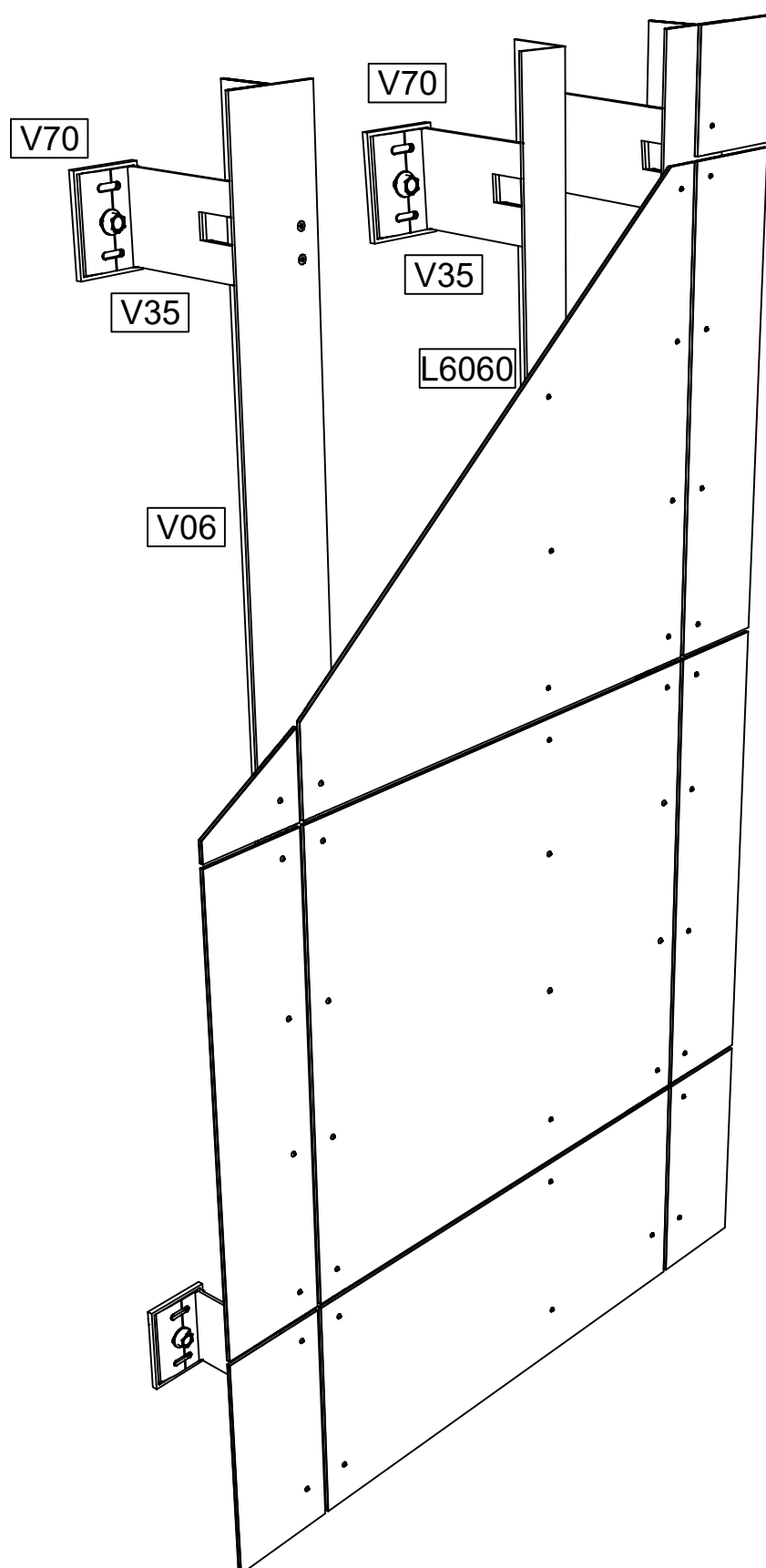


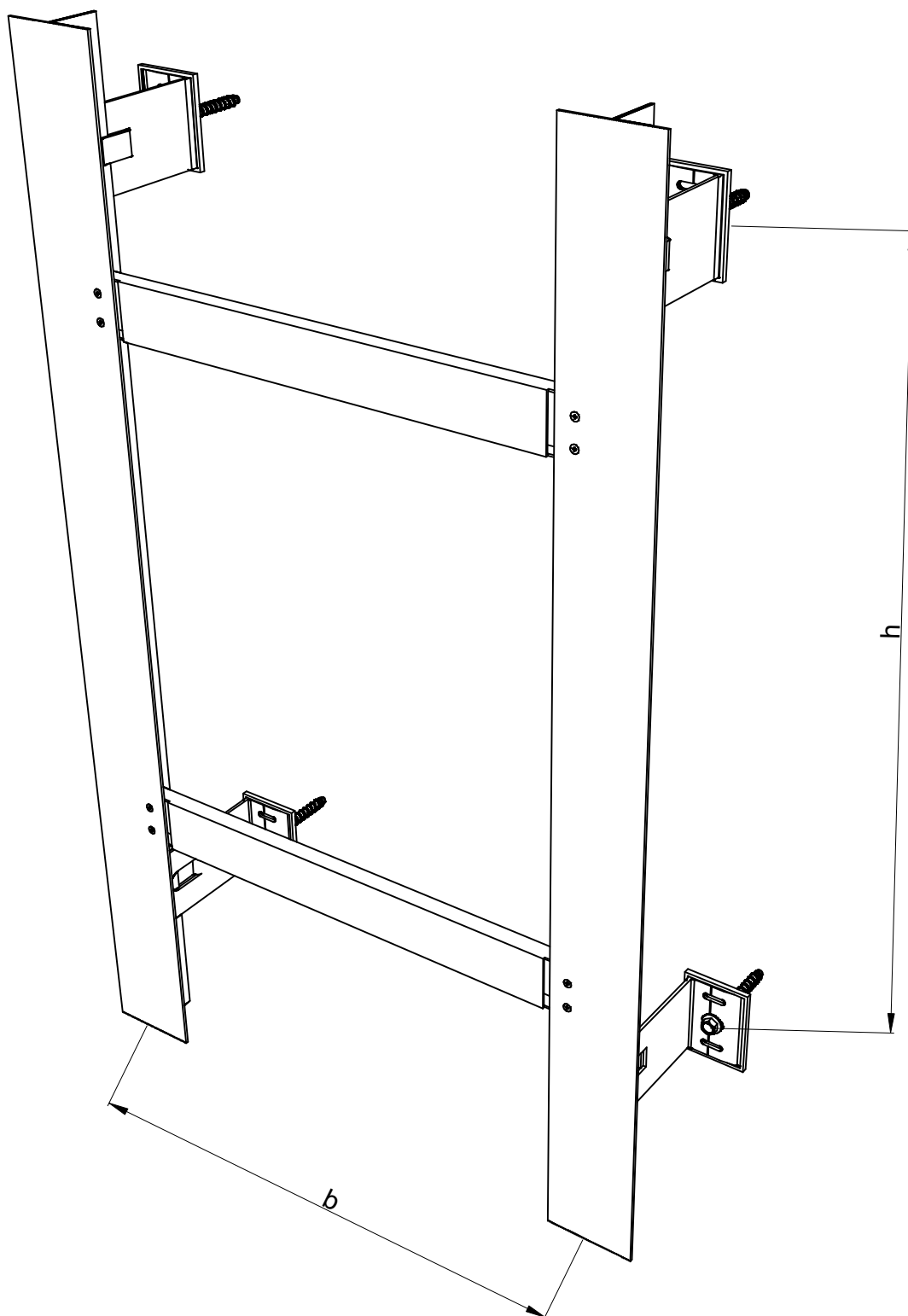
Vertikalni presek
Vertical section



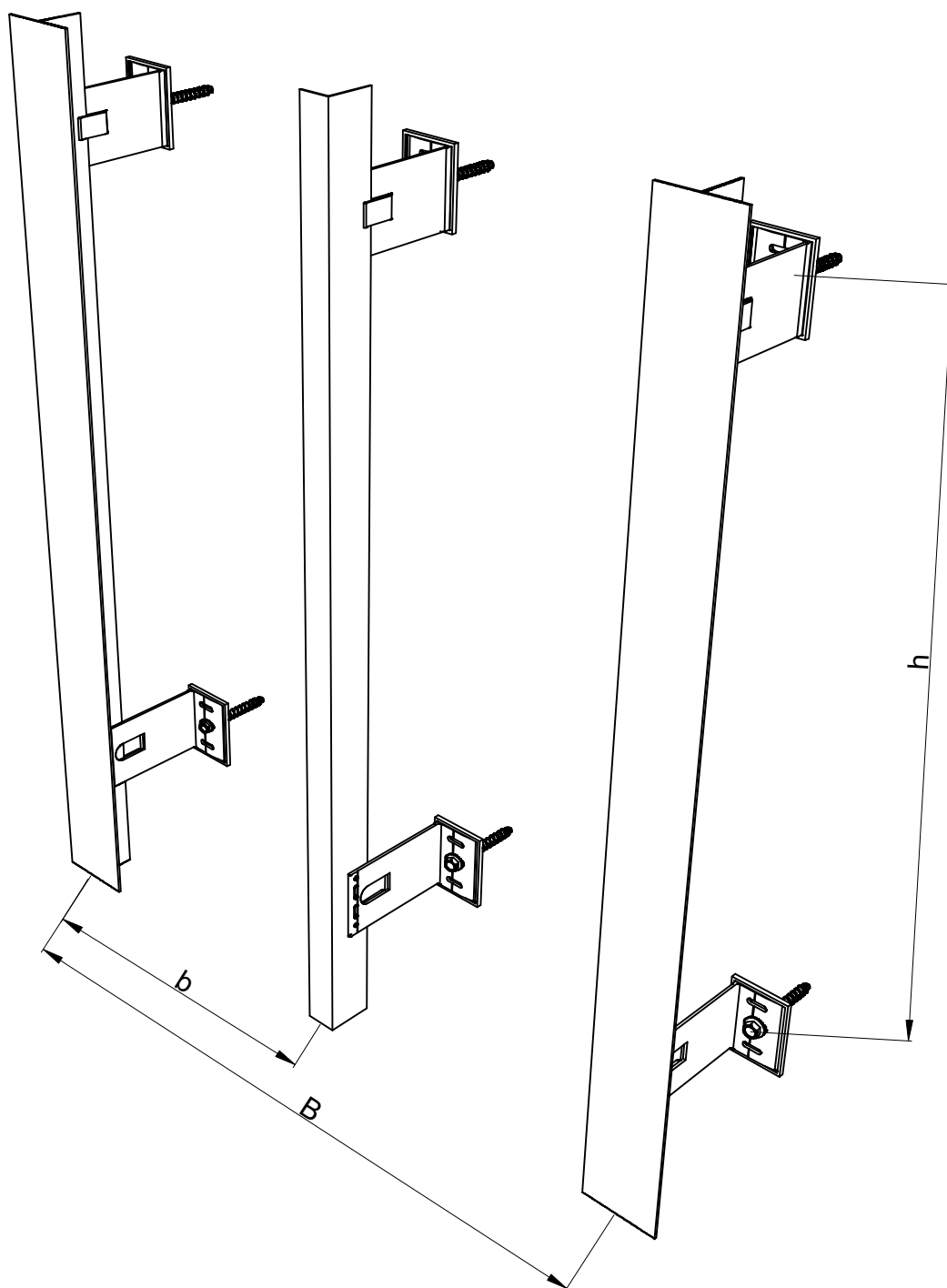








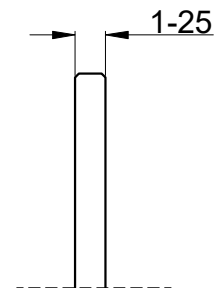
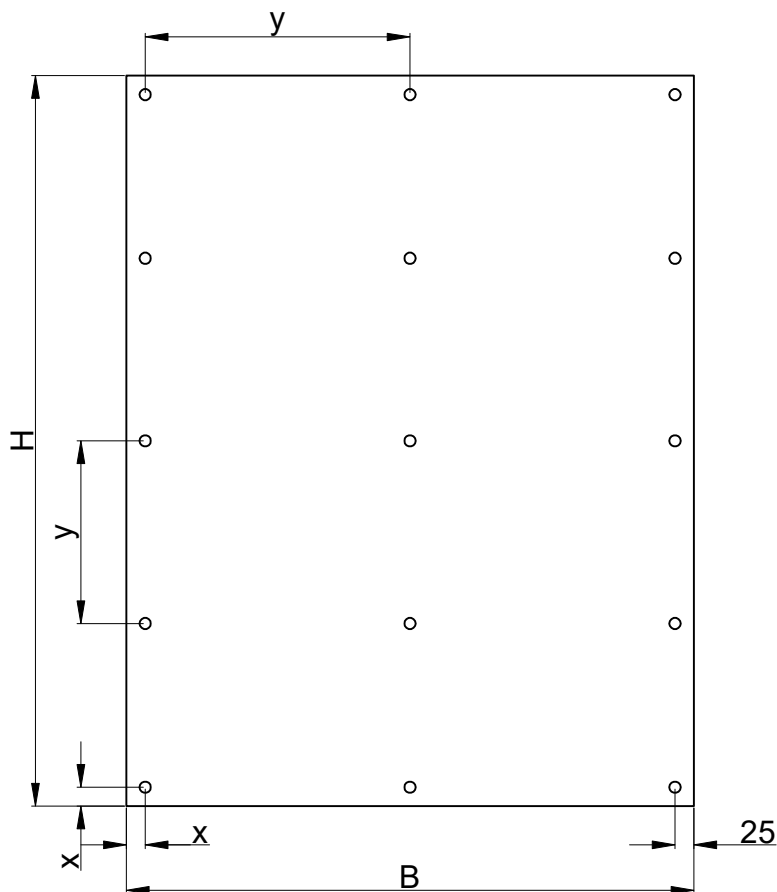
b, h - prema statičkom proračunu, ali ne više od 1200mm
b, h - according to structural analysis, but no more than 1200mm



b - prema statičkom proračunu, i u skladu sa primenjenom fasadnom oblogom, ali ne više od 1200 mm
b - according to structural analysis and the applied facade finish, but no more than 1200mm

h - prema statičkom proračunu i u skladu sa primenjenom finalnom fasadnom oblogom, ali ne više od 1200mm
h - according to structural analysis and the applied facade finish, but no more than 1200mm

B - u zavisnosti od odabira proizvodne širine panela
B - depending on the selected panel's production width

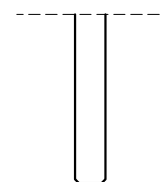


Debljina panela - maks. 25mm

Panel thickness - max. 25mm

Vrste panela - aluminijumski kompozitni paneli
(npr. **Larson®**, **Larcore®A2**), HPL,
Equitone® ploče, aluminijumski lim itd.

Panel types - aluminium composite panels
(e.g. **Larson®**, **Larcore®A2**), HPL, **Equitone®** panels,
aluminium sheet etc.



B - projektovana širina panela - uz ograničenja prema specifikaciji proizvođača panela

B - designed panel width - within limitations according to specification by manufacturer

H - projektovana visina panela - uz ograničenja prema specifikaciji proizvođača panela

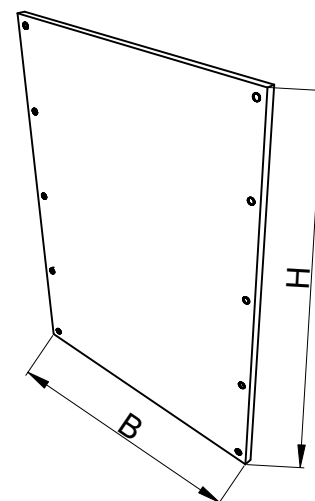
H - designed panel height - within limitations according to specification by manufacturer

x - u zavisnosti od odabira materijala obloge - ne manje od 25mm

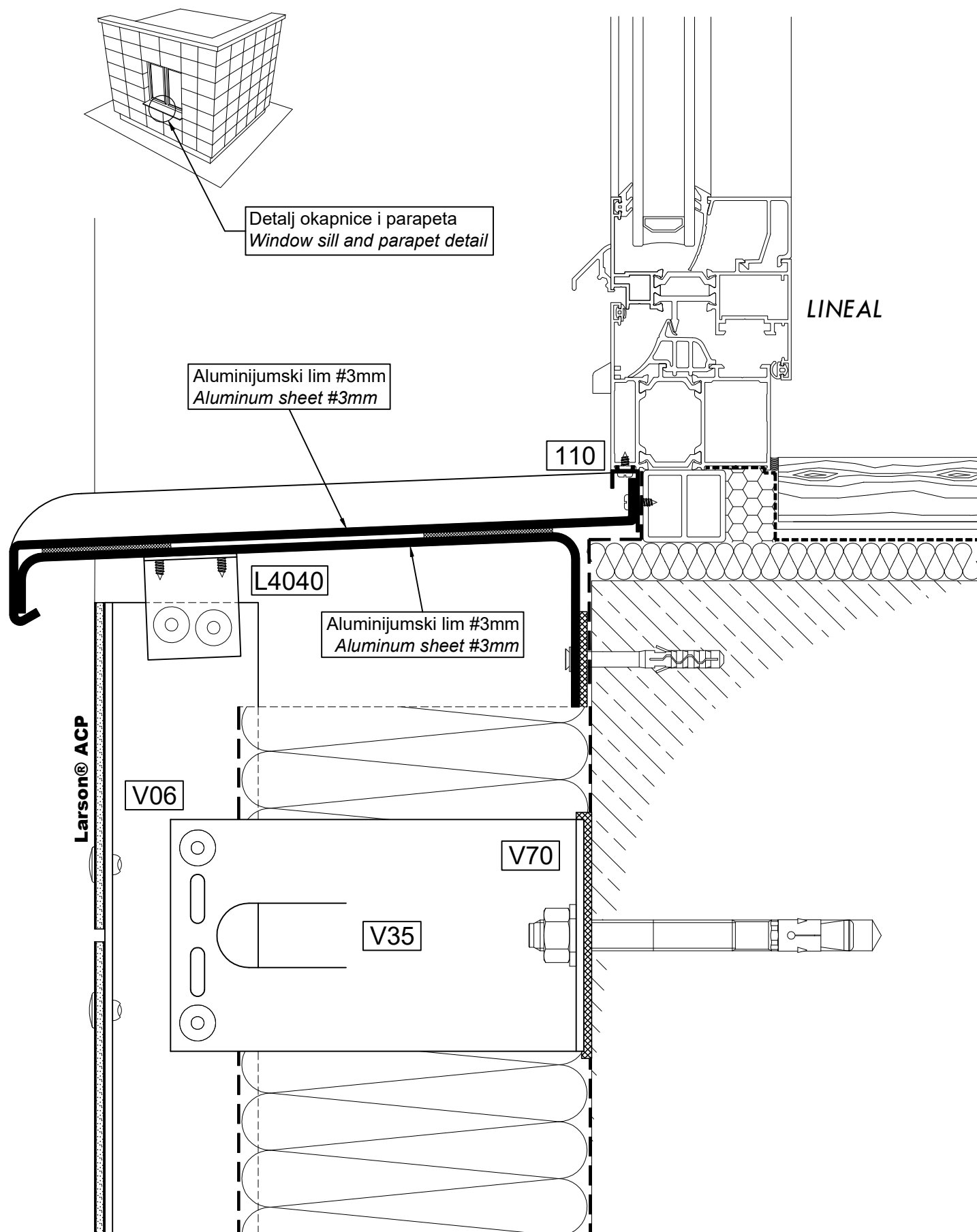
x - depending on the selection of cladding material - not less than 25mm

y - u zavisnosti od odabira materijala obloge i statičkog proračuna - ne više od 300mm

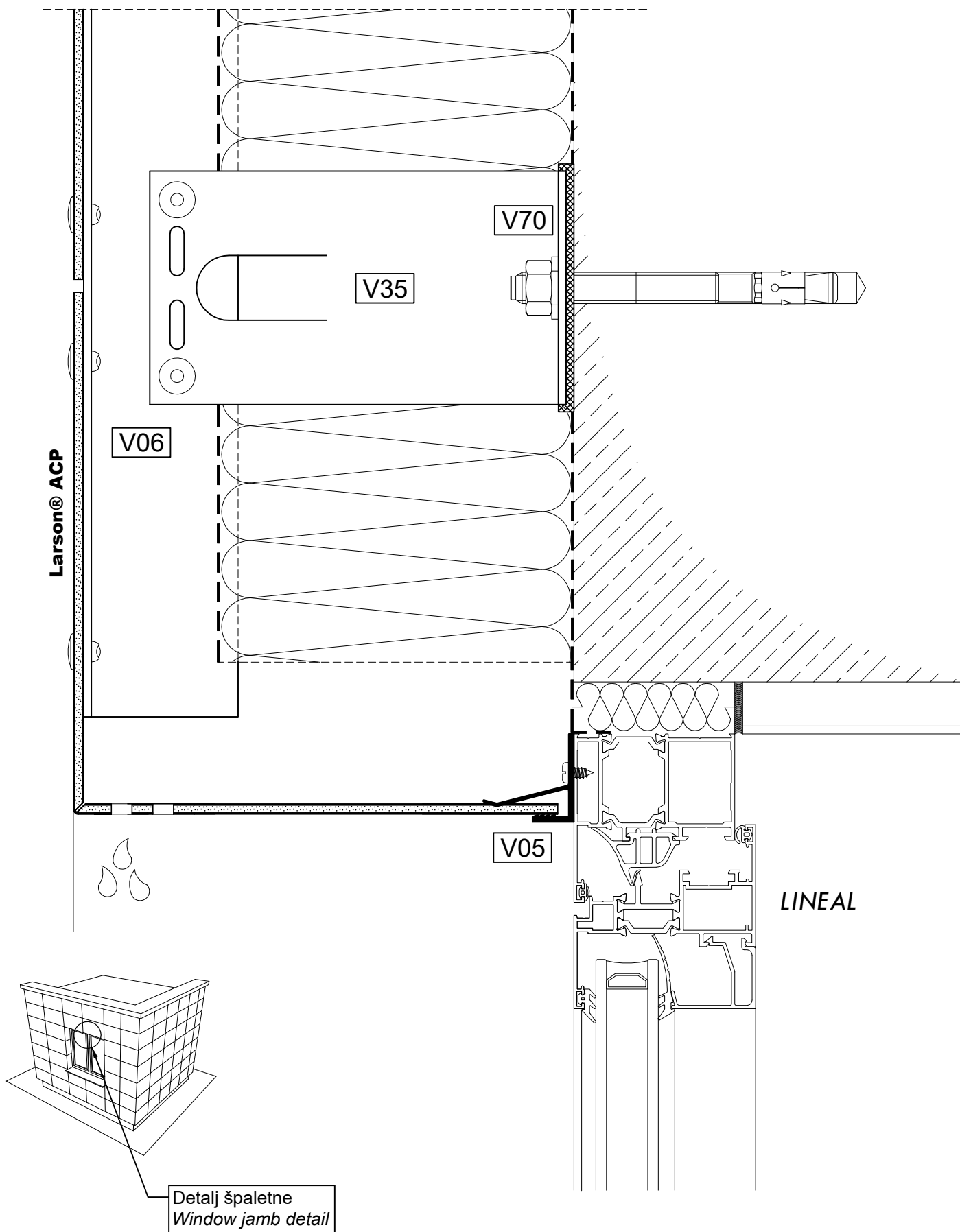
y - depending on the selection of cladding material and structural analysis - not more than 300mm



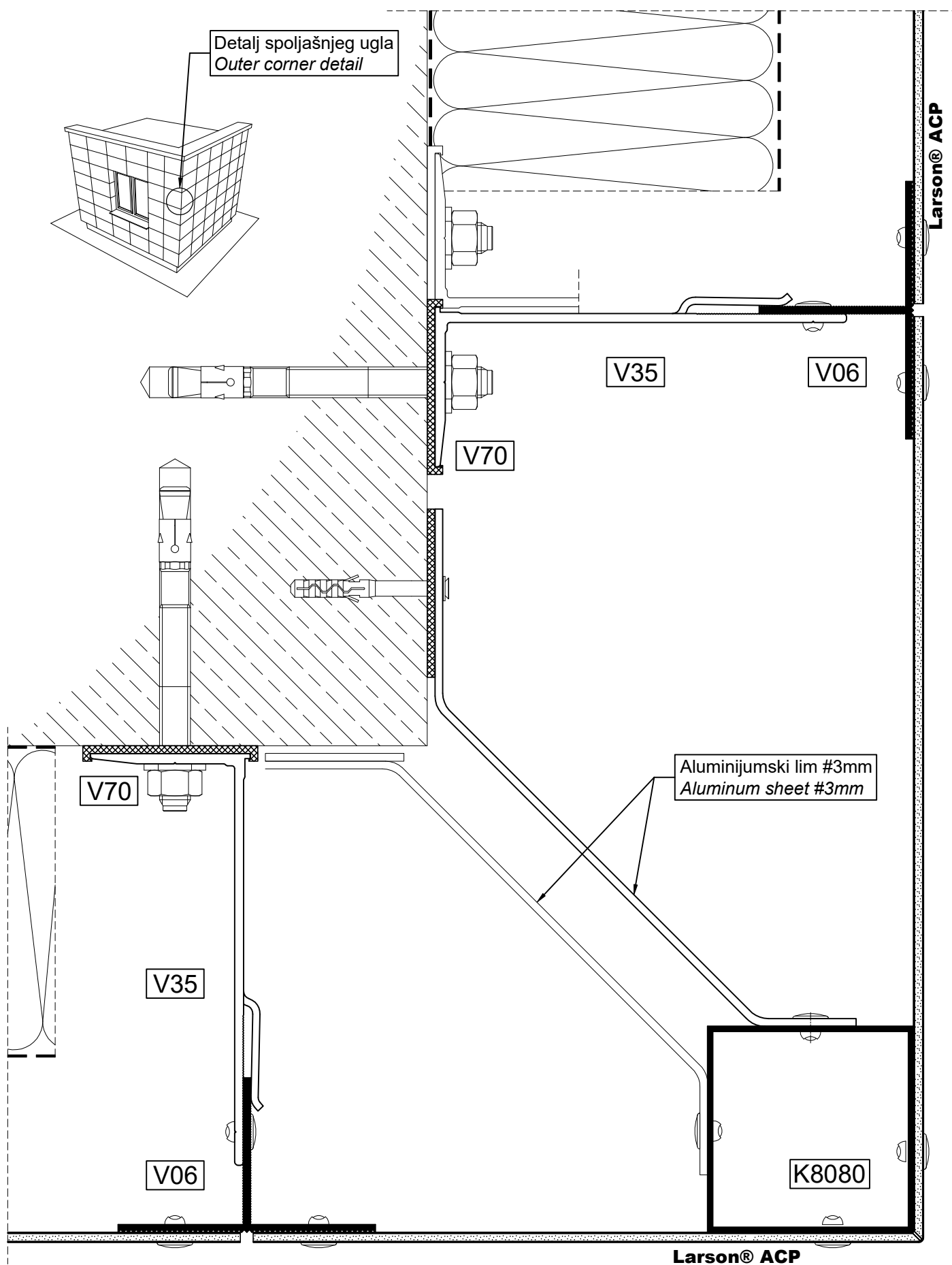
Vertikalni presek
Vertical section



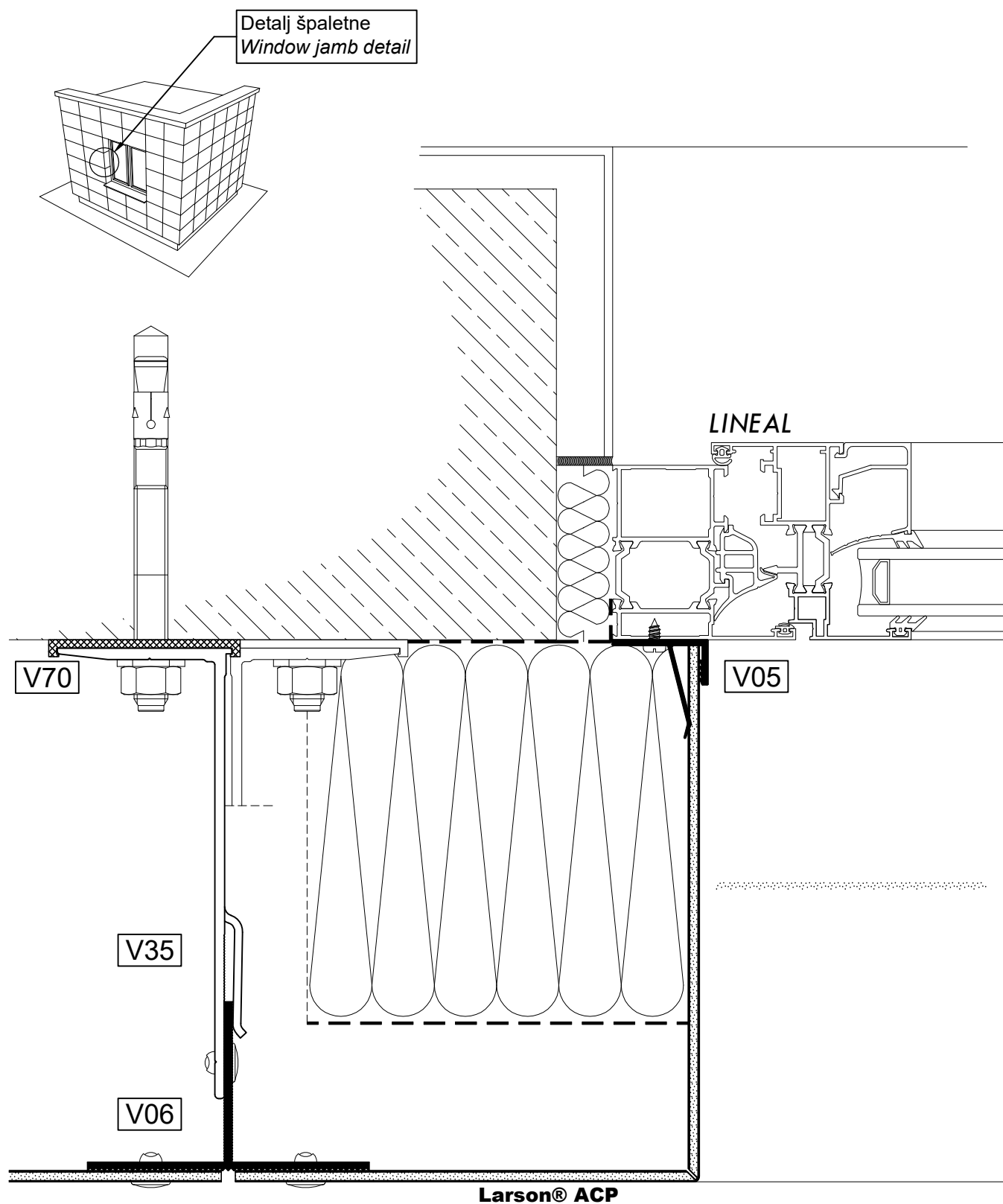
Vertikalni presek
Vertical section



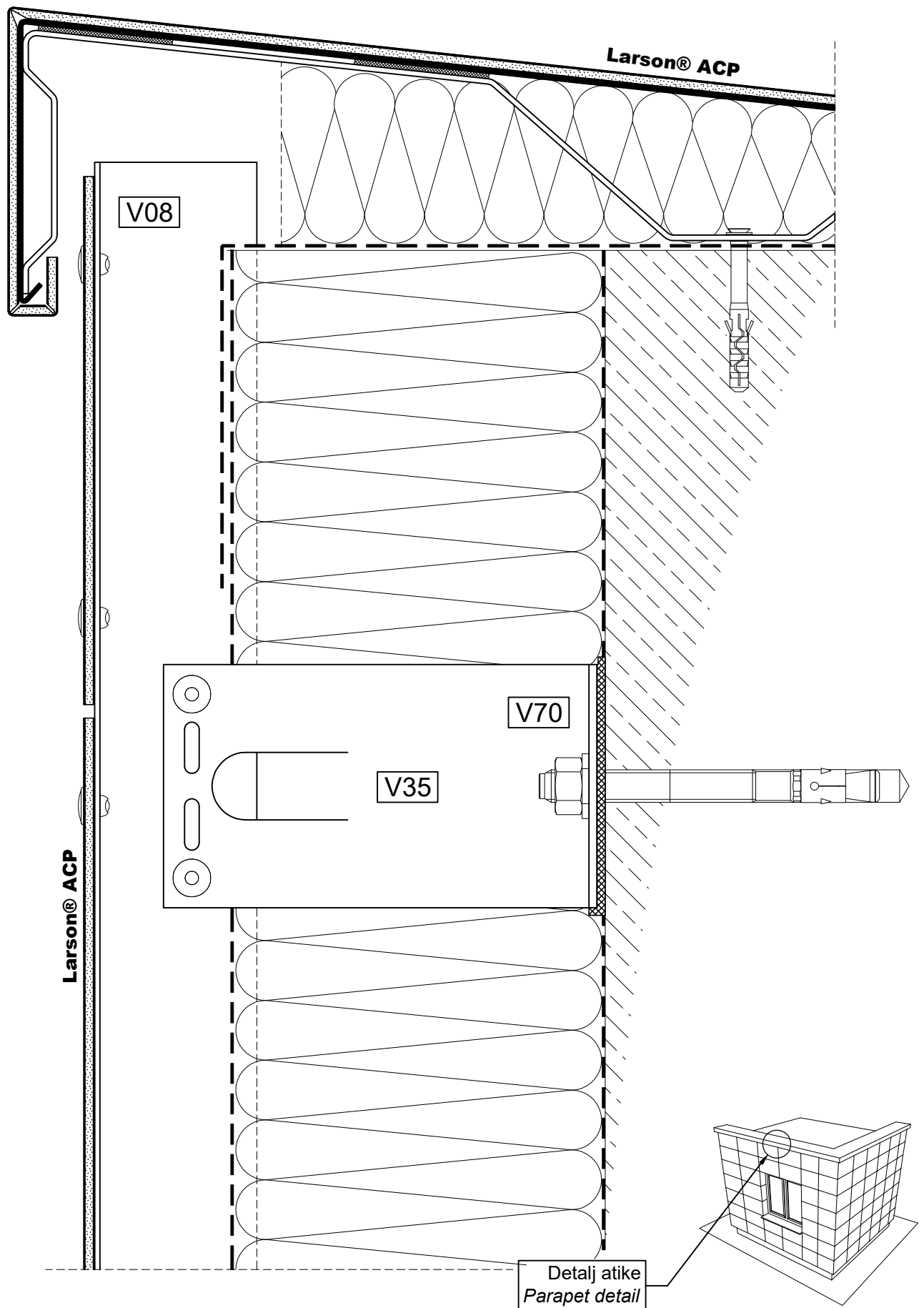
Horizontalni presek
Horizontal section



Horizontalni presek
Horizontal section

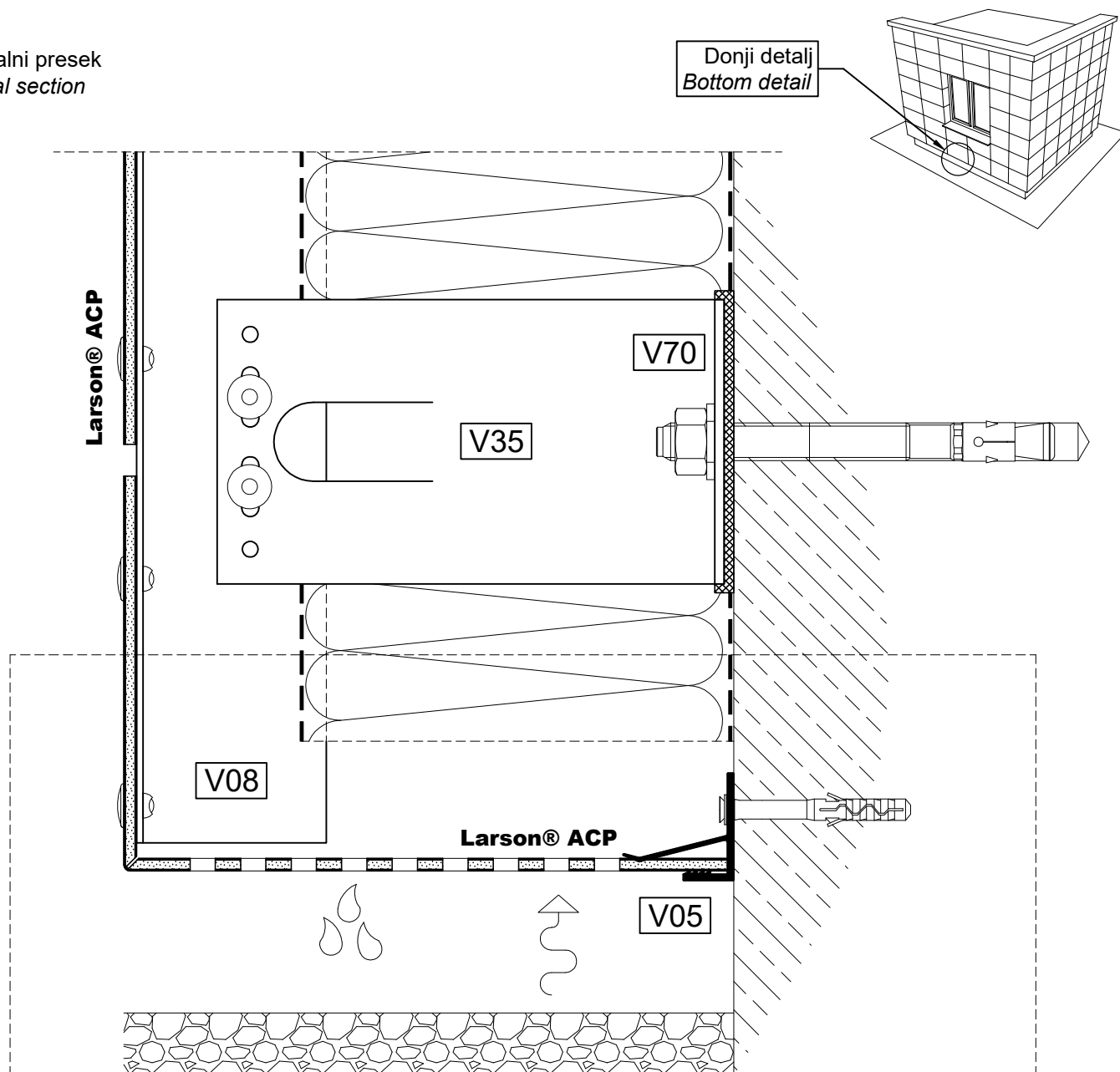


Vertikalni presek
Vertical section

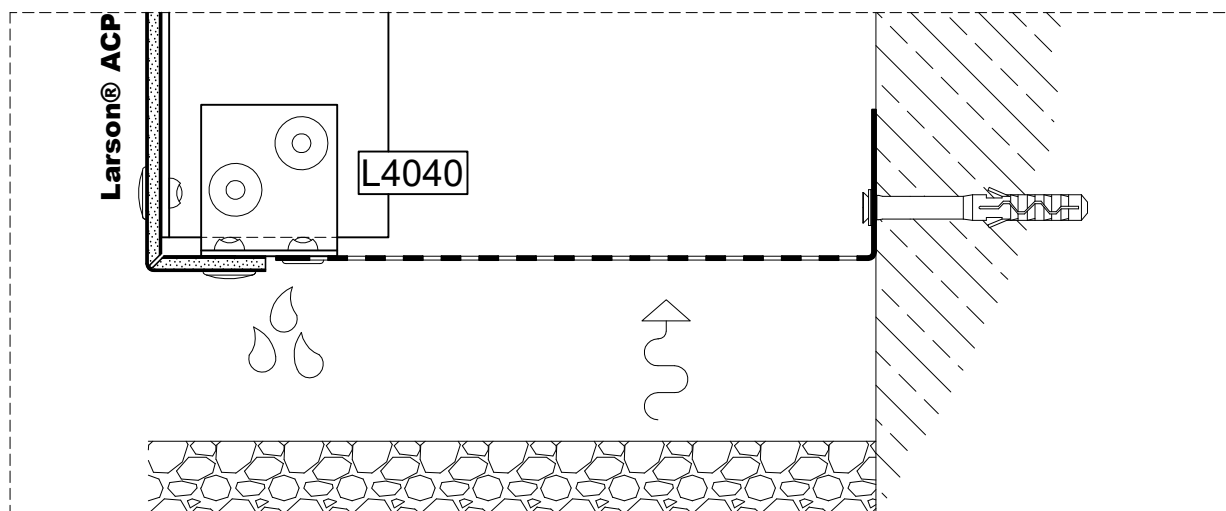


Vertikalni presek
Vertical section

Donji detalj
Bottom detail

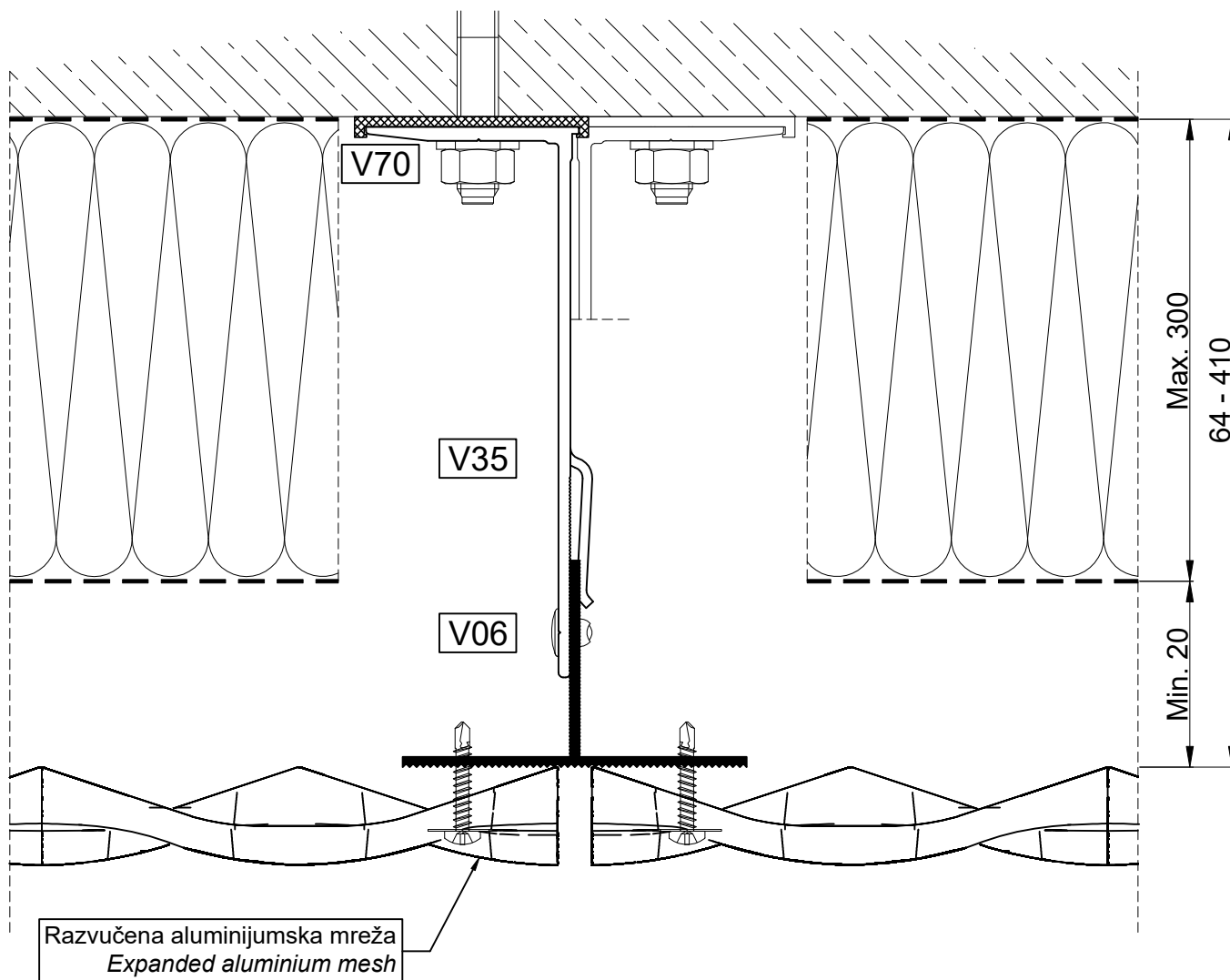


Opcija drenaže: perforirani aluminijumski kompozitni panel
Drainage option: perforated aluminium composite panel

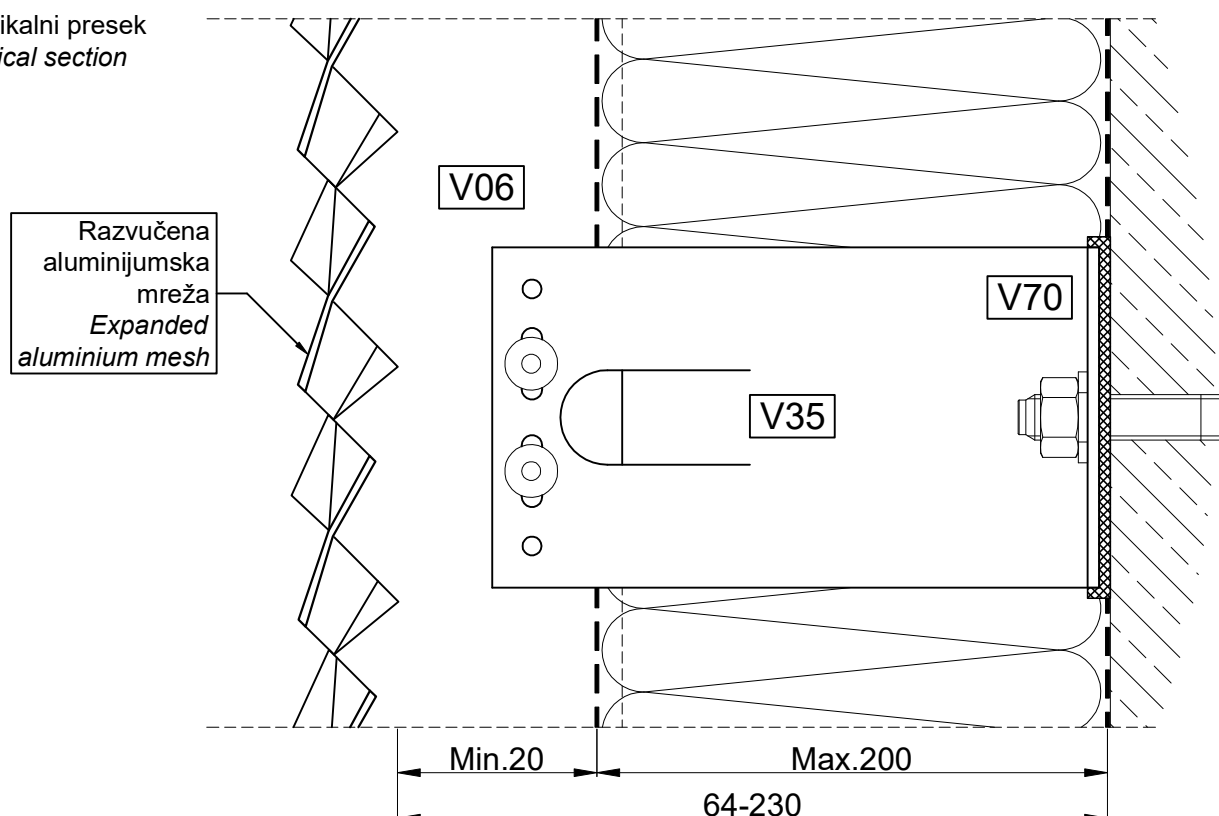


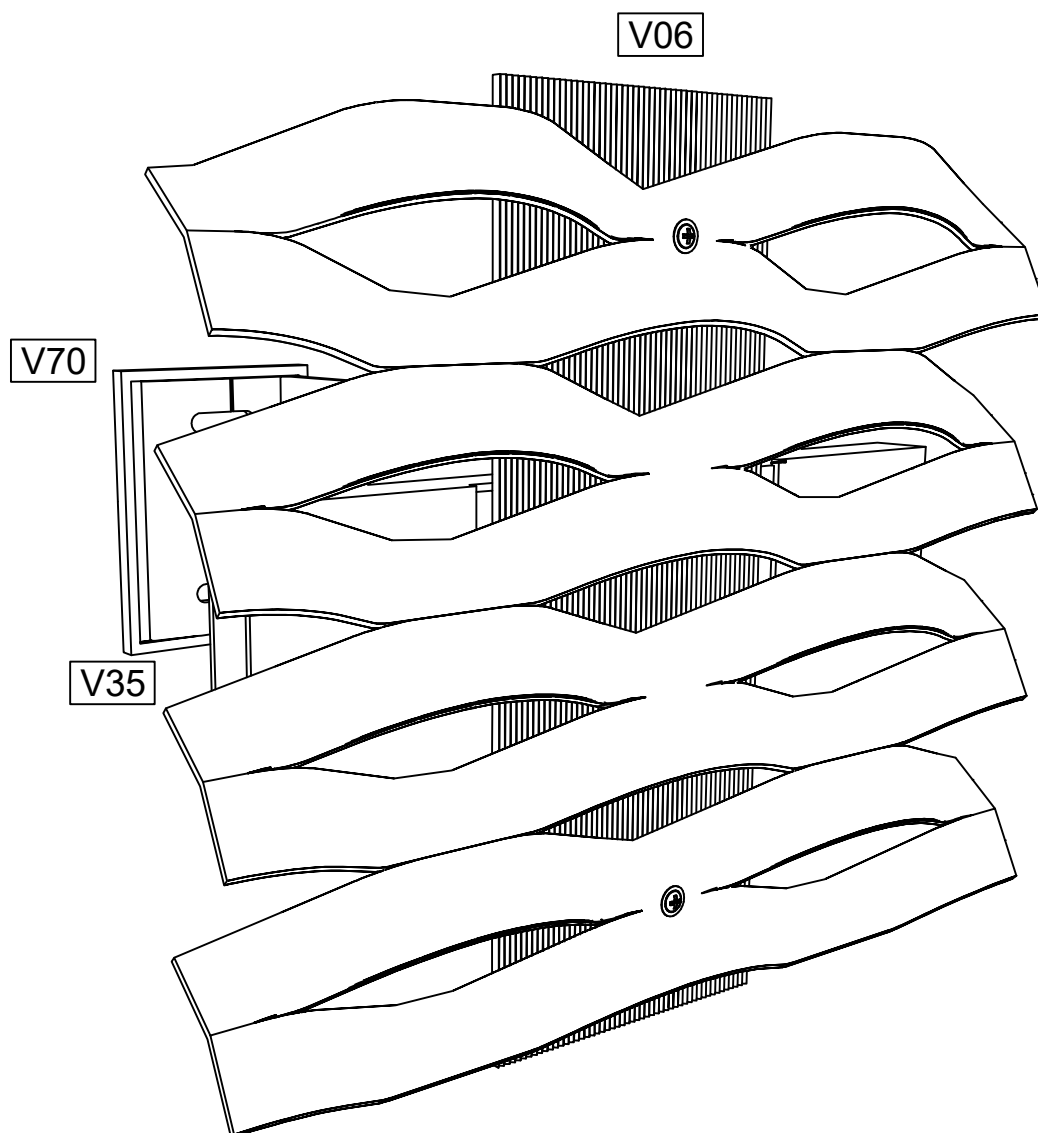
Opcija drenaže: perforirani aluminijumski lim
Drainage option: perforated aluminium sheet

Horizontalni presek
Horizontal section



Vertikalni presek
Vertical section





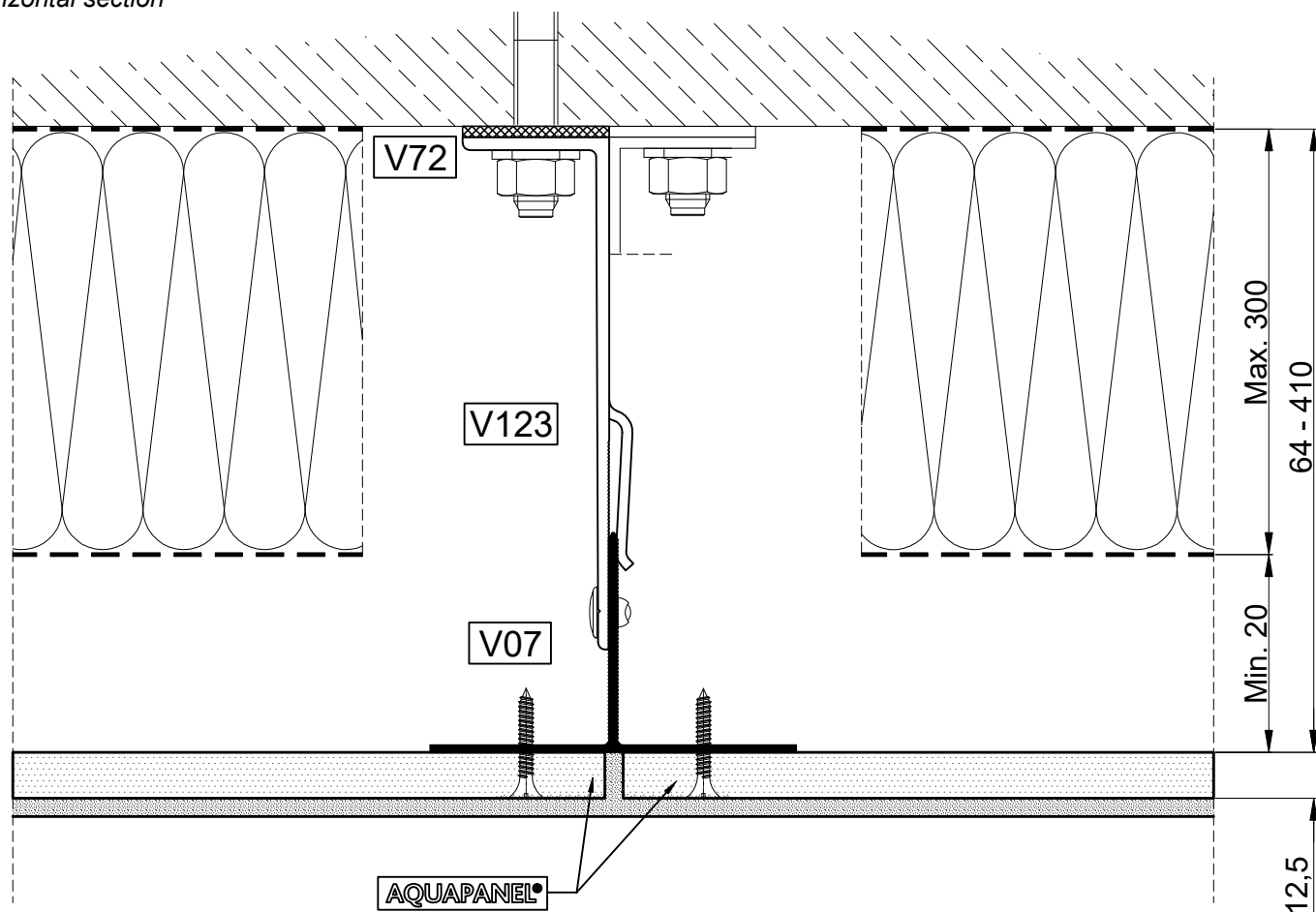
*Prezentovani detalj predstavlja samo predlog rešenja u sistemu VENT Rivet. Svaki tip mreže, njena dispozicija na/u objektu i njena funkcija će usloviti rešenje koje mora biti statički provereno za svaki konkretan slučaj.

**The presented detail is merely a preliminary technical solution in system VENT Rivet. Every individual mesh type, its disposition on/in the building and its function would condition a technical solution that must be structurally analysed for every particular situation.*

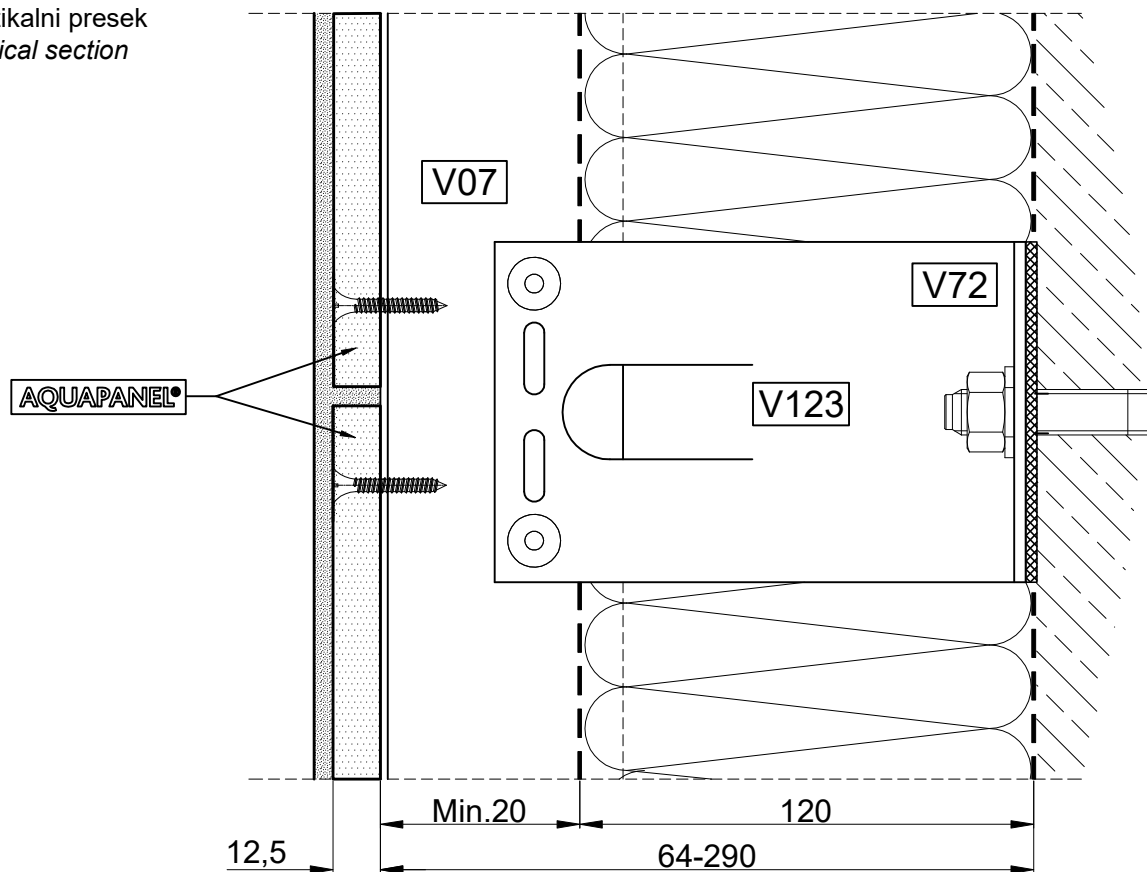
*Tehničko rešenje je validno za određene tipove mreže. U toku izbora mustre, konsultovati se sa prodajno-tehničkom službom.

**Technical solution is valid for certain mesh types. When deciding on a mesh type, consult the commercial and technical department.*

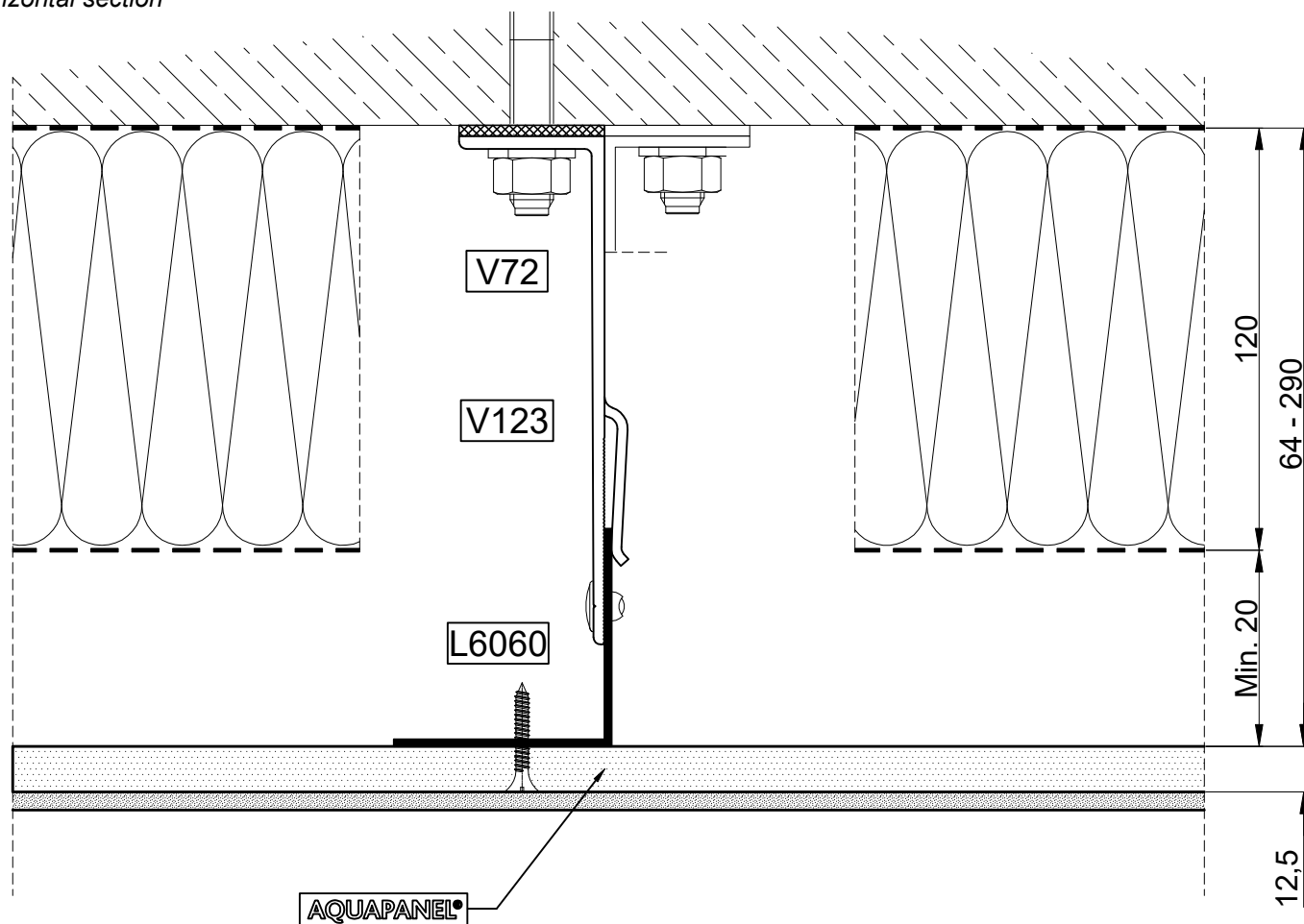
Horizontalni presek
Horizontal section



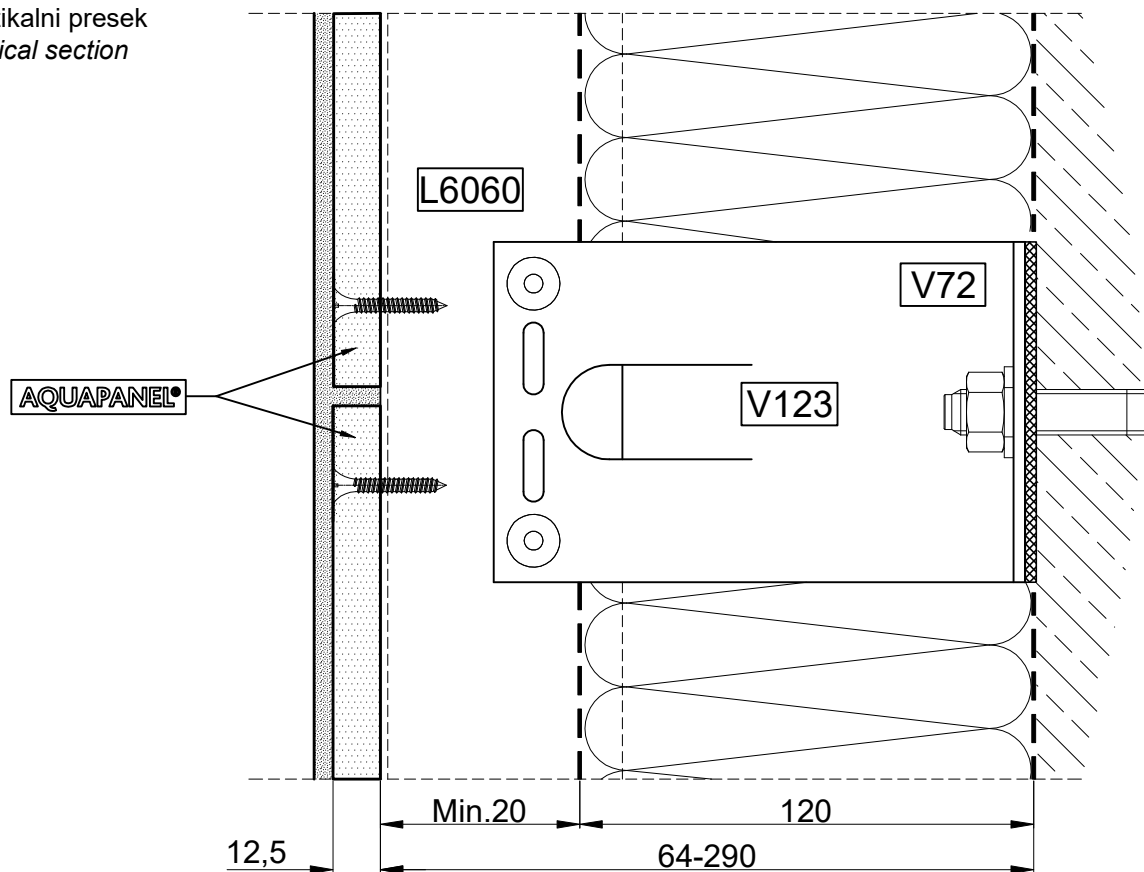
Vertikalni presek
Vertical section

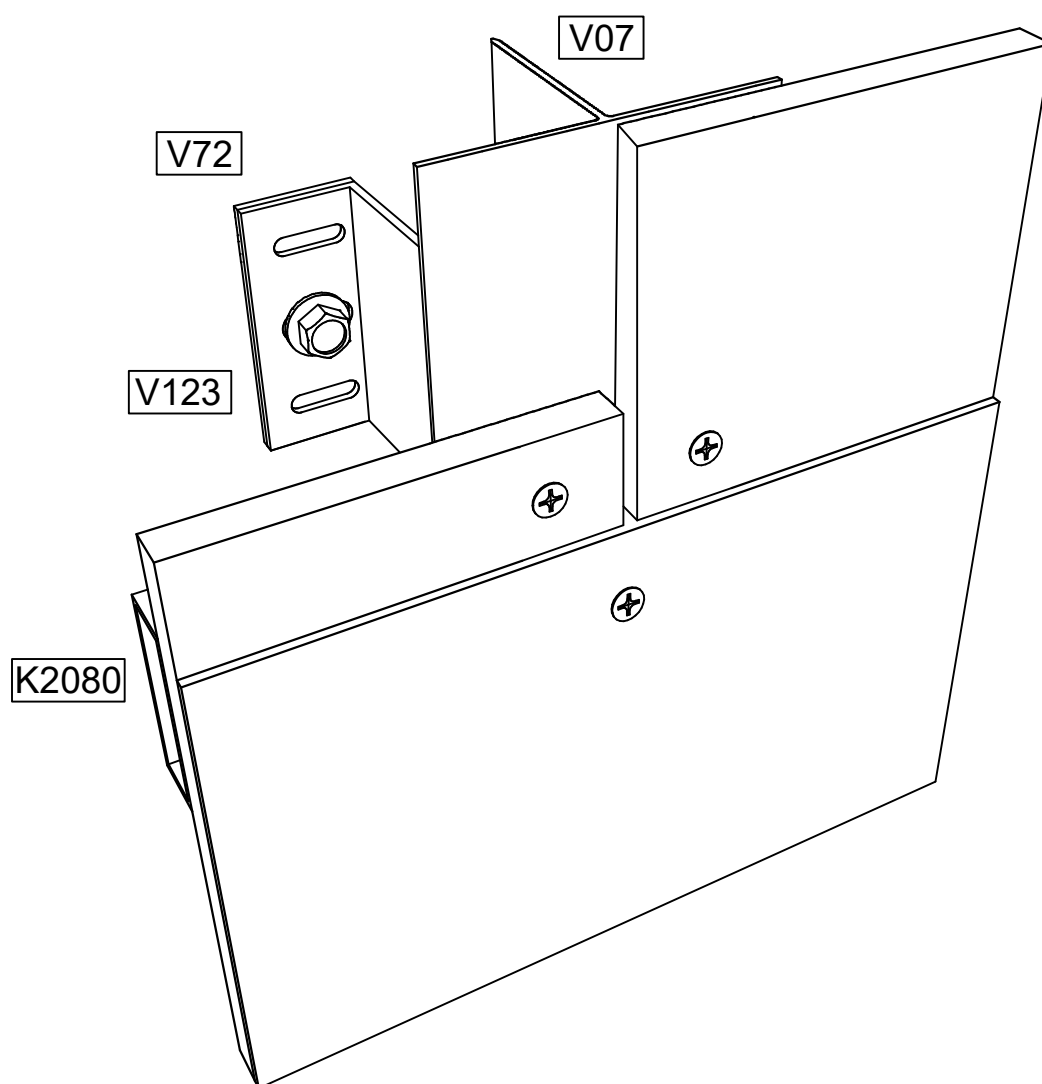


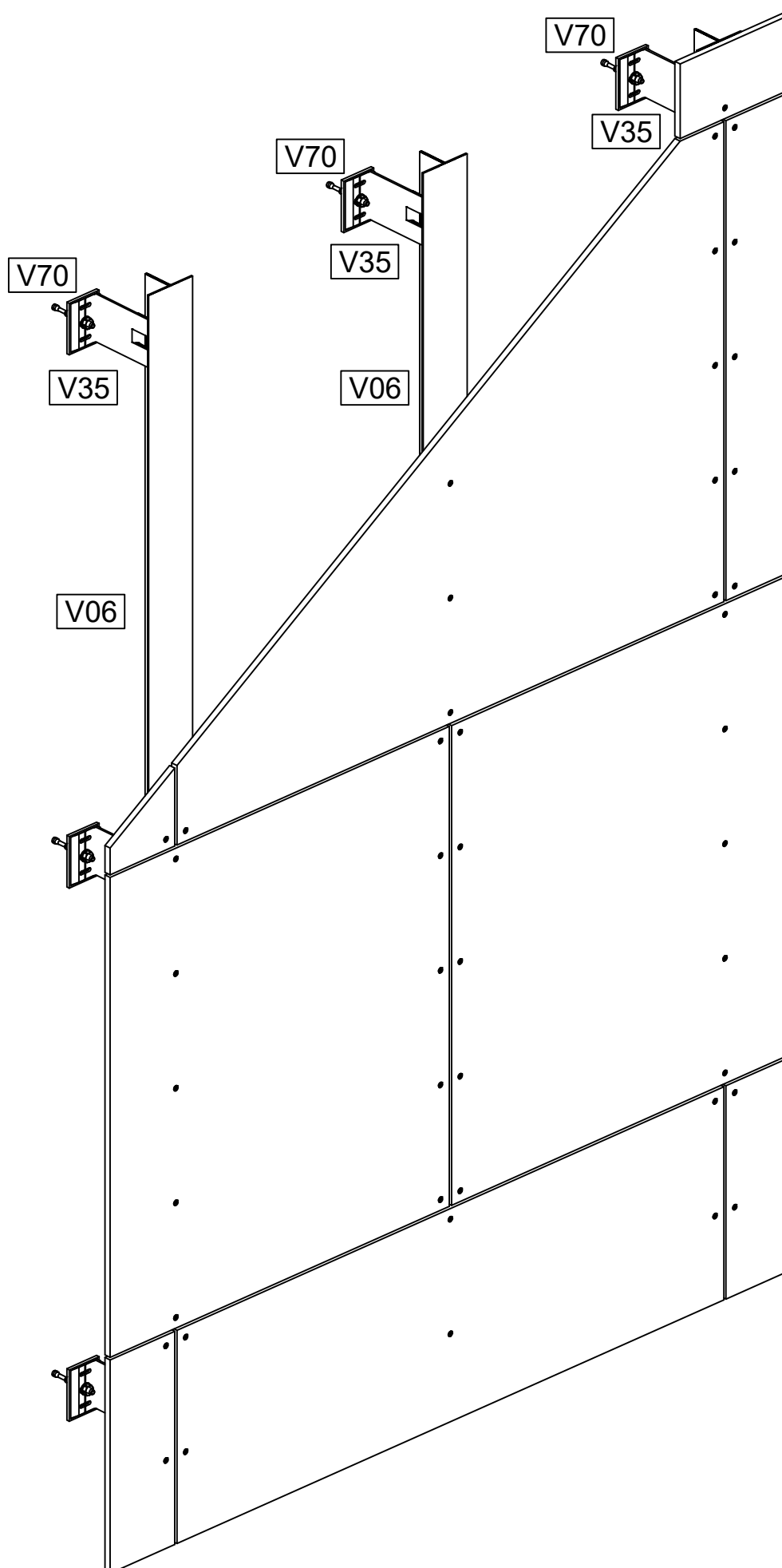
Horizontalni presek
Horizontal section

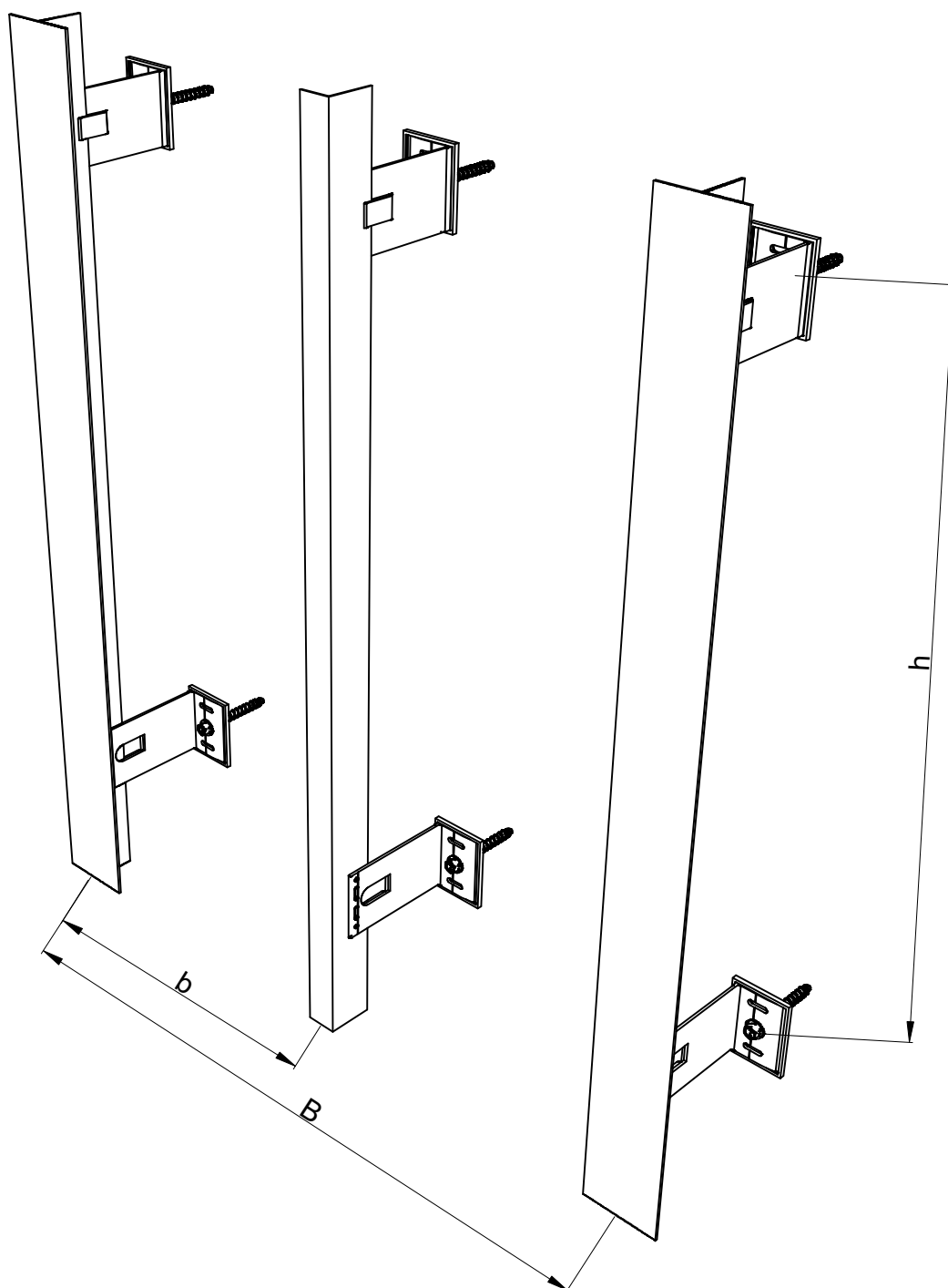


Vertikalni presek
Vertical section









b - prema statičkom proračunu, i u skladu sa primenjenom fasadnom oblogom, ali ne više od 650 mm

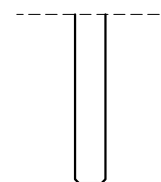
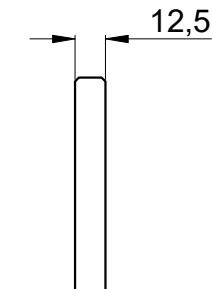
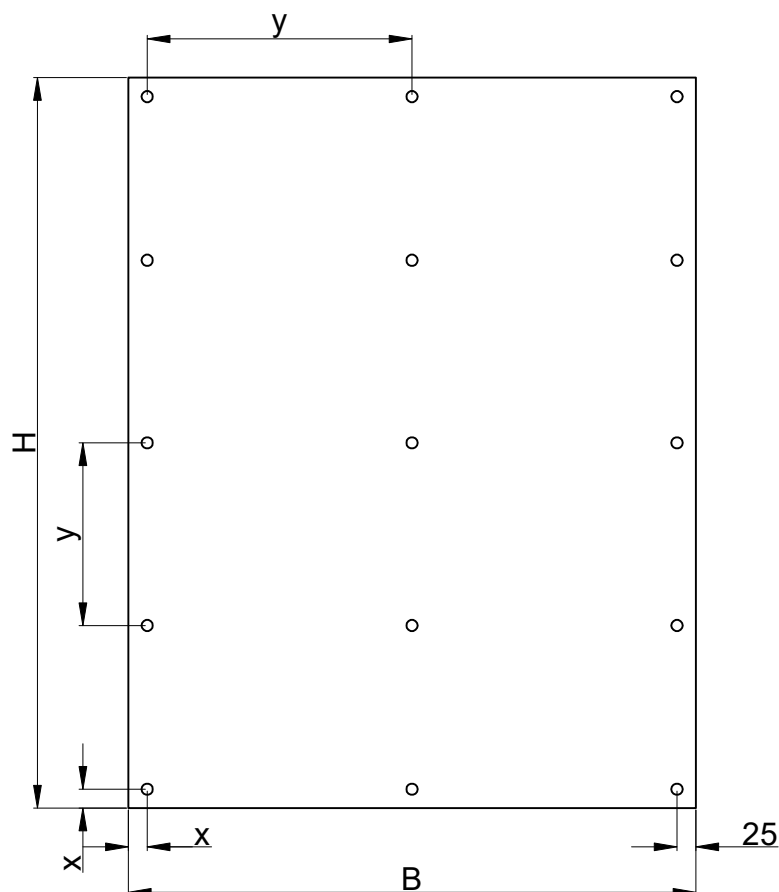
b - according to structural analysis and the applied facade finish, but no more than 650 mm

h - prema statičkom proračunu i u skladu sa primenjenom finalnom fasadnom oblogom, ali ne više od 1200mm

h - according to structural analysis and the applied facade finish, but no more than 1200mm

B - u zavisnosti od odabira proizvodne širine panela

B - depending on the selected panel's production width



B - projektovana širina panela - uz ograničenja prema specifikaciji proizvođača panela

B - designed panel width - within limitations according to specification by manufacturer

H - projektovana visina panela - uz ograničenja prema specifikaciji proizvođača panela

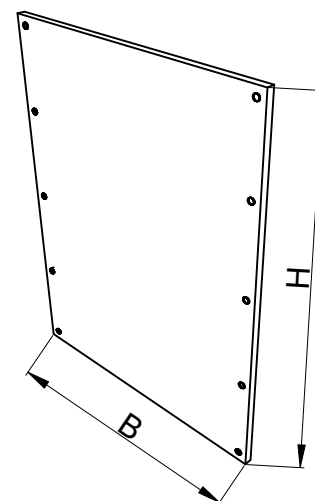
H - designed panel height - within limitations according to specification by manufacturer

x - u zavisnosti od odabira materijala obloge - prema uputstvu proizvođača panela

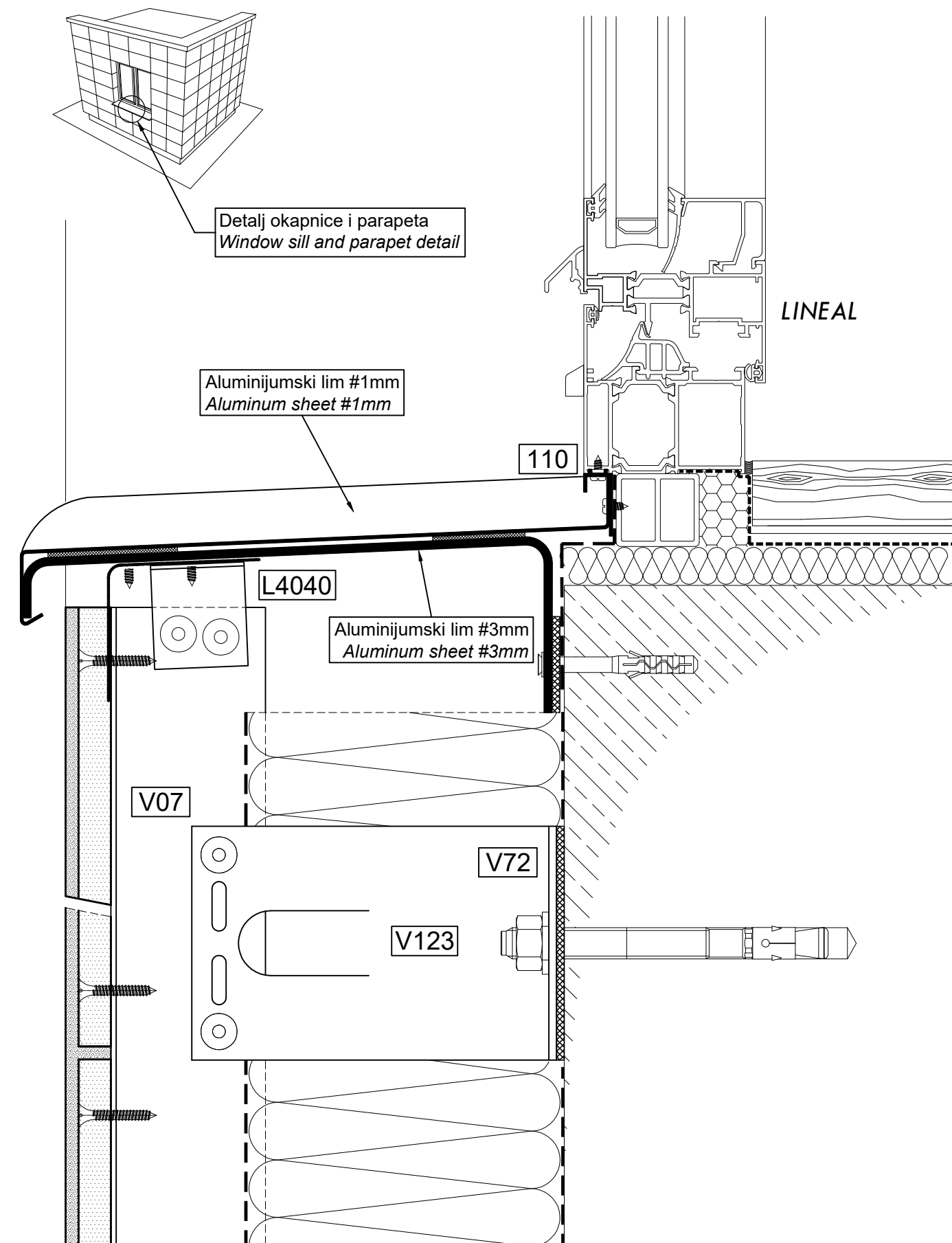
x - depending on the selection of cladding material - in accordance with instructions by panel producer

y - u zavisnosti od odabira materijala obloge i statičkog proračuna - prema uputstvu proizvođača panela

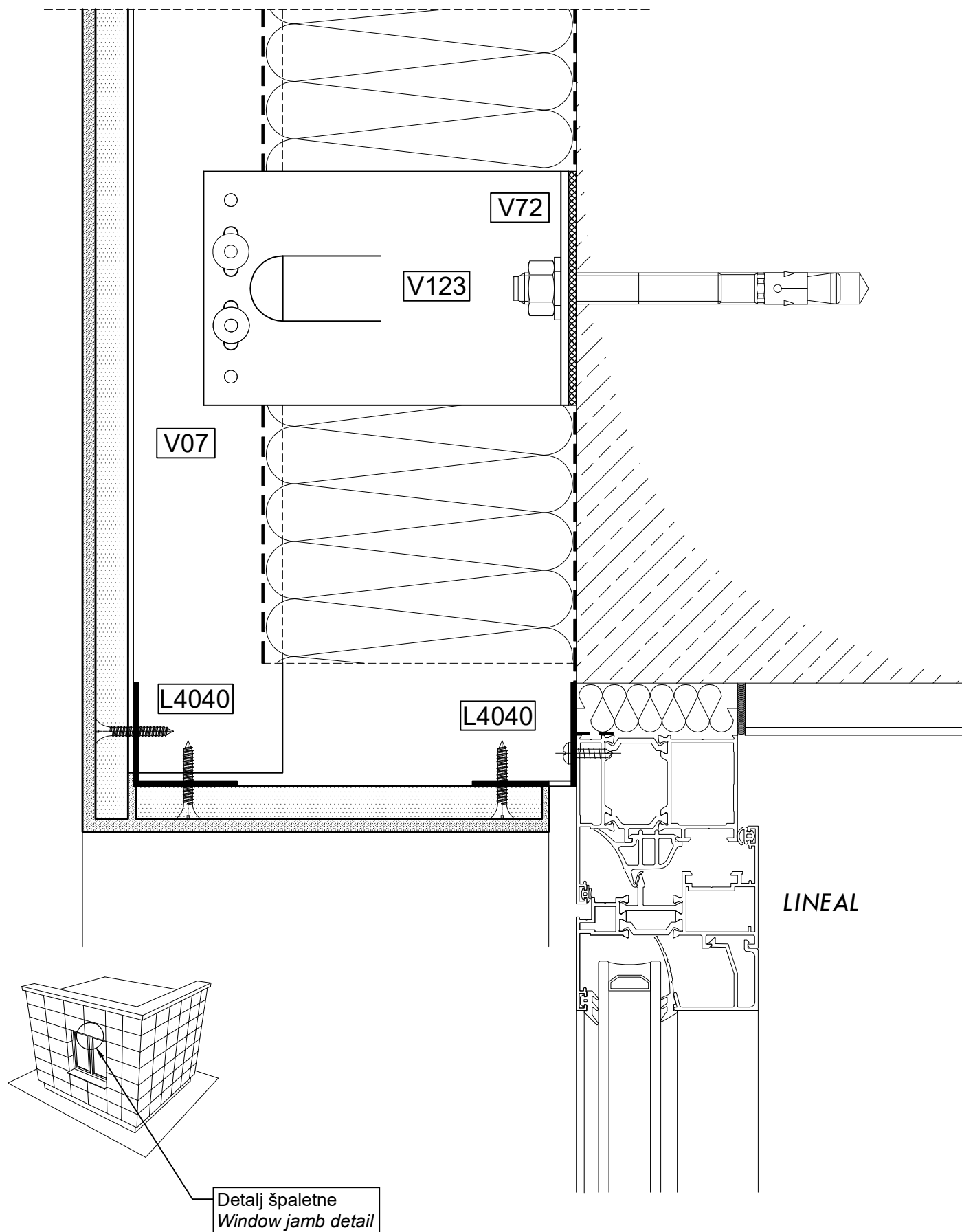
y - depending on the selection of cladding material and structural analysis - in accordance with instructions by panel producer



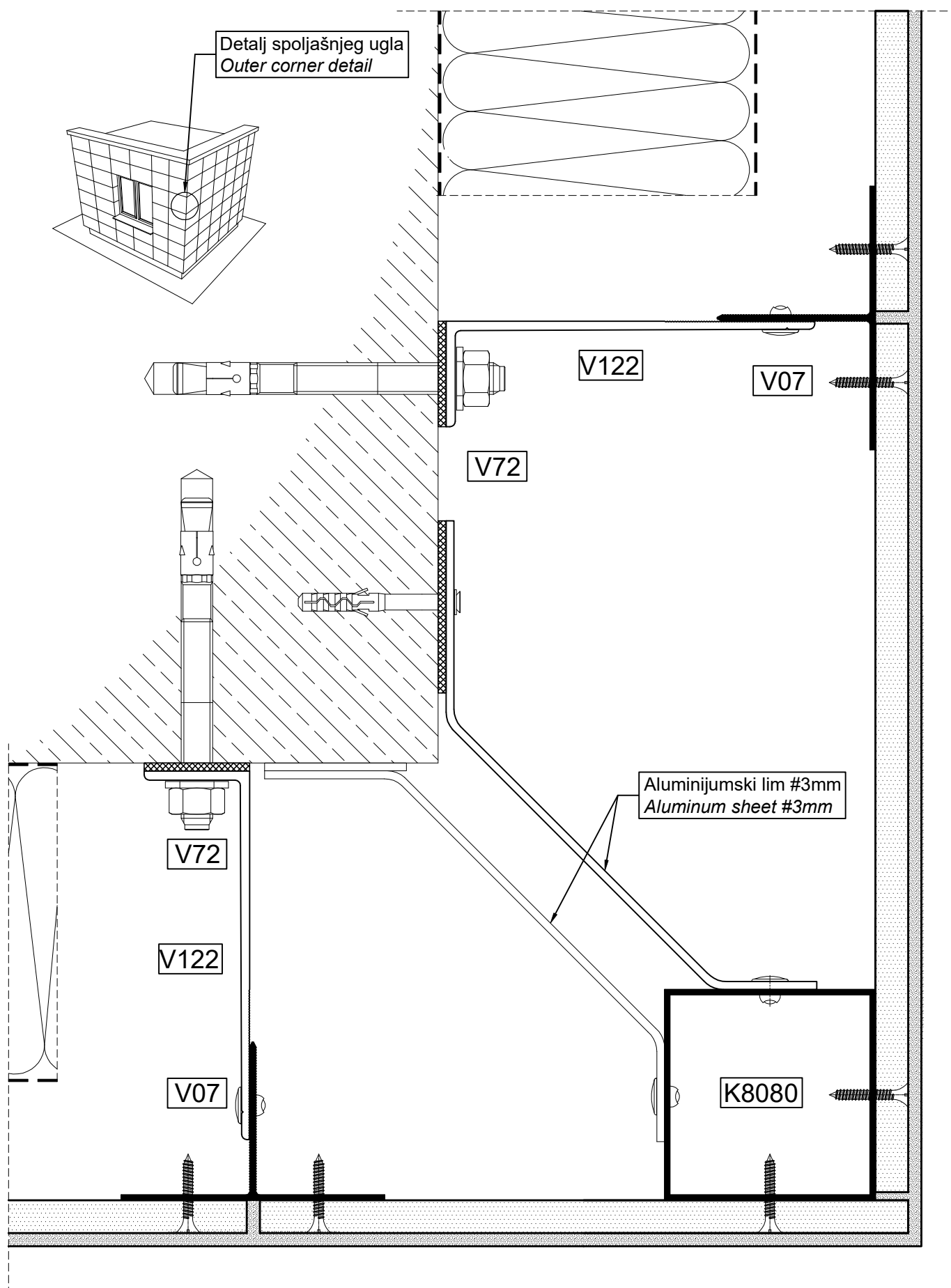
Vertikalni presek
Vertical section



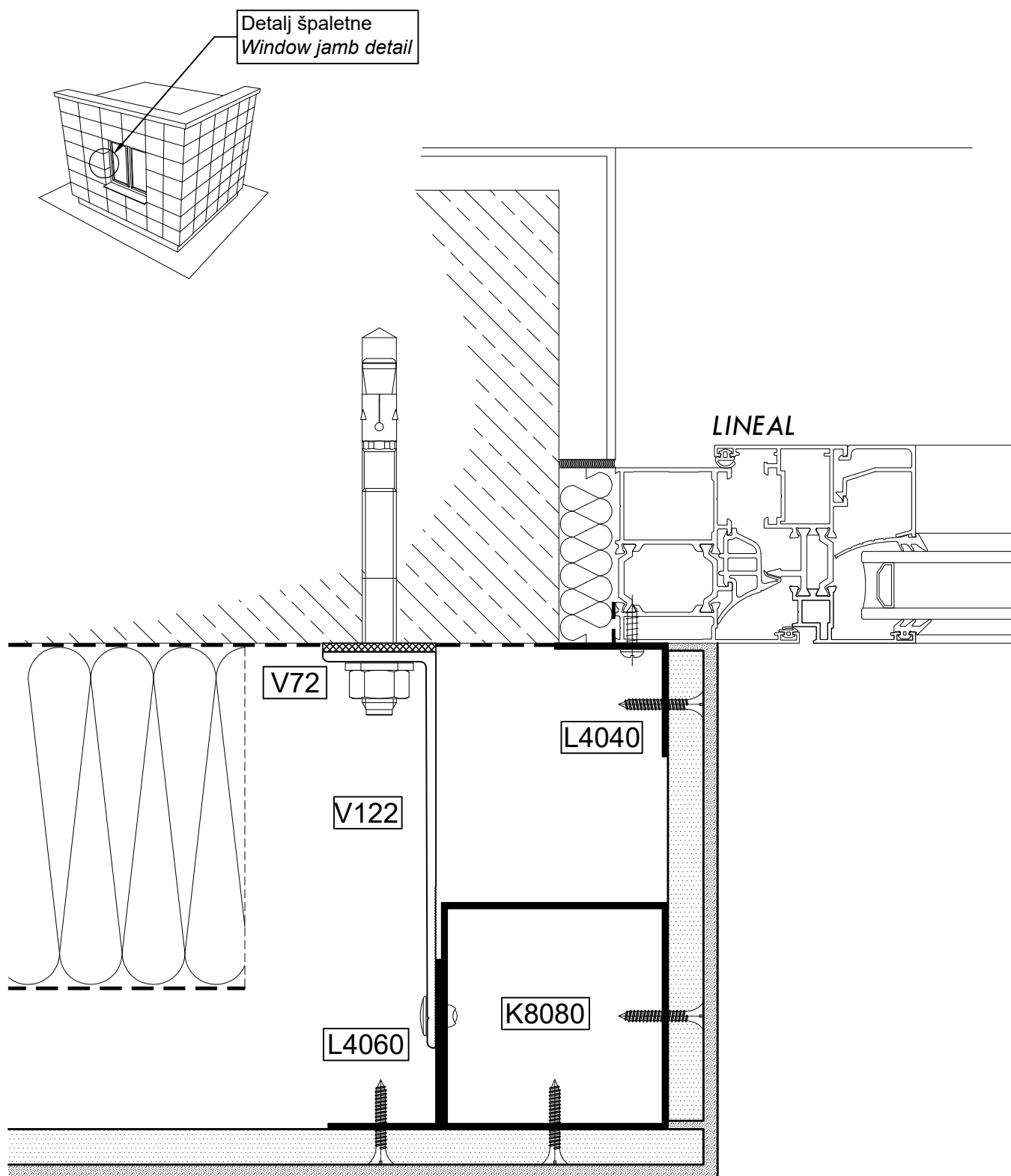
Vertikalni presek
Vertical section



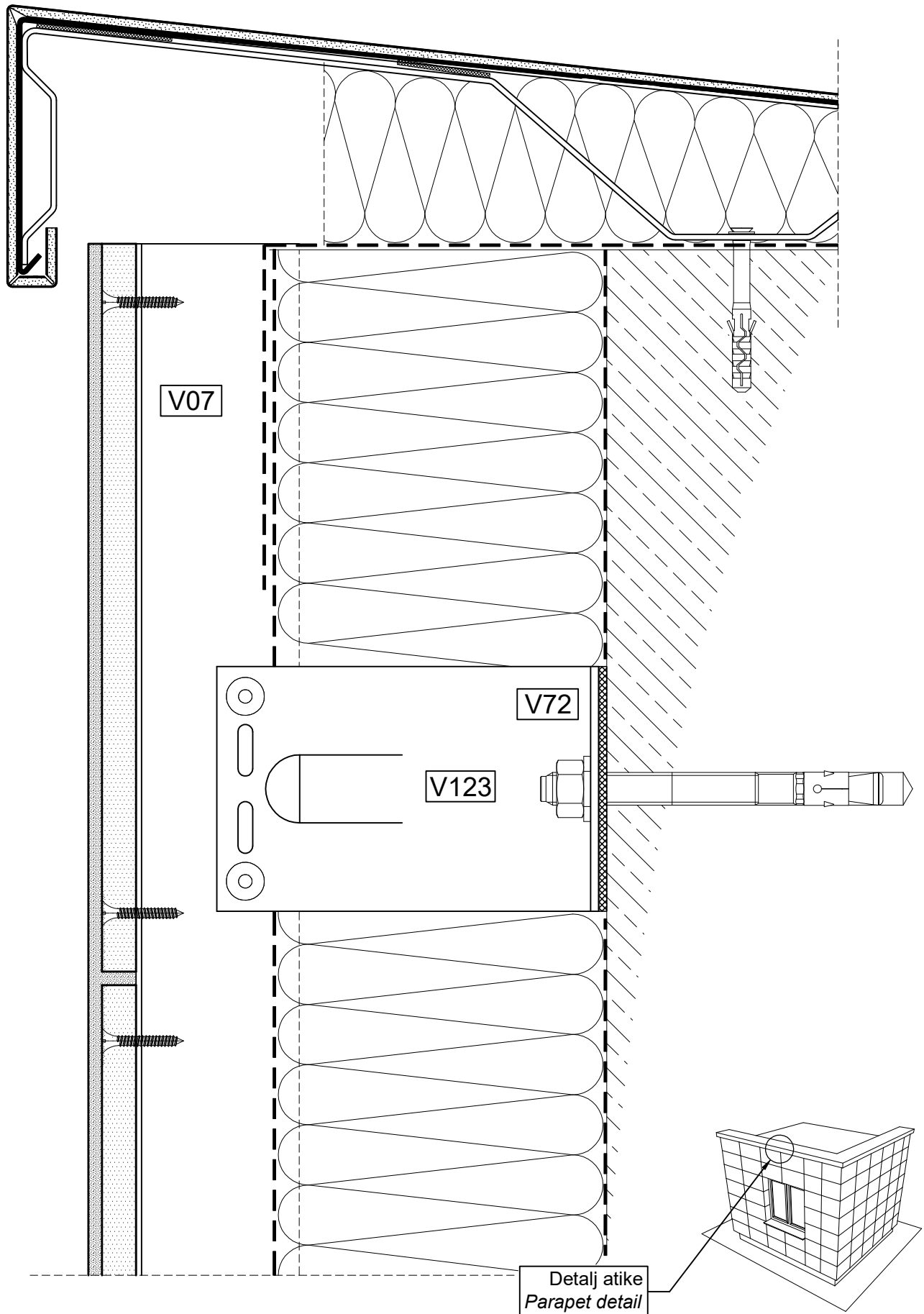
Horizontalni presek
Horizontal section



Horizontalni presek
Horizontal section

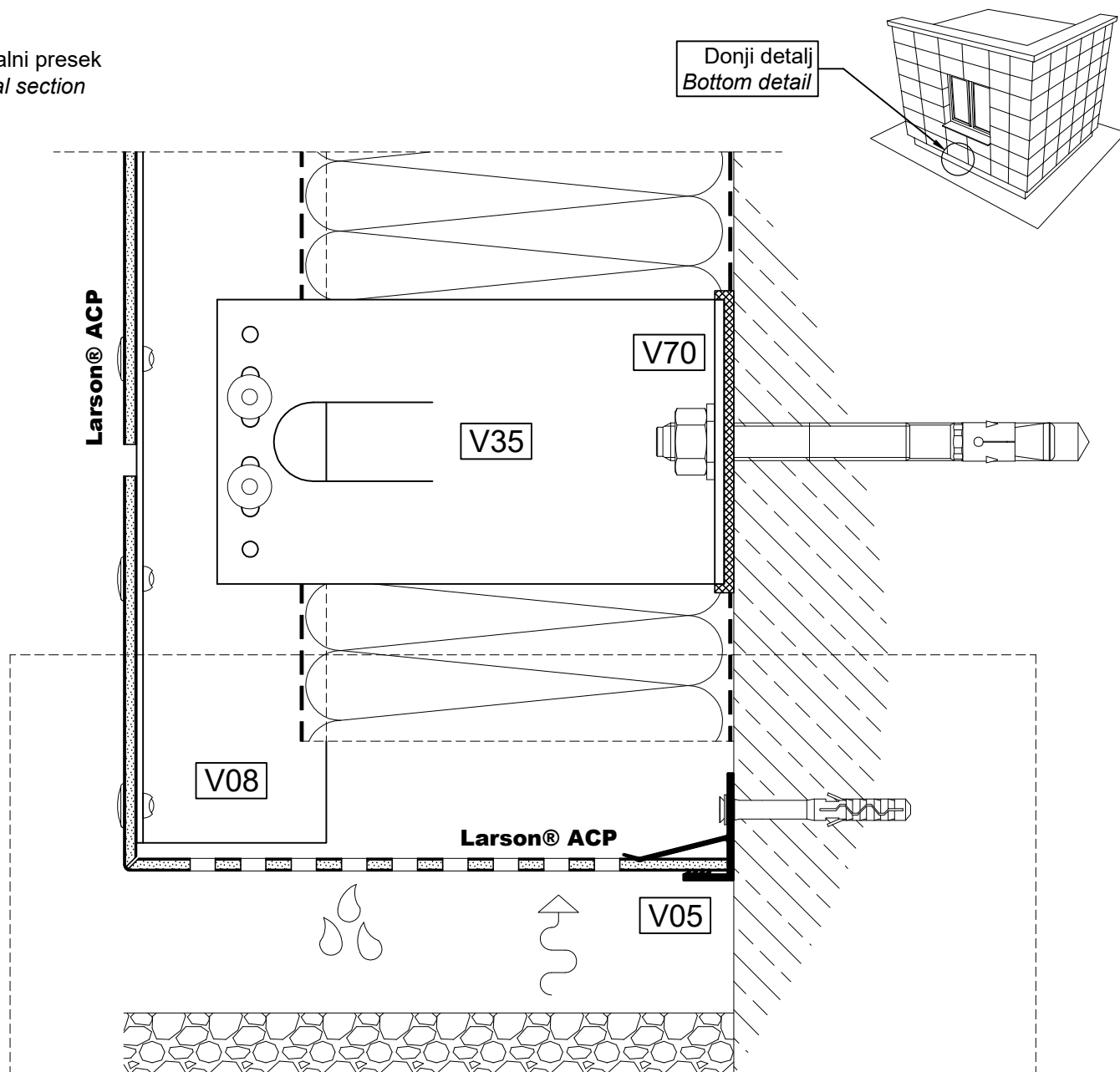


Vertikalni presek
Vertical section

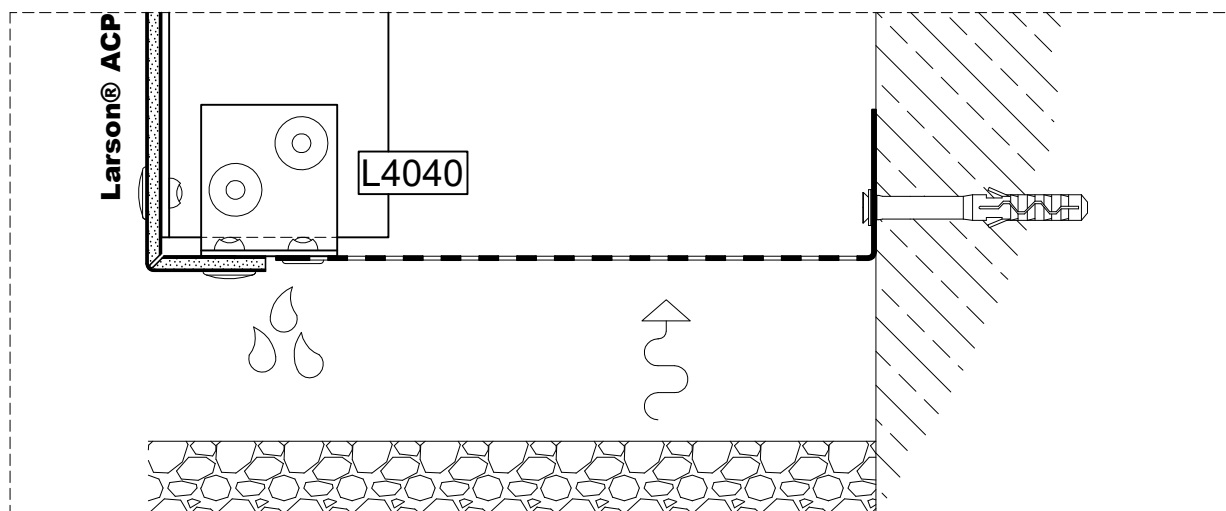


Vertikalni presek
Vertical section

Donji detalj
Bottom detail



Opcija drenaže: perforirani aluminijumski kompozitni panel
Drainage option: perforated aluminium composite panel



Opcija drenaže: perforirani aluminijumski lim
Drainage option: perforated aluminium sheet

Sistem
System

V**NT** [tack]



TEHNIČKI OPIS SISTEMA

Sistem aluminijumske potkonstrukcije namenjen prihvatanju ravnih ploča fiksnih nevidljivim vezama sa lica fasade u vidu specijalne dvostrano lepljive trake i namenskog lepka.

Postupak montaže startuje sa razmeravanjem i obeležavanjem pozicija nosećih profila.

a) Ekstrudirani noseći profili postavljaju se na objekat u projektovanom rasteru. Maksimalna preporučena dužina profila, kao i rastojanje između susednih vertikalnih, određuju se statičkim proračunom. Dužina profila ne može biti veća od 3500 mm, dok maksimalno rastojanje između susednih nosećih profila ne sme biti više od 1200 mm.

b) Sistem Tack omogućava udaljenje fasadne obloge od zida u rasponu od 64mm do 410mm*

c) Fiksiranje nosećih T ili L profila (kat. br. V06, V07, V08, V20, V95, L4060 i L6060) se vrši kotvama koje omogućavaju fino podešavanje aluminijumskih nosećih profila u svim pravcima, kako bi se dobila potpuno ravna površina fasade. Njihov spoj može biti fiksni ili dilatirajući zahvaljujući integrisanom rešenju koje omogućuje obe opcije, a spajanje se izvodi pomoću pop-zakivaka ili samourezujućim nerđajućim vijcima. U slučaju zahteva za prekidom termo mosta, ispod kotvi se montiraju specijalno dizajnirane plastične podloške.

d) Paneli se obrađuju sečenjem na preciznu ugradnu meru. Priprema se obavlja na licu mesta ili u radionici, uz strogo praćenje tehničkih uputstava proizvođača lepka i sistema vezivanja.

- Profile i panele mehanički očistiti i obrisati preporučenim sredstvima, zatim naneti prajmer/aktivator radi boljeg prijanjanja.
- Postaviti obostrano lepljive montažne trake za privremenu fiksaciju i kontrolu debljine nanosa lepka (≈3 mm). Oblogu spojiti sa potkonstrukcijom pomoću namenskog lepka kao glavnog vezivnog sredstva.

- Pripremljene fasadne ploče pozicionirati na fasadu uz projektovanu fugnu od 4 do 20 mm, u zavisnosti od fasadne obloge. Kod panela većih dimenzija, montažu je preporučljivo izvoditi uz pomoć ručnih vakuum prihvratnika radi sigurnog prihvatanja i preciznog pozicioniranja.

VAŽNA NAPOMENA: Pre početka montaže obavezno proveriti da li su ispunjeni svi zahtevi i preporuke proizvođača lepka i dvostrano lepljive trake kako bi se ispunili uslovi za ostvarivanje garantovanih performansi: preporučen tip obloge i veličina polja, vremenski uslovi (temperatura i vlažnost), odgovarajuća priprema profila i panela kao i pravilno nanošenje lepka.

* ove dimenzije podržane su standardnim VENT sistemskim kotvama, za veća udaljenja pregledajte tehnički katalog (sekcije 5.19-5.24) i TMTP katalog



TECHNICAL SYSTEM DESCRIPTION

Aluminum substructure system designed for the installation of flat panels fixed with invisible front-facing connections using a dedicated double-sided adhesive tape and a system-approved structural adhesive.

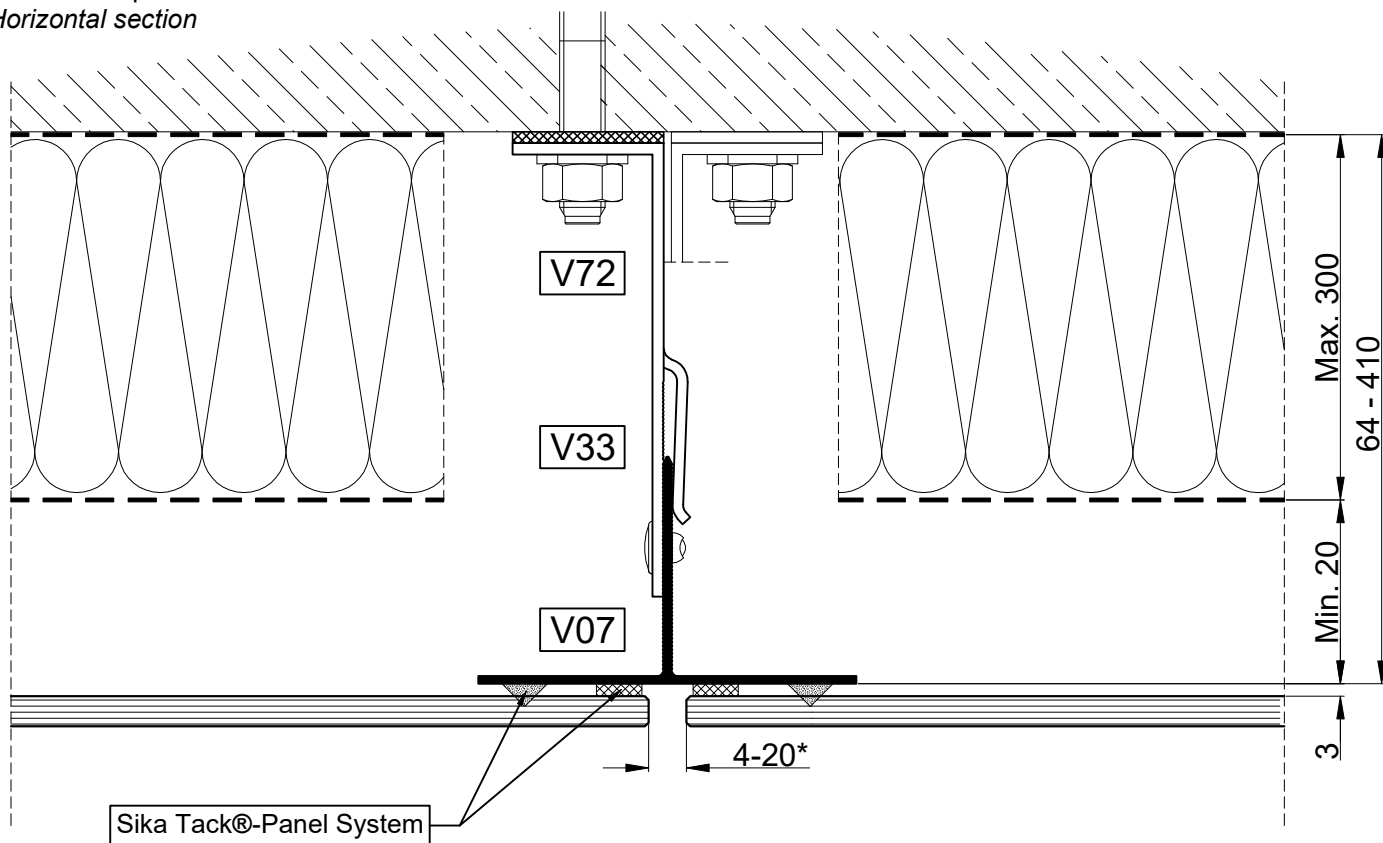
The installation process begins with surveying and marking the positions of the load-bearing profiles.

- a) Extruded load-bearing profiles are installed on the building according to the designed grid. The maximum recommended profile length and the spacing between adjacent vertical profiles are determined by static calculations. The profile length must not exceed 3500 mm, while the maximum spacing between adjacent load-bearing profiles must not exceed 1200 mm.
- b) The Tack system allows the façade cladding to be offset from the wall within a range of 64 mm to 410 mm*.
- c) Fixing of the load-bearing T or L profiles (cat. no. V06, V07, V08, V20, V95, L4060, L6060) is carried out using anchors that allow fine adjustment of the aluminum profiles in all directions, ensuring a perfectly planar façade surface. The connection can be either fixed or sliding, thanks to an integrated solution that allows both options. Connections are made using pop rivets or self-drilling stainless steel screws. Where thermal bridge interruption is required, specially designed plastic spacers are installed beneath the anchors.
- d) Panels are cut to precise installation dimensions. Preparation may be carried out on site or in workshop conditions, strictly following the technical instructions of the adhesive and bonding system manufacturer. Profiles and panels must be mechanically cleaned and wiped using the recommended cleaning agents, followed by the application of a primer/activator to ensure optimal adhesion. Double-sided mounting tapes are applied to provide temporary fixation and to control the adhesive layer thickness (approx. 3 mm). The cladding is bonded to the substructure using the dedicated adhesive as the primary load-bearing connection. The prepared façade panels are positioned on the façade with a designed panel gap of 4 mm to 20 mm, depending on the cladding type. For larger-format panels, installation using manual vacuum lifters is recommended to ensure safe handling and precise positioning.

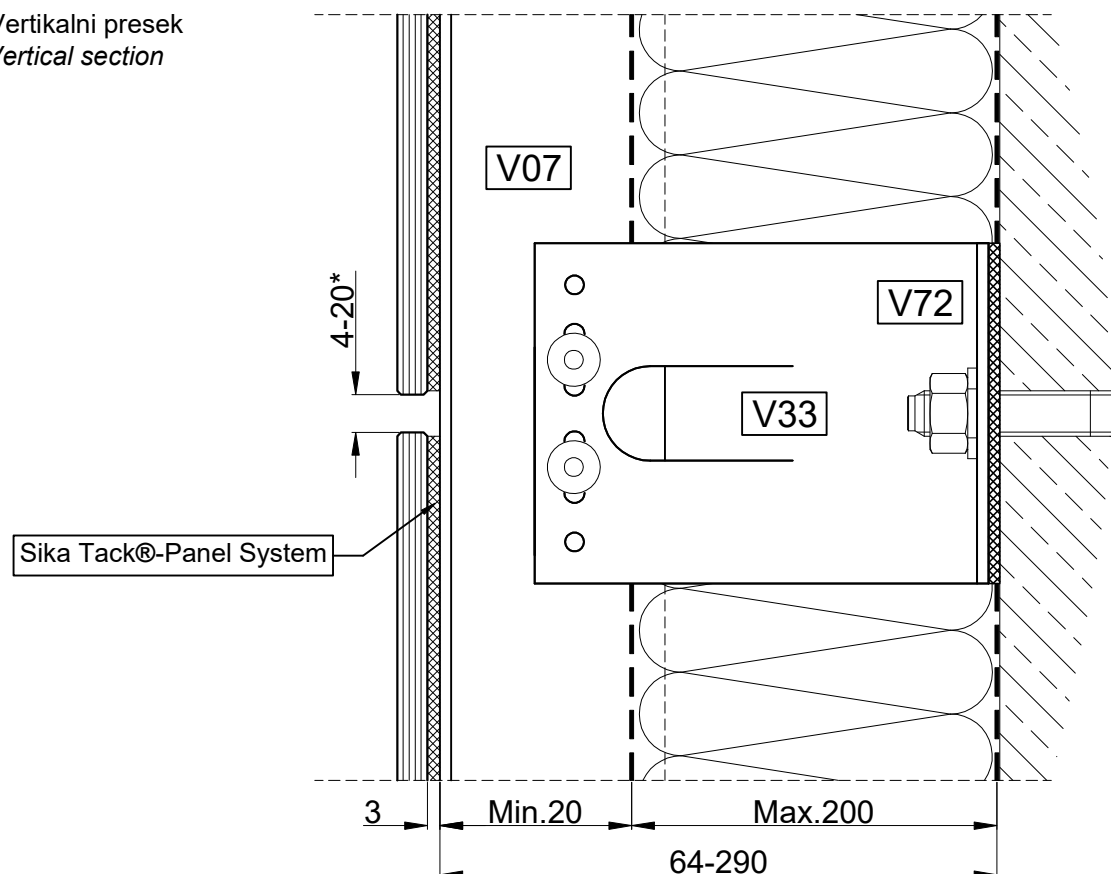
IMPORTANT NOTE: Before starting installation, it is mandatory to verify that all requirements and recommendations of the adhesive and double-sided tape manufacturer are met in order to ensure guaranteed system performance. This includes verification of the recommended cladding type and panel size, environmental conditions (temperature and humidity), proper preparation of profiles and panels, and correct adhesive application.

* These dimensions are supported by standard VENT system anchors. For larger offsets, please refer to the technical catalogue (sections 5.19-5.24) and the TMTP catalogue.

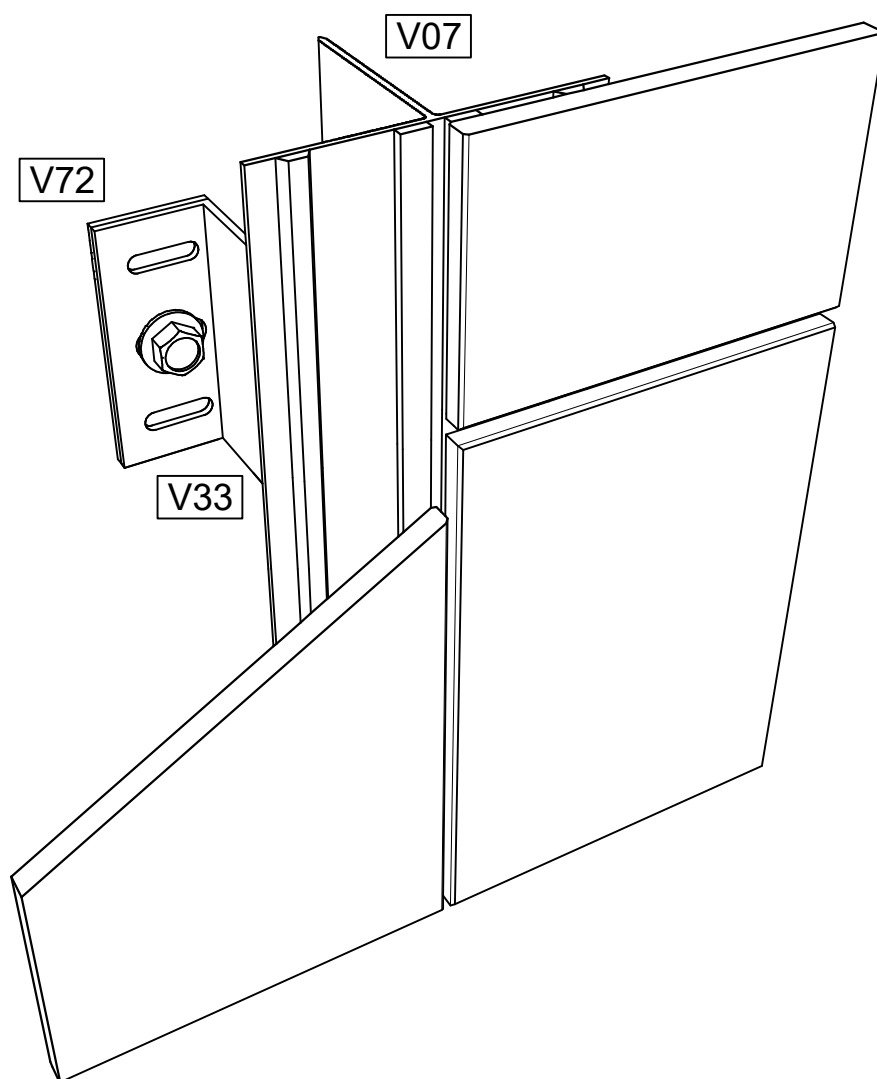
Horizontalni presek
Horizontal section

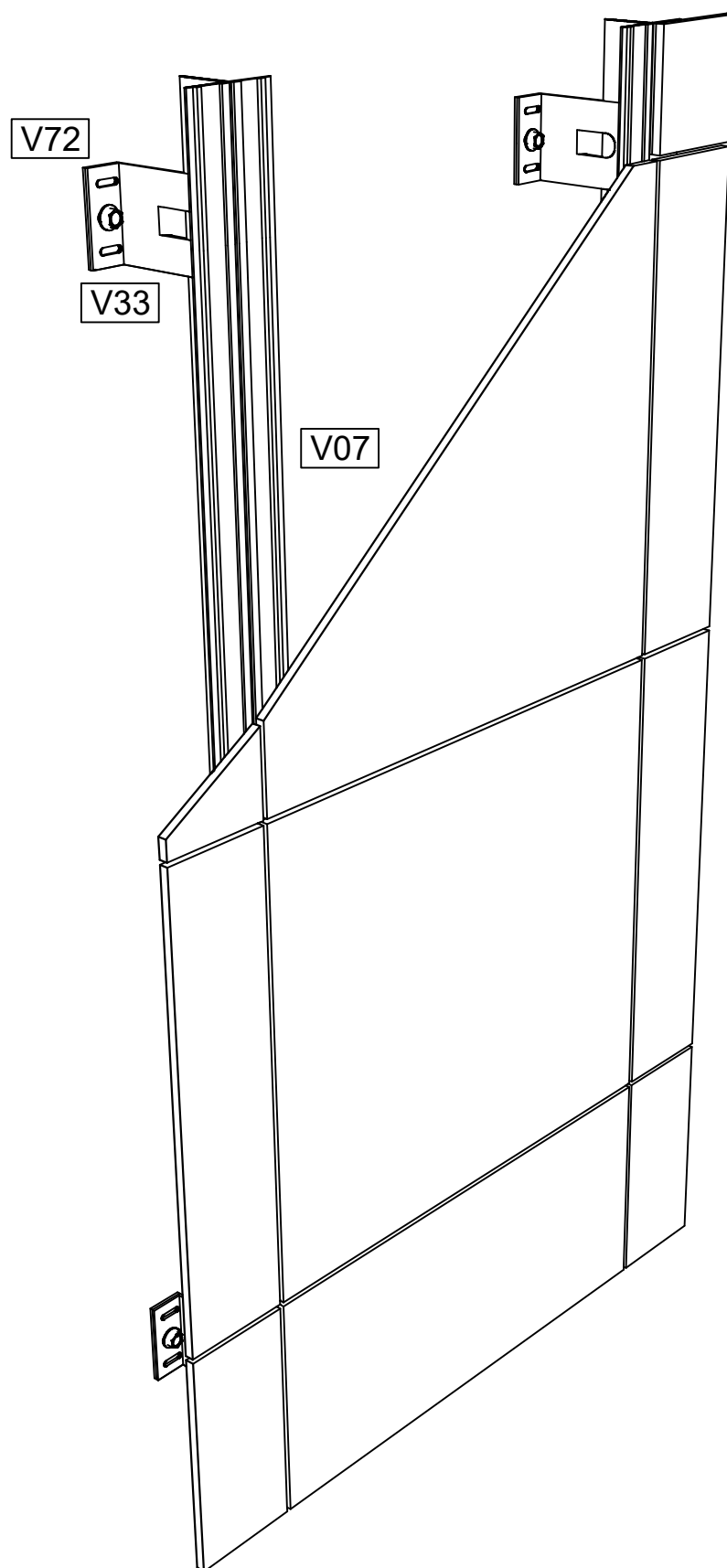


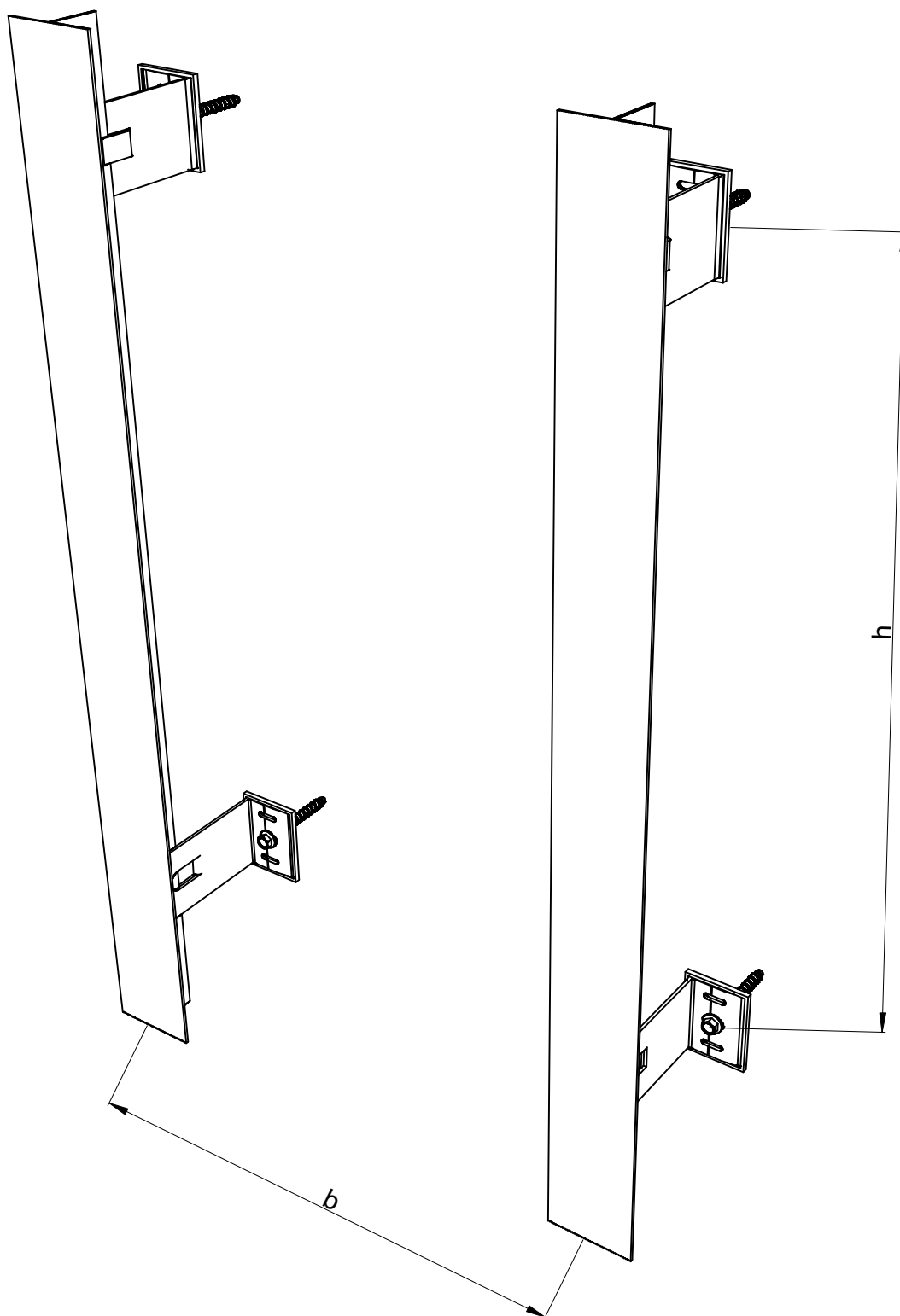
Vertikalni presek
Vertical section



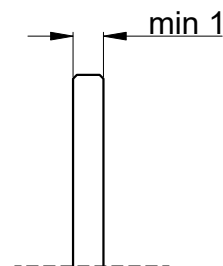
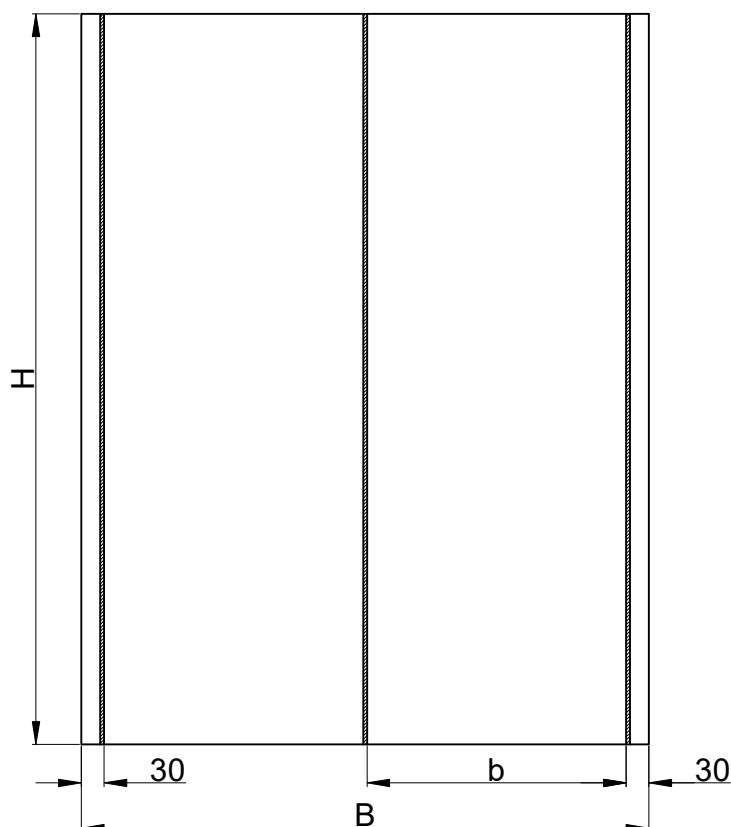
*U zavisnosti od primenjene fasadne obloge
*Depending on the type of facade cladding used







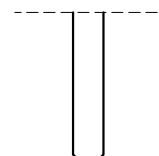
b, h - prema statičkom proračunu, ali ne više od 1200mm
b, h - according to structural analysis, but no more than 1200mm



Debljina panela - prema preporuci proizvođača lepka
Panel thickness - according to adhesive manufacturer instruction

Vrste panela - aluminijumski kompozitni paneli (npr. **Larson®**, **Larcove®A2**), HPL, **Equitone®**, aluminijumski lim, granitna keramika itd.*

Panel types - aluminium composite panels (e.g. **Larson®**, **Larcove®A2**), HPL, **Equitone®**, aluminium sheet, granite ceramics etc.*



Oblavezno konsultovati proizvođača obloge u vezi primene sistema lepljenja.
Consultation with the cladding manufacturer is required regarding the use of the adhesive system.

B - projektovana širina panela - uz ograničenja prema specifikaciji proizvođača panela

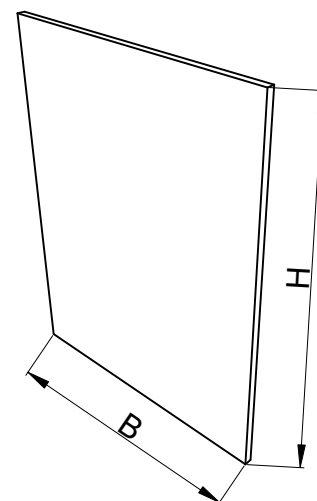
B - designed panel width - within limitations according to specification by manufacturer

b - projektovana širina panela - uz ograničenja prema specifikaciji proizvođača panela

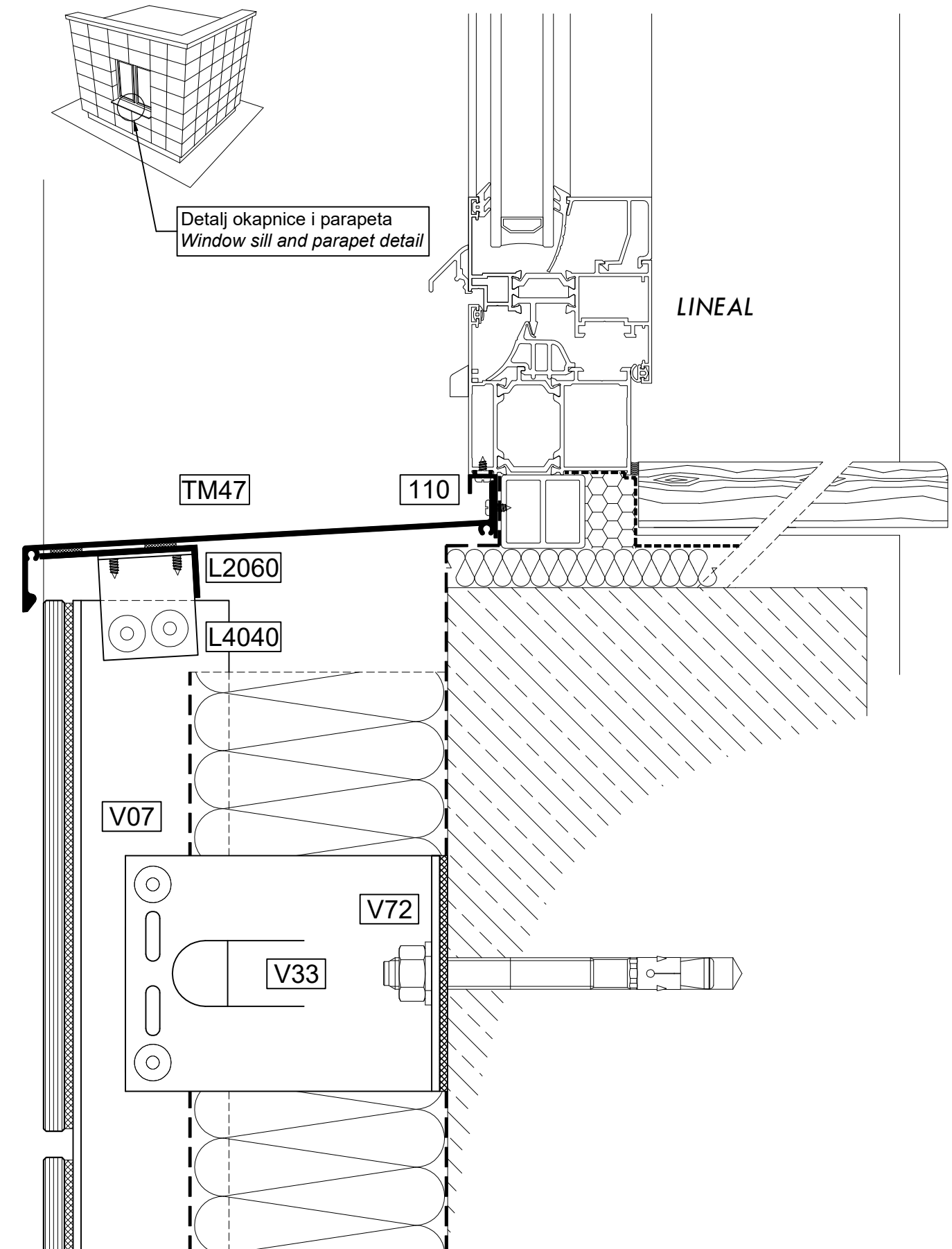
b - designed panel width - within limitations according to specification by manufacturer

H - projektovana visina panela - uz ograničenja prema specifikaciji proizvođača panela

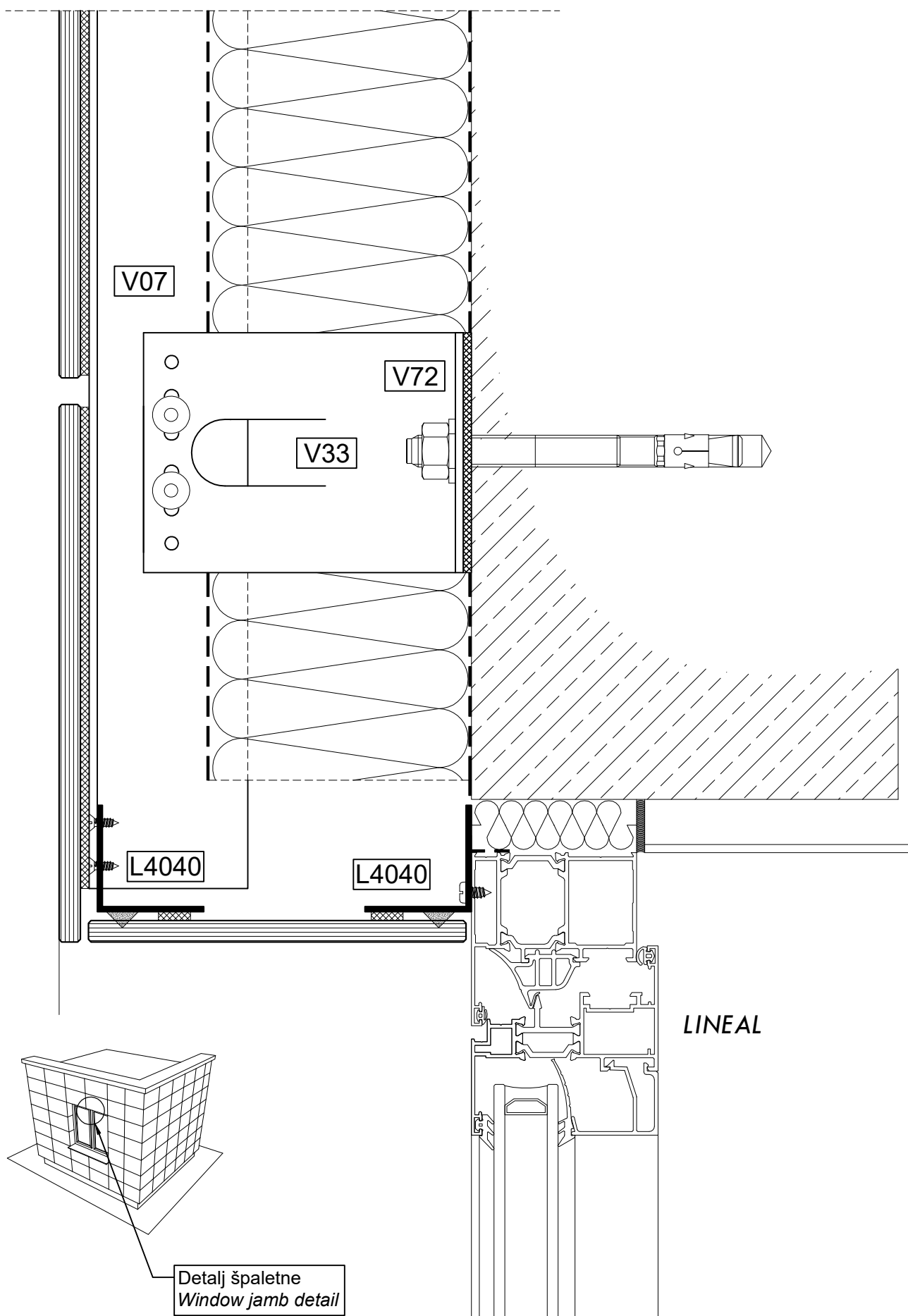
H - designed panel height - within limitations according to specification by manufacturer



Vertikalni presek
Vertical section

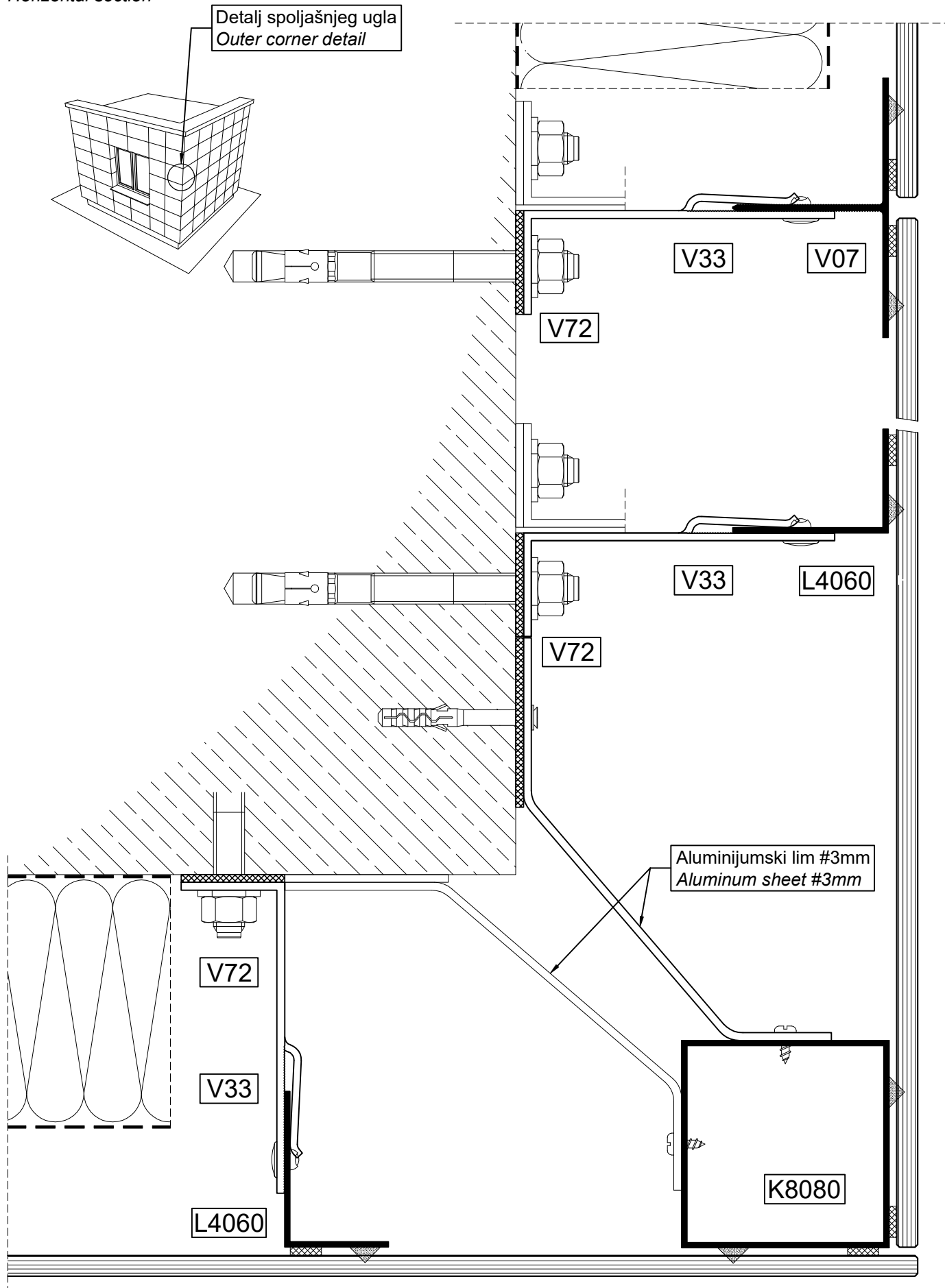


Vertikalni presek
Vertical section

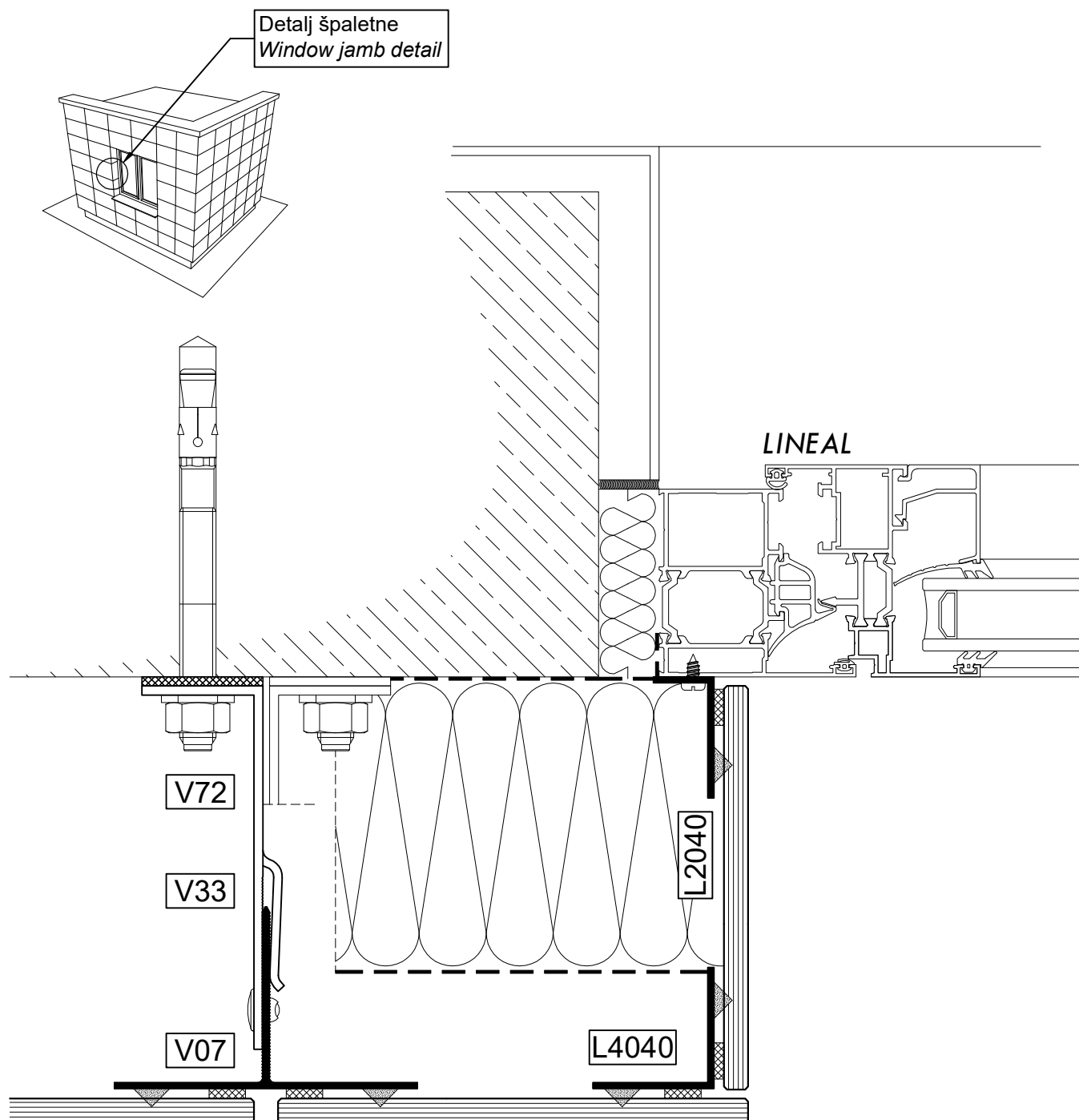


Horizontalni presek
Horizontal section

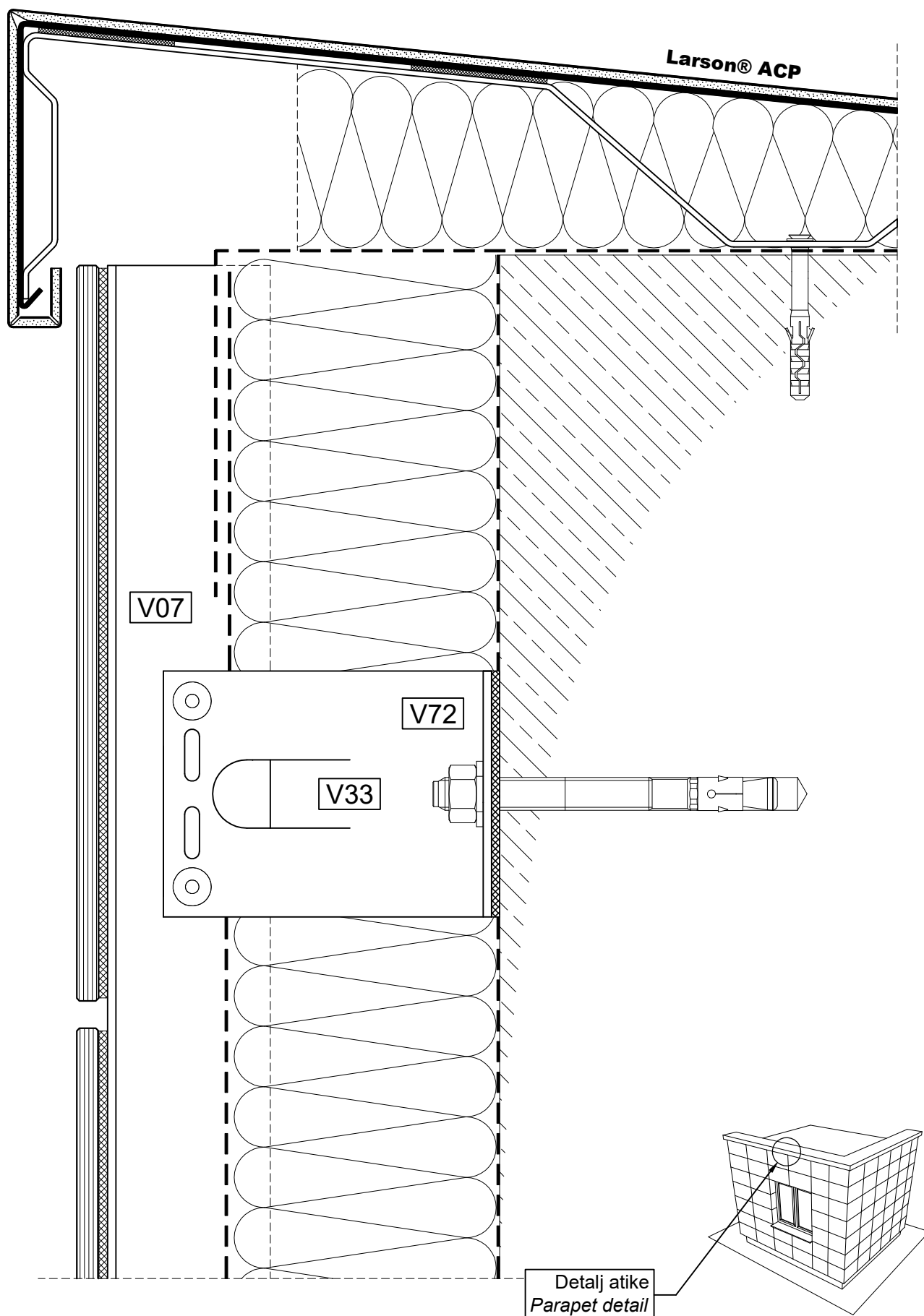
Detalj spoljašnjeg ugla
Outer corner detail



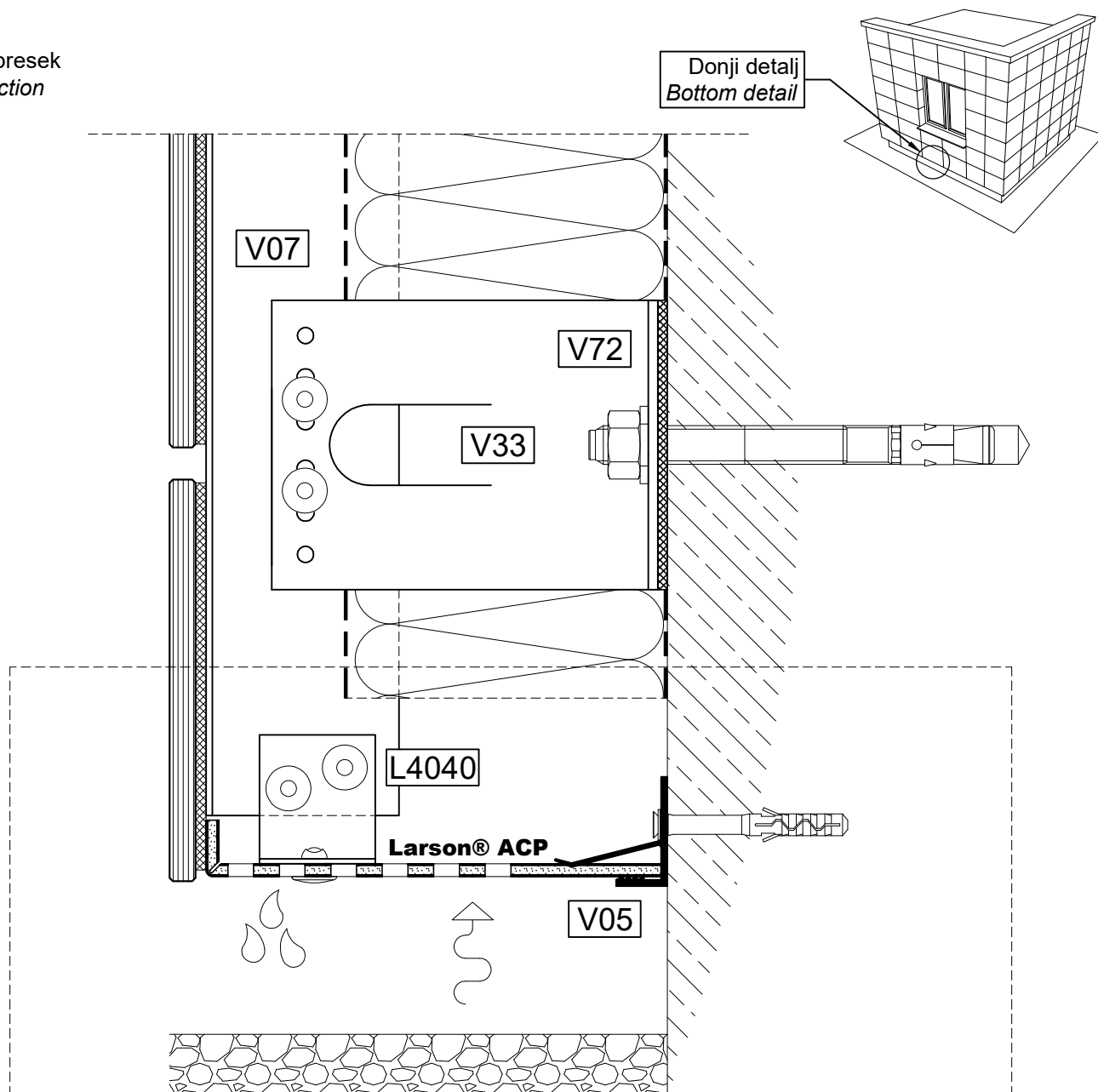
Horizontalni presek
Horizontal section



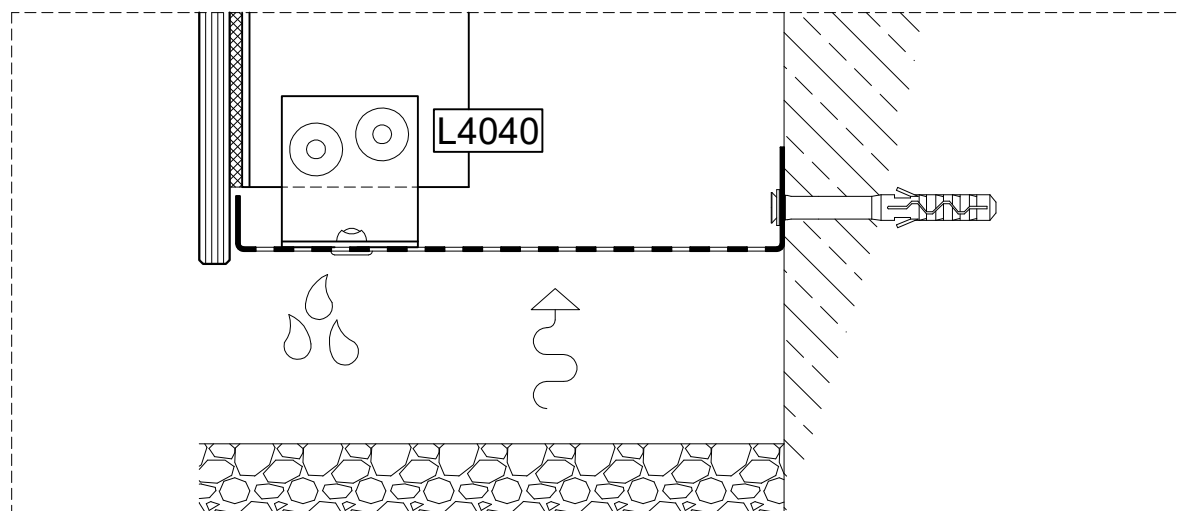
Vertikalni presek
Vertical section



Vertikalni presek
Vertical section



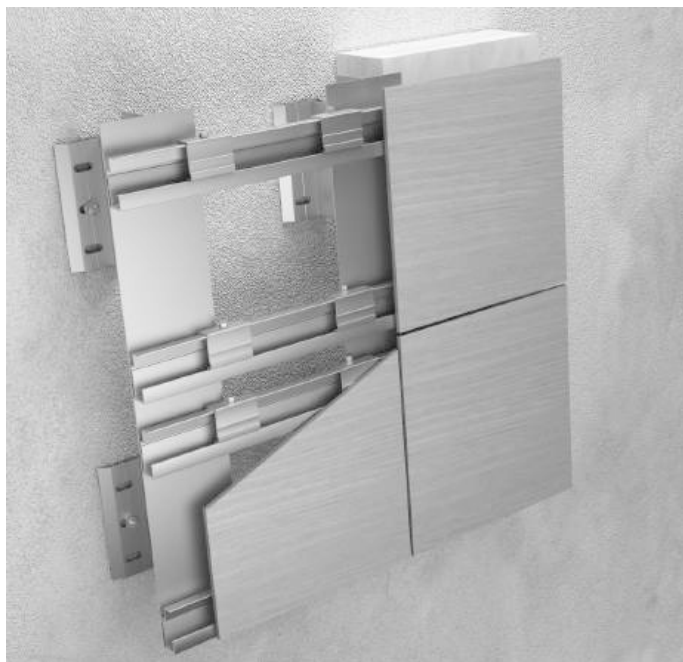
Opcija drenaže: perforirani aluminijumski kompozitni panel
Drainage option: perforated aluminium composite panel



Opcija drenaže: perforirani aluminijumski lim
Drainage option: perforated aluminium sheet

Sistem
System

V  **NT** [hide]



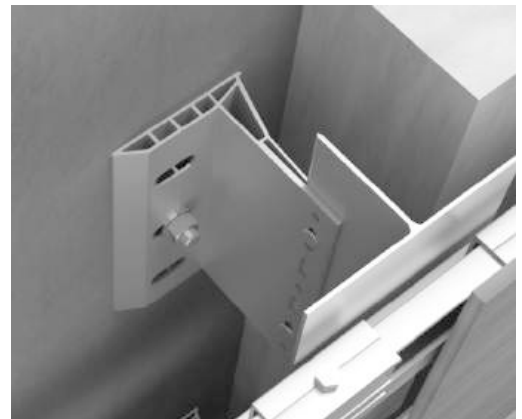
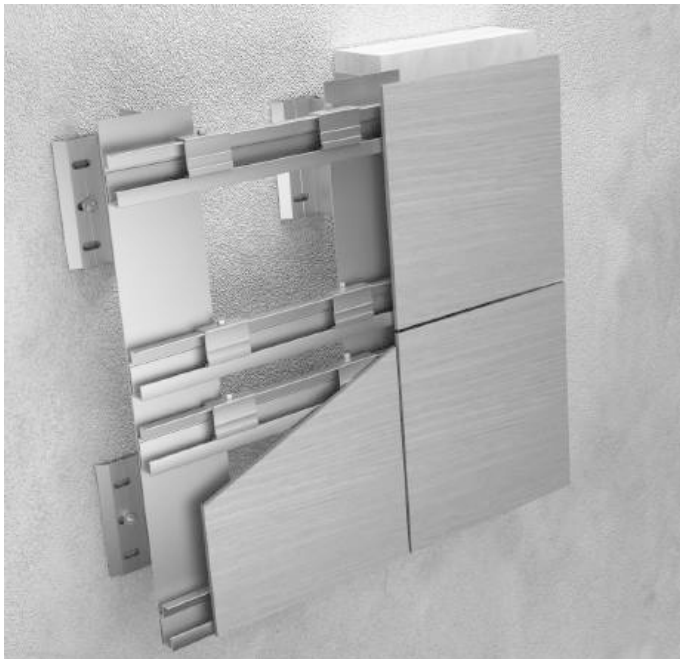
TEHNIČKI OPIS SISTEMA

Sistem aluminijske podkonstrukcije namenjen prihvatanju ravnih ploča fiksniranih nevidljivom mehaničkom vezom. Koriste se posebna spojna sredstva - ankeri koji su namenski konstruisani u ove svrhe od strane pouzdanih proizvođača poput Kiel, Fischer i sličnih.

Postupak montaže startuje sa razmeravanjem i obeležavanjem pozicija nosećih profila.

- a) Ekstrudirani noseći profili postavljaju se na objekat u projektovanom rasteru. Maksimalna preporučena dužina profila, kao i rastojanje između susjednih vertikala, određuju se statičkim proračunom. Dužina profila ne može biti veća od 3500 mm, dok maksimalno rastojanje između susjednih nosećih profila ne sme biti više od 1200 mm.
- b) Sistem Hide omogućava udaljenje fasadne obloge od zida u rasponu od 93mm do 410mm*
- c) Primarna vertikalna i sekundarna nosiva konstrukcija sastoji se od namenskih kotvi i nosivih vertikalnih profila (T, L ili Ω) koje omogućavaju fino podešavanje aluminijskih nosećih profila u svim pravcima, kako bi se dobila potpuno ravna površina fasade. Njihov spoj može biti fiksni ili dilatirajući zahvaljujući integrisanom rešenju koje omogućuje obe opcije, a spajanje se izvodi pomoću pop-zakivaka ili samourezujućim nerđajućim vijcima. U slučaju zahteva za prekidom termo mosta, ispod kotvi se montiraju specijalno dizajnirane plastične podloške
- d) Nakon montaže vertikala, montiraju se nosive horizontale (V14), a njihov spoj ostvaruje se samourezujućim nerđajućim vijcima sa osiguranjem spoja.
- e) Obrada izabranog tipa panela se vrši isecanjem ploča na ugradnu meru i razbušivanjem rupa sa naličja specijalnim glodalima na tačno projektovanim pozicijama za specijalne ankere. U radionici se ploče dodatno pripremaju za slaganje na fasadi. Priprema se sastoji u tome da se profilisani nosači fiksiraju za ploče ankerima koji će u specijalno razbušenim rupama formirati neraskidiv spoj i to minimum 50mm od ivice ploče. Tako pripremljene ploče se isporučuju na gradilište.
- f) Na gradilištu se ploče sa montiranim nosačima „nasaduju“ na šine i lako pozicioniraju na projektovano mesto, zatim precizno podešavaju putem štelujućih vijaka i na kraju fiksiraju vijcima za šinu u gornjoj zoni panela. Predviđena fugna u ovom sistemu je 5mm do 40mm, dok je minimalna debljina panela 8mm.

* ove dimenzije podržane su standardnim VENT sistemskim kotvama, za veća udaljenja pregledajte tehnički katalog (sekcije 5.19-5.24) i TMTP katalog.



TECHNICAL SYSTEM DESCRIPTION

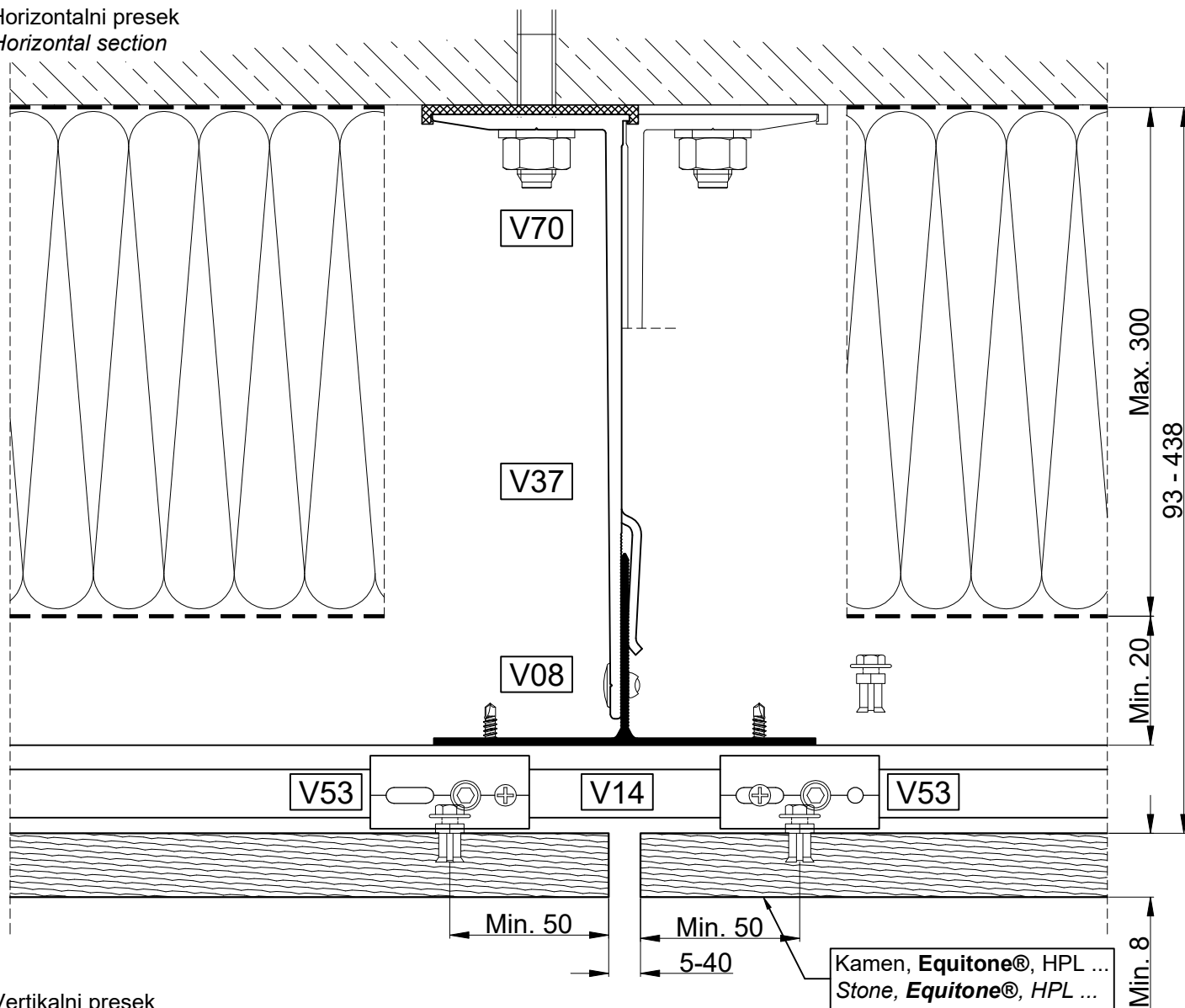
Aluminum substructure system designed for the installation of flat panels fixed using invisible mechanical connections. The system utilizes specialized fastening elements—anchors specifically engineered for this purpose by reputable manufacturers such as Kiel, Fischer, and equivalent suppliers.

The installation process begins with surveying and marking the positions of the load-bearing profiles.

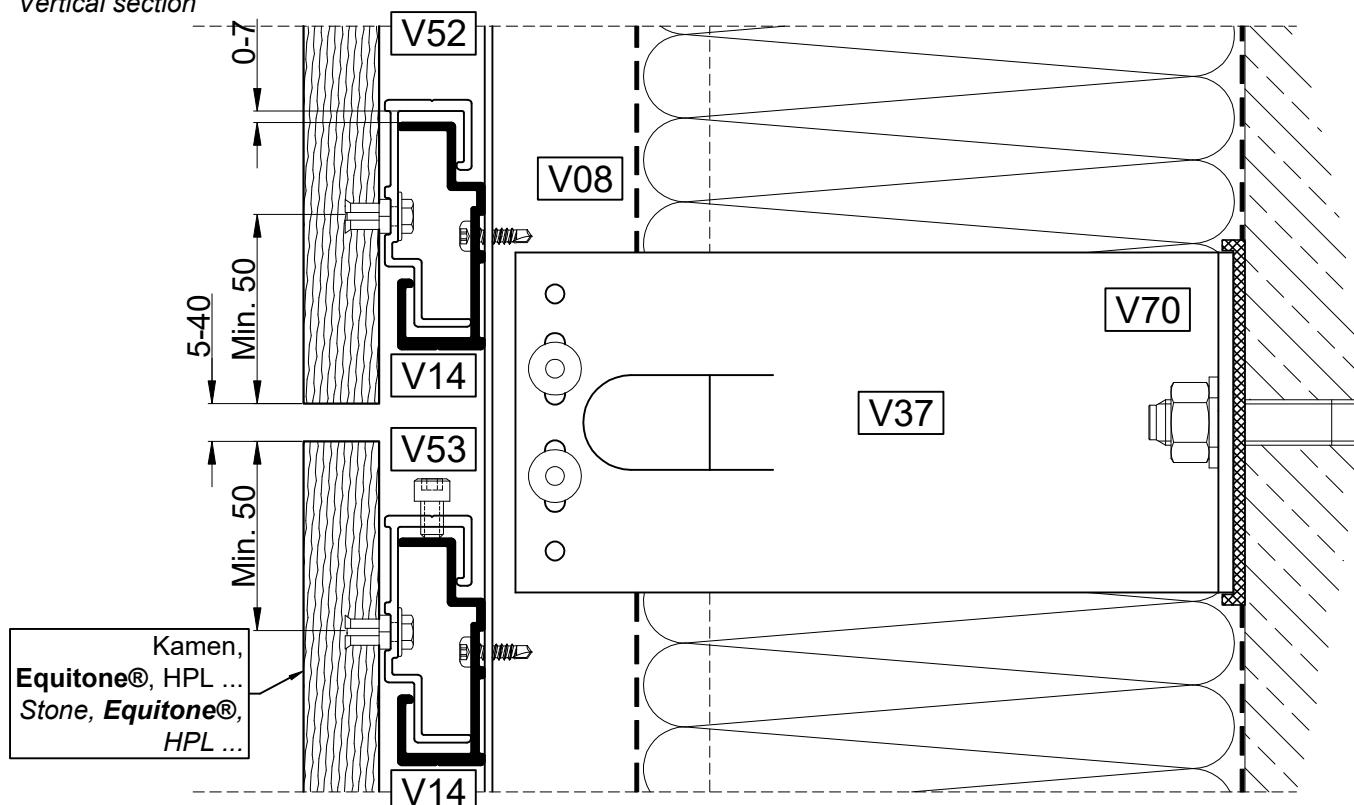
- a) Extruded load-bearing profiles are installed on the building according to the designed grid. The maximum recommended profile length and the spacing between adjacent vertical profiles are determined by static calculations. The profile length must not exceed 3500 mm, while the maximum spacing between adjacent load-bearing profiles must not exceed 1200 mm.
- b) The Hide system allows the façade cladding to be offset from the wall within a range of 93 mm to 410 mm*.
- c) The primary vertical and secondary load-bearing substructure consists of dedicated anchors and vertical load-bearing profiles (T, L, or Ω) that allow fine adjustment of the aluminum profiles in all directions, ensuring a perfectly planar façade surface. The connection can be either fixed or sliding, thanks to an integrated solution that allows both options. Connections are made using pop rivets or self-drilling stainless steel screws. Where thermal bridge interruption is required, specially designed plastic spacers are installed beneath the anchors.
- d) After installation of the vertical profiles, horizontal load-bearing rails (cat. no. V14) are installed. The connections are made using self-drilling stainless steel screws with secured joints.
- e) The selected panel type is processed by cutting the panels to installation dimensions and drilling anchor holes from the rear side using special milling tools at precisely designed positions for the dedicated anchors. In workshop conditions, the panels are further prepared for façade installation by fixing profiled brackets to the panels using anchors, forming a permanent mechanical connection located at least 50 mm from the panel edge. The prepared panels are then delivered to the construction site.
- f) On site, the panels with pre-installed brackets are mounted onto the rails and easily positioned in their designed locations. Final alignment is achieved using adjustment screws, after which the panels are secured to the rail in the upper zone. The system provides for a panel gap ranging from 5 mm to 40 mm, while the minimum panel thickness is 8 mm.

* These dimensions are supported by standard VENT system anchors. For larger offsets, please refer to the technical catalogue (sections 5.19-5.24) and the TMTP catalogue.

Horizontalni presek
Horizontal section

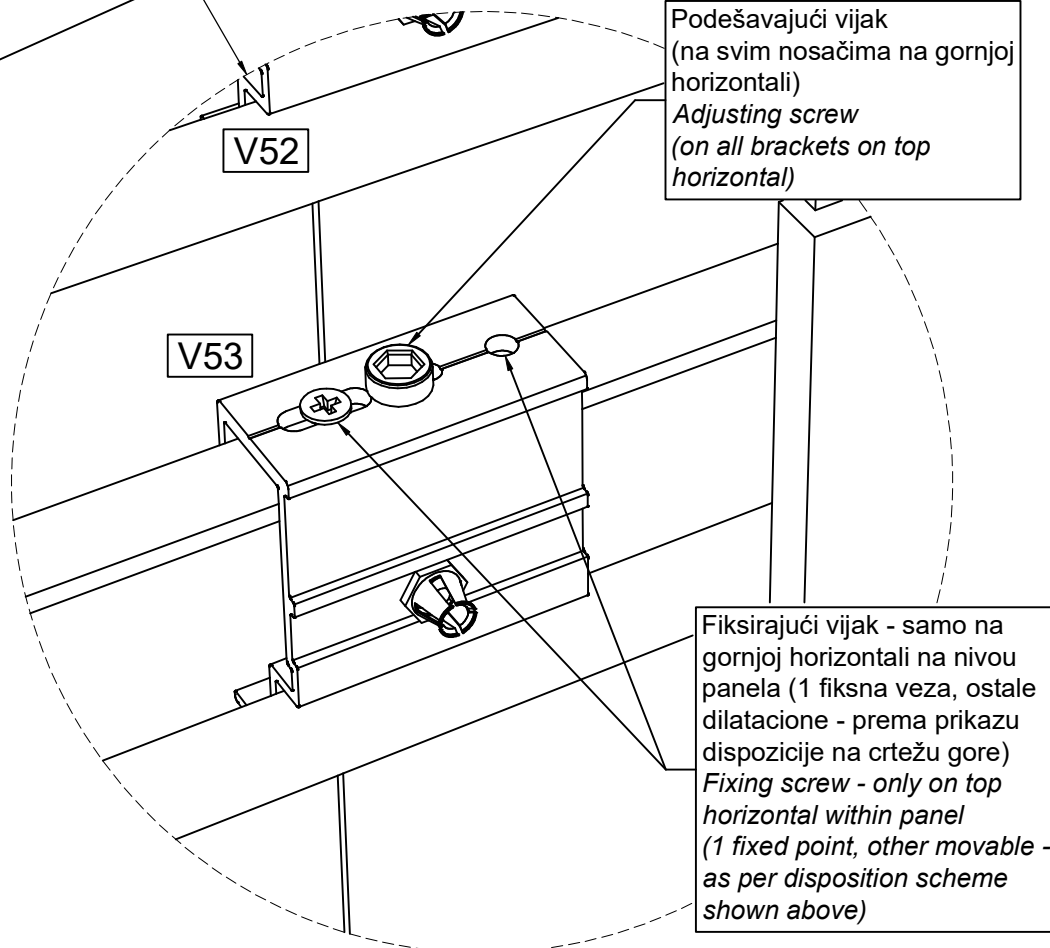
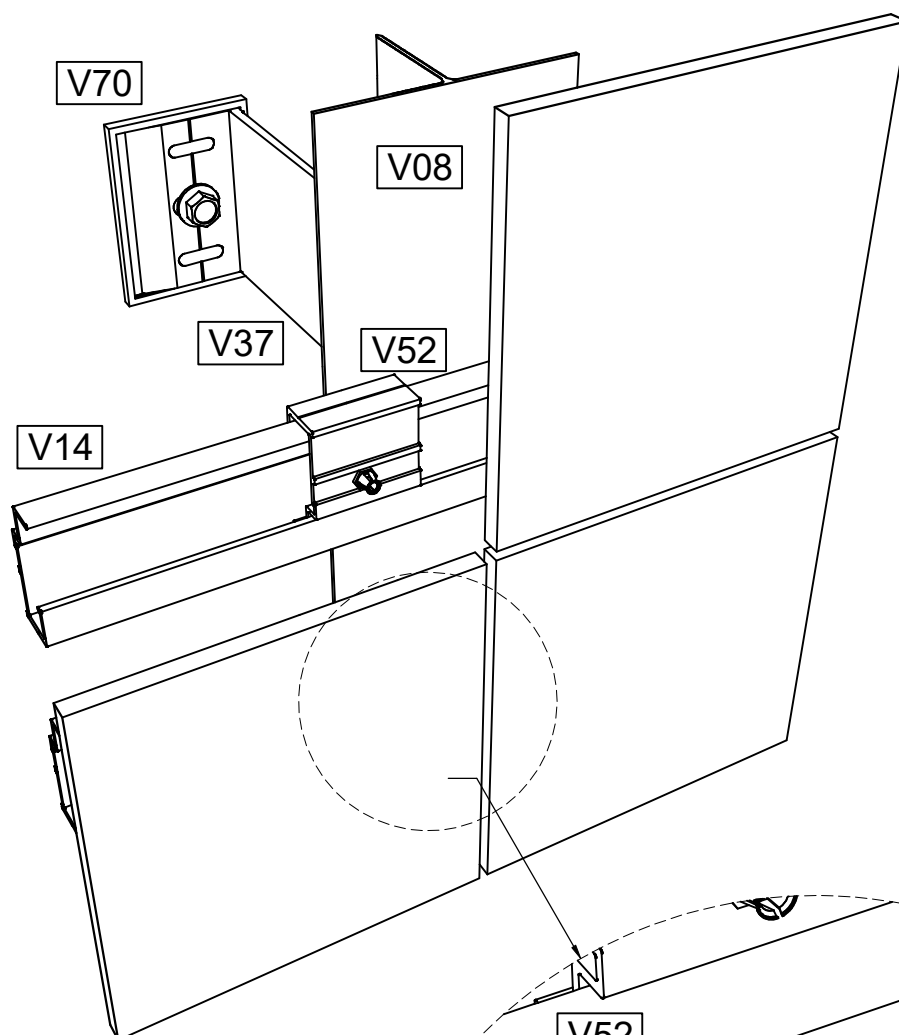
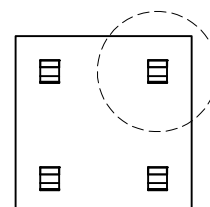
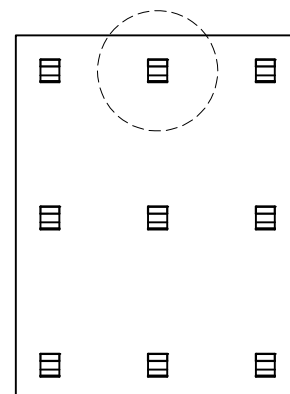


Vertikalni presek
Vertical section



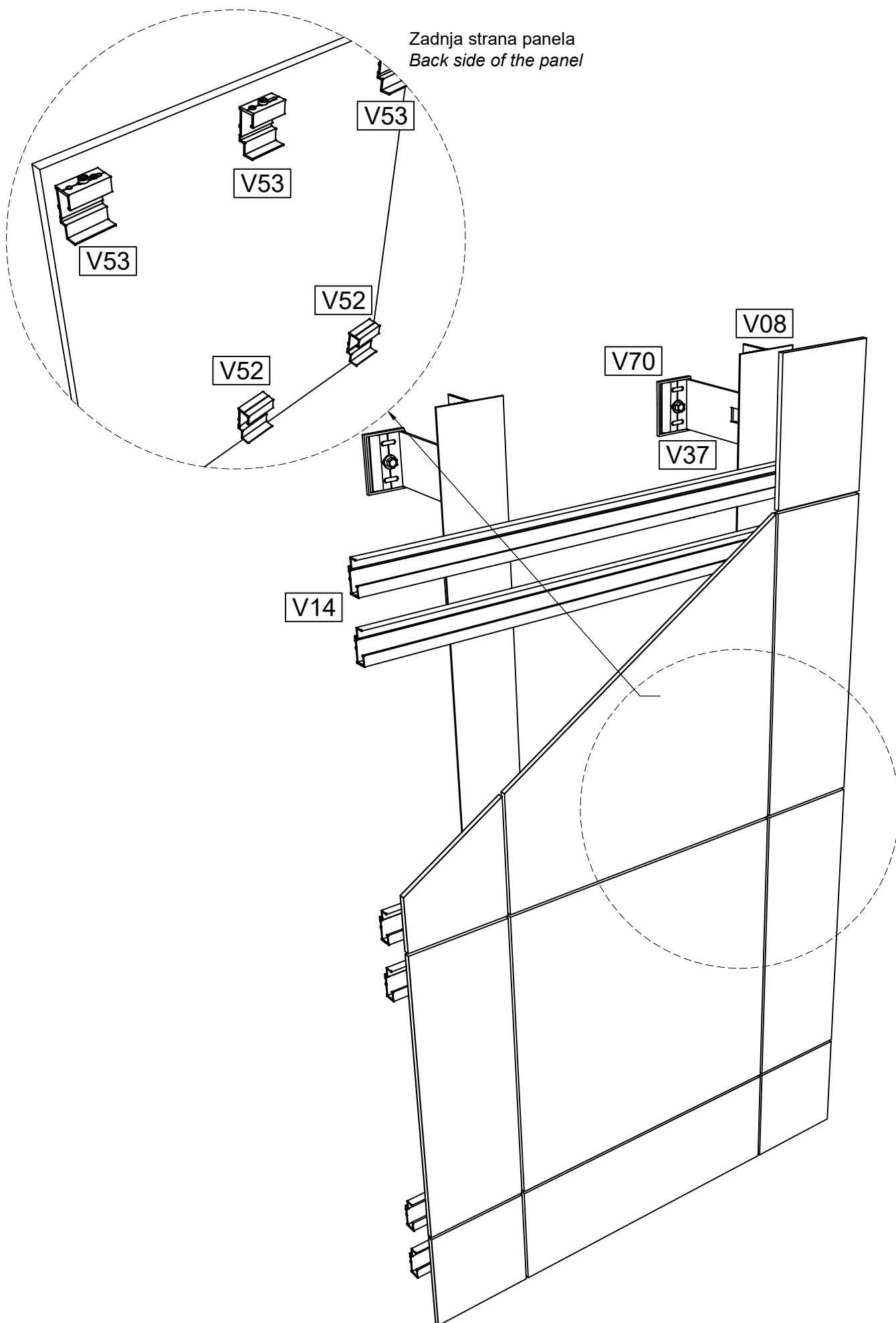


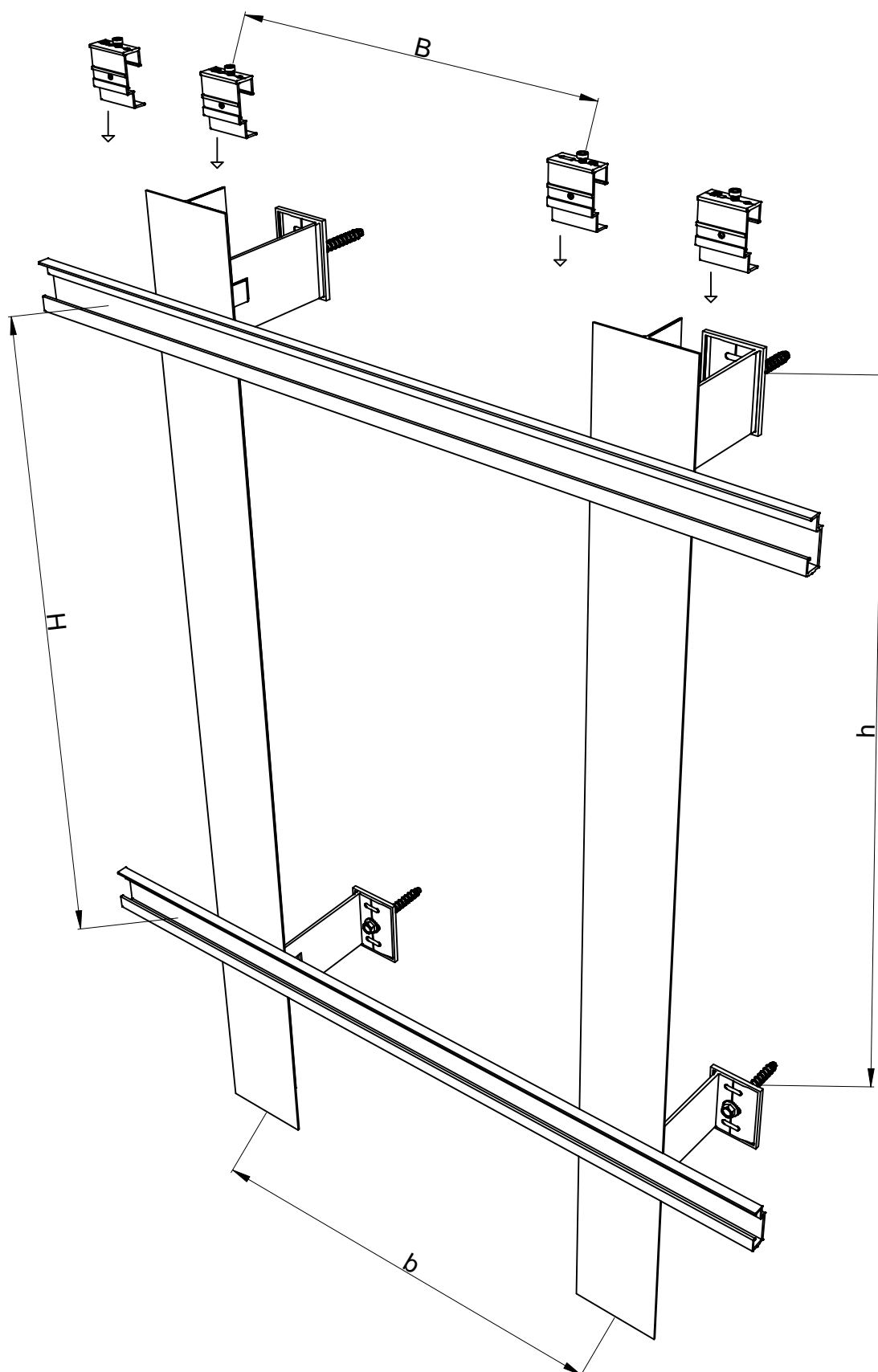
Pozicija fiksnog nosača
Fixed bracket disposition



Podešavajući vijak
(na svim nosačima na gornjoj
horizontali)
Adjusting screw
(on all brackets on top
horizontal)

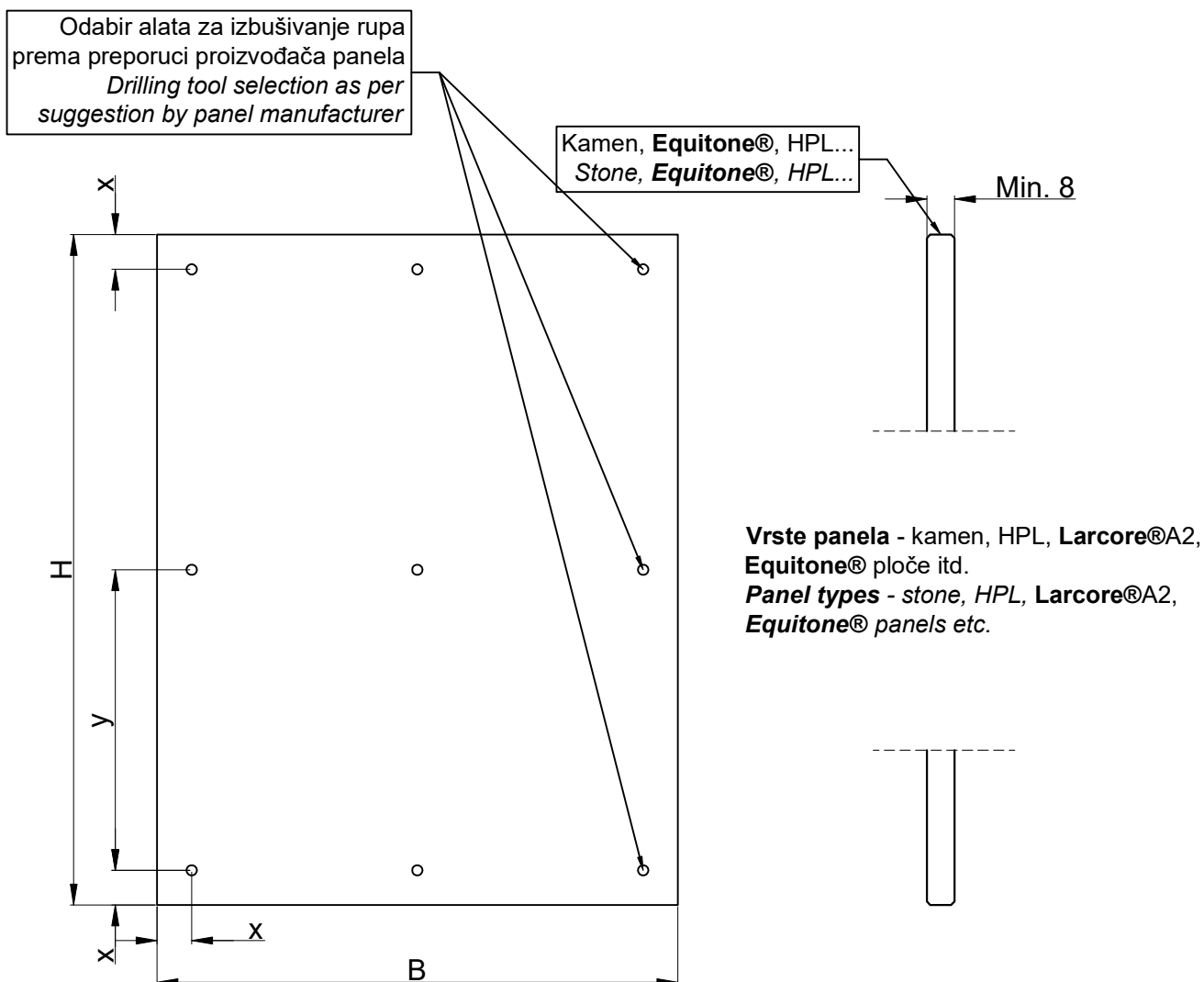
Fiksirajući vijak - samo na
gornjoj horizontali na nivou
panela (1 fiksna veza, ostale
dilatacione - prema prikazu
dispozicije na crtežu gore)
Fixing screw - only on top
horizontal within panel
(1 fixed point, other movable -
as per disposition scheme
shown above)





b, h - prema statičkom proračunu, ali ne više od 1200mm
b, h - according to structural analysis, but no more than 1200mm

B, H - prema statičkom proračunu i u zavisnosti od primenjenog materijala obloge, ali ne više od 900mm
B, H - according to structural analysis and depending on applied cladding material, but no more than 900mm



B - projektovana širina panela - uz ograničenja prema specifikaciji proizvođača panela

B - *designed panel width - within limitations according to specification by manufacturer*

H - projektovana visina panela - uz ograničenja prema specifikaciji proizvođača panela

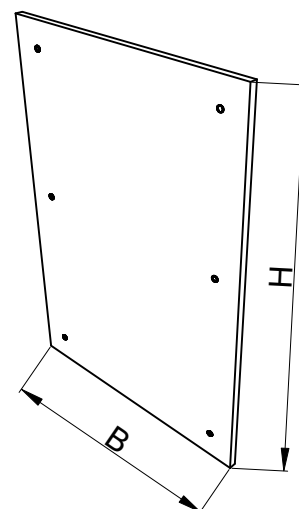
H - *designed panel height - within limitations according to specification by manufacturer*

x - u zavisnosti od odabira materijala obloge, ali ne manje od 50mm

x - *depending on the selection of cladding material, but no less than 50mm*

y - u zavisnosti od odabira materijala obloge i prema specifikaciji proizvođača panela i statičkom proračunu

y - *depending on the selection of cladding material and according to specification by panel manufacturer and structural analysis*



Vertikalni presek
Vertical section

Detalj okapnice i parapeta
Window sill and parapet detail

Aluminijumski lim #3mm
Aluminum sheet #3mm

LINEAL

110

L4040

Aluminijumski lim #3mm
Aluminum sheet #3mm

V53

V14

V52

V70

V37

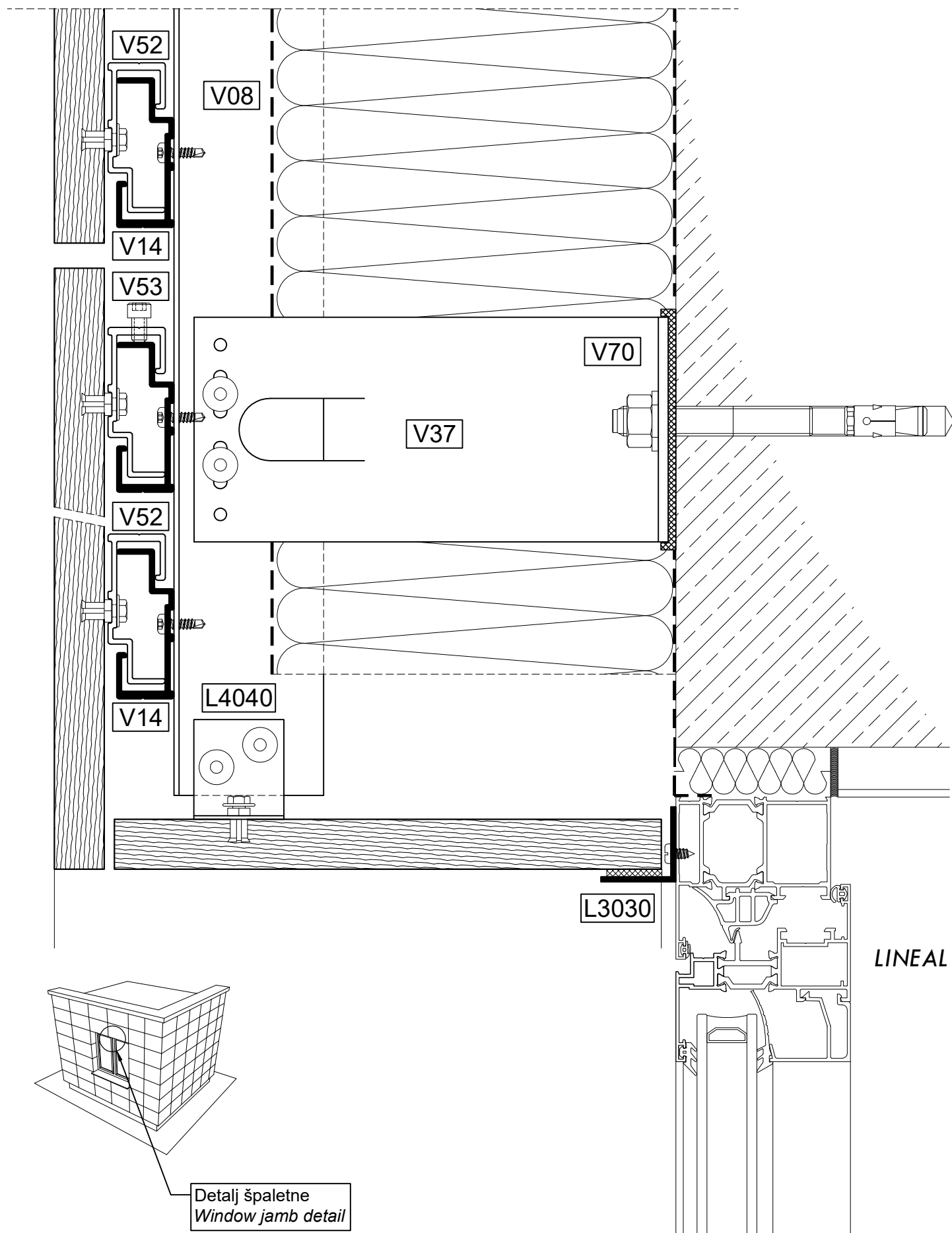
V14

V53

V08

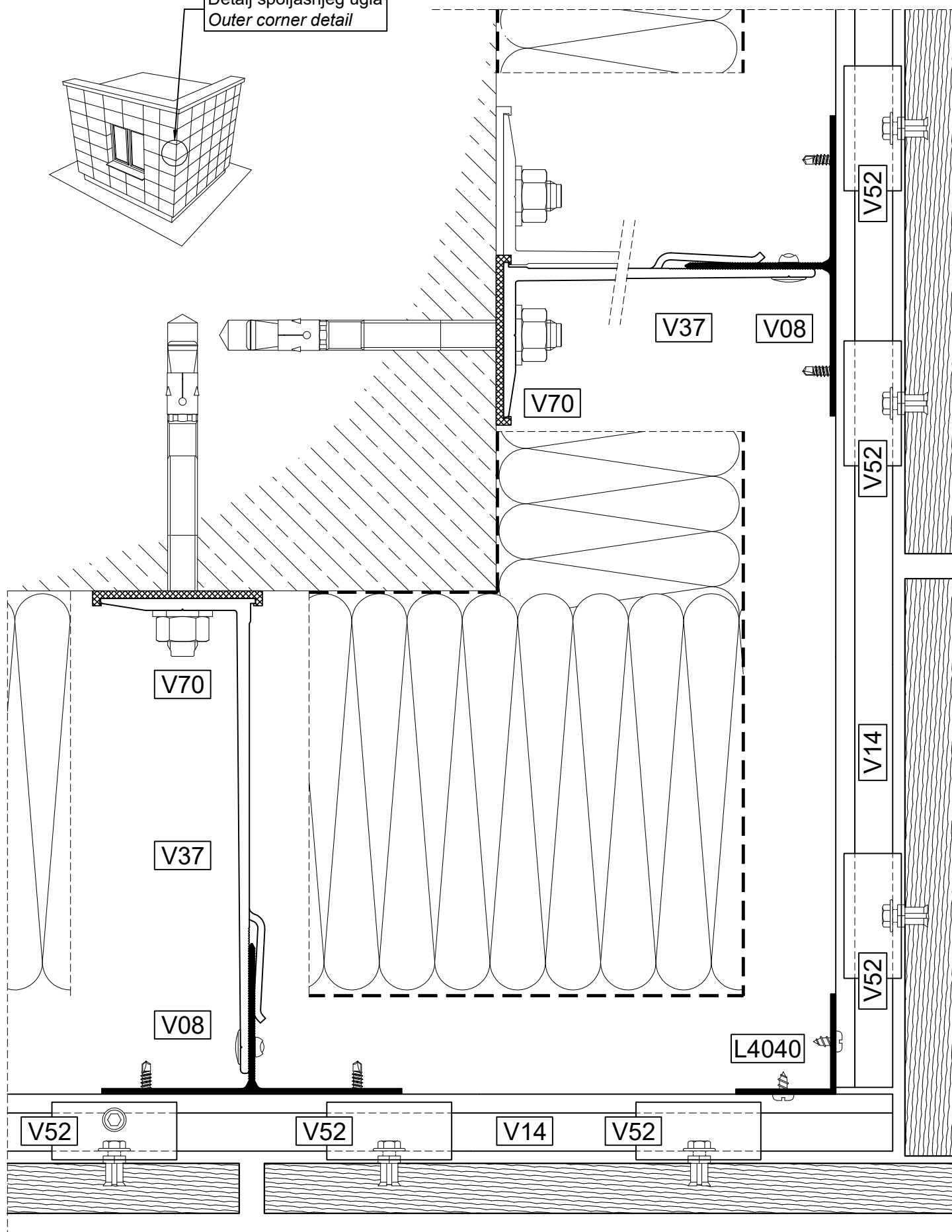
V14

Vertikalni presek
Vertical section



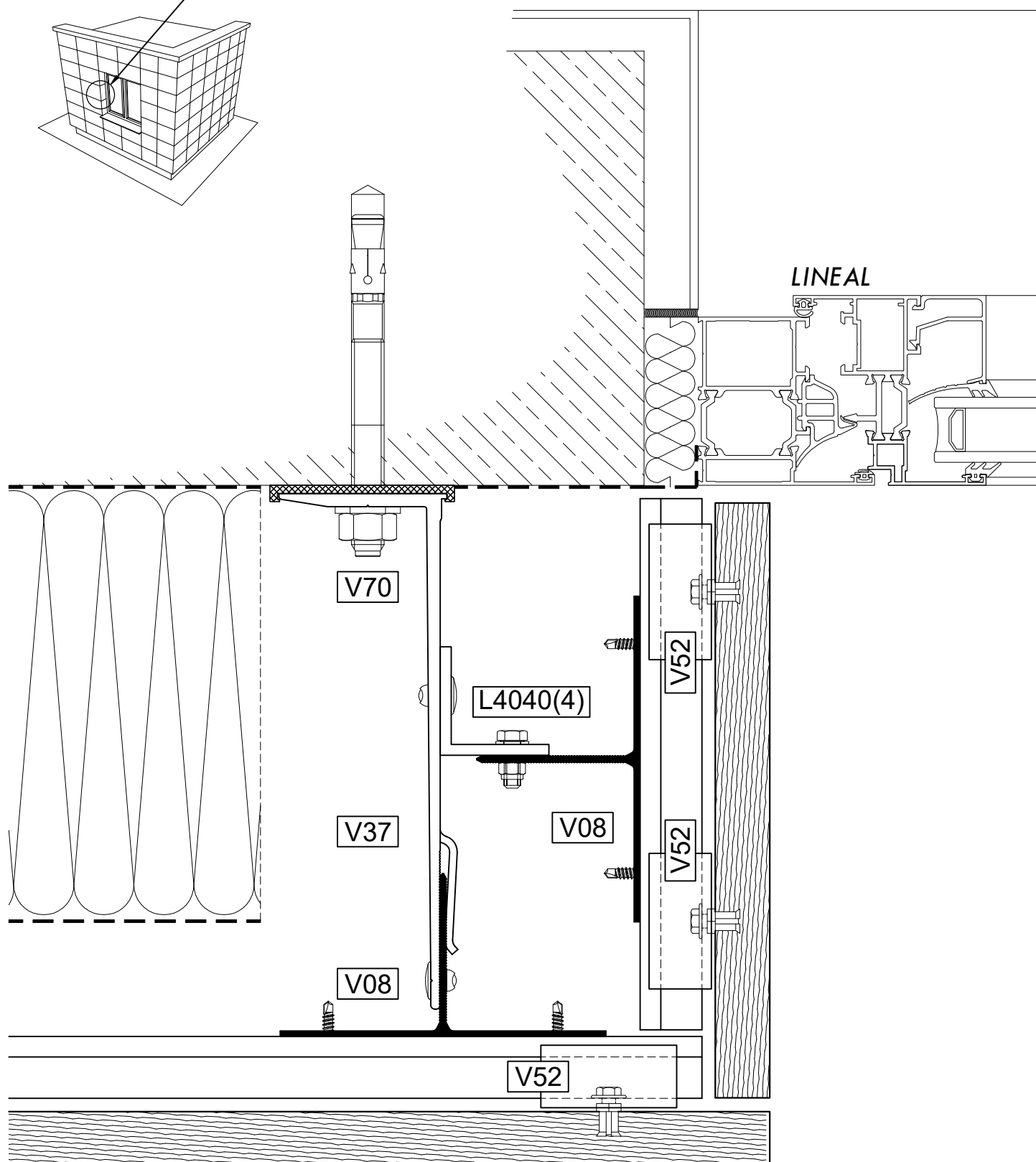
Horizontalni presek
Horizontal section

Detalj spoljašnjeg ugla
Outer corner detail

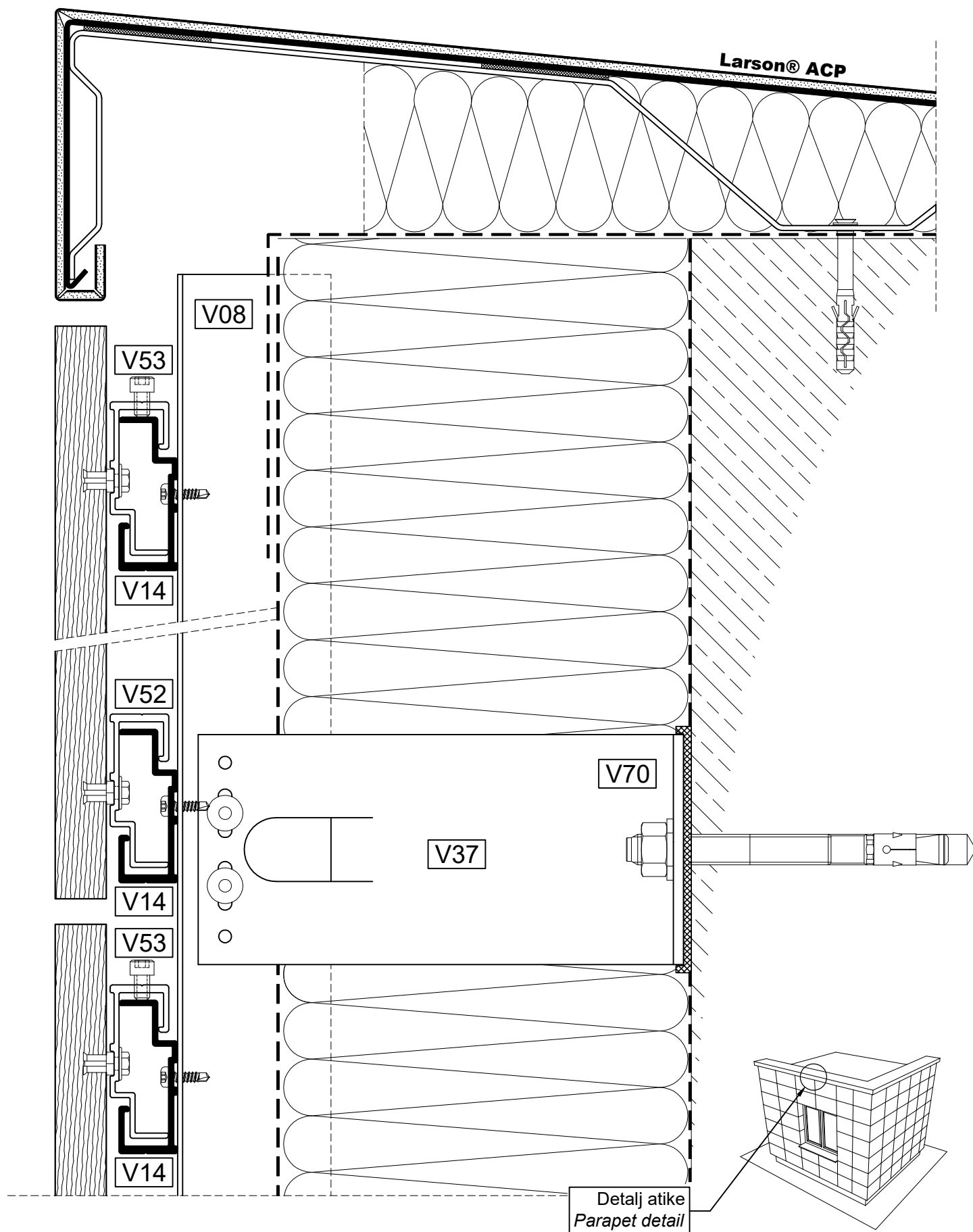


Horizontalni presek
Horizontal section

Detalj špaletne
Window jamb detail

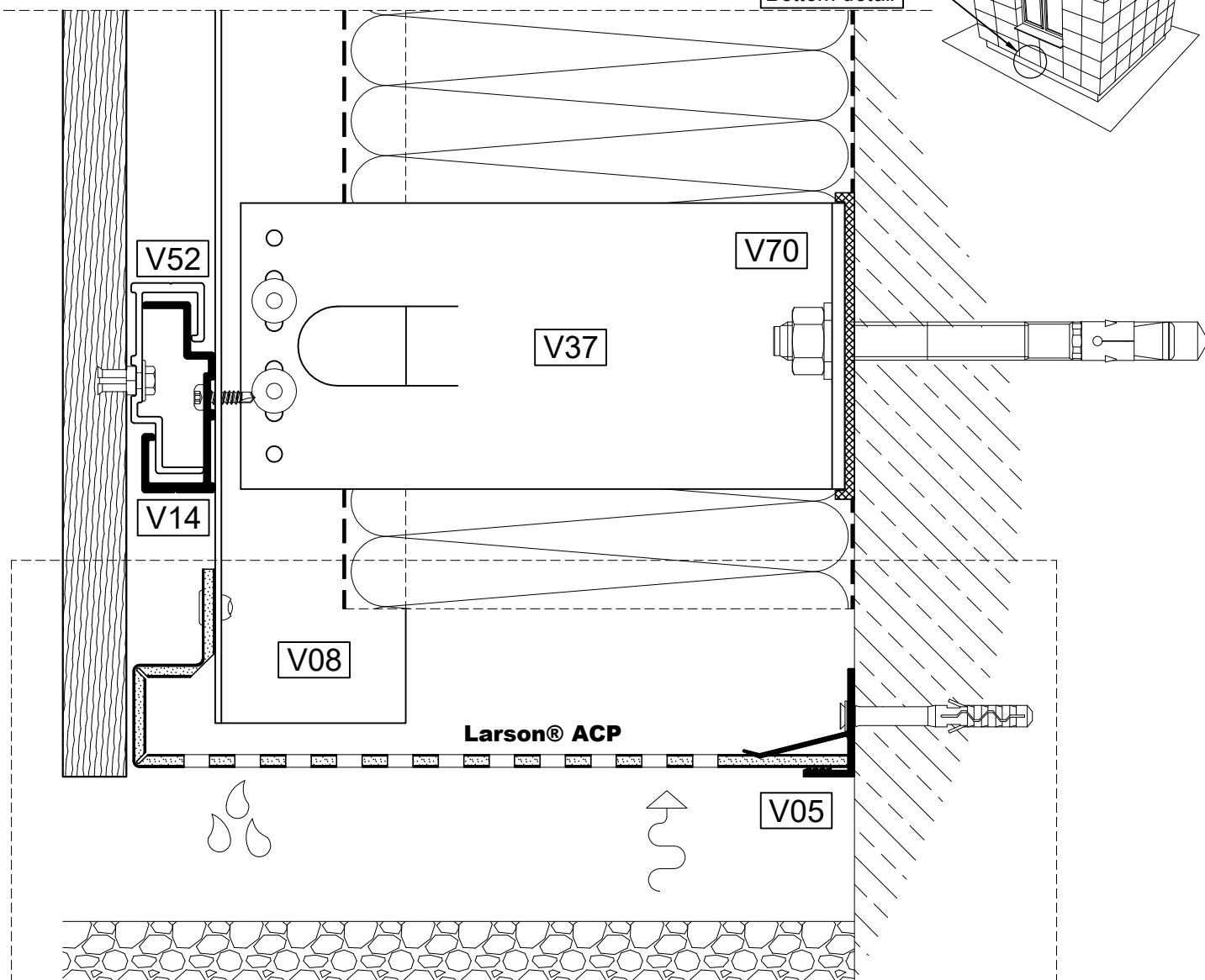
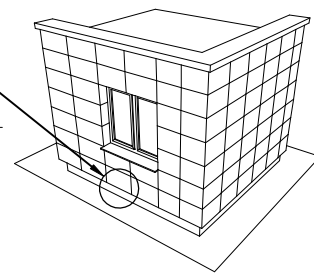


Vertikalni presek
Vertical section

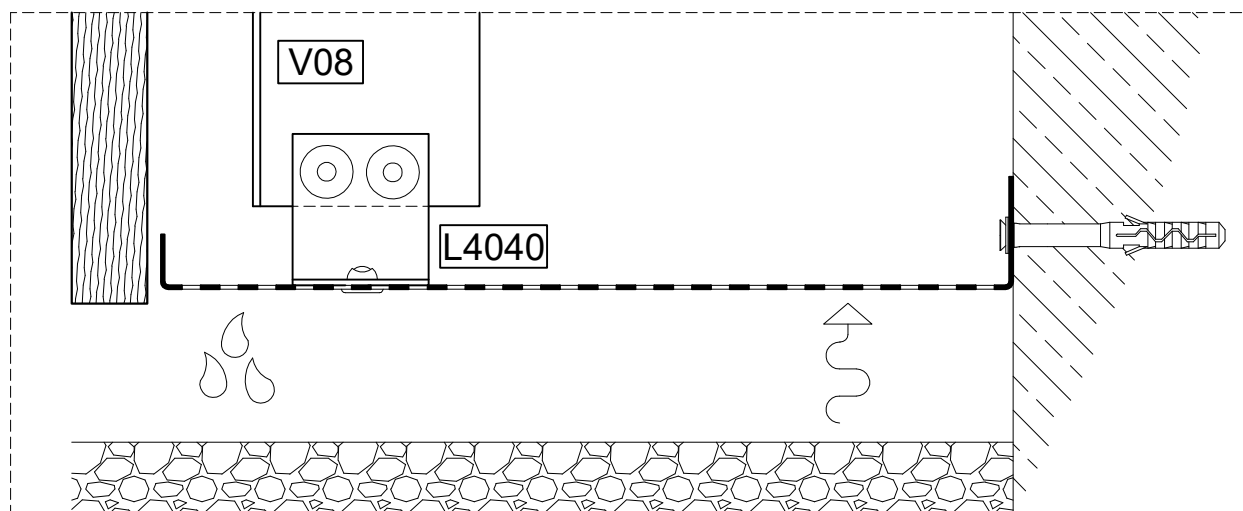


Vertikalni presek
Vertical section

Donji detalj
Bottom detail

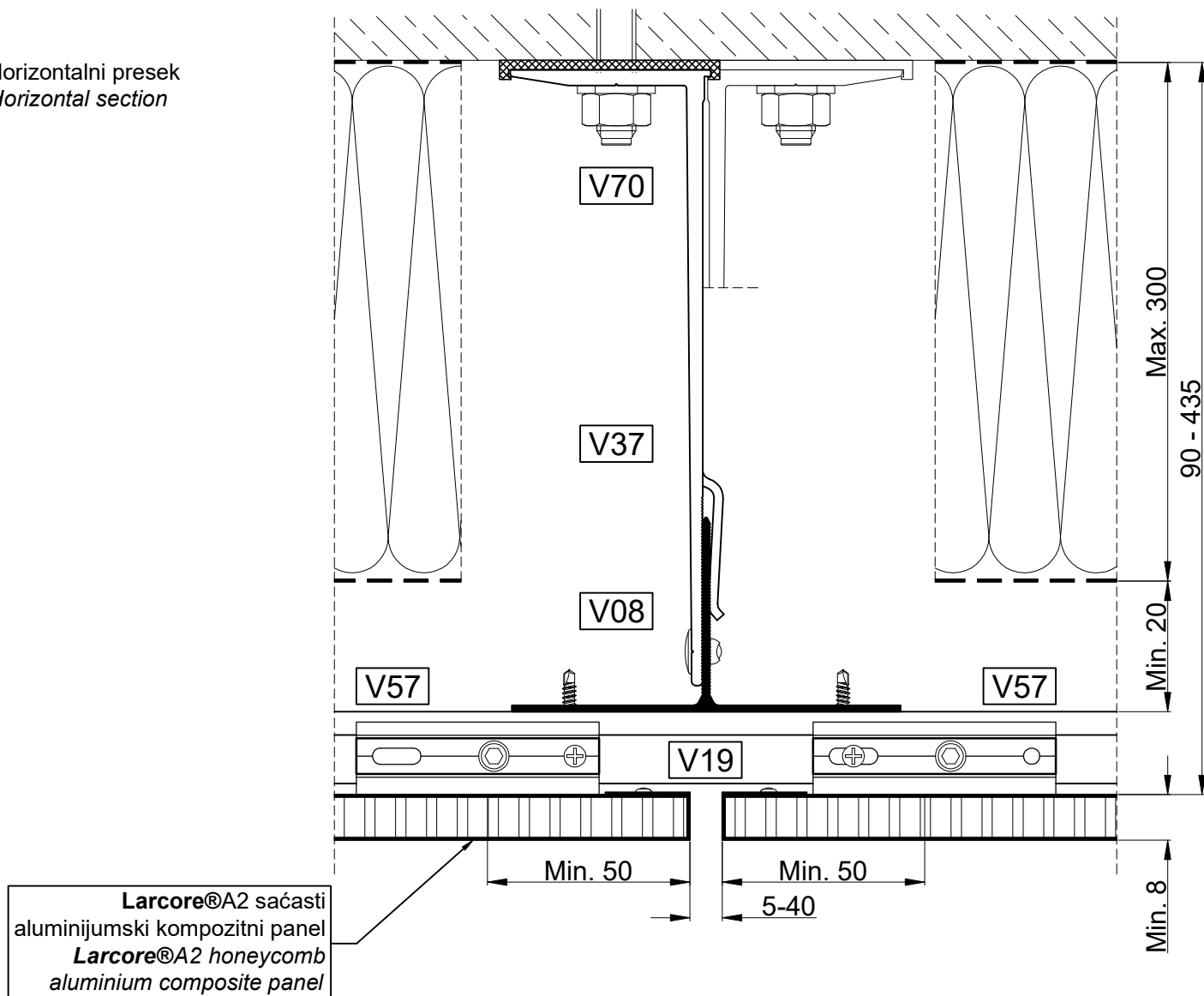


Opcija drenaže: perforirani aluminijumski kompozitni panel
Drainage option: perforated aluminium composite panel

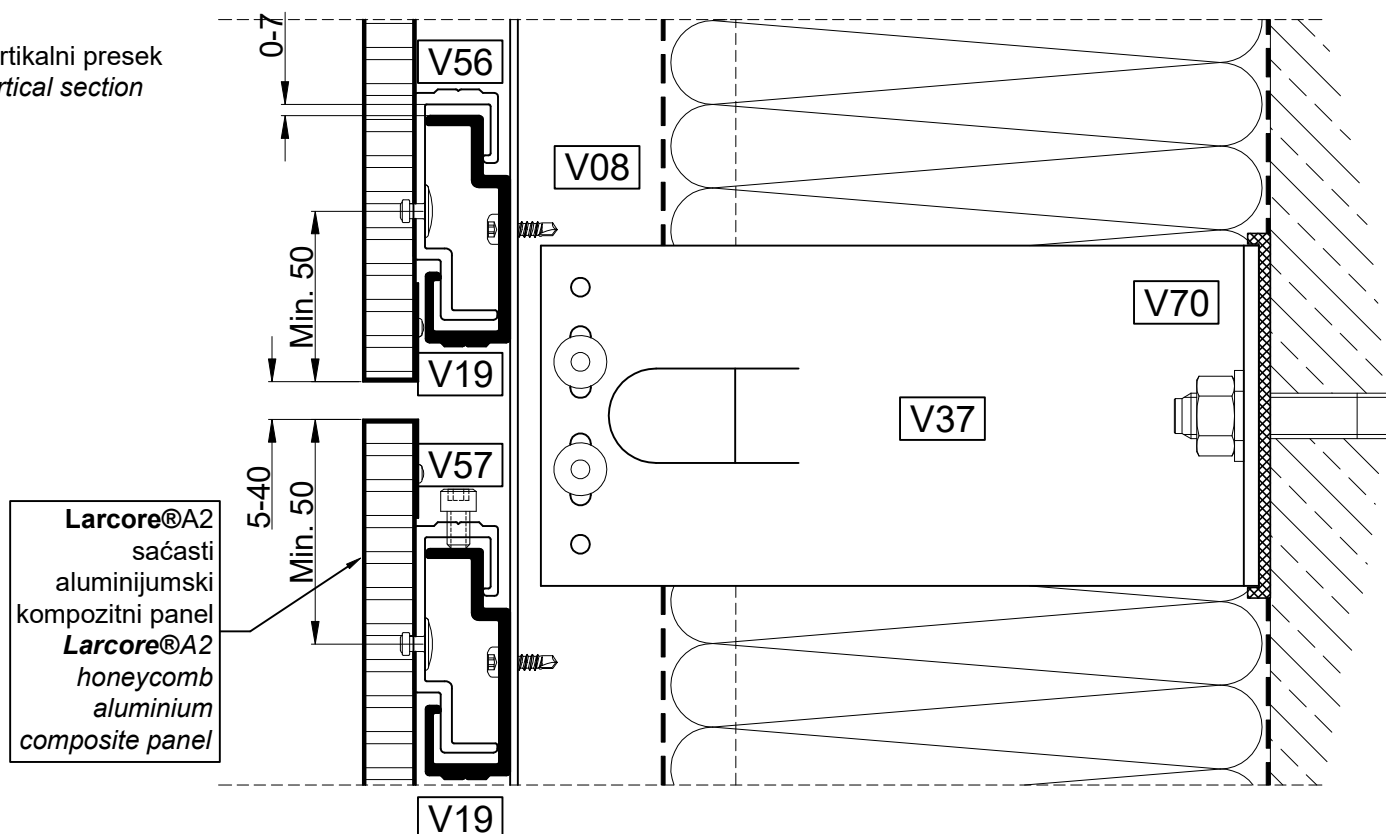


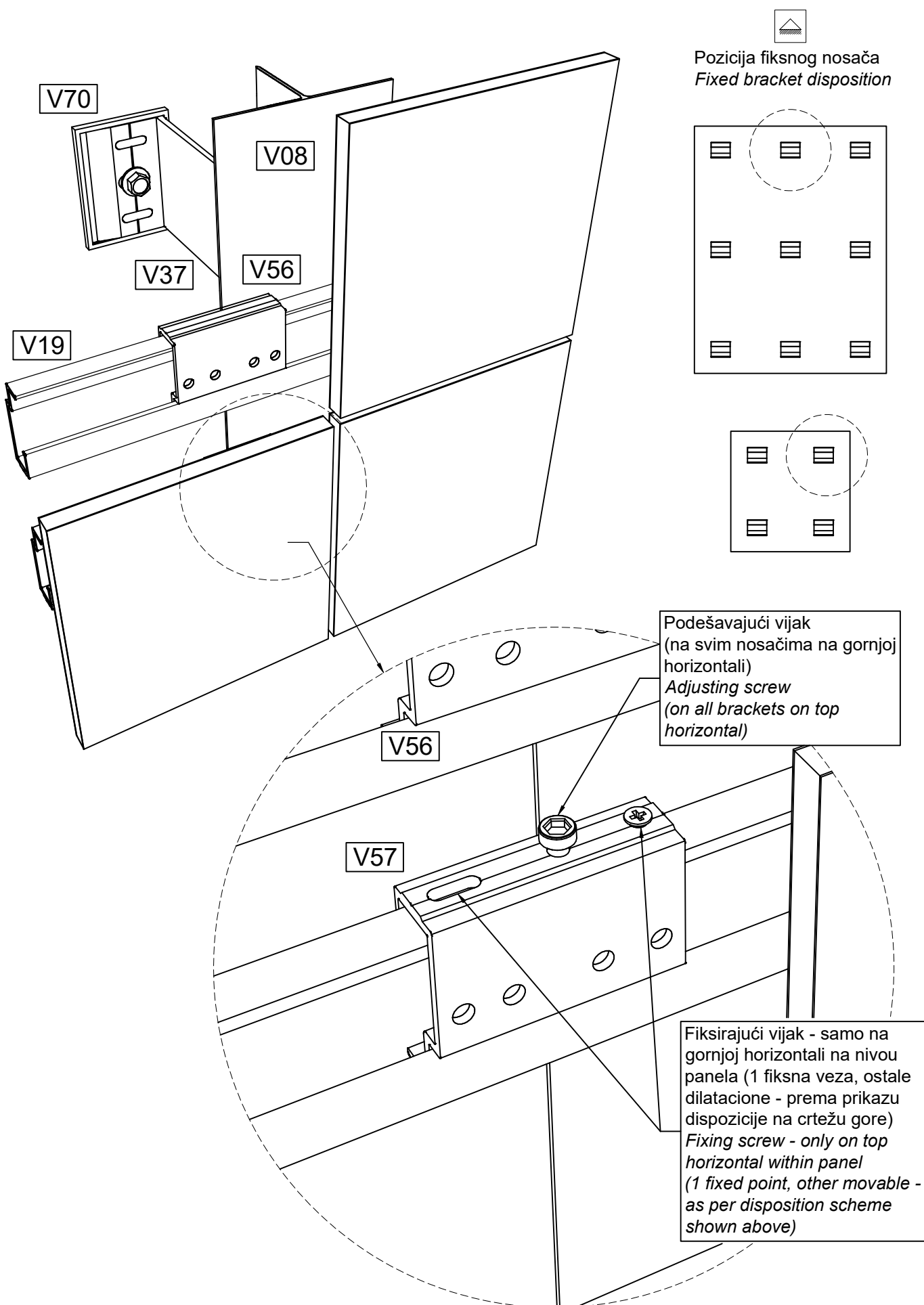
Opcija drenaže: perforirani aluminijumski lim
Drainage option: perforated aluminium sheet

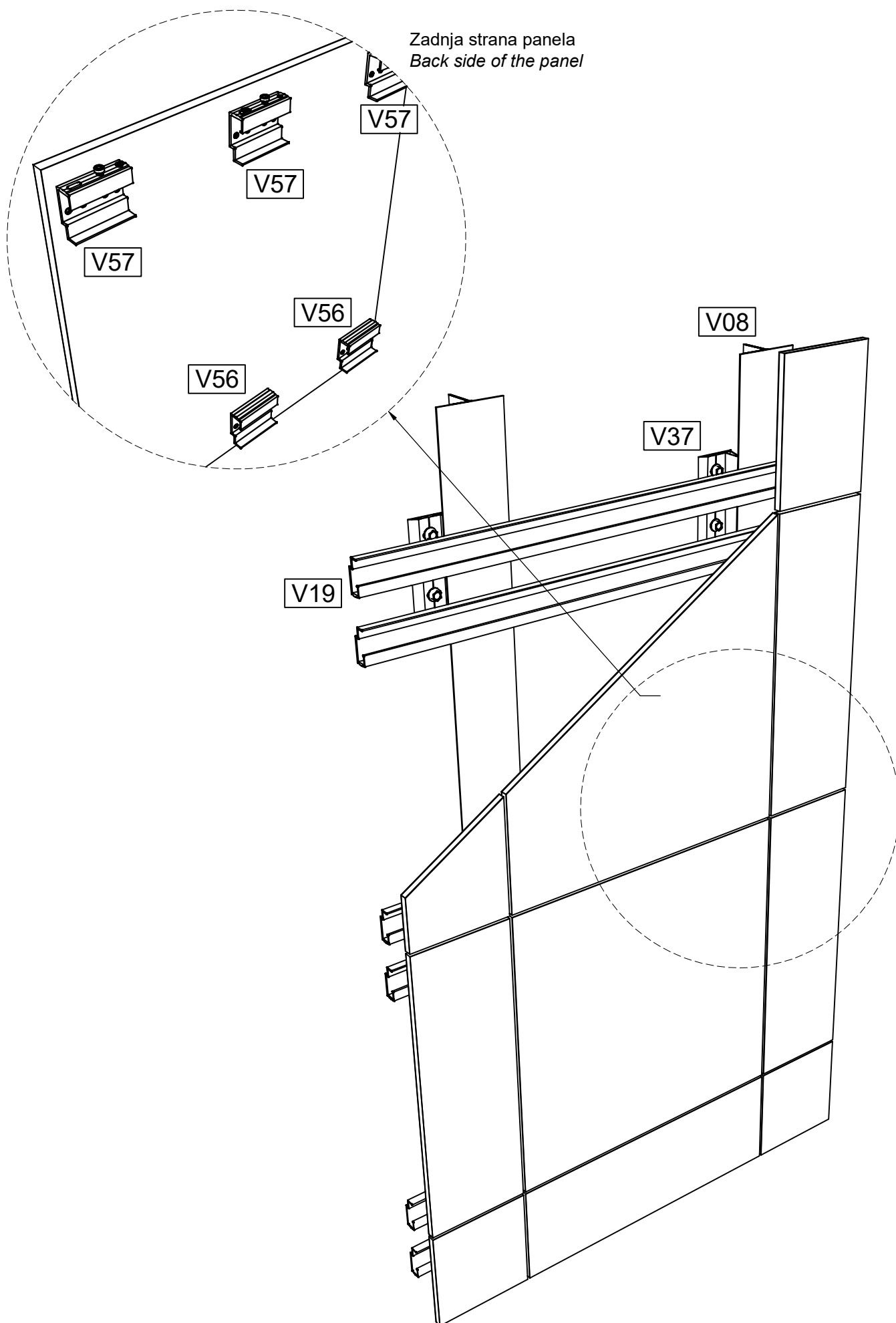
Horizontalni presek
Horizontal section



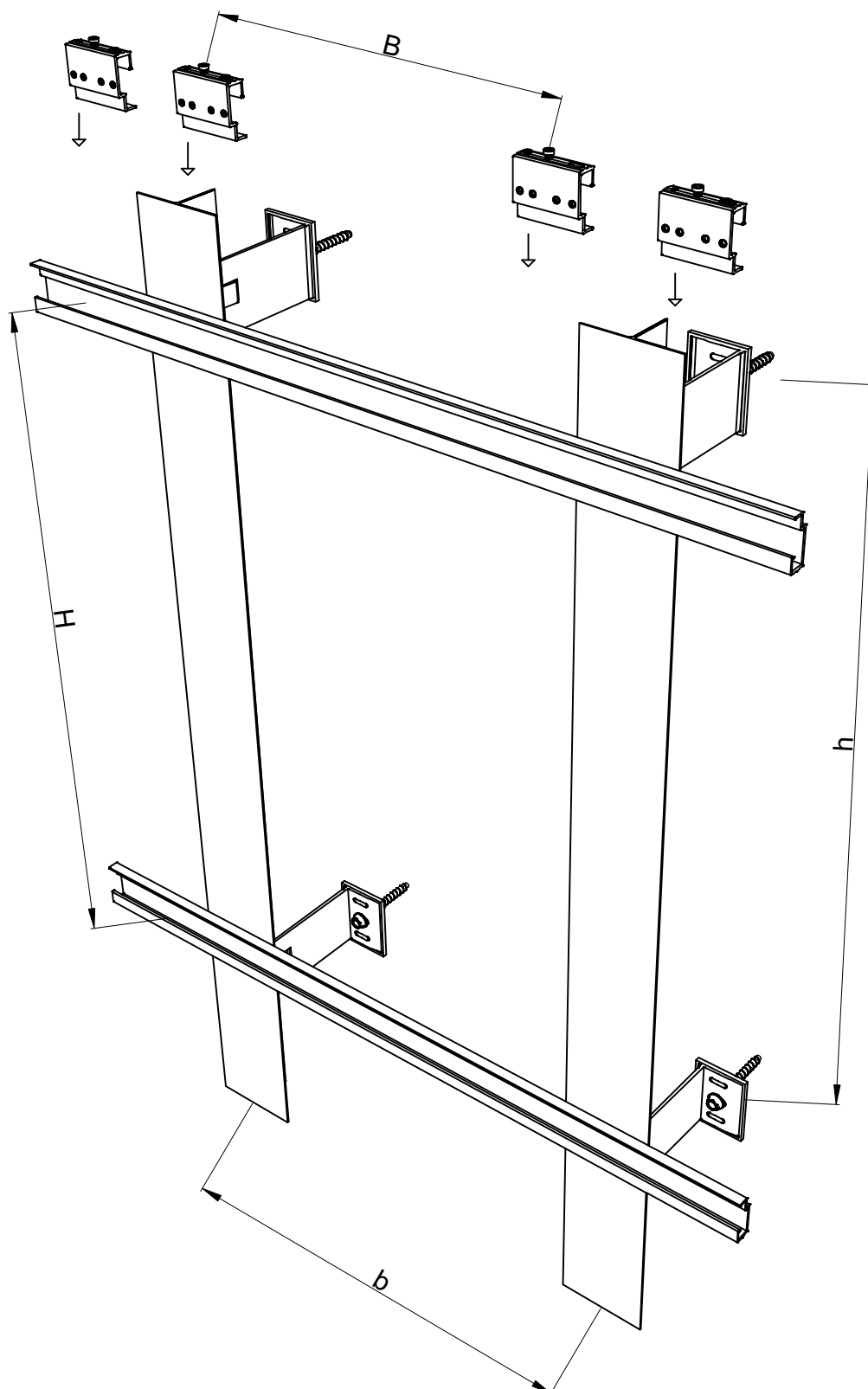
Vertikalni presek
Vertical section







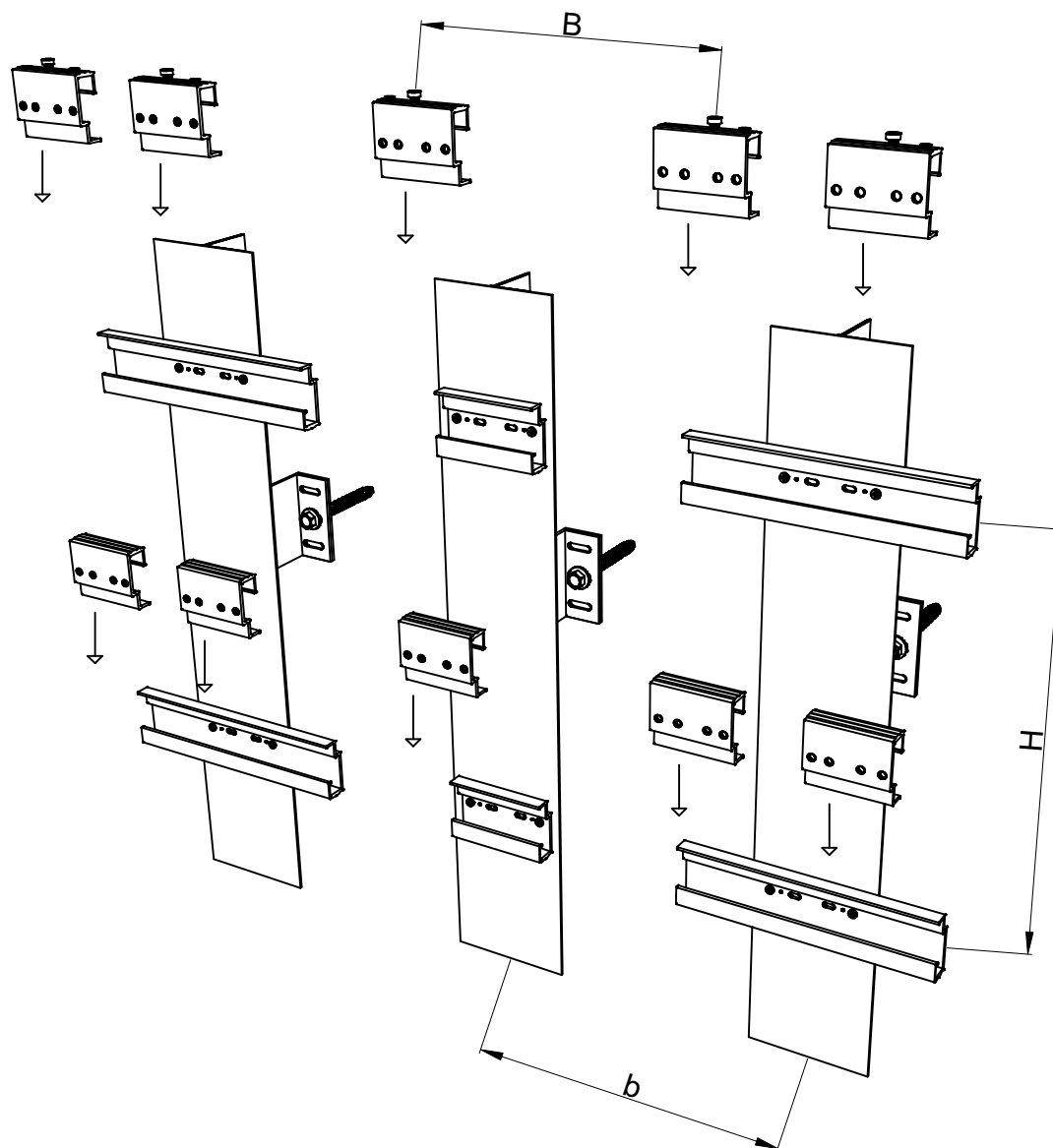
Opcija: noseći horizontalni profili
Option: horizontal load-bearing profiles



b, h - prema statičkom proračunu, ali ne više od 1200mm
b, h - according to structural analysis, but no more than 1200mm

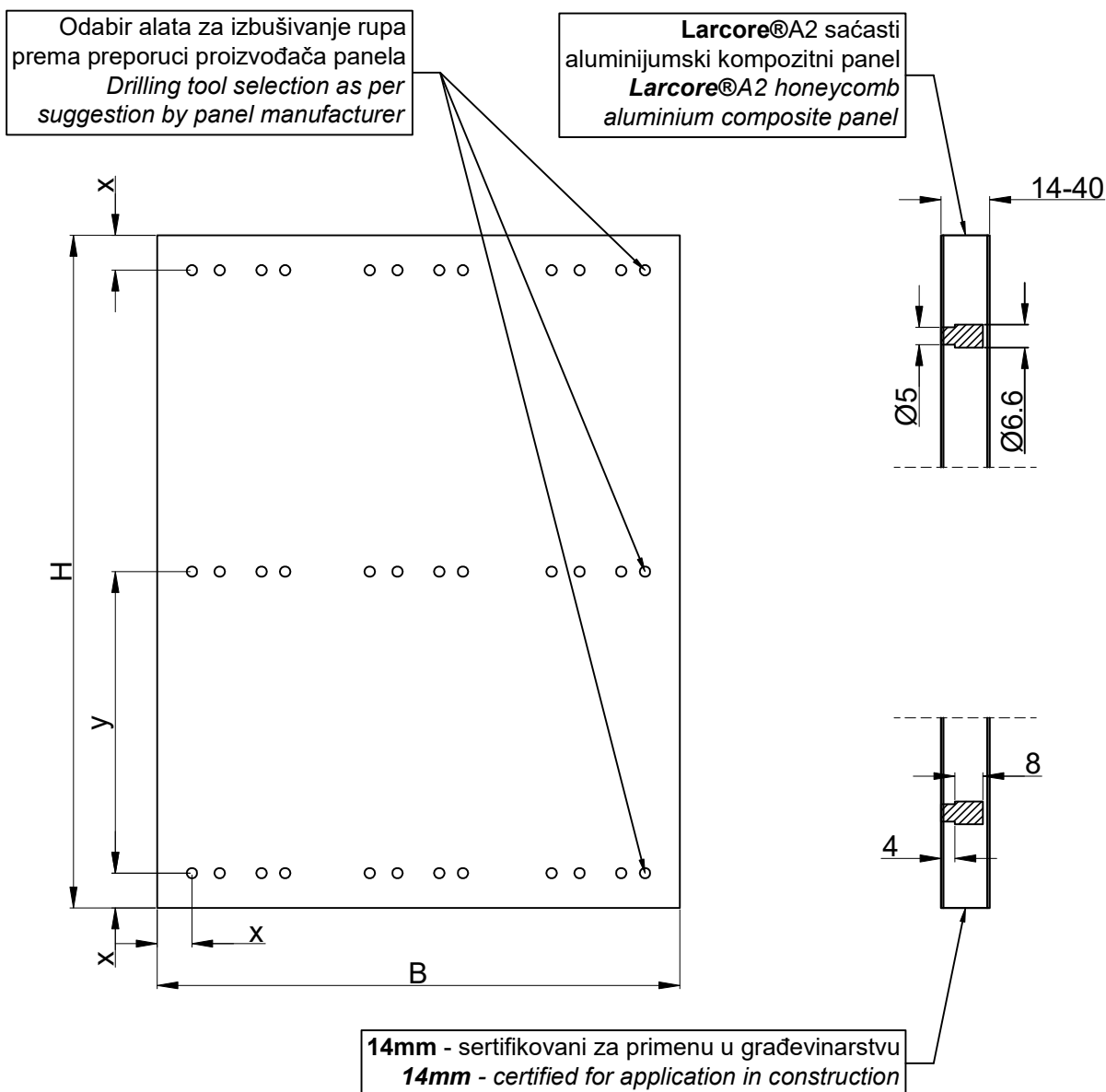
B, H - prema statičkom proračunu i u zavisnosti od primenjenog materijala obloge, ali ne više od 900mm
B, H - according to structural analysis and depending on applied cladding material, but no more than 900mm

Opcija: noseći vertikalni profili
Option: vertical load-bearing profiles



b, h - prema statičkom proračunu, ali ne više od 1200mm
 b, h - according to structural analysis, but no more than 1200mm

B, H - prema statičkom proračunu i u zavisnosti od primenjenog materijala obloge, ali ne više od 900mm
 B, H - according to structural analysis and depending on applied cladding material, but no more than 900mm



B - projektovana širina panela - uz ograničenja prema specifikaciji proizvođača panela

B - designed panel width - within limitations according to specification by manufacturer

H - projektovana visina panela - uz ograničenja prema specifikaciji proizvođača panela

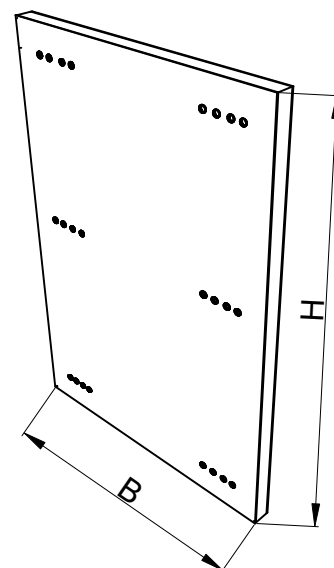
H - designed panel height - within limitations according to specification by manufacturer

x - u zavisnosti od odabira materijala obloge, ali ne manje od 50mm

x - depending on the selection of cladding material, but no less than 50mm

y - u zavisnosti od odabira materijala obloge i prema specifikaciji proizvođača panela i statičkom proračunu

y - depending on the selection of cladding material and according to specification by panel manufacturer and structural analysis



Vertikalni presek
Vertical section

Detalj okapnice i parapeta
Window sill and parapet detail

Aluminijumski lim #3mm
Aluminum sheet #3mm

LINEAL

110

L4040

Aluminijumski lim #3mm
Aluminum sheet #3mm

Larcore®A2

V57

V56

V19

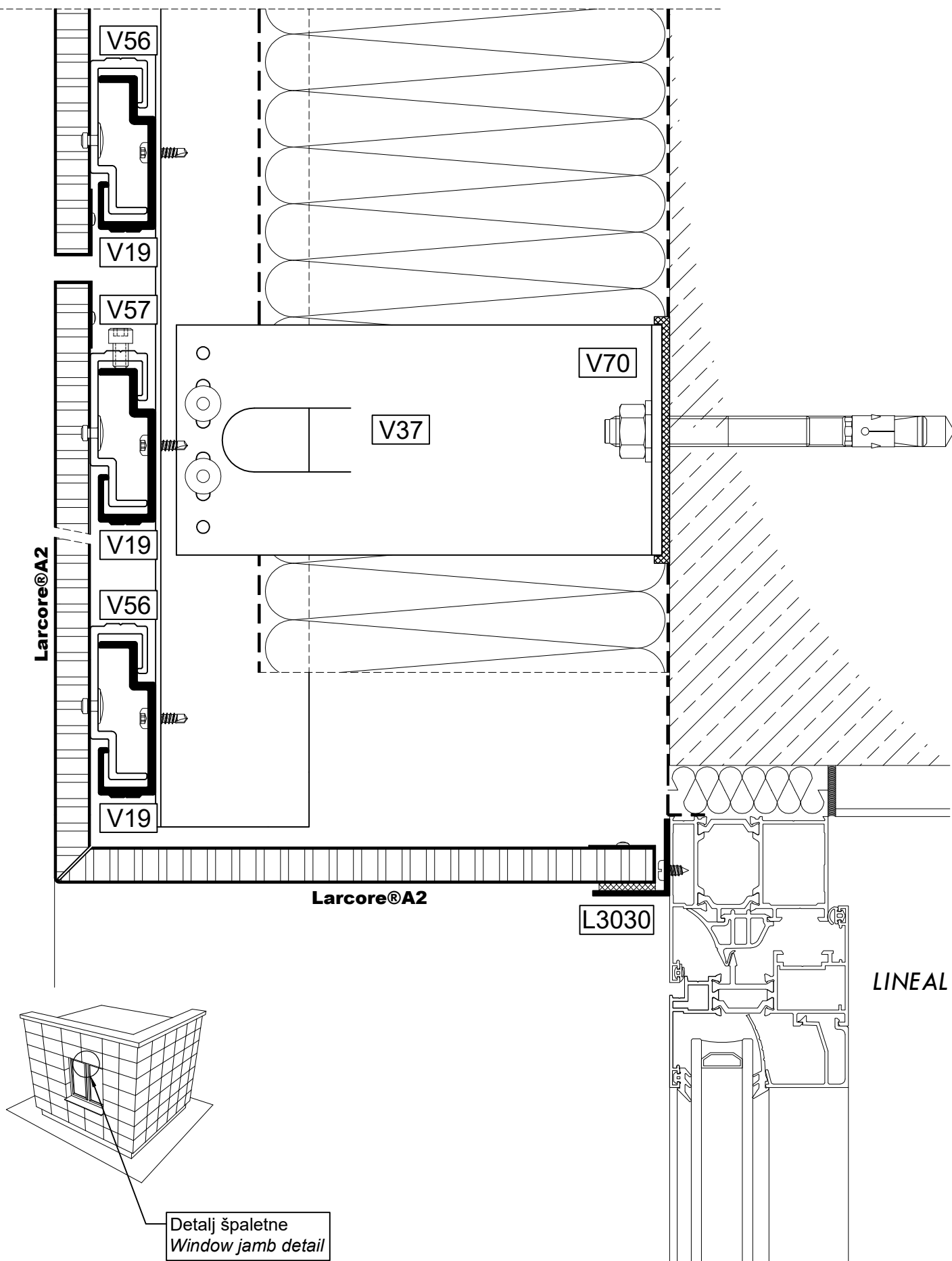
V57

V08

V37

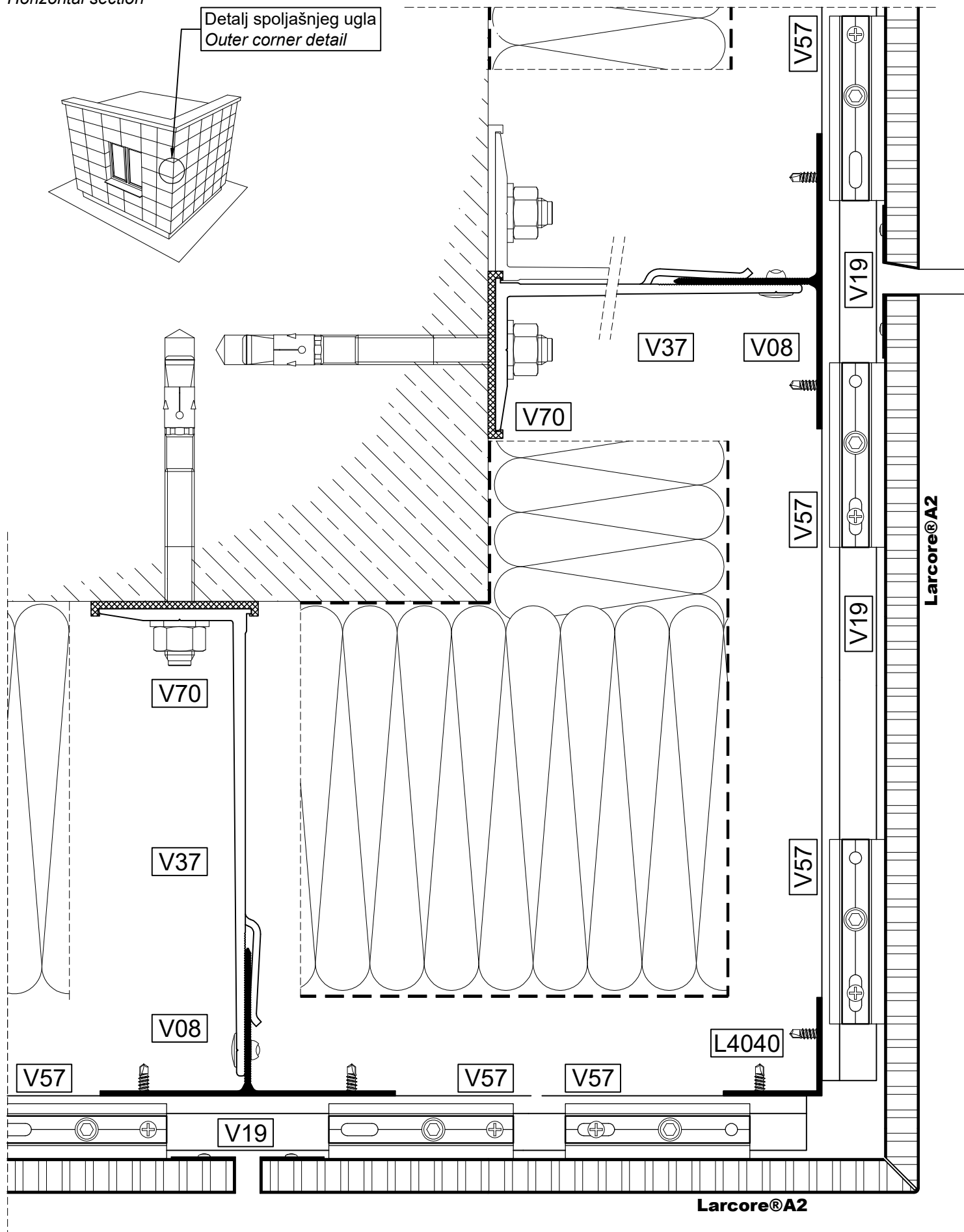
V70

Vertikalni presek
Vertical section



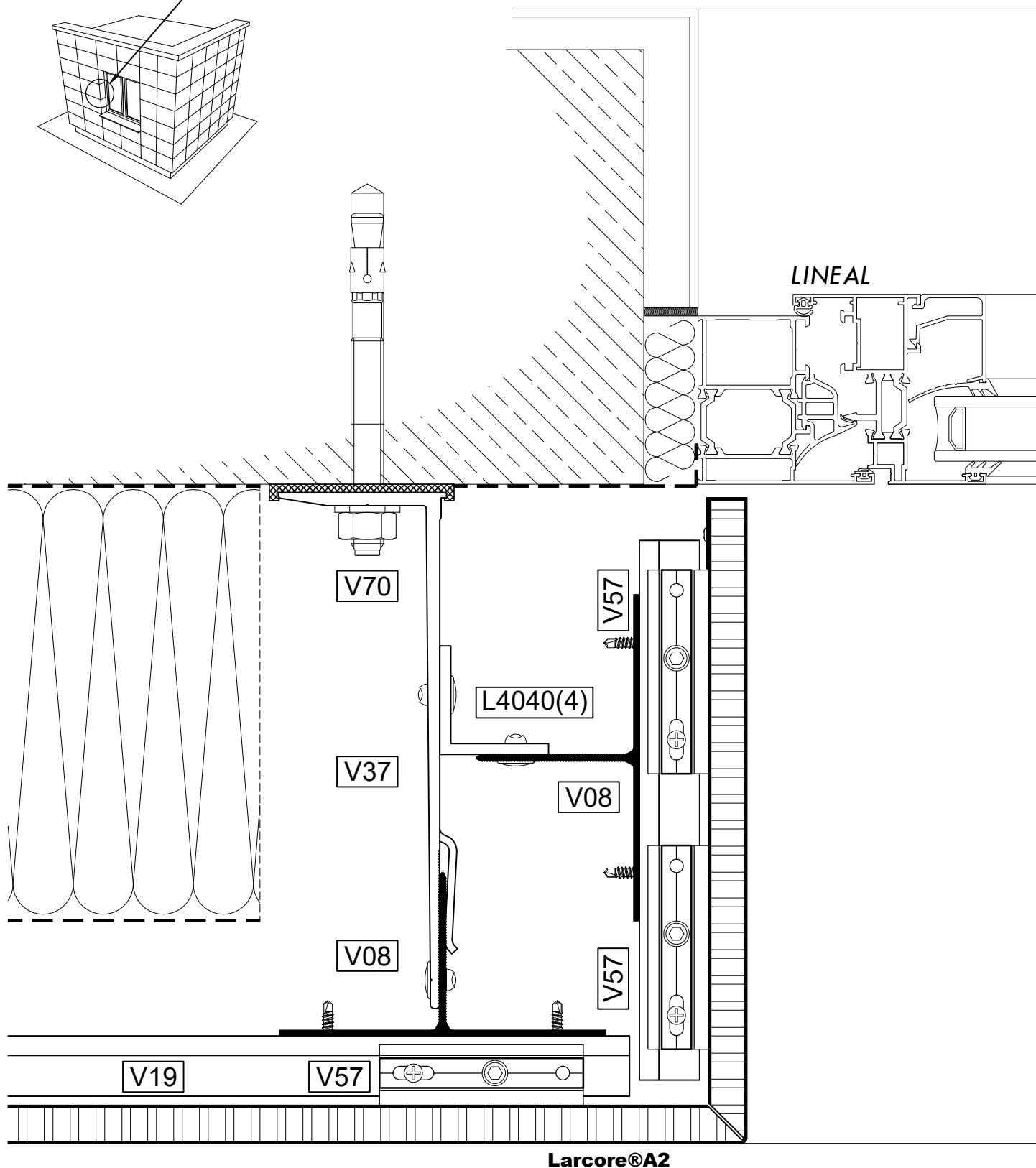
Horizontalni presek
Horizontal section

Detalj spoljašnjeg ugla
Outer corner detail

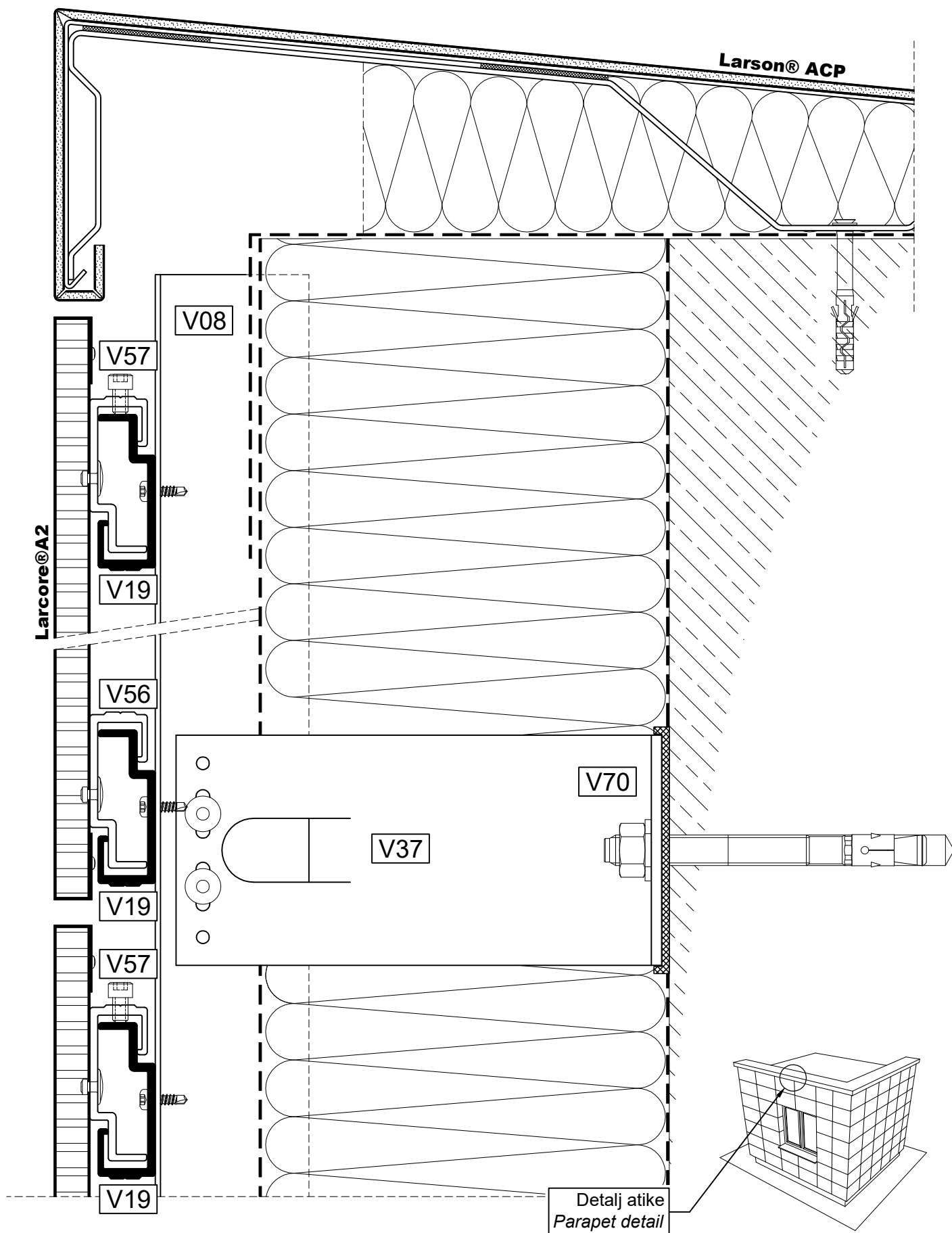


Horizontalni presek
Horizontal section

Detalj špaletne
Window jamb detail

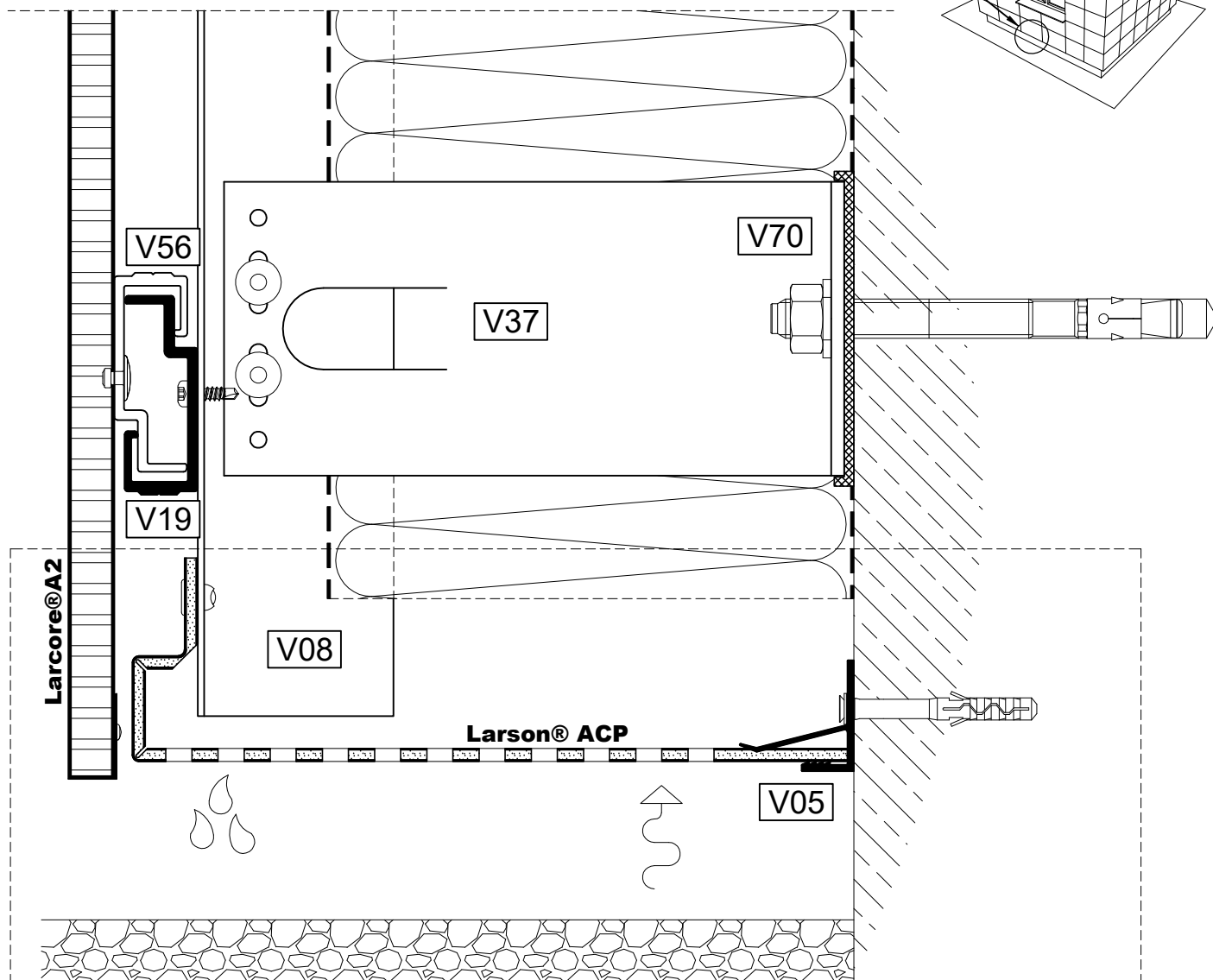
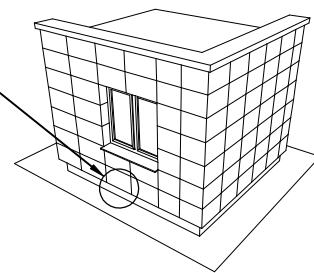


Vertikalni presek
Vertical section

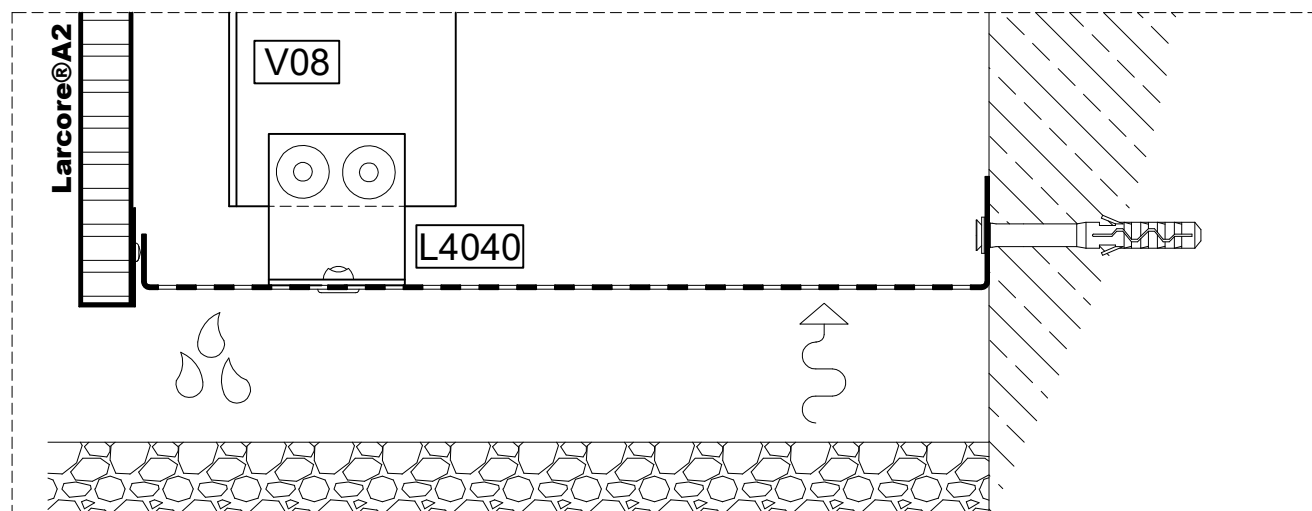


Vertikalni presek
Vertical section

Donji detalj
Bottom detail



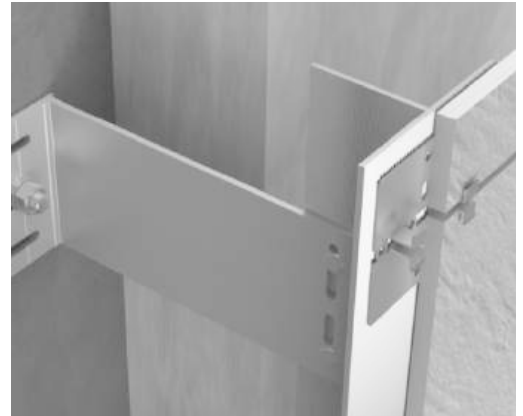
Opcija drenaže: perforirani aluminijumski kompozitni panel
Drainage option: perforated aluminium composite panel



Opcija drenaže: perforirani aluminijumski lim
Drainage option: perforated aluminium sheet

Sistem
System

V**NT** [stone]



TEHNIČKI OPIS SISTEMA

Sistem aluminijumske potkonstrukcije namenjen prihvatanju ravnih ploča (najčešće granitne keramike) fiksiranih vidljivim ili nevidljivim nosačima sa lica fasade tyv. žabicama od inox-a koje se u zavisnosti od zahteva u projektu mogu plastificirati u traženoj boji po RAL ton karti.

Postupak montaže startuje sa razmeravanjem i obeležavanjem pozicija nosećih profila

- a) Ekstrudirani noseći profili postavljaju se na objekat u projektovanom rasteru. Maksimalna preporučena dužina profila, kao i rastojanje između susednih vertikalala, određuju se statičkim proračunom. Dužina profila ne može biti veća od 3500 mm, dok maksimalno rastojanje između susednih nosećih profila ne sme biti više od 1200 mm.
- b) Sistem Stone omogućava udaljenje fasadne obloge od zida u rasponu od 64mm do 410mm*
- b) Fiksiranje nosećih vertikalnih ili horizontalnih T profila (kat. br. V06, V07, V08, V20) se vrši kotvama koje omogućavaju fino podešavanje aluminijumskih nosećih profila u svim pravcima, kako bi se dobila potpuno ravna površina fasade. Njihov spoj može biti fiksni ili dilatirajući zahvaljujući integrisanom rešenju koje omogućuje obe opcije, a spajanje se izvodi pomoću pop-zakivaka ili samourezujućim nerđajućim vijcima. U slučaju zahteva za prekidom termo mosta, ispod kotvi se montiraju specijalno dizajnirane plastične podloške.
- c) Nakon montaže vertikalala, montiraju se inoks noseće pločice na mestima ukrštanja horizontalnih i vertikalnih fugni, a njihov spoj sa vertikalama ostvaruje se samourezujućim nerđajućim vijcima.
- d) Prateći postavljanje inoks pločica paralelno se postavljaju ploče fasadne obloge naslanjanjem na njih. Preporuka je da se pre postavljanja ploča na noseće pločice tačkasto, mestimično nanese namenski PU lepak kako bi se pojačala stabilnost usled udara vetra i neutralisalo dejstvo mikrovibracija između kermike i nosećih pločica.
- e) Obrada izabranog tipa panela se vrši isecanjem ploča na ugradnu meru, a ako je granitna keramika u pitanju, koriste se standardne ploče dim. od 45x45 do 120x120cm. U slučaju skrivenog fiksiranja ploča (granitna keramika, kamen, HPL... debljine 10mm-20mm) potrebno je obraditi ivice ploča usecanjem šlica. Preporučuje se popunjavanje šlica namenskim zaptivnim sredstvom nakon montiranja skrivenih žabica. Pre odabira granitne keramike potvrditi sa proizvođačem da je keramika armirana i pogodna za ugradnju u sklopu ventilisane fasade. Predviđena fugna u ovom sistemu je 6mm do 9mm.

* ove dimenzije podržane su standardnim VENT sistemskim kotvama, za veća udaljenja pregledajte tehnički katalog (sekcije 5.19-5.24) i TMTP katalog.



TECHNICAL SYSTEM DESCRIPTION

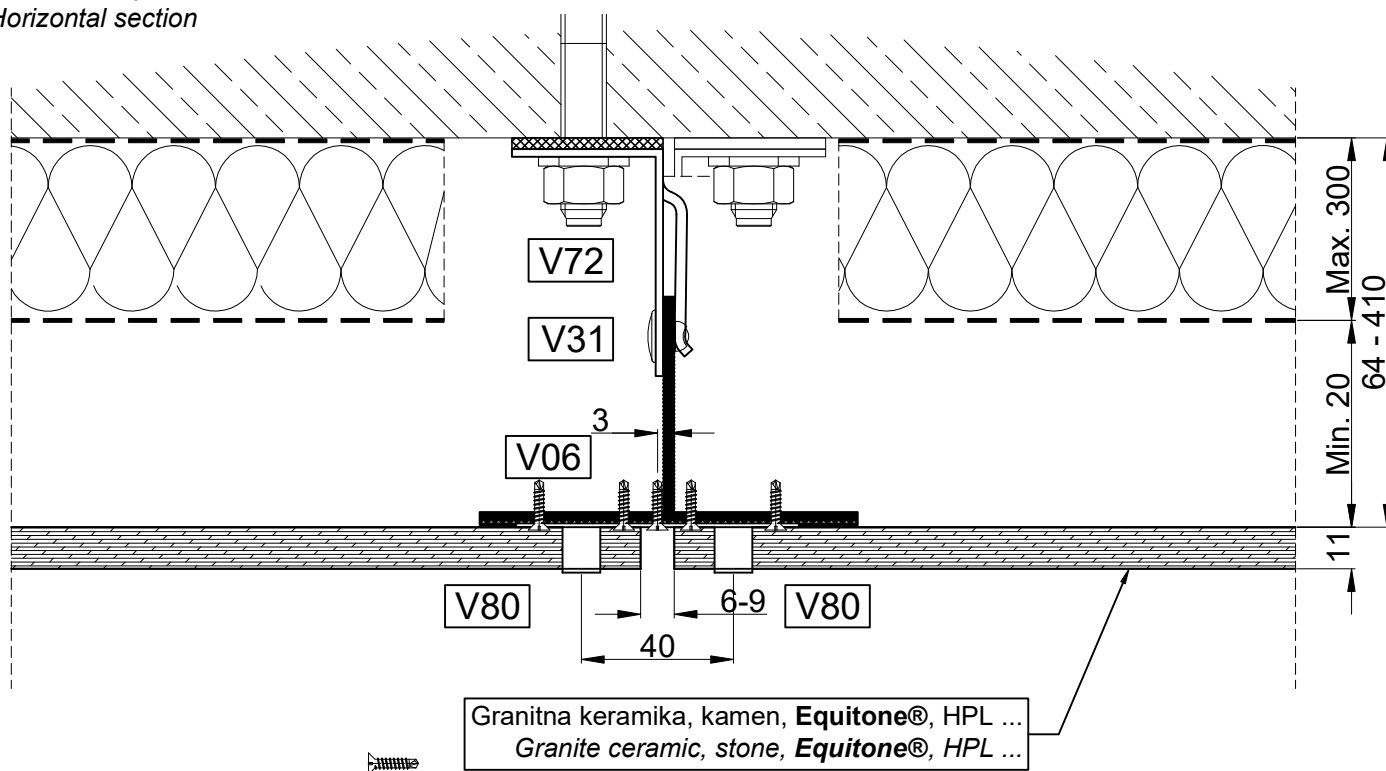
Aluminum substructure system designed for the installation of flat panels (most commonly porcelain stoneware) fixed using visible or concealed front-facing brackets, so-called stainless steel “clips”. Depending on project requirements, the clips can be powder-coated in a specified color according to the RAL color chart.

The installation process begins with surveying and marking the positions of the load-bearing profiles.

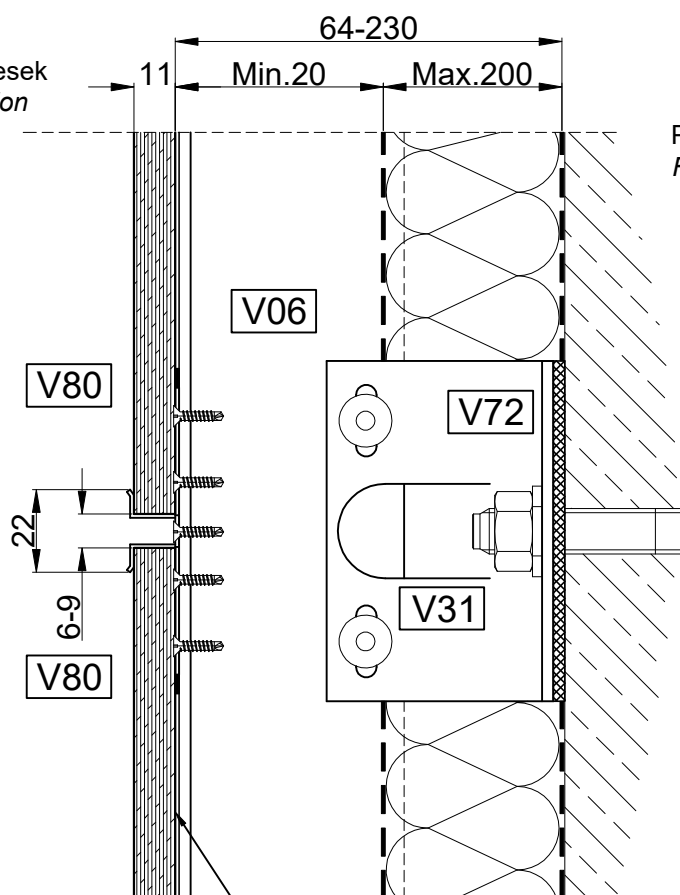
- a) Extruded load-bearing profiles are installed on the building according to the designed grid. The maximum recommended profile length and the spacing between adjacent vertical profiles are determined by static calculations. The profile length must not exceed 3500 mm, while the maximum spacing between adjacent load-bearing profiles must not exceed 1200 mm.
- b) The Stone system allows the façade cladding to be offset from the wall within a range of 64 mm to 410 mm*.
- c) Fixing of the load-bearing vertical or horizontal T-profiles (cat. no. V06, V07, V08, V20) is carried out using anchors that allow fine adjustment of the aluminum profiles in all directions, ensuring a perfectly planar façade surface. The connection can be either fixed or sliding, thanks to an integrated solution that allows both options. Connections are made using pop rivets or self-drilling stainless steel screws. Where thermal bridge interruption is required, specially designed plastic spacers are installed beneath the anchors.
- d) After installation of the vertical profiles, stainless steel load-bearing plates are installed at the intersection points of the horizontal and vertical panel gaps. The plates are fixed to the vertical profiles using self-drilling stainless steel screws.
- e) In parallel with the installation of the stainless steel plates, the façade panels are installed by resting them onto the plates. It is recommended to apply a spot-wise layer of dedicated PU adhesive to the plates prior to panel installation in order to increase stability under wind loads and to neutralize micro-vibrations between the ceramic panels and the stainless steel supports.
- f) Panel processing is carried out by cutting the panels to installation dimensions. For porcelain stoneware, standard panel formats ranging from 450 × 450 mm to 1200 × 1200 mm are typically used. In the case of concealed fixing (porcelain stoneware, natural stone, HPL, etc., with a thickness of 10 mm to 20 mm), panel edges must be processed by cutting slots. It is recommended to fill the slots with a dedicated sealing compound after installation of the concealed clips. Prior to selecting porcelain stoneware, confirmation must be obtained from the manufacturer that the material is reinforced and suitable for installation within a ventilated façade system. The system provides for a panel gap ranging from 6 mm to 9 mm.

* These dimensions are supported by standard VENT system anchors. For larger offsets, please refer to the technical catalogue (sections 5.19-5.24) and the TMTP catalogue.

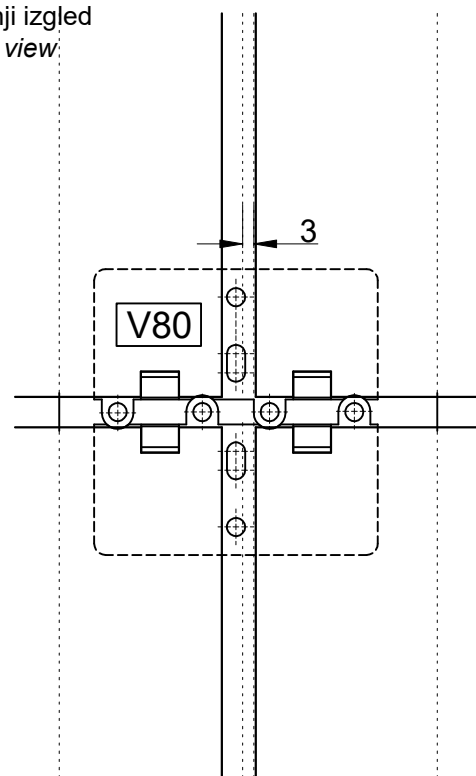
Horizontalni presek
Horizontal section

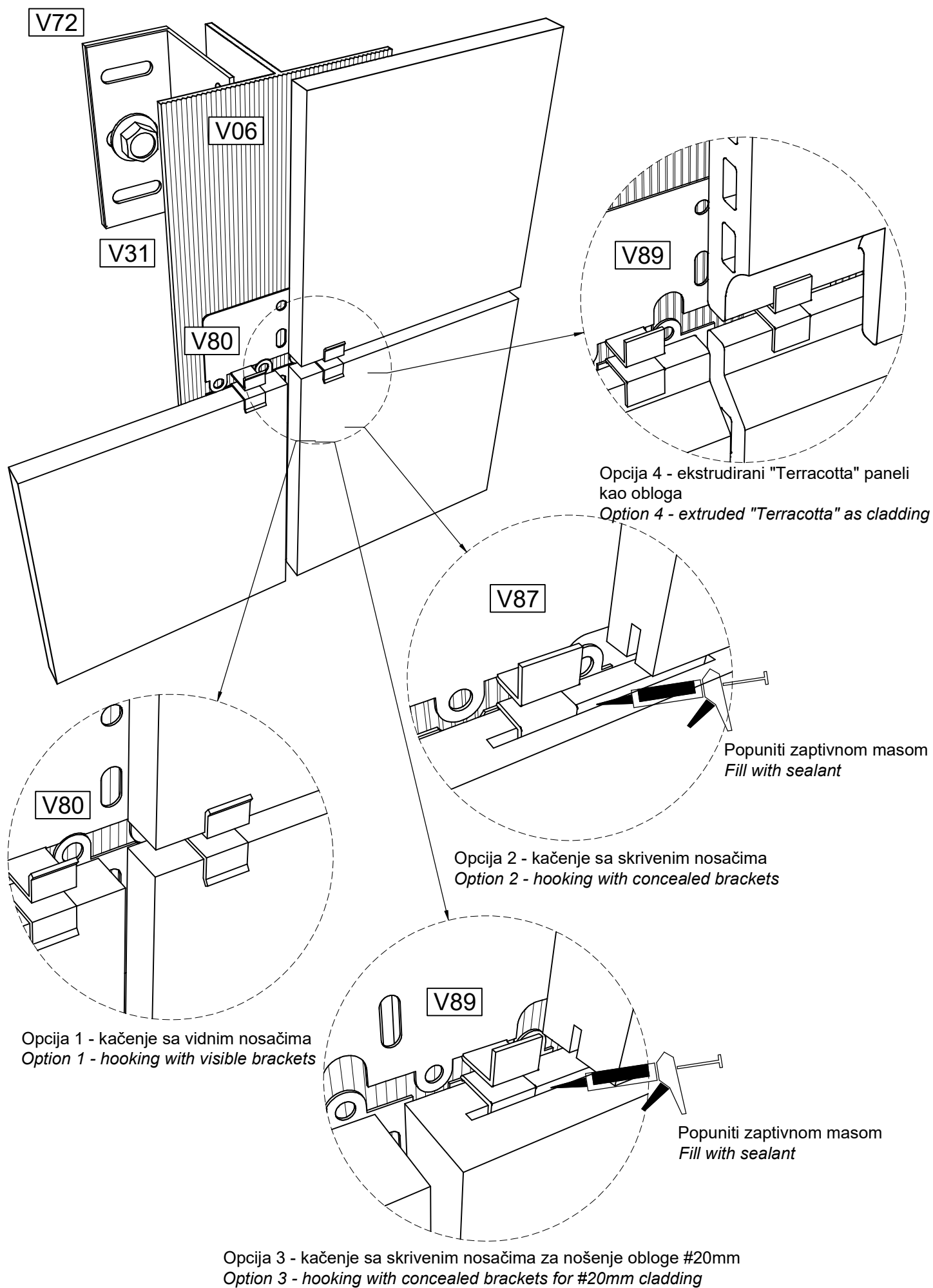


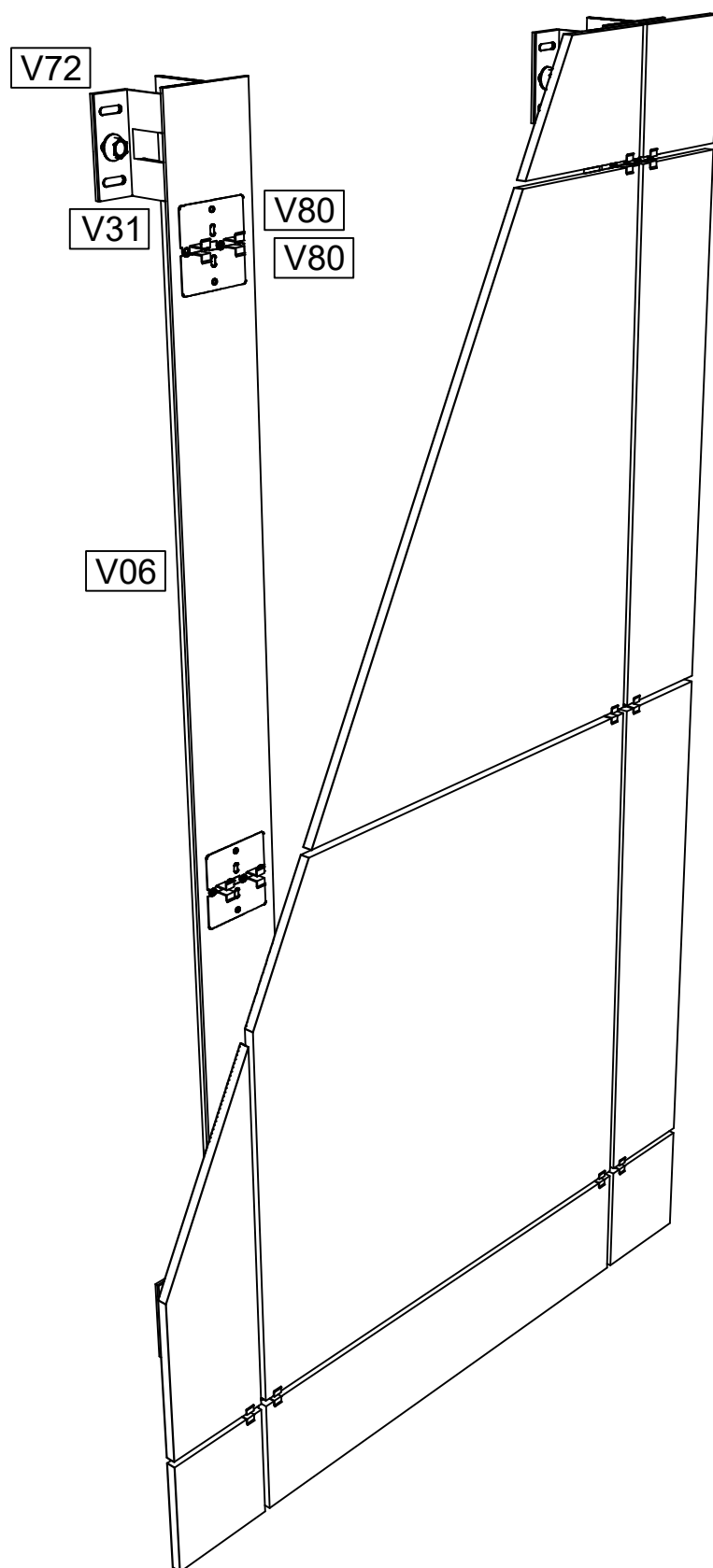
Vertikalni presek
Vertical section

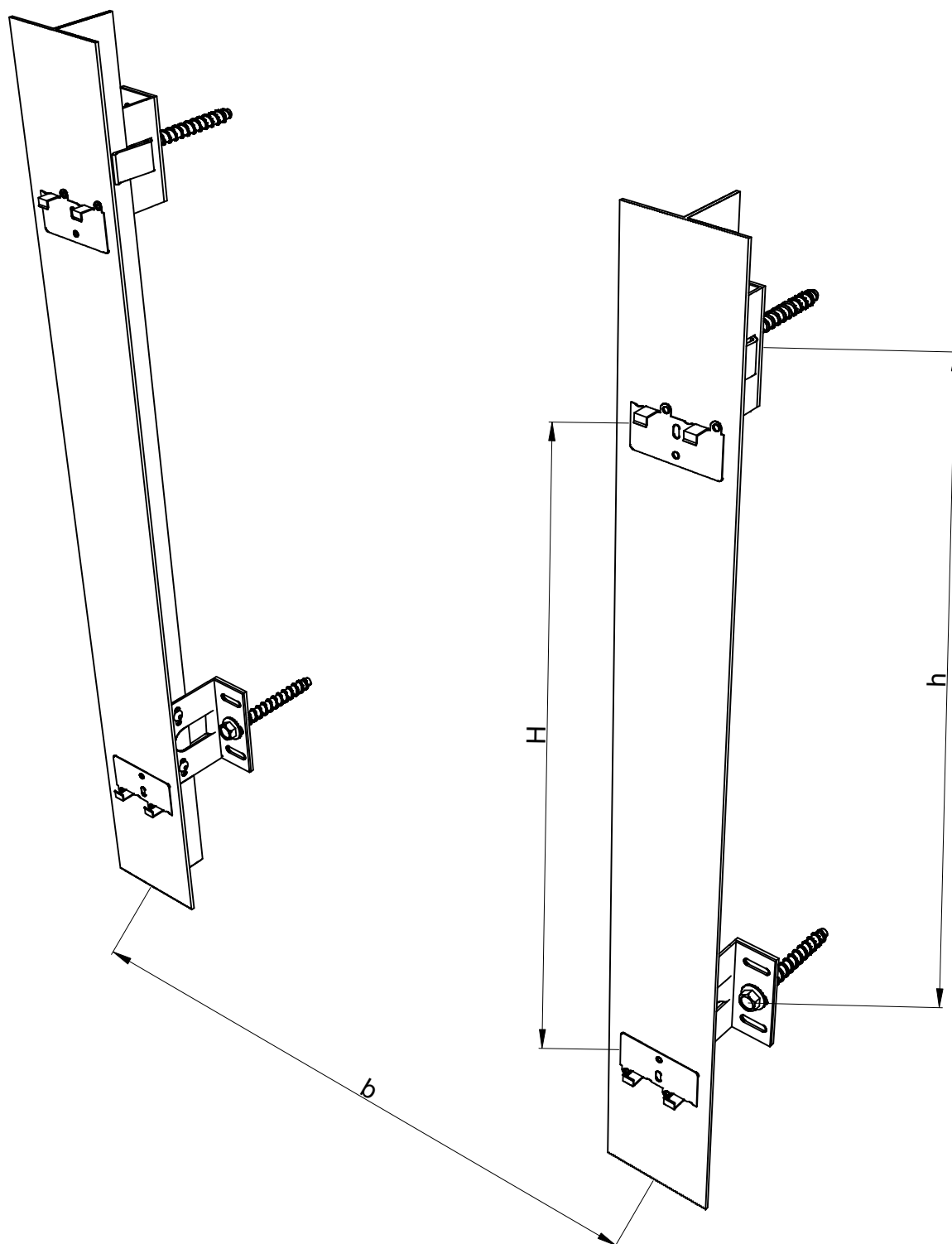


Prednji izgled
Front view



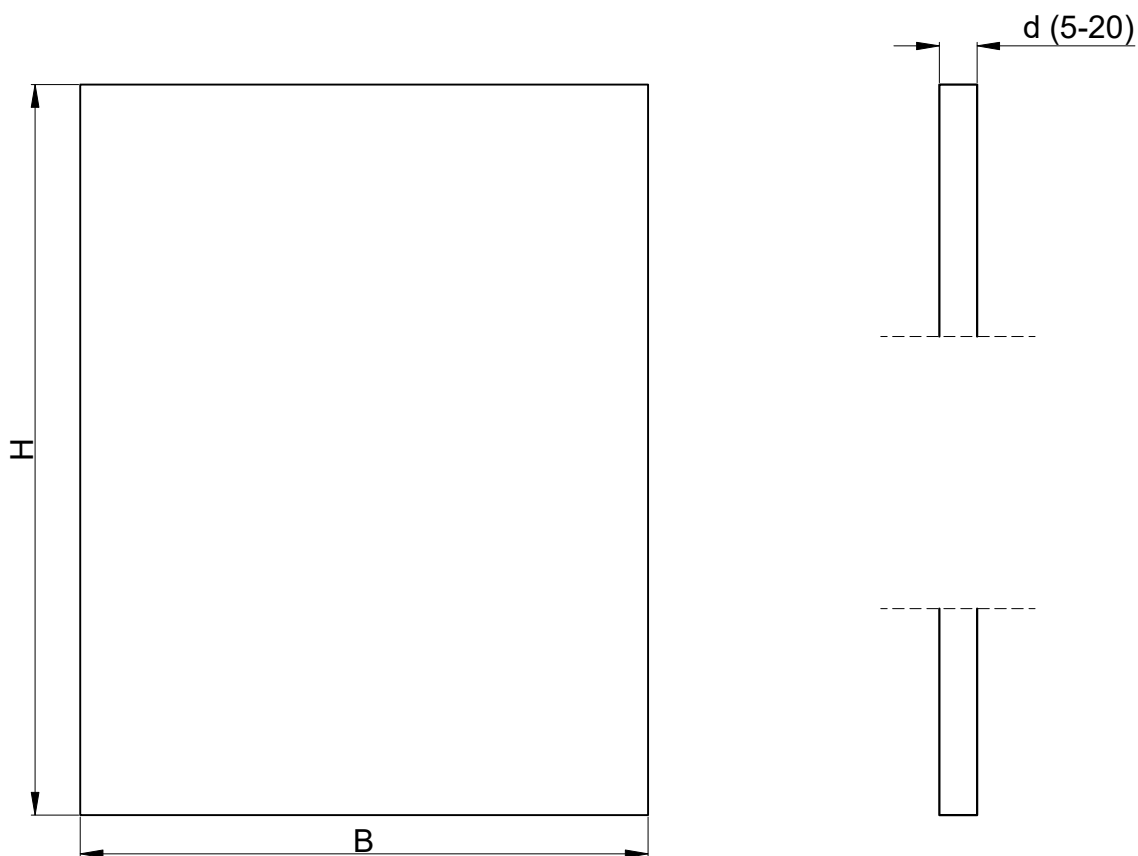






b, h - prema statičkom proračunu, ali ne više od 1200mm
b, h - according to structural analysis, but no more than 1200mm

H - prema statičkom proračunu i u zavisnosti od primenjenog materijala obloge, ali ne više od 900mm
H - according to structural analysis and depending on applied cladding material, but no more than 900mm



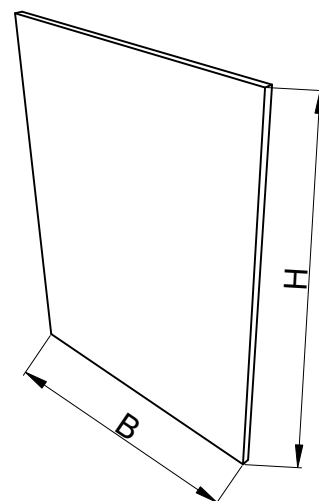
B - projektovana širina panela - uz ograničenja prema specifikaciji proizvođača panela

B - designed panel width - within limitations according to specification by manufacturer

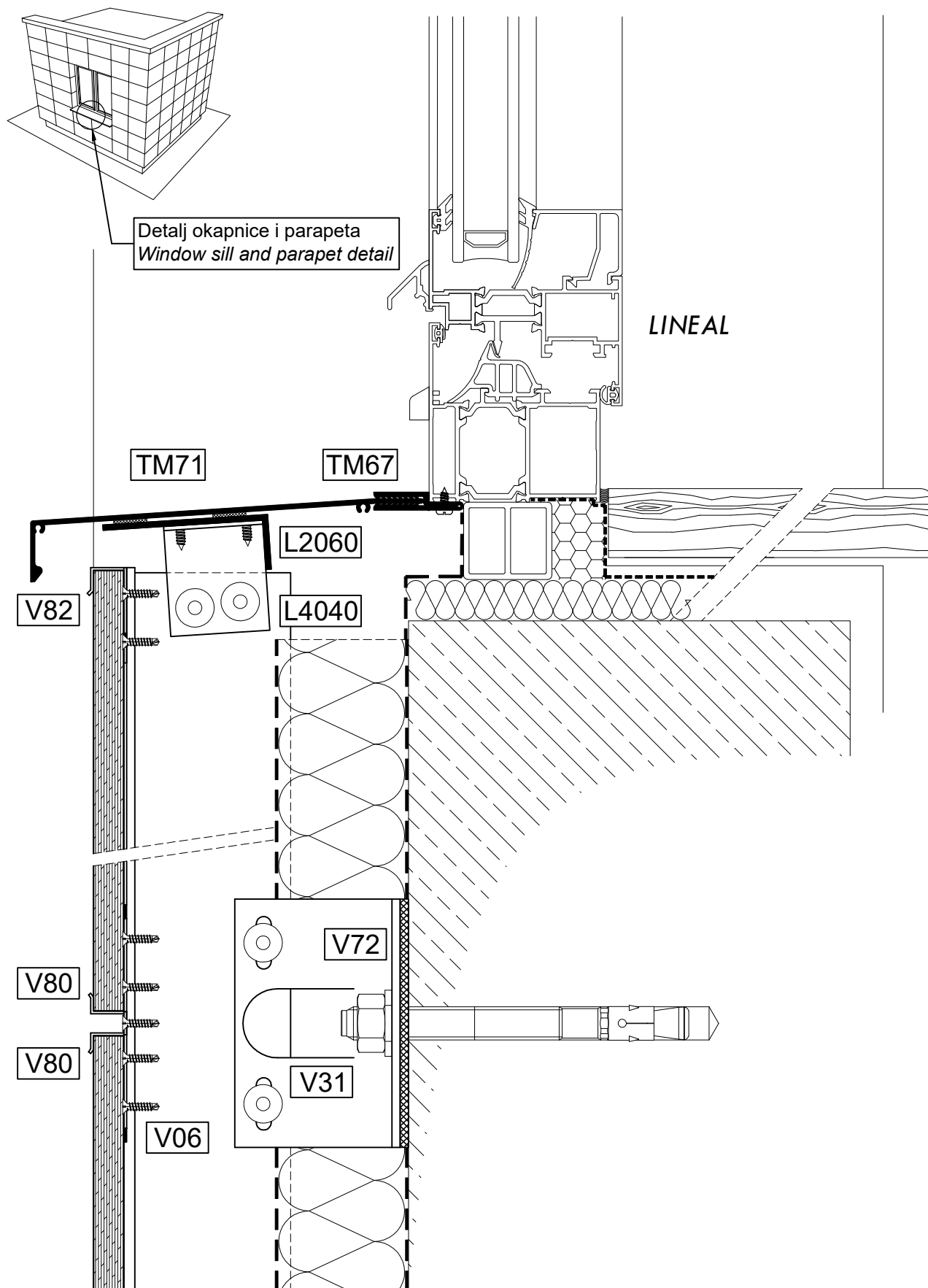
H - projektovana visina panela - uz ograničenja prema specifikaciji proizvođača panela

H - designed panel height - within limitations according to specification by manufacturer

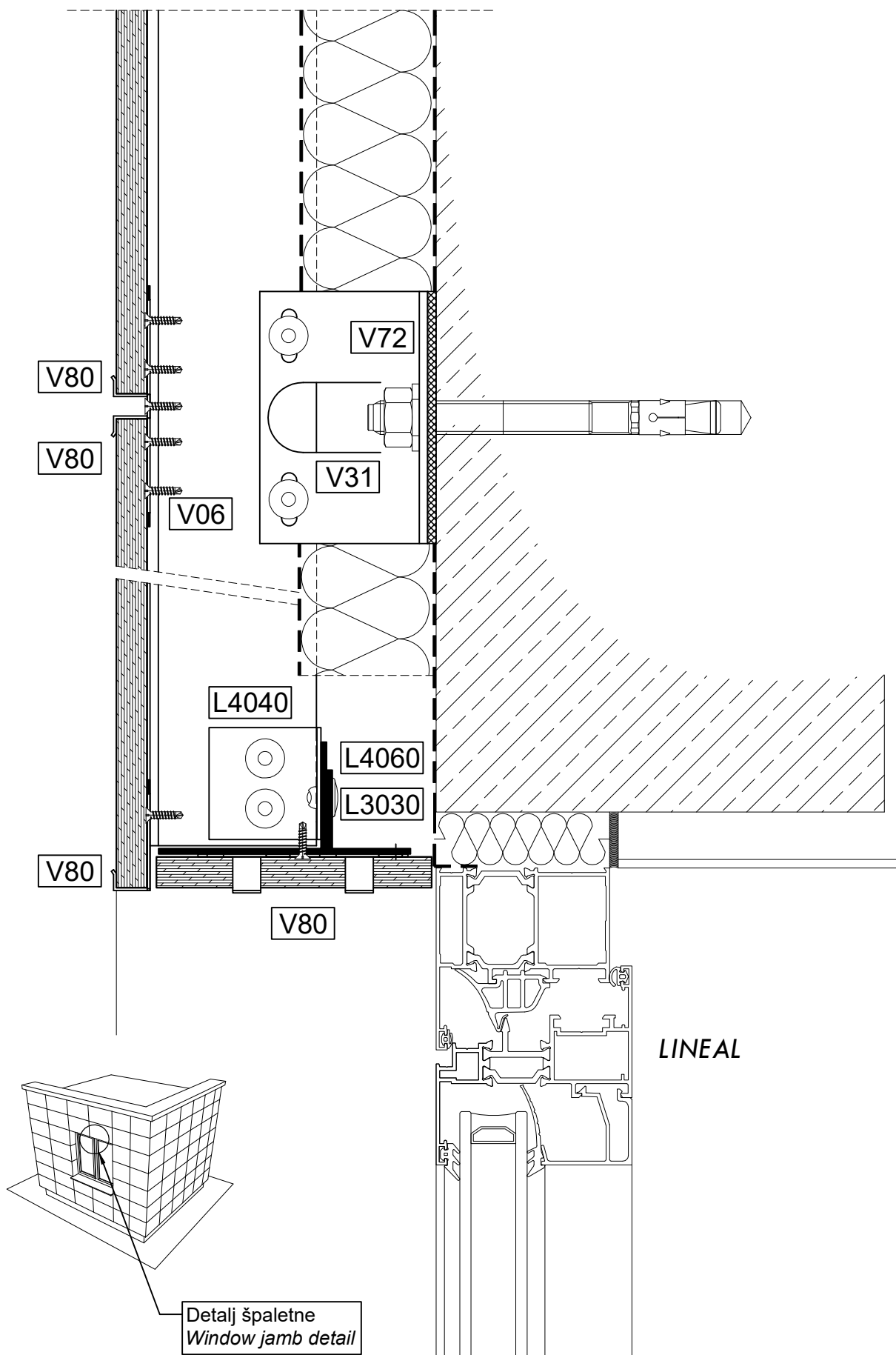
d - debljina panela, u zavisnosti od odabira materijala obloge i potreba projekta
d - panel thickness, depending on the selection of cladding material and project needs



Vertikalni presek
Vertical section



Vertikalni presek
Vertical section



[illegible]

Detailj špaletne
Window jamb detail

LINEAL

V07

V08

V31

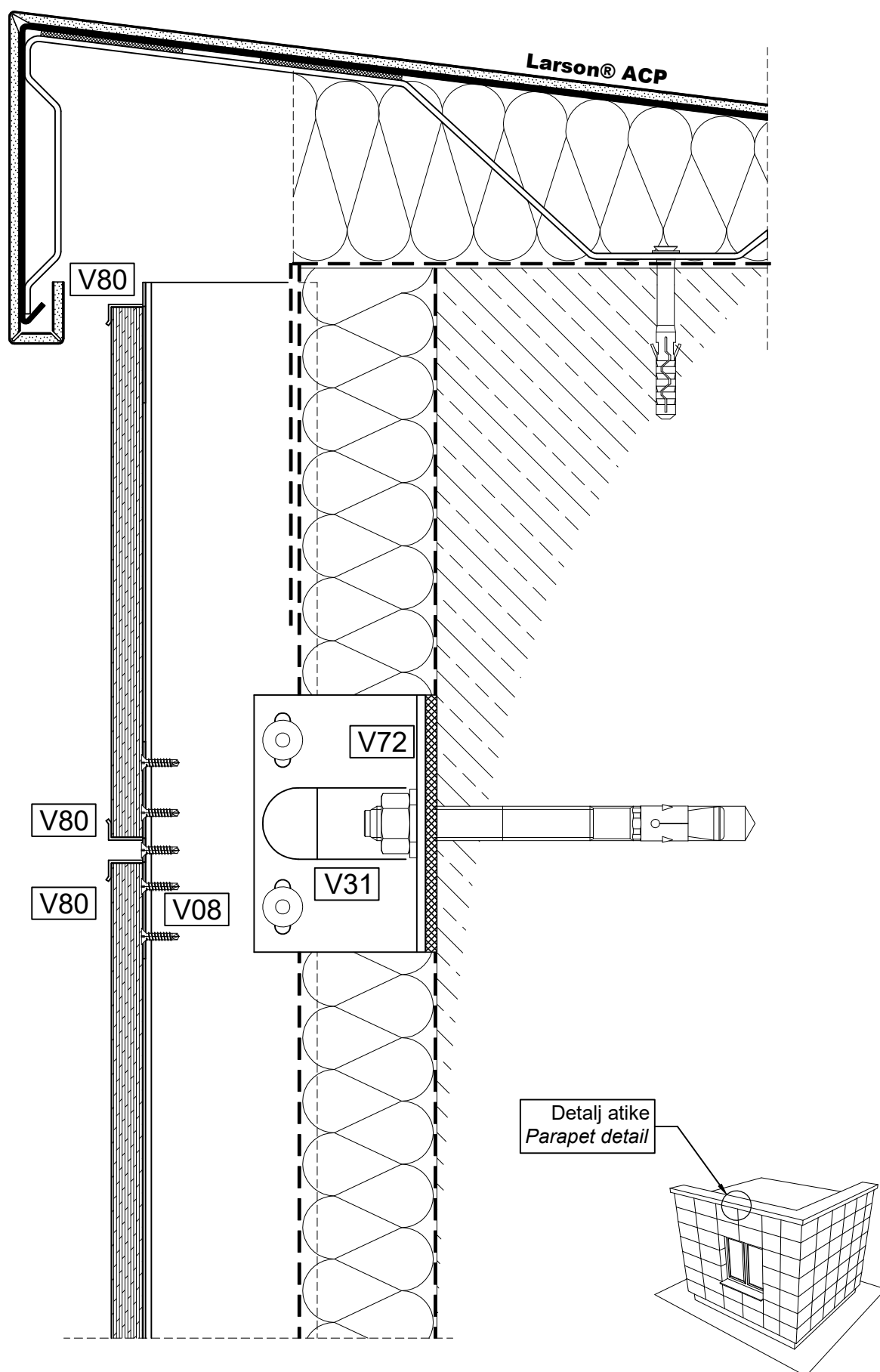
V72

L4060

V80

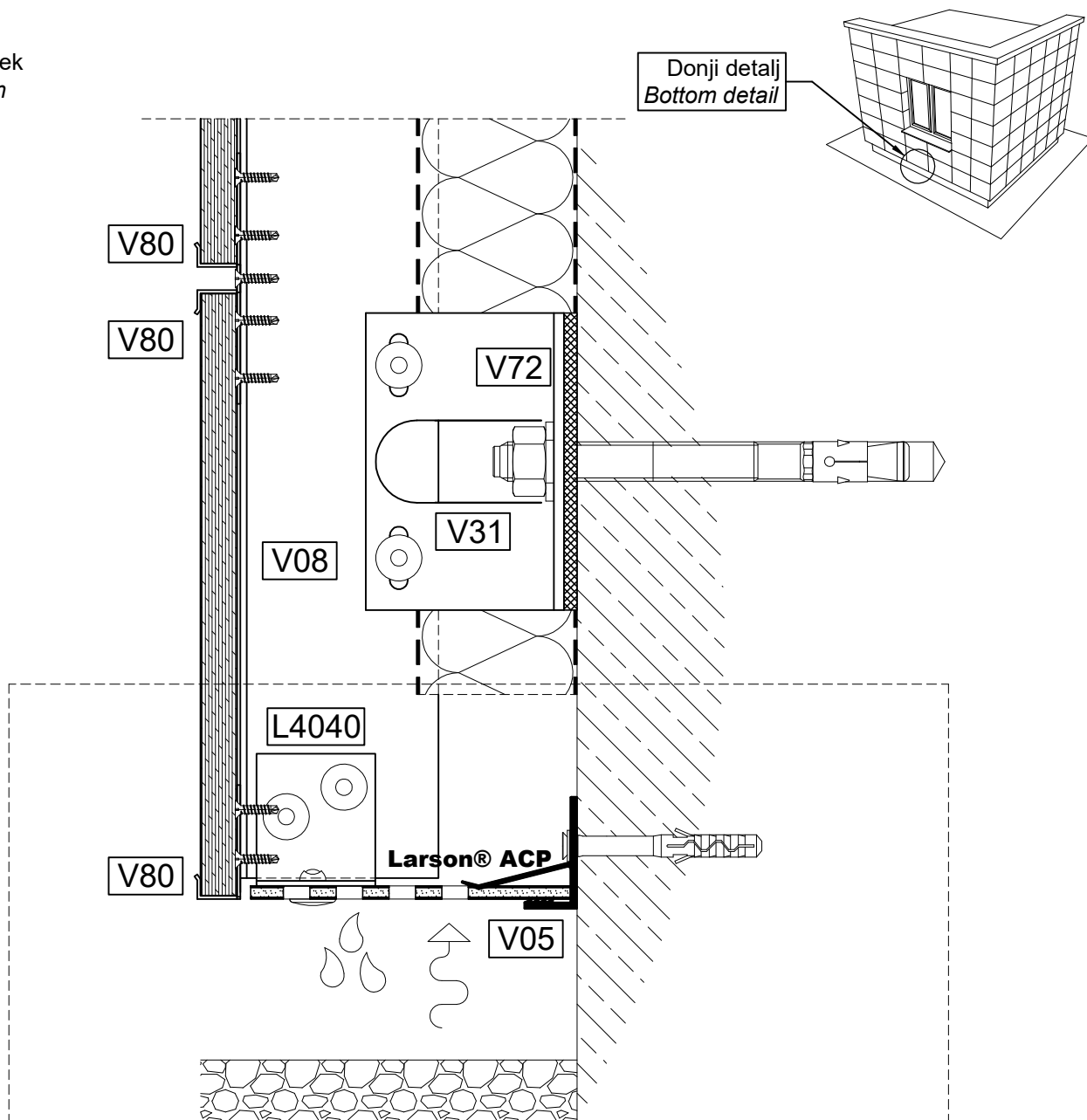
V80

Vertikalni presek
Vertical section

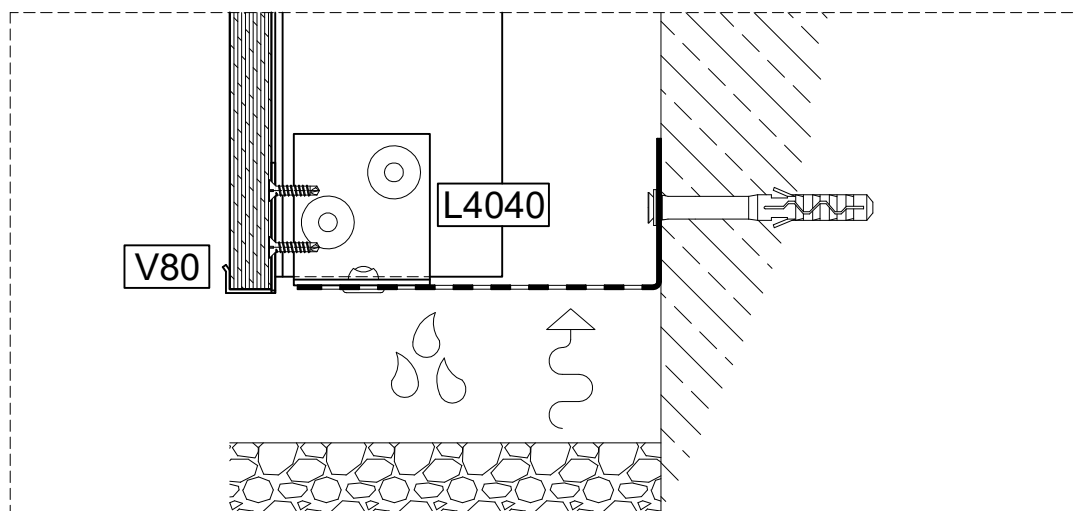


Vertikalni presek
Vertical section

Donji detalj
Bottom detail

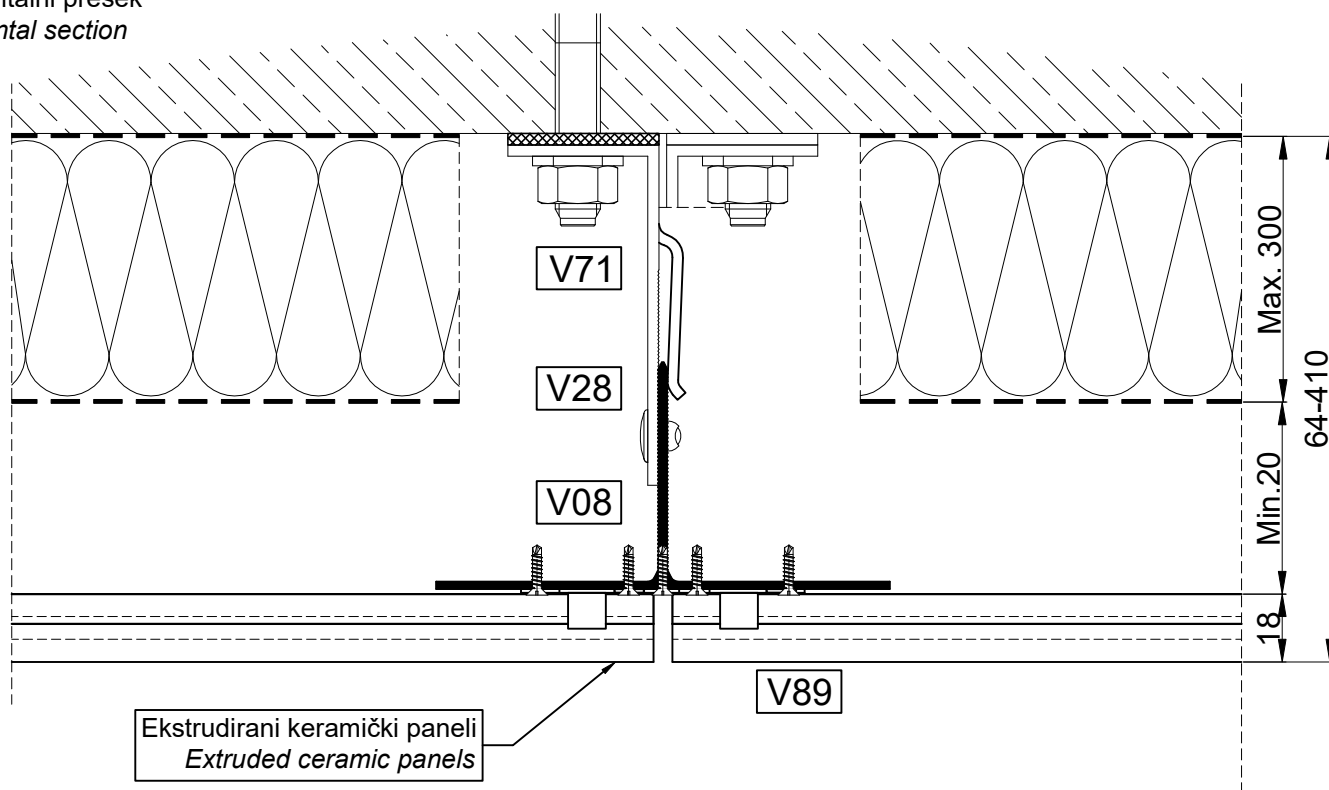


Opcija drenaže: perforirani aluminijumski kompozitni panel
Drainage option: perforated aluminium composite panel

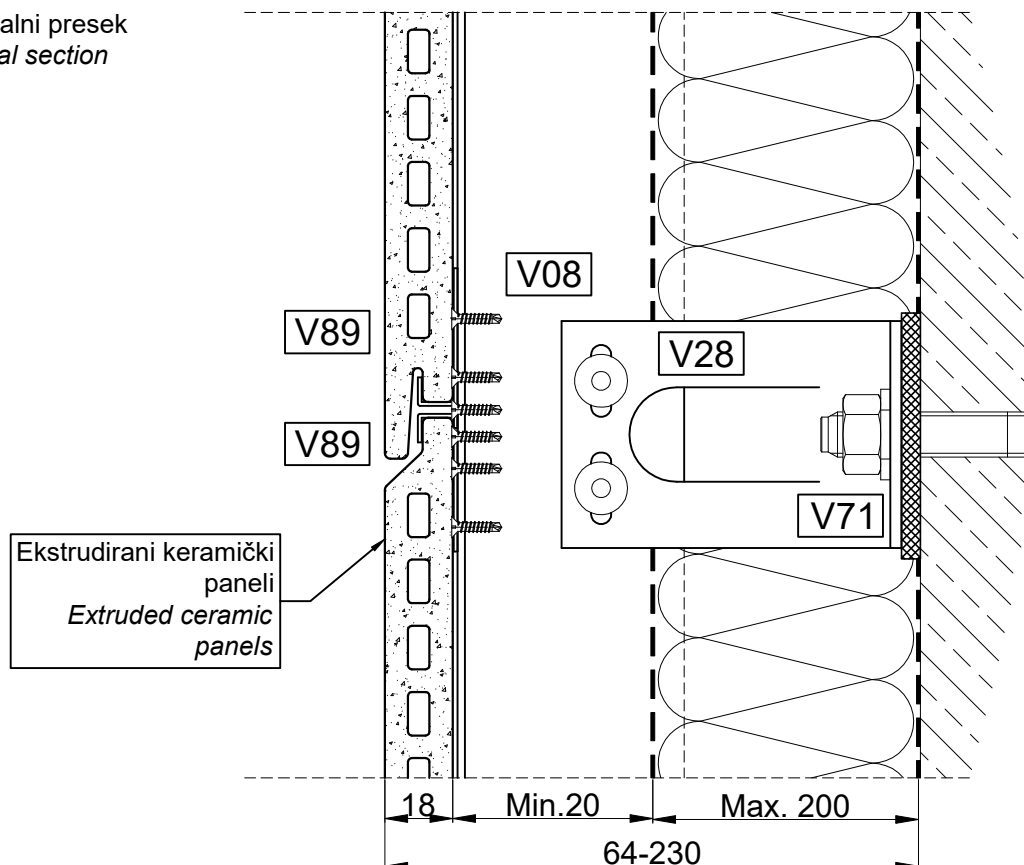


Opcija drenaže: perforirani aluminijumski lim
Drainage option: perforated aluminium sheet

Horizontalni presek
Horizontal section

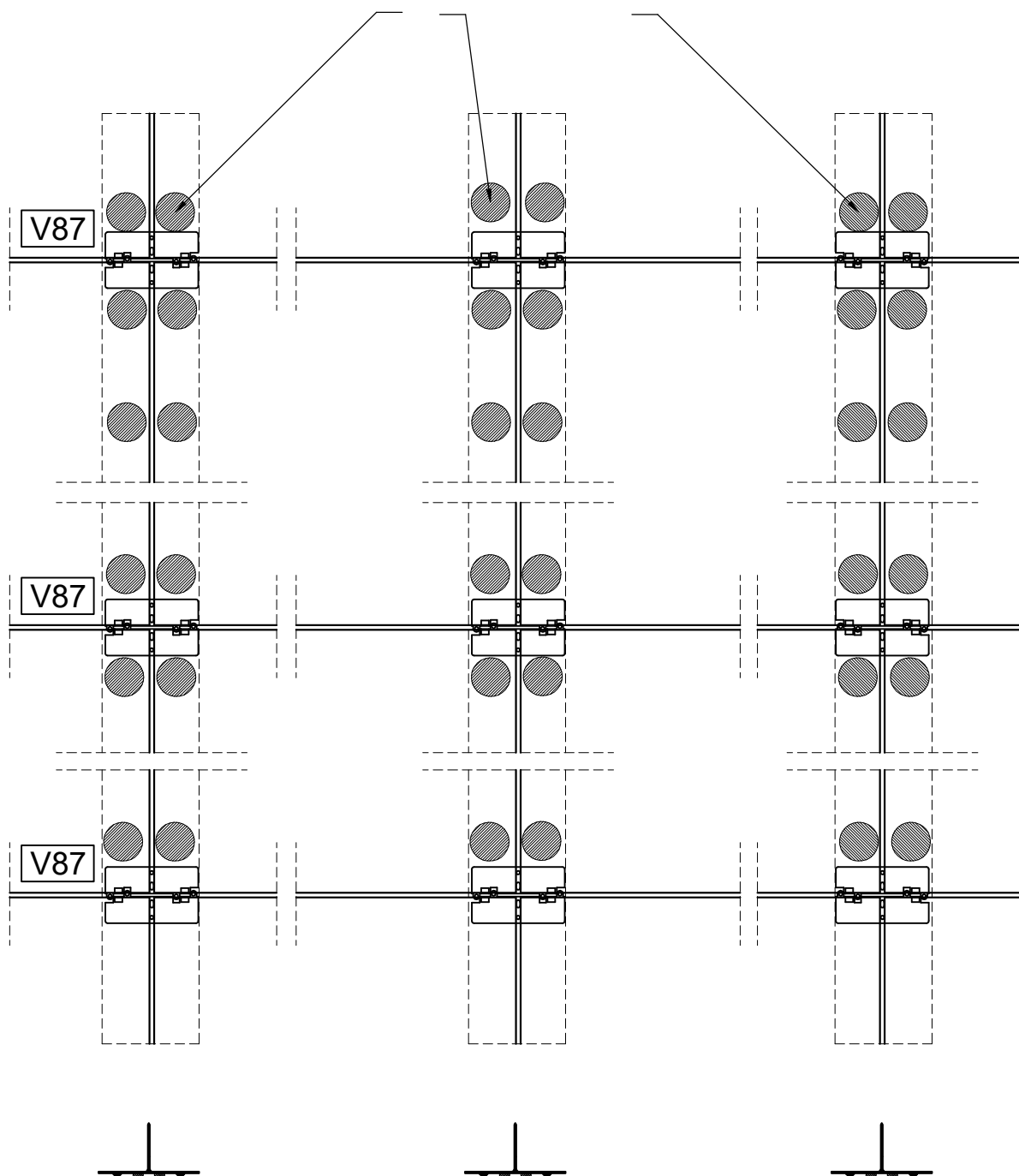


Vertikalni presek
Vertical section



Površina razlivenog lepka namontirane keramike
Spread adhesive area of the installed ceramics

SIKA FLEX 11FC



Sirov aluminijumski profil pripremljen za lepljenje prema specifikaciji proizvođača lepka.

Mill-finished aluminium profile prepared for gluing according to specification by adhesive manufacturer.

Lepak se nanosi na sirovu površinu. Ukoliko se želi fugna u boji, ukloniti sa plastificiranog profila boju u širini potrebnoj za nanošenje lepka.

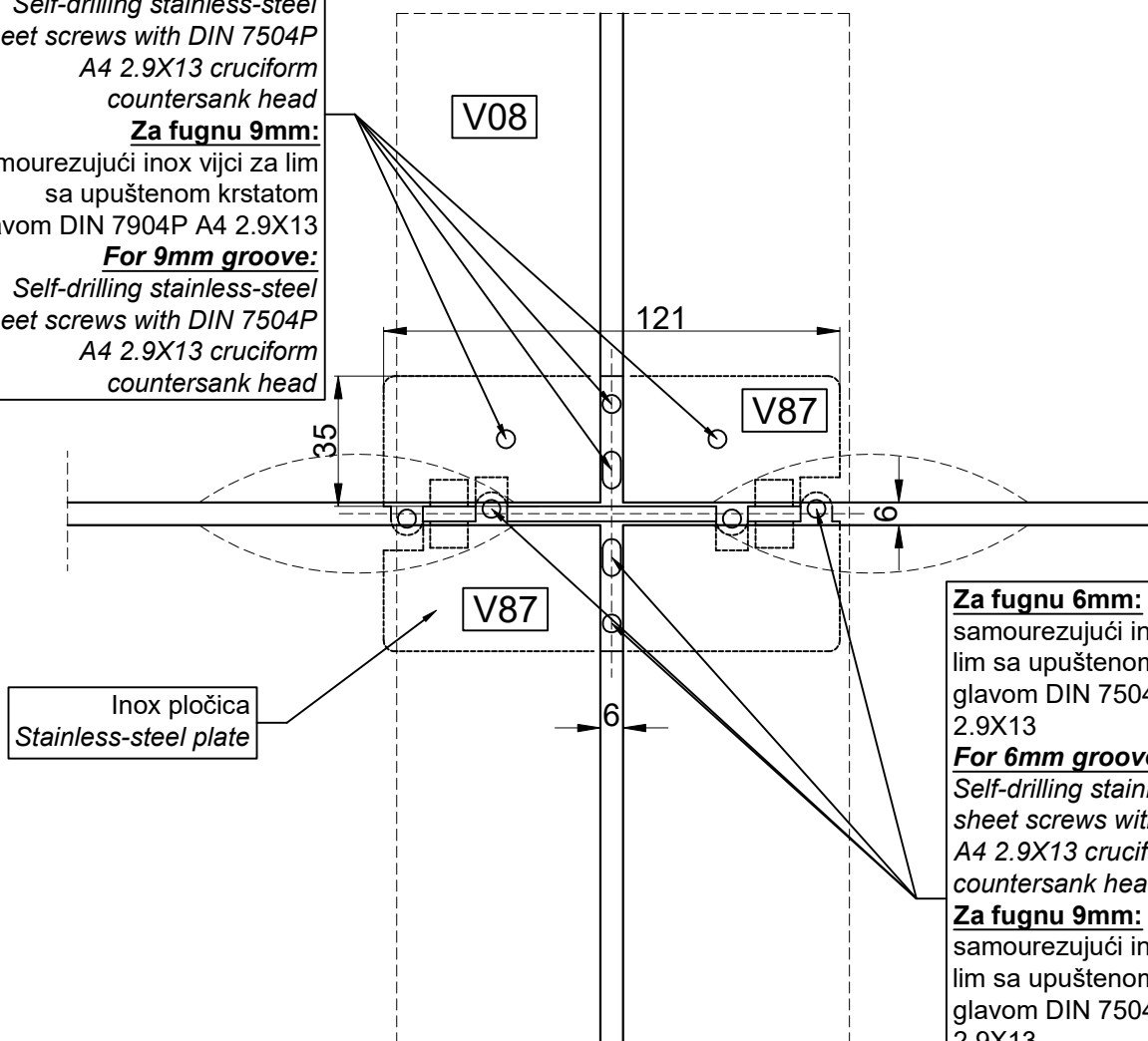
Adhesive is applied to mill-finished surface. In case a colored groove is desired, remove the layer of paint from the color-coated profile in width needed for application of adhesive.

Za fugnu 6mm:
samourezujući inox vijci za lim
sa upuštenom krstatom
glavom DIN 7504P A4 2.9X13

For 6mm groove:
Self-drilling stainless-steel
sheet screws with DIN 7504P
A4 2.9X13 cruciform
countersank head

Za fugnu 9mm:
samourezujući inox vijci za lim
sa upuštenom krstatom
glavom DIN 7904P A4 2.9X13

For 9mm groove:
Self-drilling stainless-steel
sheet screws with DIN 7504P
A4 2.9X13 cruciform
countersank head



Za fugnu 6mm:

samourezujući inox vijci za
lim sa upuštenom krstatom
glavom DIN 7504P A4
2.9X13

For 6mm groove:

Self-drilling stainless-steel
sheet screws with DIN 7504P
A4 2.9X13 cruciform
countersank head

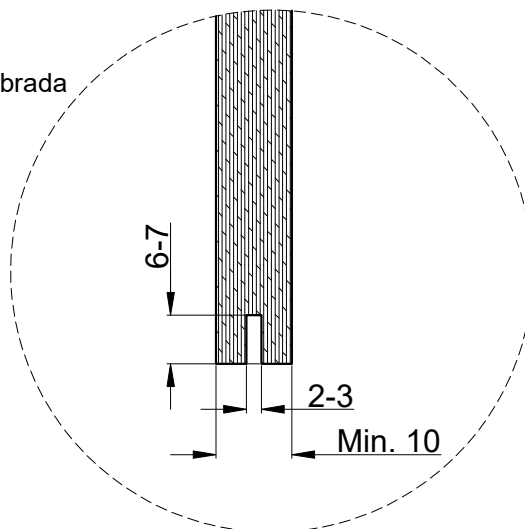
Za fugnu 9mm:

samourezujući inox vijci za
lim sa upuštenom krstatom
glavom DIN 7504P A4
2.9X13

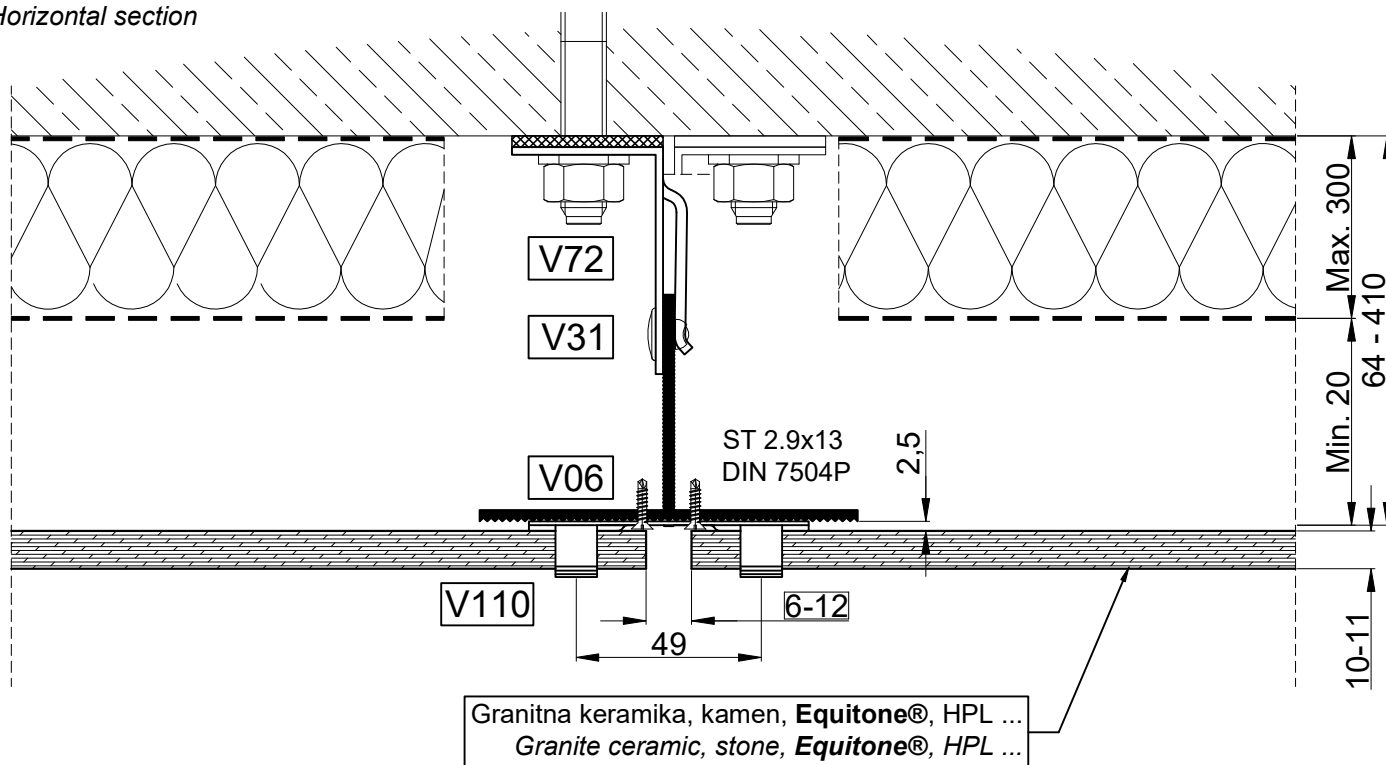
For 9mm groove:

Self-drilling stainless-steel
sheet screws with DIN 7504P
A4 2.9X13 cruciform
countersank head

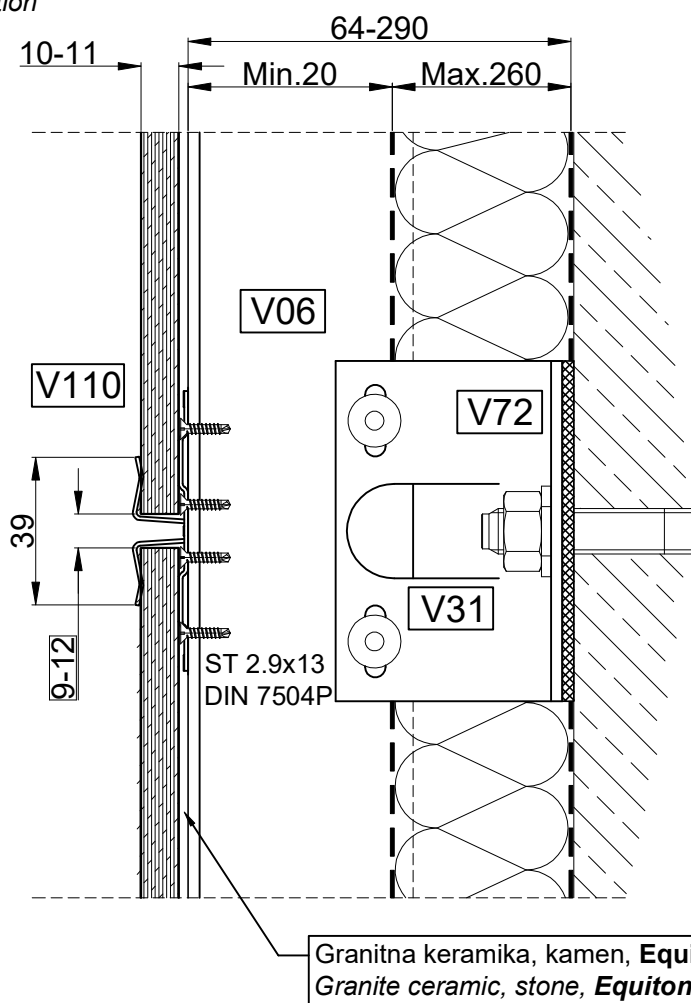
Mašinska obrada
Machining



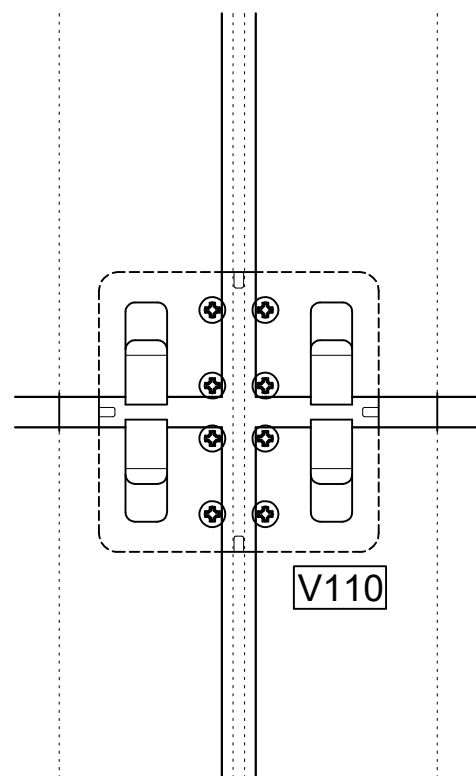
Horizontalni presek
Horizontal section



Vertikalni presek
Vertical section



Prednji izgled
Front view



Sistem
System

V**NT** [rock]



TEHNIČKI OPIS SISTEMA

Sistem aluminijumske potkonstrukcije koji je namenjen prihvatanju ravnih ploča od prirodnog kamena ili ekstrudirane keramike, fiksiranih delimično vidljivim horizontalnim profilima u zoni horizontalnih fugni, koji se u zavisnosti od zahteva u projektu mogu plastificirati u traženoj boji po RAL ton karti. Suvi je postupak ugradnje, montaža je jednostavna, a neretko je prihvaćen kao standard za teške fasadne obloge. Debljina fasadne obloge od minimum 30mm za prirodni kamen ili 18mm za ekstrudiranu keramiku (obavezno proveriti kompatibilnost geometrije sa sistemom nošenja)

Postupak montaže startuje sa razmeravanjem i obeležavanjem pozicija nosećih profila.

- a) Ekstrudirani noseći profili postavljaju se na objekat u projektovanom rasteru. Maksimalna preporučena dužina profila, kao i rastojanje između susednih vertikalna, određuju se statičkim proračunom. Dužina profila ne može biti veća od 3500 mm, dok maksimalno rastojanje između susednih nosećih profila ne sme biti više od 900mm.
- b) Sistem Rock omogućava udaljenje fasadne obloge od zida od 80mm do 250mm
- c) Fiksiranje primarnih nosećih profila (T, L ili Ω profili) se vrši kotvama koje omogućavaju fino podešavanje aluminijumskih nosećih profila u svim pravcima, kako bi se dobila potpuno ravna površina fasade. Njihov spoj može biti fiksni ili dilatirajući zahvaljujući integrisanom rešenju koje omogućuje obe opcije, a spajanje se izvodi pomoću pop-zakivaka ili samourezujućim nerđajućim vijcima. U slučaju zahteva za prekidom termo mosta, ispod kotvi se montiraju specijalno dizajnirane plastične podloške.
- d) Nakon montaže vertikalna, montiraju se sekundarni noseći aluminijumski profili na mestima horizontalnih fugni, a njihov spoj sa vertikalama ostvaruje se odgovarajućim nerđajućim vijcima sa navrtkom.
- e) Prateći postavljanje horizontalnih sekundarnih nosećih aluminijumskih profila paralelno se postavljaju prethodno žlebovane ploče fasadne obloge naslanjanjem na njih. Preporuka je da se pre postavljanja ploča na noseće sekundarne profile stave plastične podloške kako bi se neutralisalo dejstvo mikrovibracija između kamena i nosećeg profila, kao i namesko lepilo.
- f) Obrada izabranog tipa ploča se vrši isecanjem ploča na ugradnu meru i žlebovanje dve suprotne stranice, koje će na fasadi predstavljati gornju i donju ivicu fasadne ploče. Predviđena fuga u ovom sistemu je minimum 2mm.



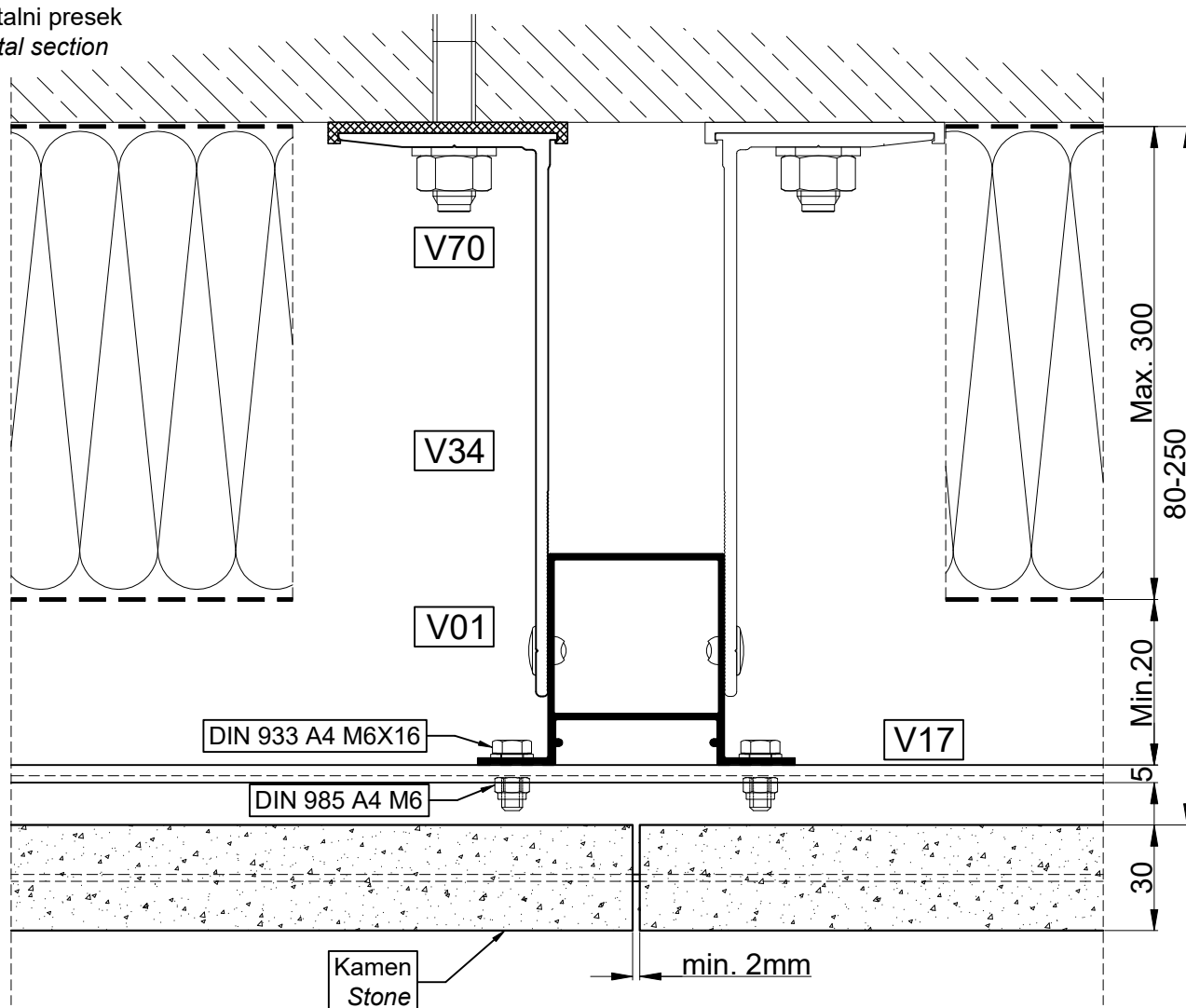
TECHNICAL SYSTEM DESCRIPTION

Aluminum substructure system designed for the installation of flat panels made of natural stone or extruded ceramic, fixed using partially visible horizontal profiles located within the horizontal panel gaps. Depending on project requirements, these profiles may be powder-coated in a specified color according to the RAL color chart. The installation process is dry, simple to execute, and the system is commonly accepted as a standard solution for heavy façade cladding. Minimum cladding thickness is 30 mm for natural stone or 18 mm for extruded ceramic (compatibility of panel geometry with the load-bearing system must be verified).

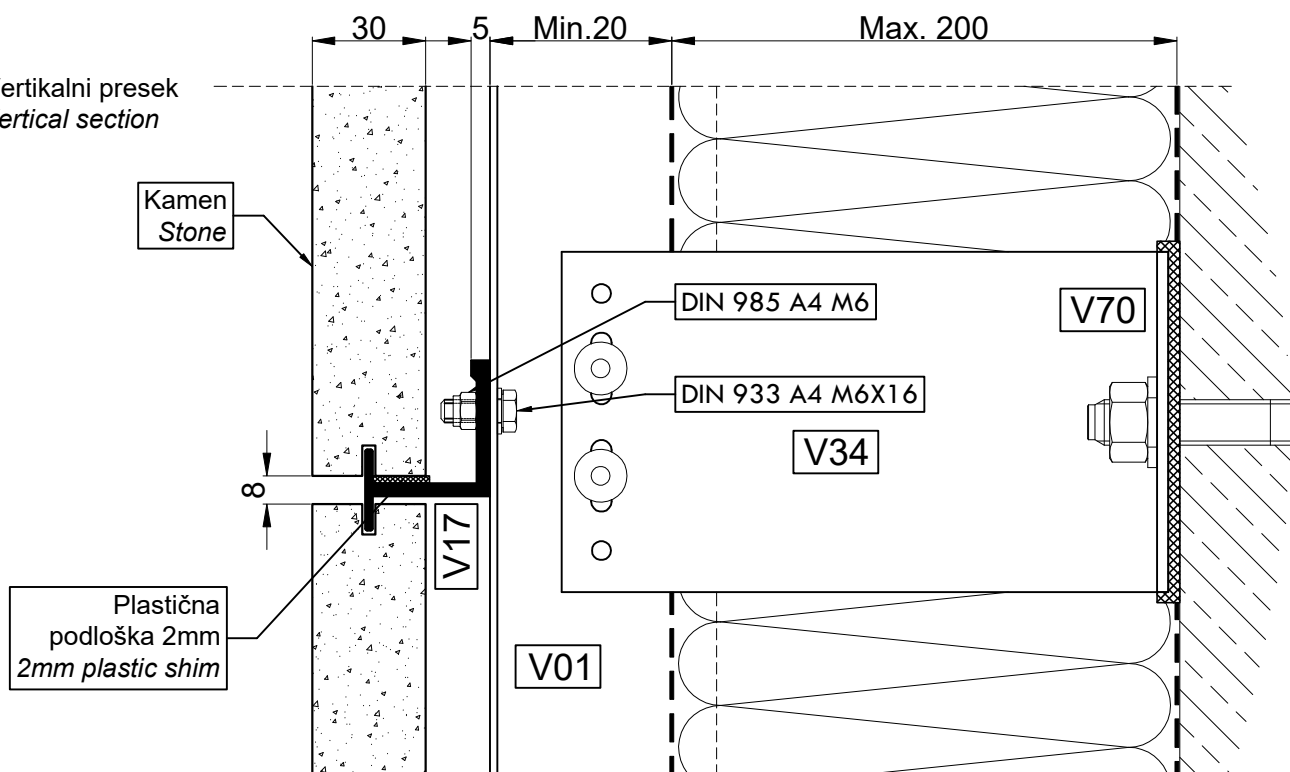
The installation process begins with surveying and marking the positions of the load-bearing profiles.

- a) Extruded load-bearing profiles are installed on the building according to the designed grid. The maximum recommended profile length and the spacing between adjacent vertical profiles are determined by static calculations. The profile length must not exceed 3500 mm, while the maximum spacing between adjacent load-bearing profiles must not exceed 900 mm.
- b) The Rock system allows the façade cladding to be offset from the wall within a range of 80 mm to 250 mm.
- c) Fixing of the primary load-bearing profiles (T, L, or Ω profiles) is carried out using anchors that allow fine adjustment of the aluminum profiles in all directions, ensuring a perfectly planar façade surface. The connection can be either fixed or sliding, thanks to an integrated solution that allows both options. Connections are made using pop rivets or self-drilling stainless steel screws. Where thermal bridge interruption is required, specially designed plastic spacers are installed beneath the anchors.
- d) After installation of the vertical profiles, secondary horizontal aluminum load-bearing profiles are installed at the locations of the horizontal panel gaps. The connection to the vertical profiles is achieved using appropriate stainless steel bolts and nuts.
- e) In parallel with the installation of the secondary horizontal aluminum profiles, the pre-grooved façade panels are installed by resting them onto the profiles. It is recommended to place plastic spacers between the panels and the secondary profiles in order to neutralize micro-vibrations between the stone and the load-bearing profile, as well as to apply a dedicated adhesive where required.
- f) Panel processing is carried out by cutting the panels to installation dimensions and grooving two opposite edges, which will form the upper and lower edges of the façade panel once installed. The system provides for a minimum panel gap of 2 mm.

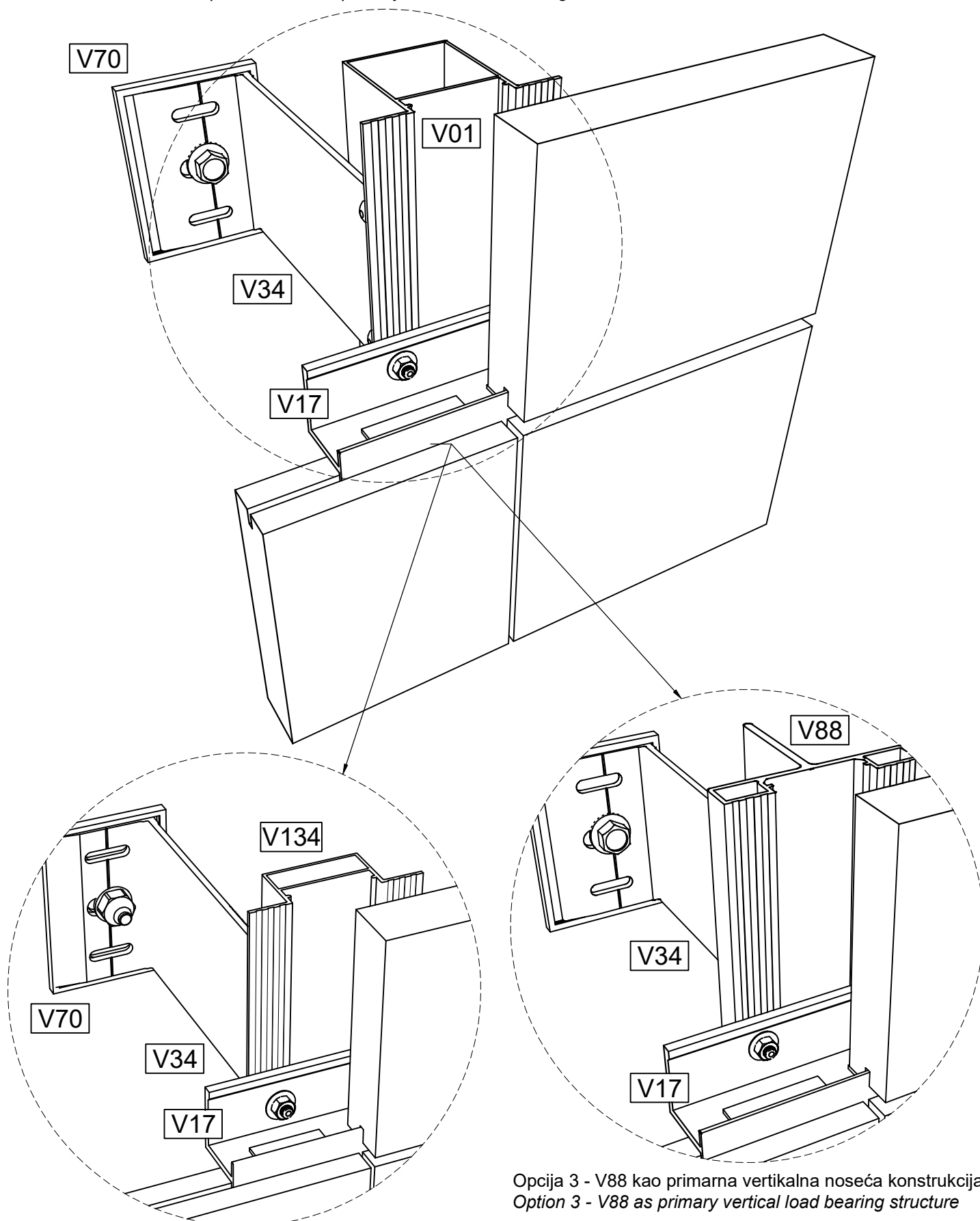
Horizontalni presek
Horizontal section



Vertikalni presek
Vertical section

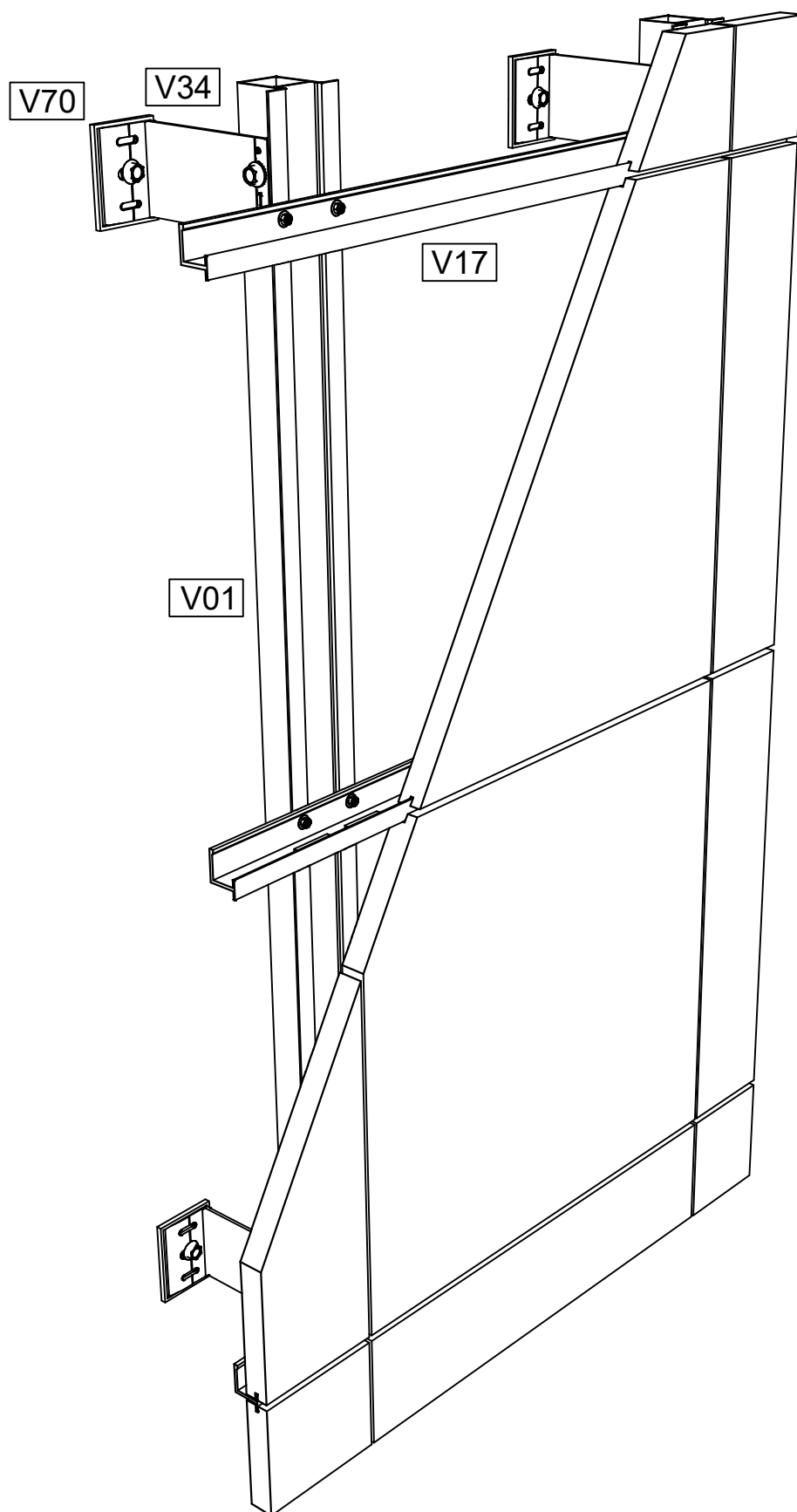


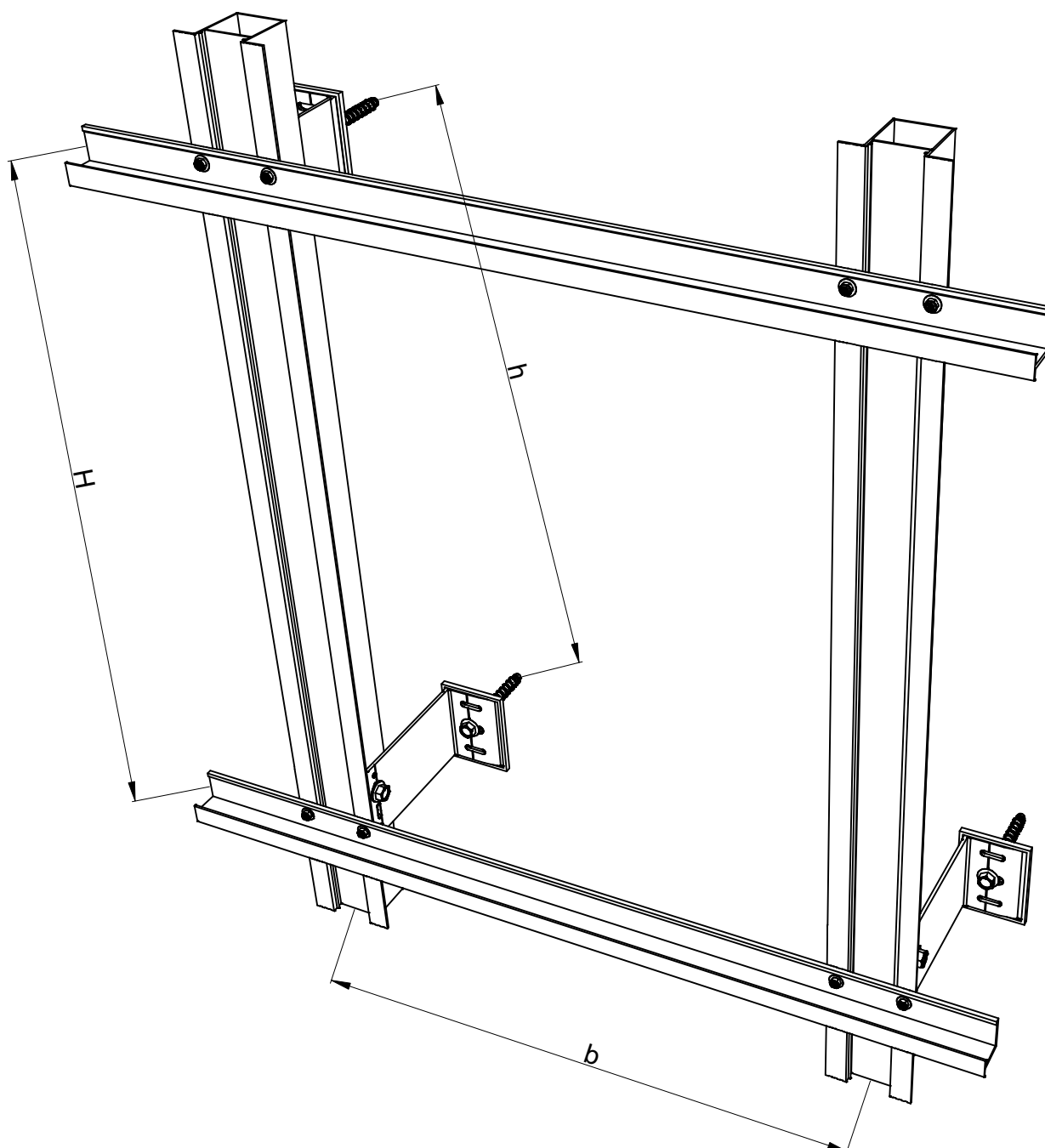
Opcija 1 - V01 kao primarna vertikalna noseća konstrukcija
Option 1 - V01 as primary vertical load bearing structure



Opcija 2 - V134 kao primarna vertikalna noseća konstrukcija
Option 2 - V134 as primary vertical load bearing structure

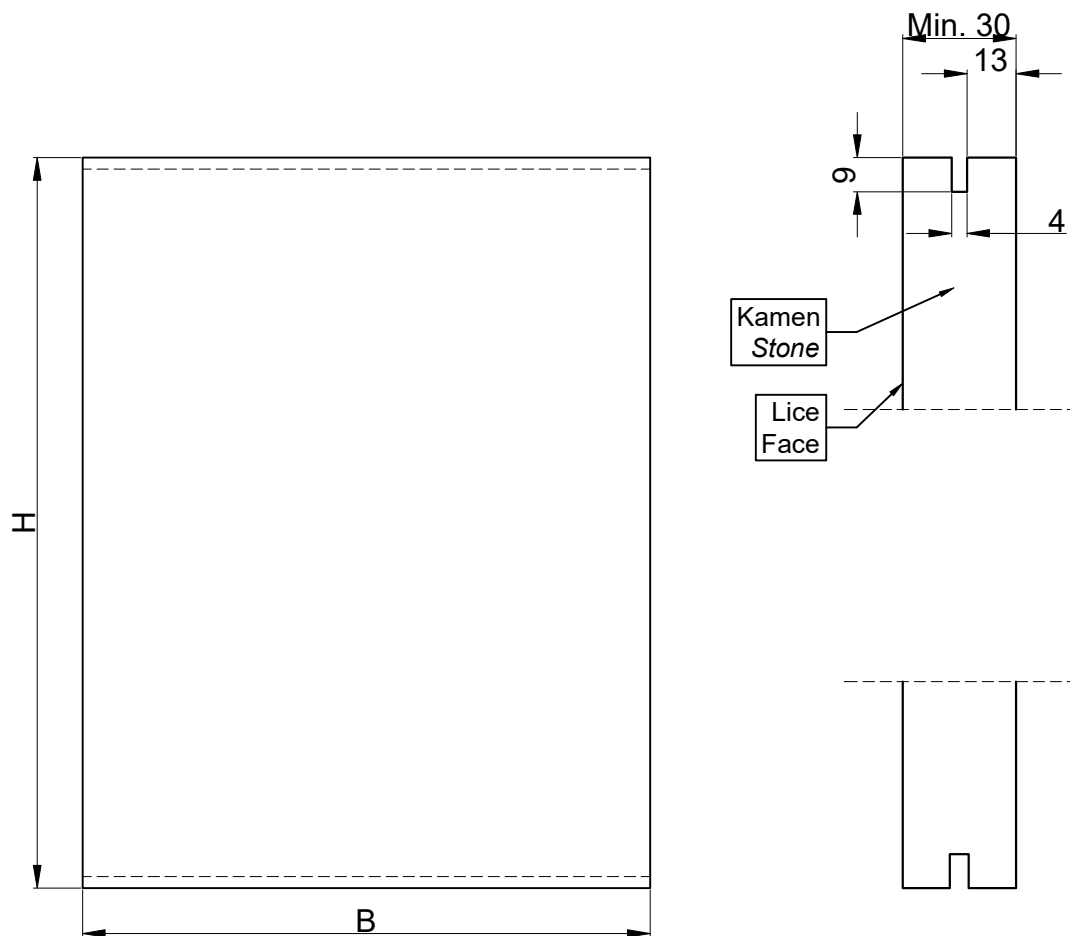
Opcija 3 - V88 kao primarna vertikalna noseća konstrukcija
Option 3 - V88 as primary vertical load bearing structure





b, h - prema statičkom proračunu, ali ne više od 1200mm
b, h - according to structural analysis, but no more than 1200mm

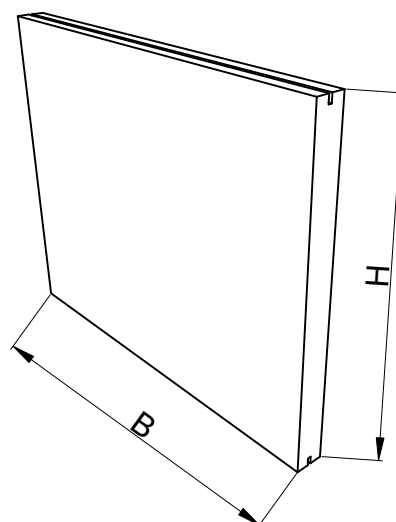
H - prema statičkom proračunu i u zavisnosti od primenjenog materijala obloge, ali ne više od 900mm
H - according to structural analysis and depending on applied cladding material, but no more than 900mm



B - projektovana vidna širina panela
B - designed visible panel width

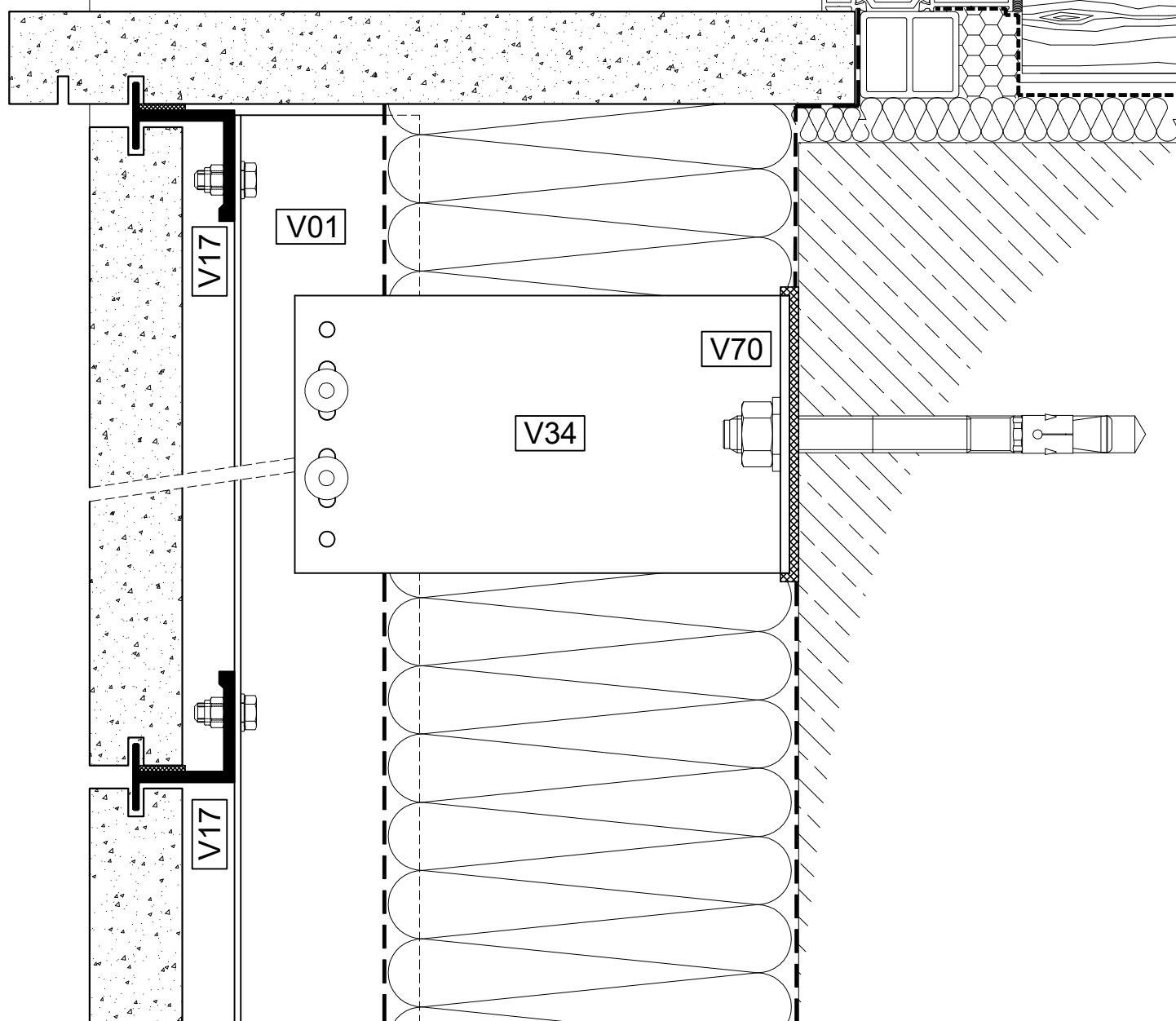
H - projektovana vidna visina panela
H - designed visible panel height

x - projektovana debljina panela
x - designed panel thickness

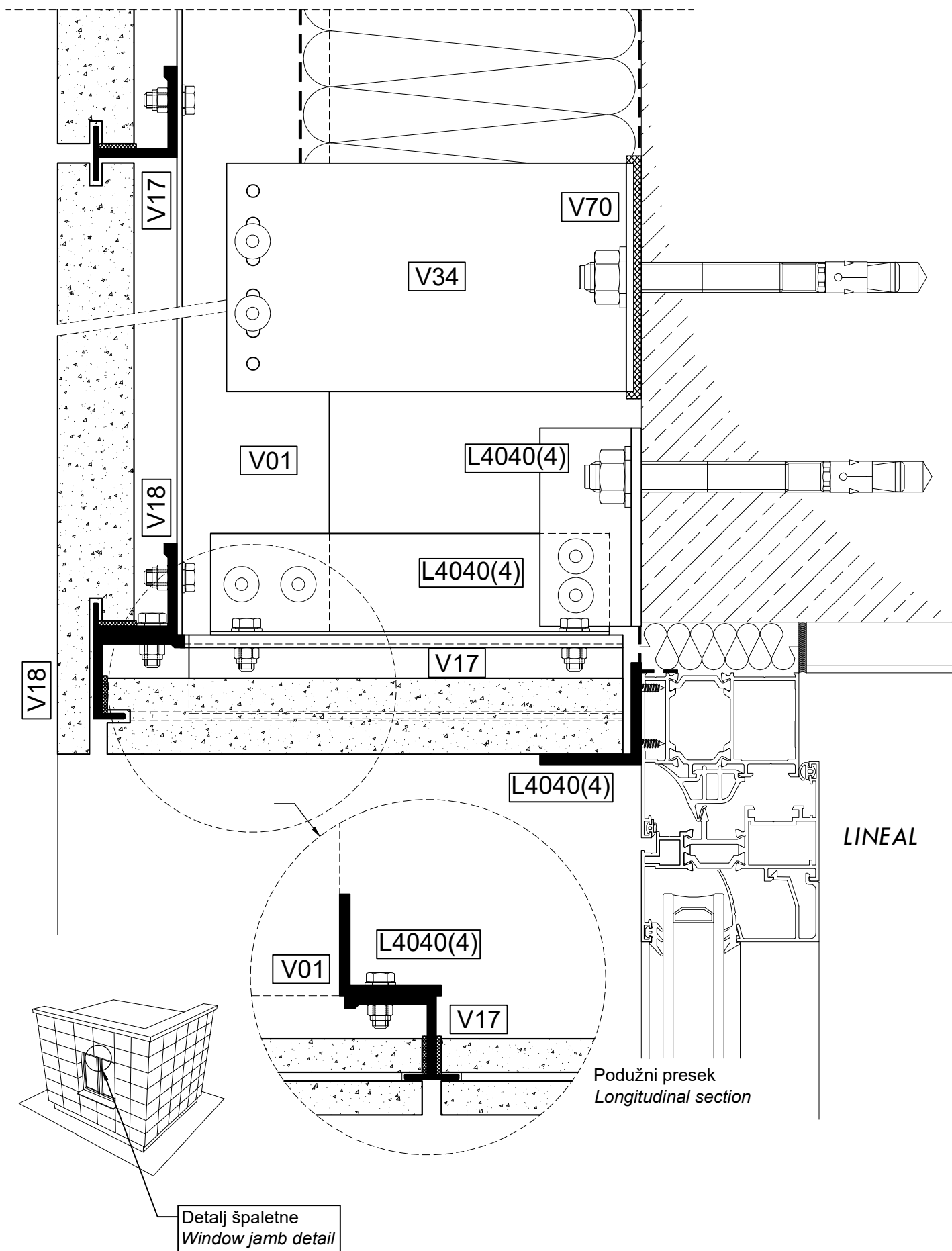


Min. 1%

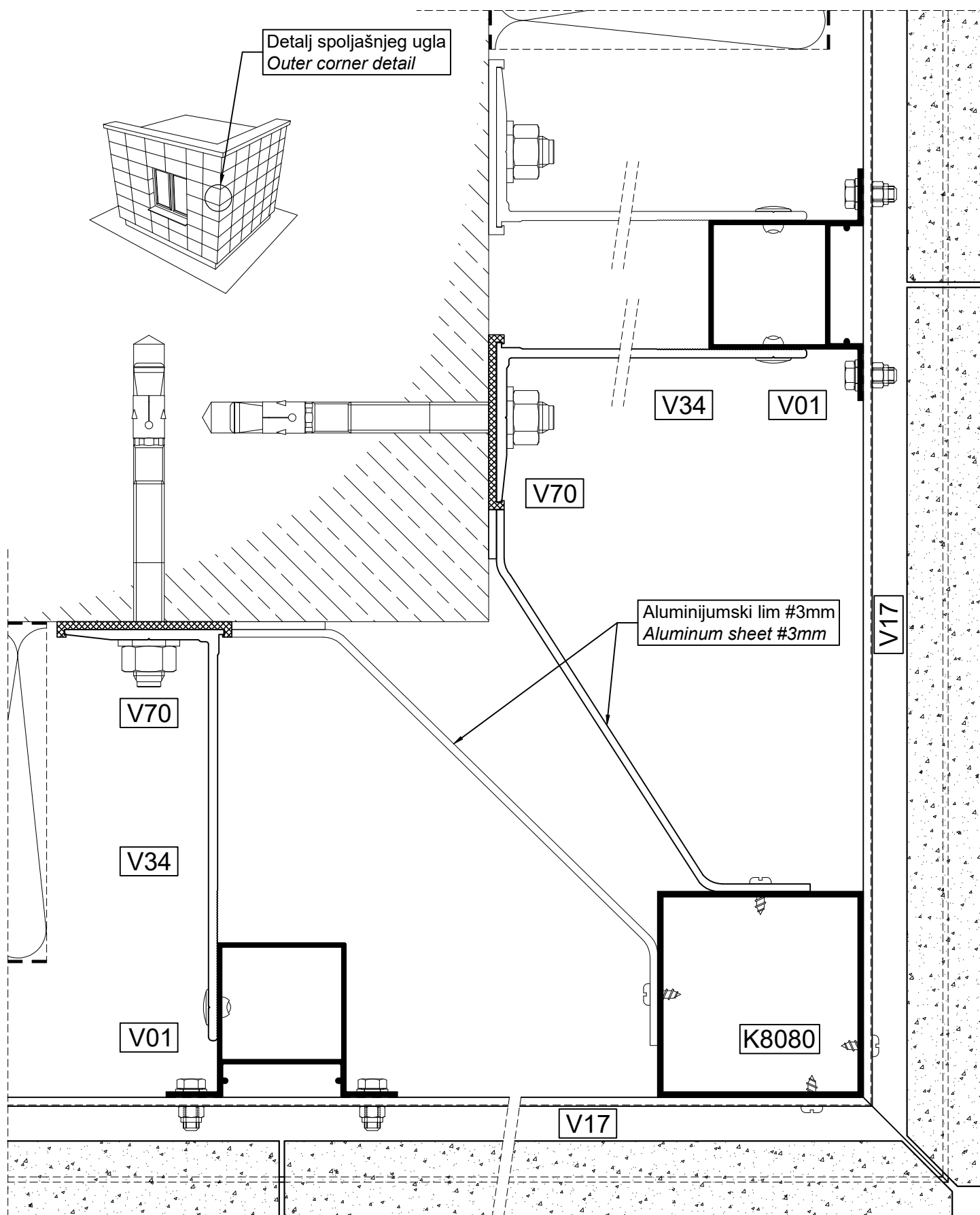
LINEAL



Vertikalni presek
Vertical section

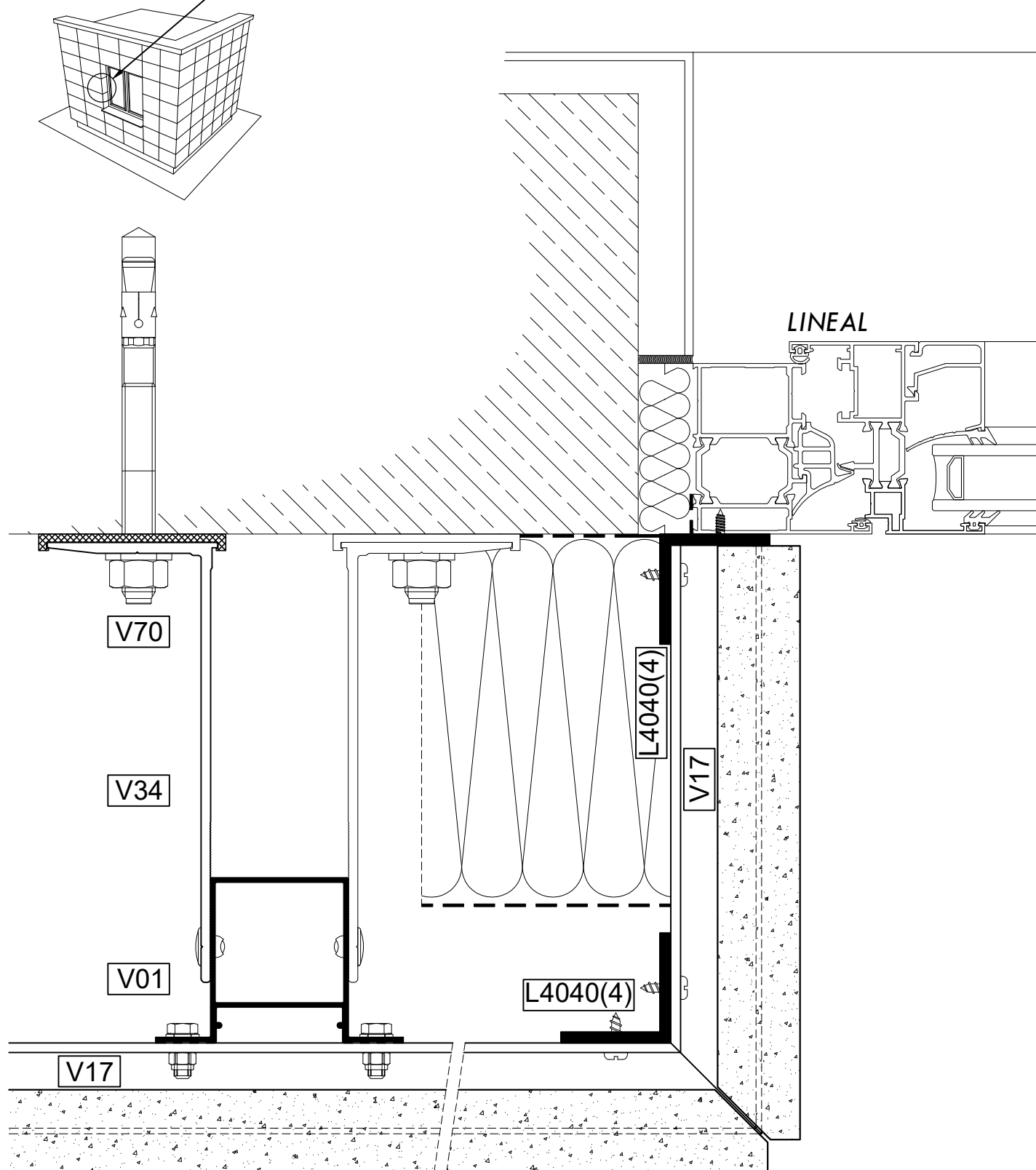


Horizontalni presek
Horizontal section

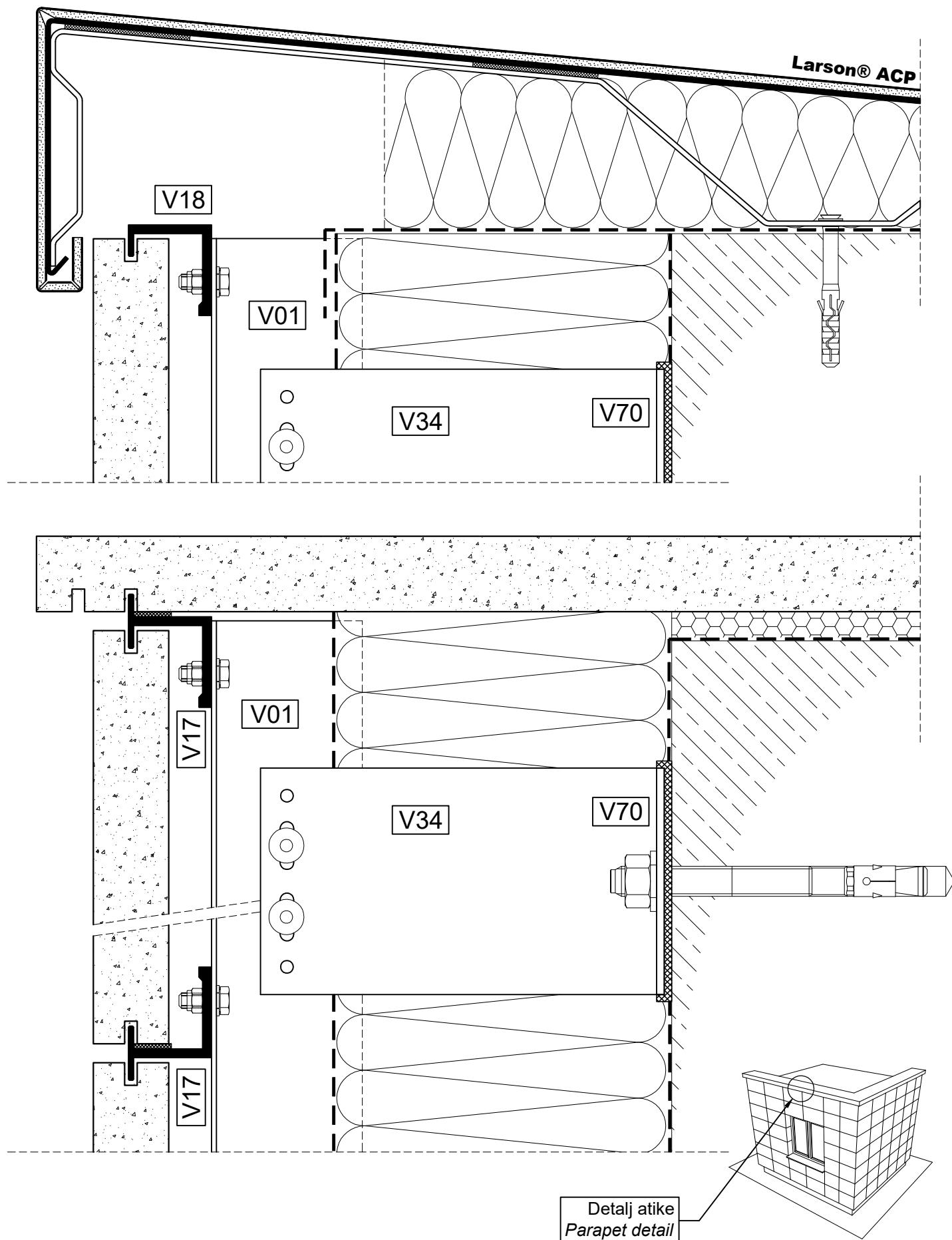


Horizontalni presek
Horizontal section

Detalji špaletne
Window jamb detail

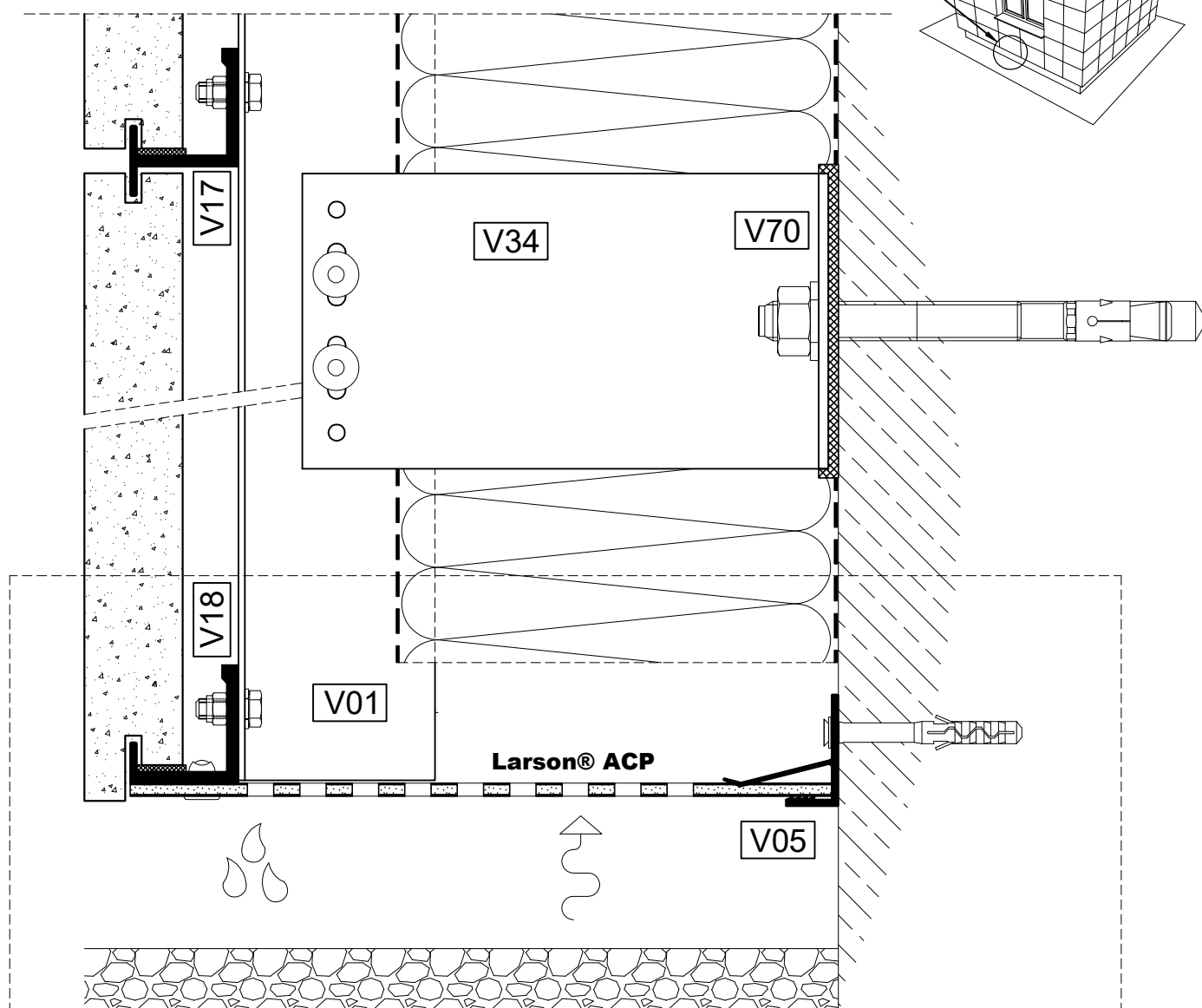


Vertikalni presek
Vertical section

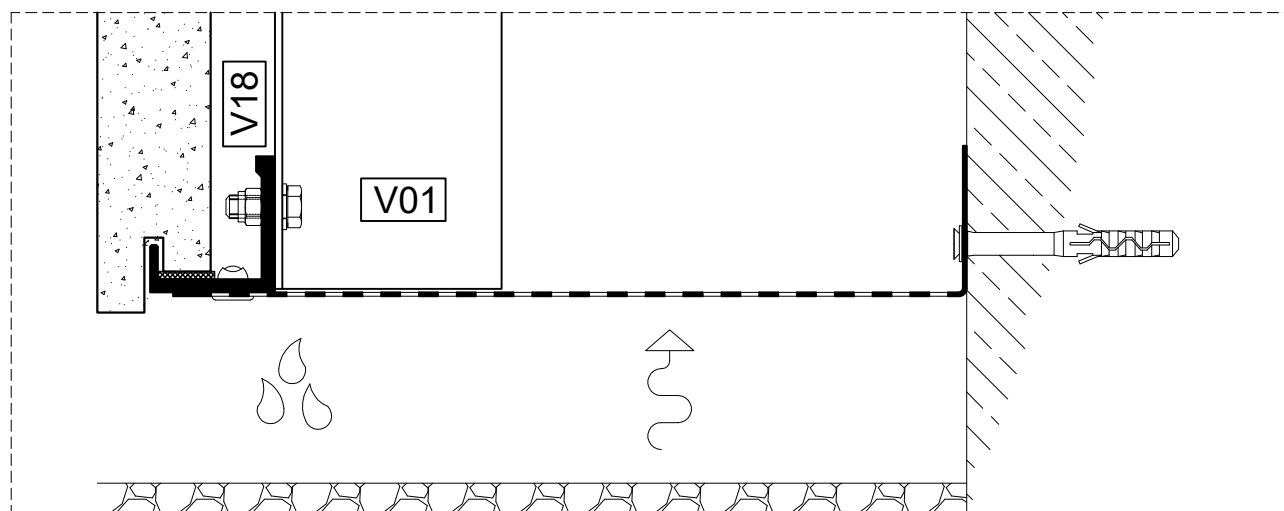


Vertikalni presek
Vertical section

Donji detalj
Bottom detail

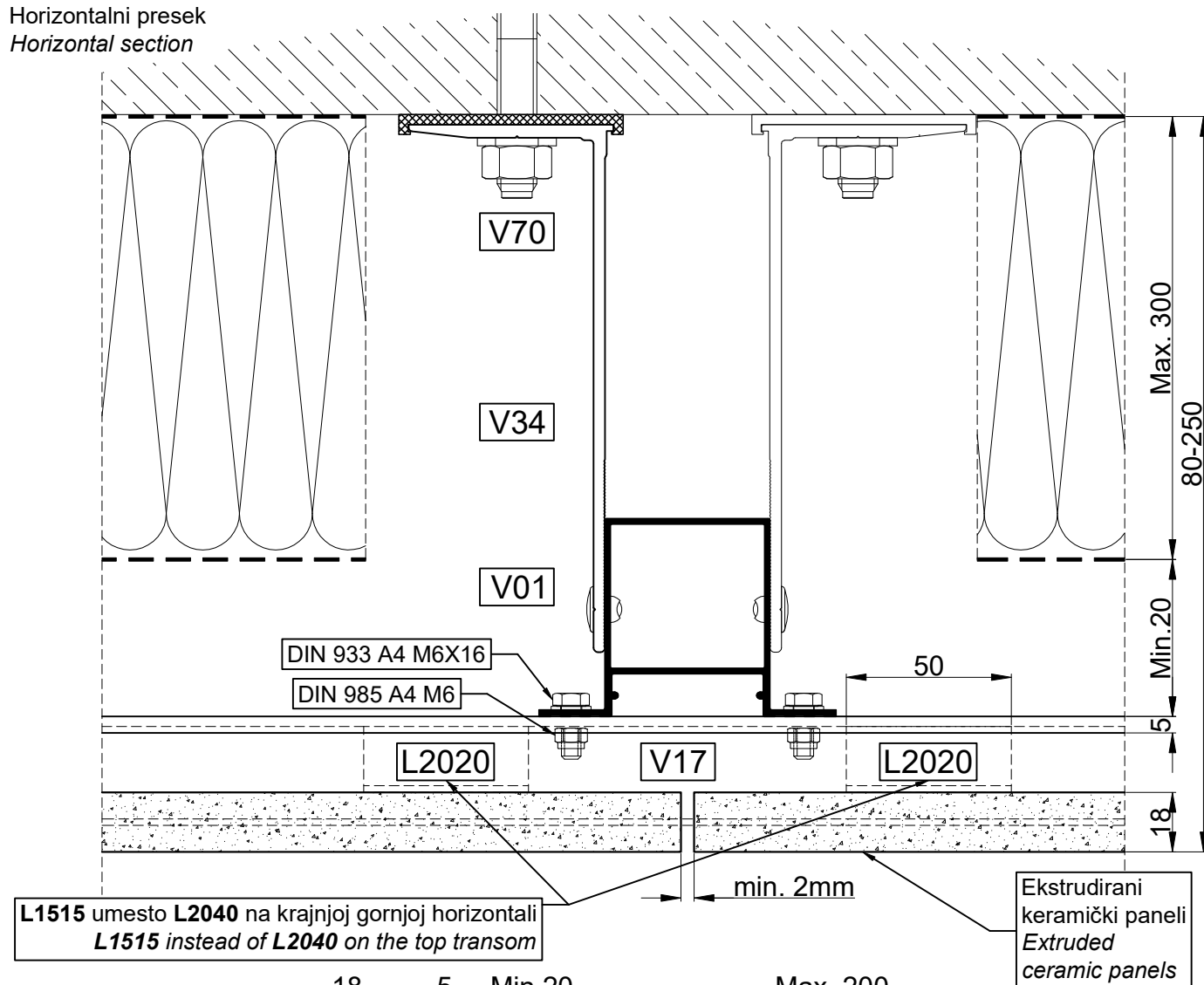


Opcija drenaže: perforirani aluminijumski kompozitni panel
Drainage option: perforated aluminium composite panel

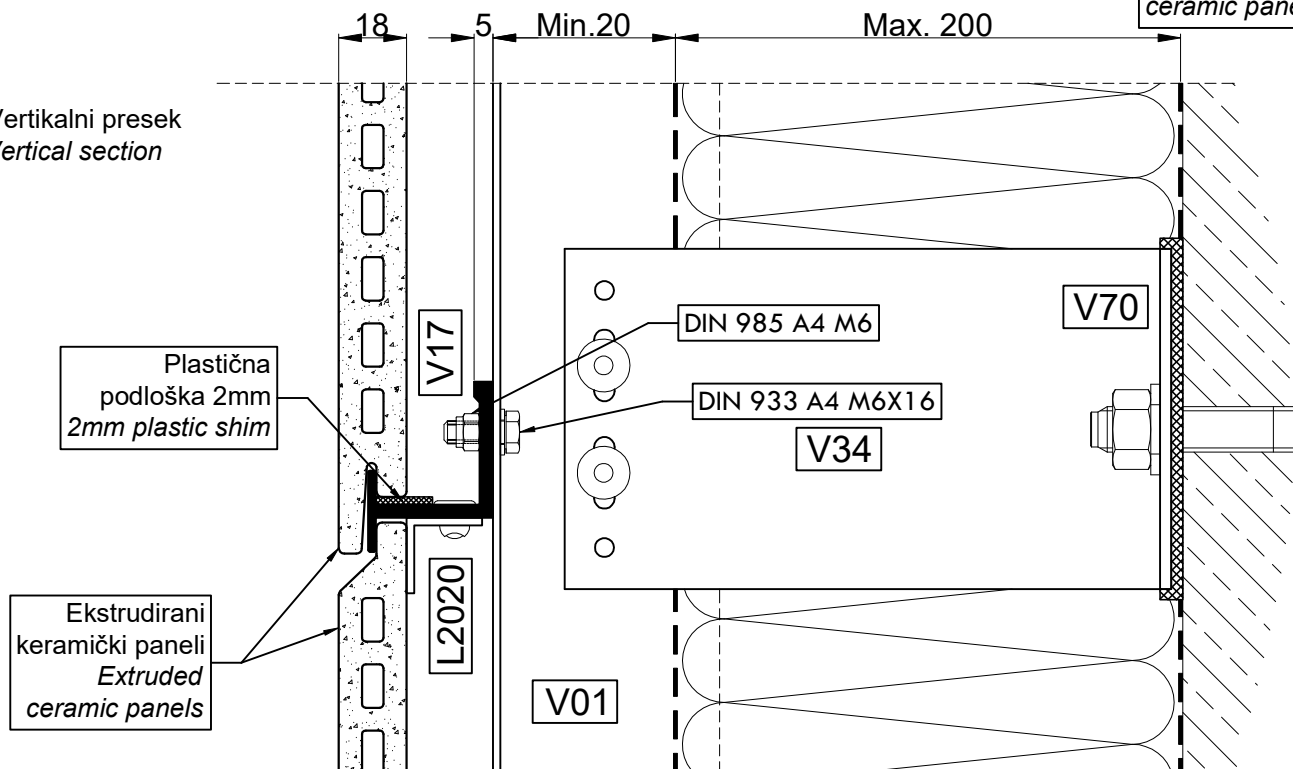


Opcija drenaže: perforirani aluminijumski lim
Drainage option: perforated aluminium sheet

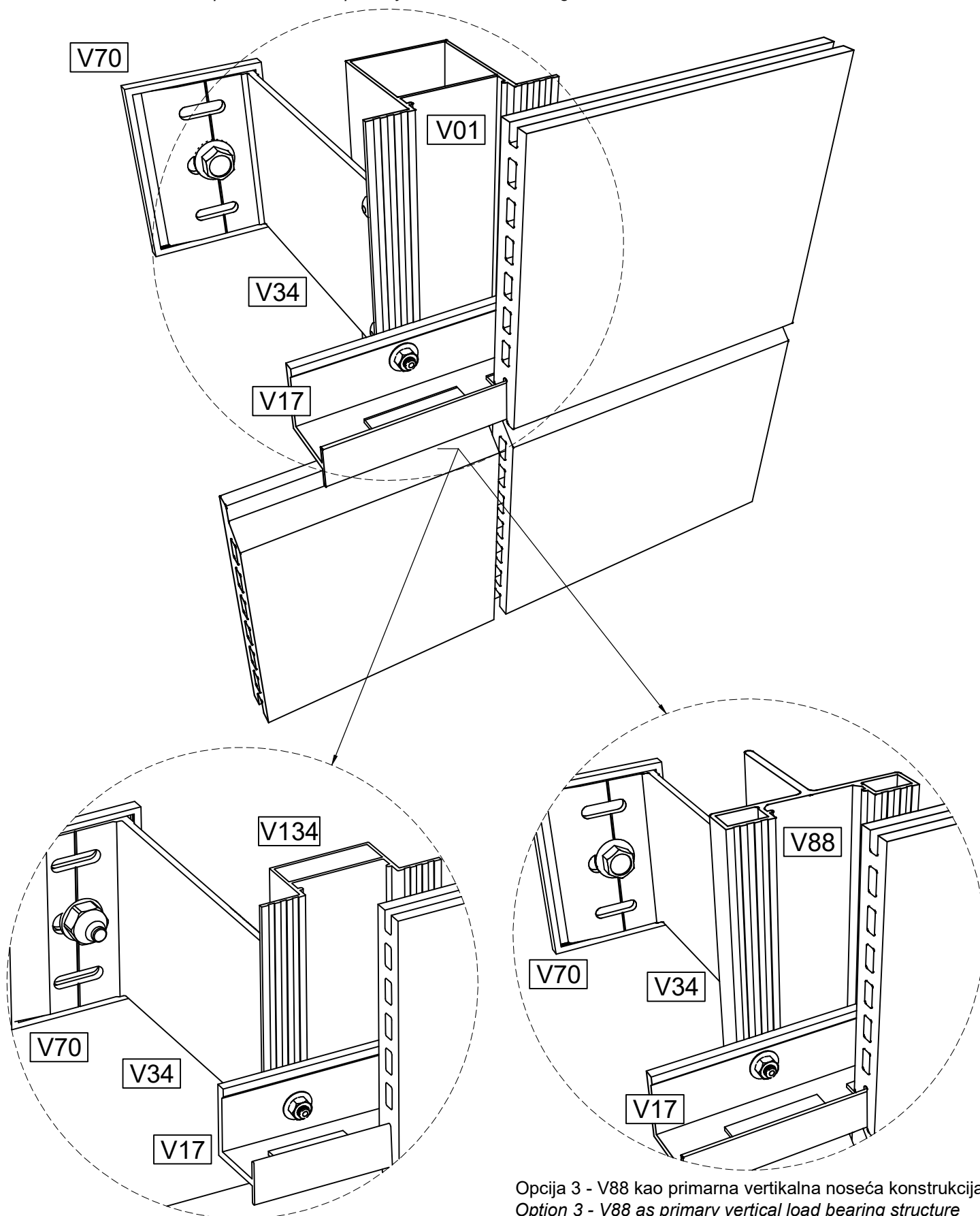
Horizontalni presek
Horizontal section



Vertikalni presek
Vertical section

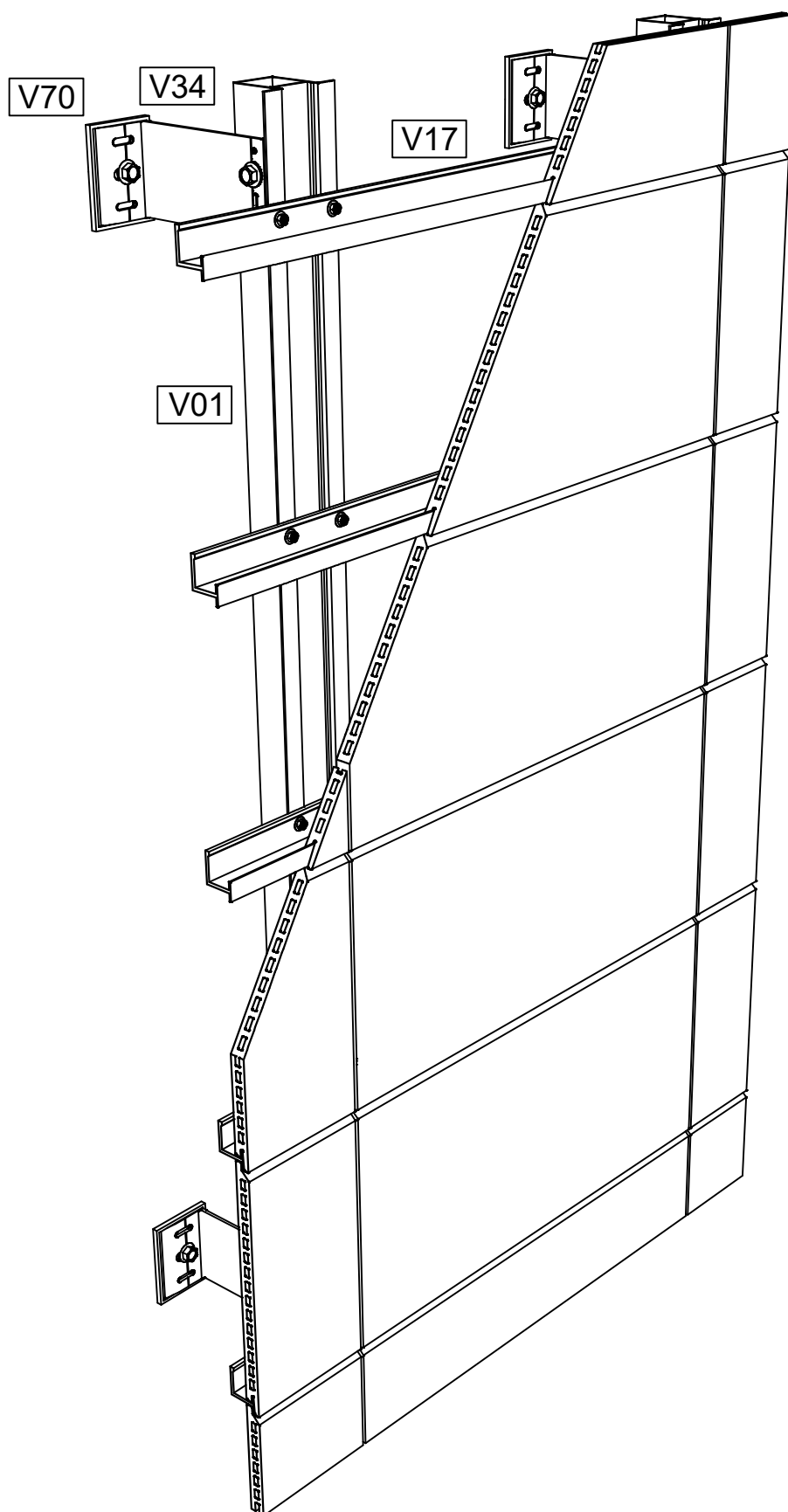


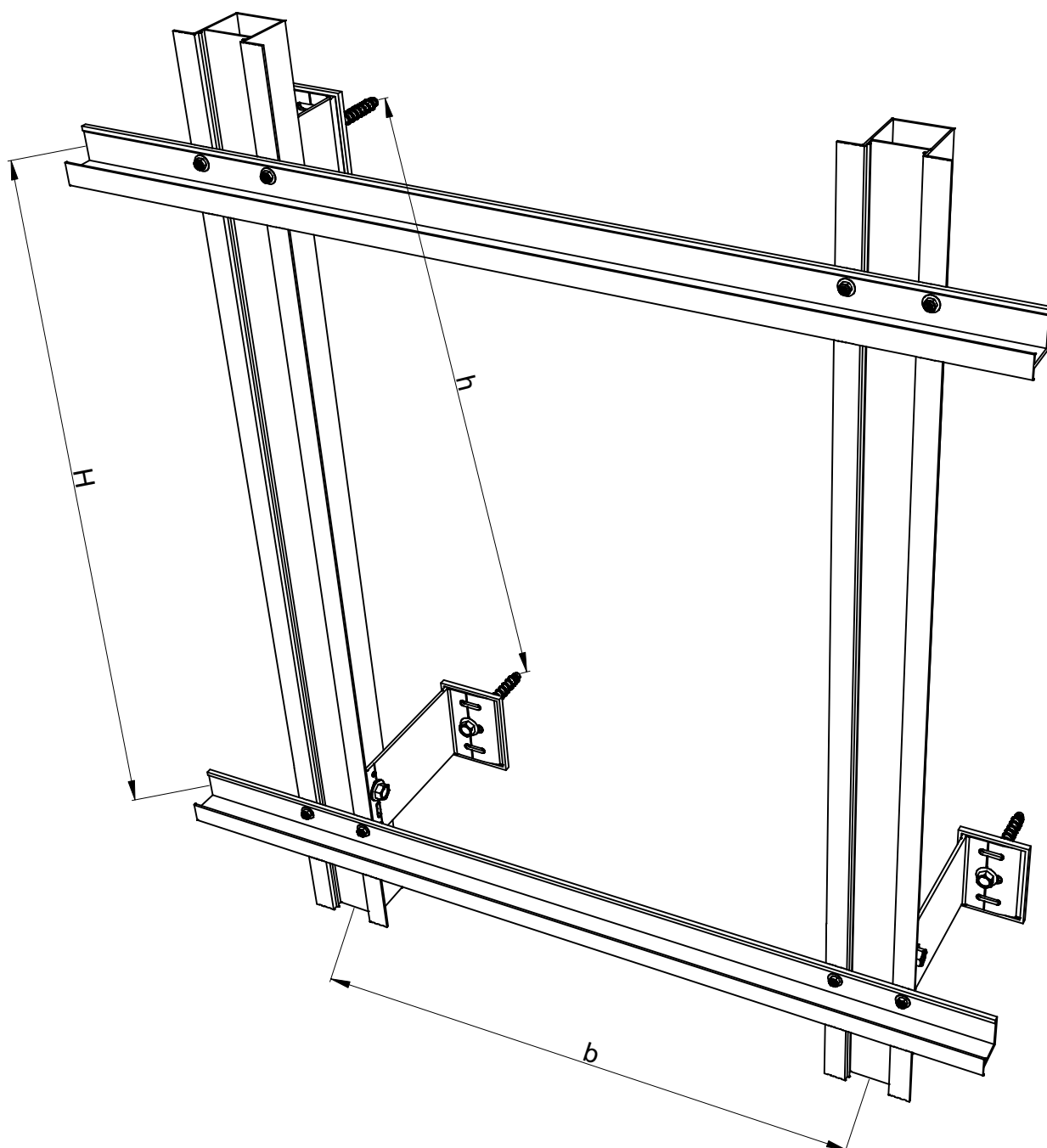
Opcija 1 - V01 kao primarna vertikalna noseća konstrukcija
Option 1 - V01 as primary vertical load bearing structure



Opcija 2 - V134 kao primarna vertikalna noseća konstrukcija
Option 2 - V134 as primary vertical load bearing structure

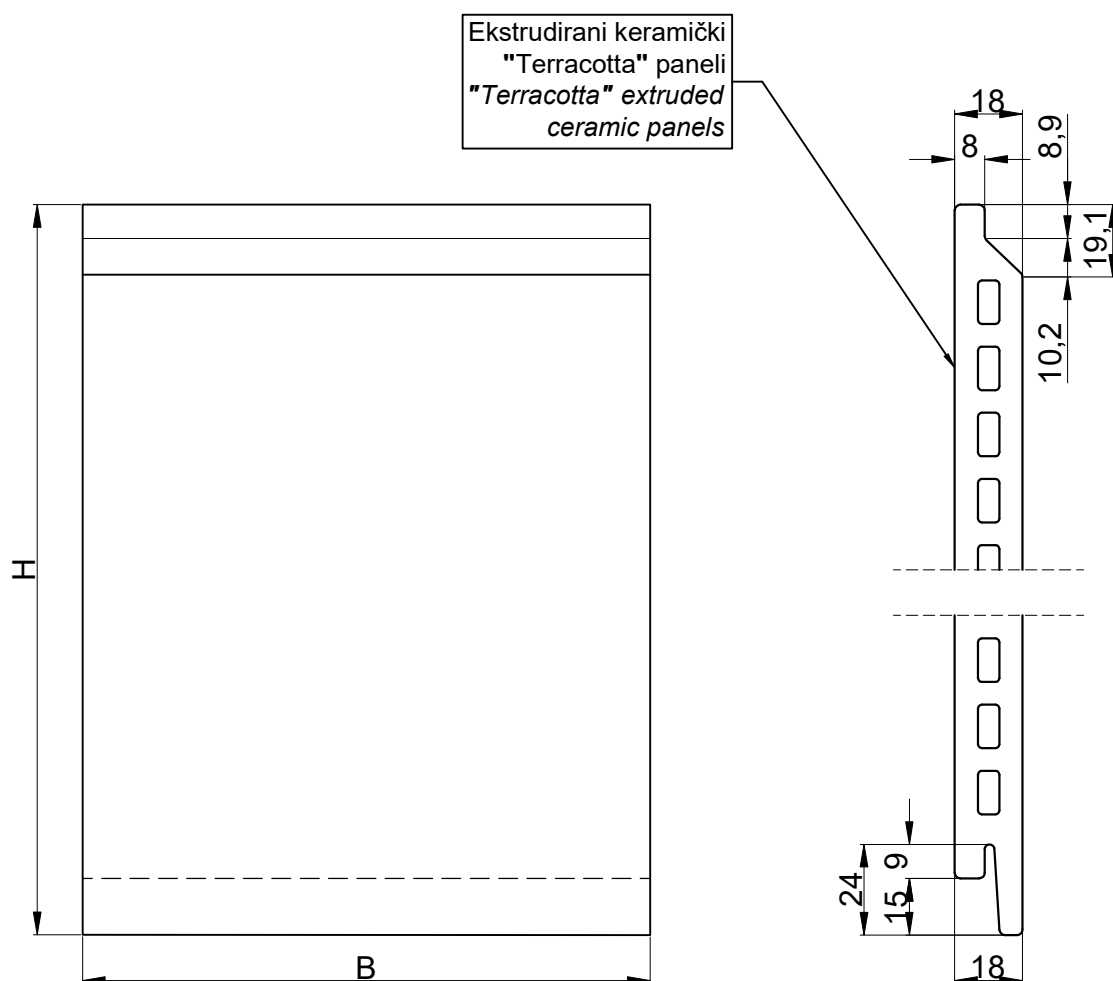
Opcija 3 - V88 kao primarna vertikalna noseća konstrukcija
Option 3 - V88 as primary vertical load bearing structure





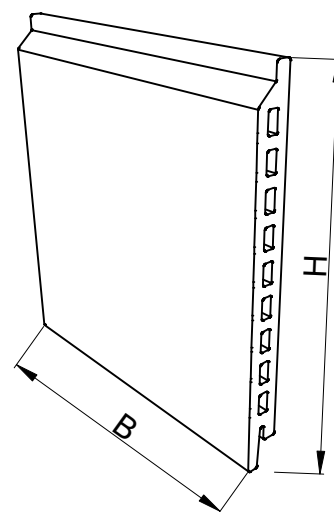
b, h - prema statičkom proračunu, ali ne više od 1200mm
 b, h - according to structural analysis, but no more than 1200mm

H - prema statičkom proračunu i u zavisnosti od primenjenog materijala obloge, ali ne više od 900mm
 H - according to structural analysis and depending on applied cladding material, but no more than 900mm

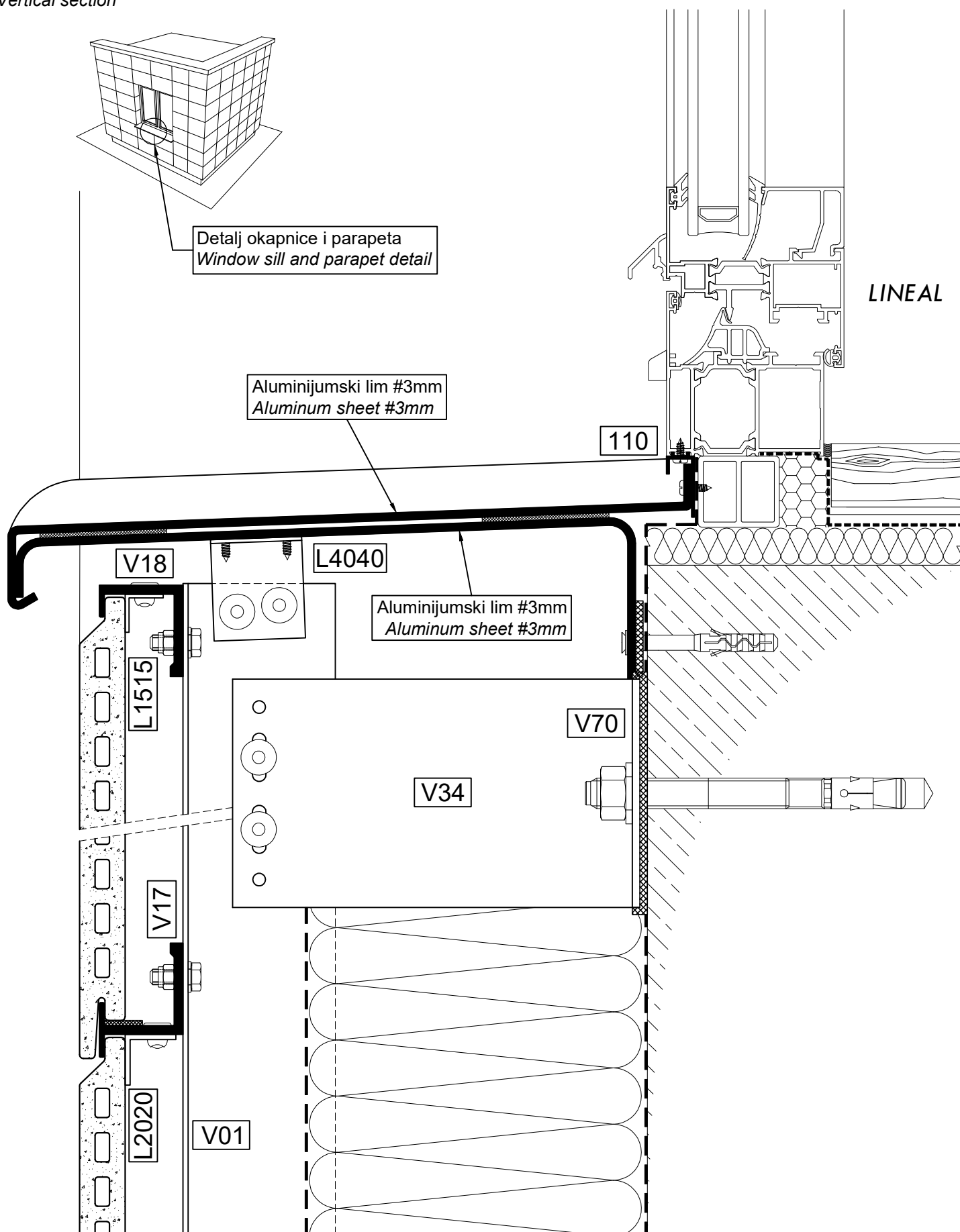


B - projektovana vidna širina panela - prema specifikaciji proizvođača
B - designed visible panel width - according to specification by manufacturer

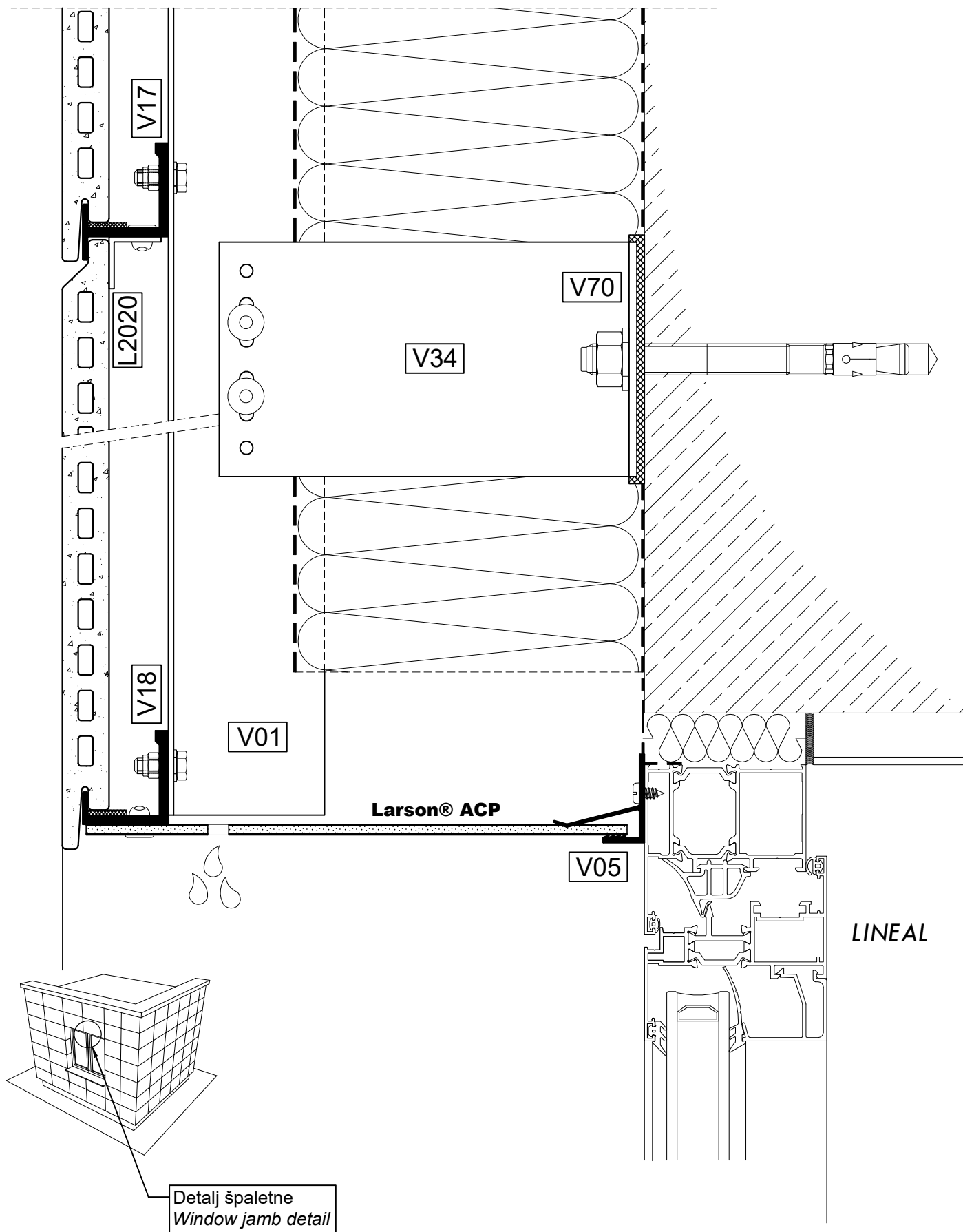
H - projektovana vidna visina panela - prema specifikaciji proizvođača
H - designed visible panel height - according to specification by manufacturer



Vertikalni presek
Vertical section



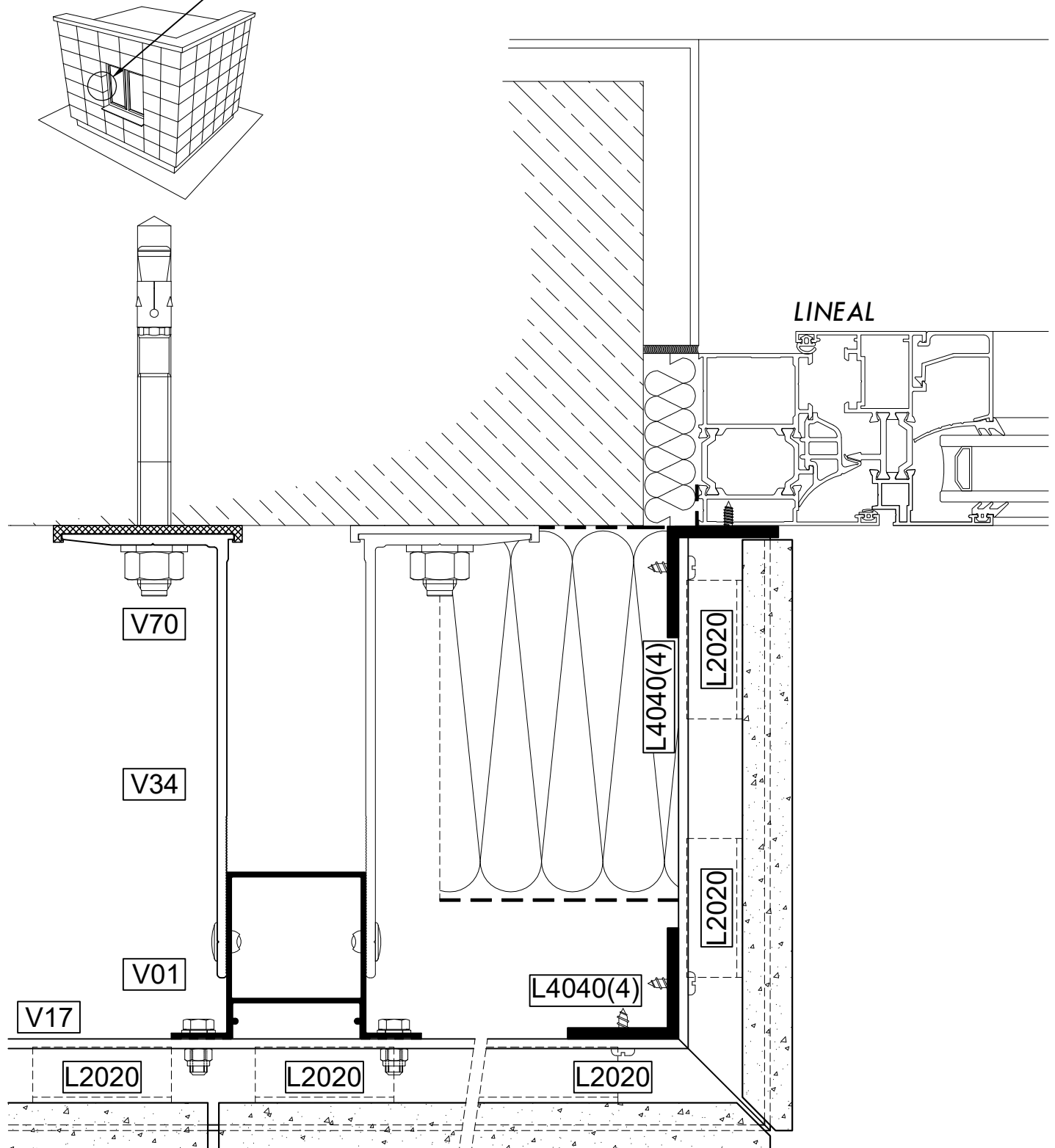
Vertikalni presek
Vertical section



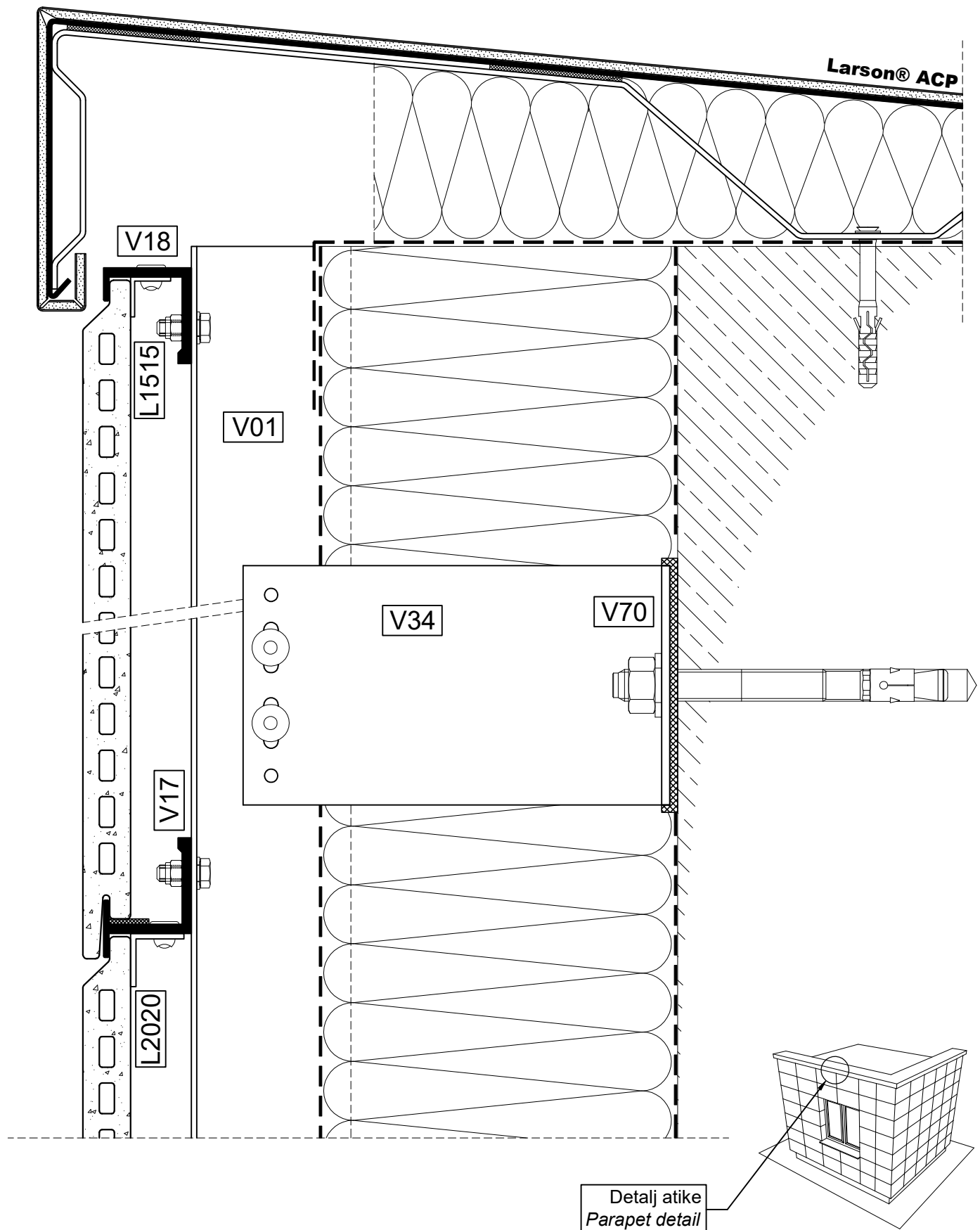
R1:2

Horizontalni presek
Horizontal section

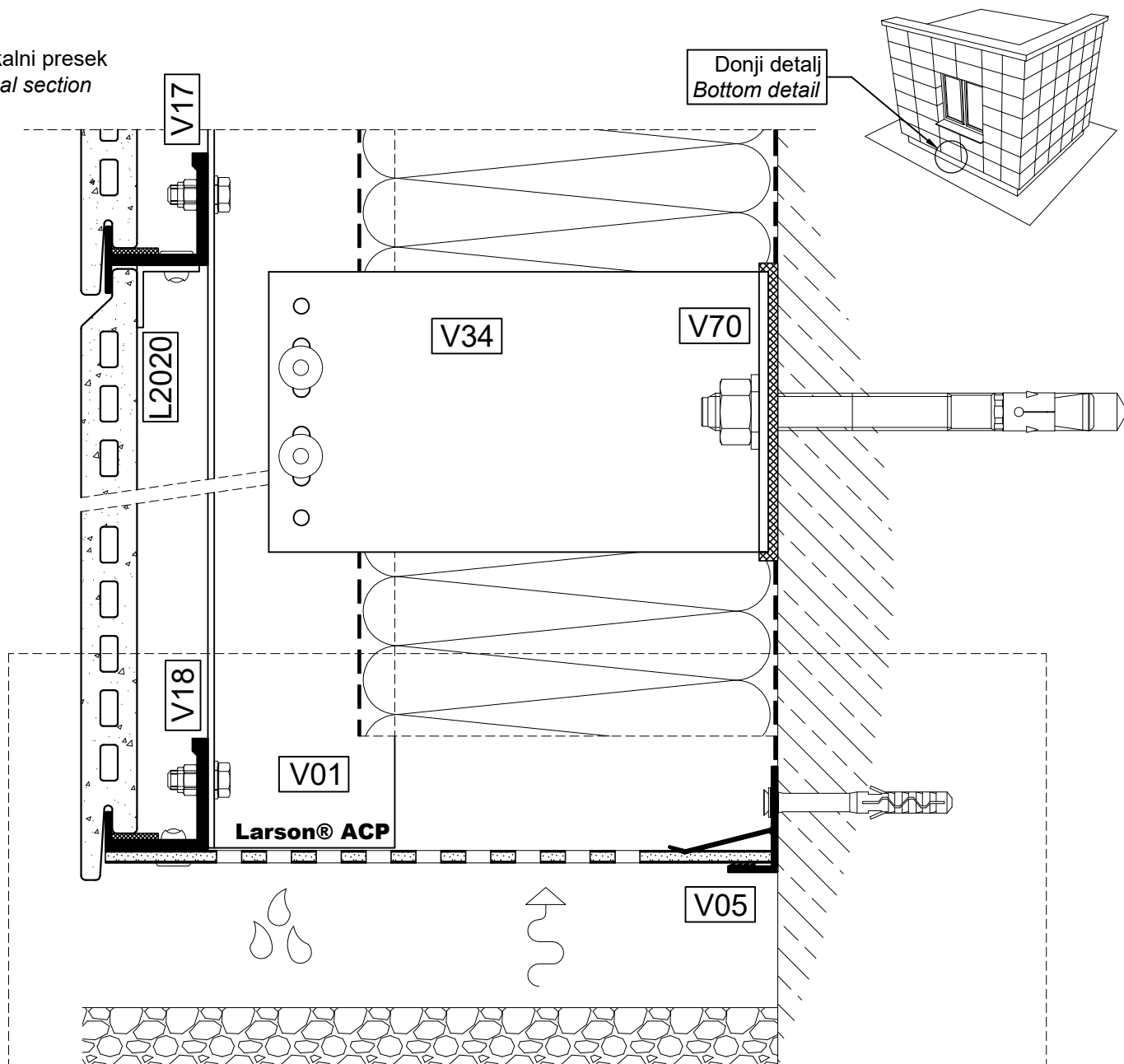
Detalj špaletne
Window jamb detail



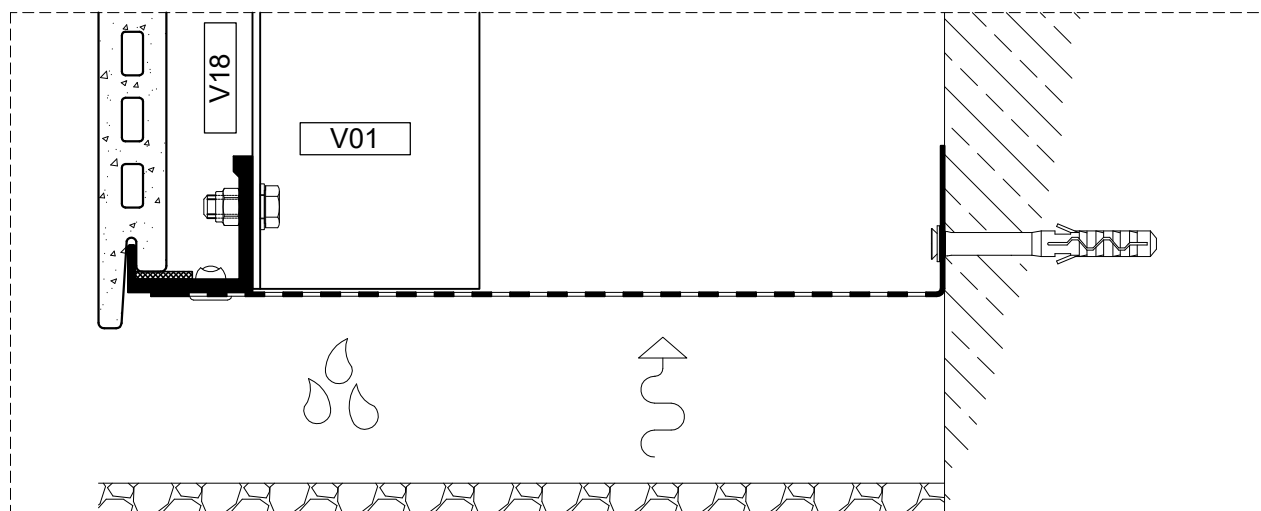
Vertikalni presek
Vertical section



Vertikalni presek
Vertical section



Opcija drenaže: perforirani aluminijumski kompozitni panel
Drainage option: perforated aluminium composite panel



Opcija drenaže: perforirani aluminijumski lim
Drainage option: perforated aluminium sheet

Sistem
System

V **NT** [continual]



TEHNIČKI OPIS SISTEMA

Sistem aluminijumske podkonstrukcije namenjen prihvatanju ravnih ploča, prepoznatljiv po naglašenom rasteru na fasadi. To naglašavanje je omogućeno pokrivnim profilima, koji prema izboru projektanta na fasadi mogu znatno isticati vertikale ili horizontale. Tako se dobija isti vizuelni efekat kao kod staklenih kontinualnih fasada po kojoj je ovaj sistem i nazvan (continual-neprekidan). Suvi je postupak ugradnje i ne postoje ograničenja u izboru materijala fasadnih panela.

Postupak montaže startuje sa razmeravanjem i obeležavanjem pozicija nosećih profila.

- a) Ekstrudirani noseći profili postavljaju se na objekat u projektovanom rasteru. Maksimalna preporučena dužina profila, kao i rastojanje između susednih vertikala, određuju se statičkim proračunom. Dužina profila ne može biti veća od 3500 mm, dok maksimalno rastojanje između susednih nosećih profila ne sme biti više od 1200 mm.
- b) Sistem Continual omogućava udaljenje fasadne obloge od zida od 64mm do 410mm*
- c) Fiksiranje nosećih vertikalnih ili horizontalnih profila (T, L, Ω...) se vrši kotvama koje omogućavaju fino podešavanje aluminijumskih nosećih profila u svim pravcima, kako bi se dobila potpuno ravna površina fasade. Njihov spoj može biti fiksni ili dilatirajući zahvaljujući integrisanom rešenju koje omogućuje obe opcije, a spajanje se izvodi pomoću pop-zakivaka ili samourezujućim nerđajućim vijcima. U slučaju zahteva za prekidom termo mosta, ispod kotvi se montiraju specijalno dizajnirane plastične podloške.
- d) kutijasti profili se montiraju na glavne noseće profile, dok se potkape (kat br. TMF3, TMF17, TMF33) montiraju na njih uz pomoć samourezujućih vijaka od inoxa.
- e) Na kraju, montiraju se dekorativne pokrivne kape (kat br. TMF4, TMF5, TMF15, TMF20, TMF27, TM40) uz pomoć posebne zaptivke (kat br. TMG3) i potkape (kat br. TMF3, TMF33, TMF61, TMF17, TMF41), kako bi vizuelno naglasile fasadne horizontale ili vertikale u skladu sa projektom.
- f) Ovaj sistem nema nikakvih ograničenja kada su u pitanju materijali za fasadno oblaganje, dok se paneli koriste u svojim originalnim dimenzijama ili seku na odgovarajuću meru. Podržane su debljine panela od 6mm do 60mm.

* ove dimenzije podržane su standardnim VENT sistemskim kotvama, za veća udaljenja pregledajte tehnički katalog (sekcije 5.19-5.24) i TMTP katalog.



TECHNICAL SYSTEM DESCRIPTION

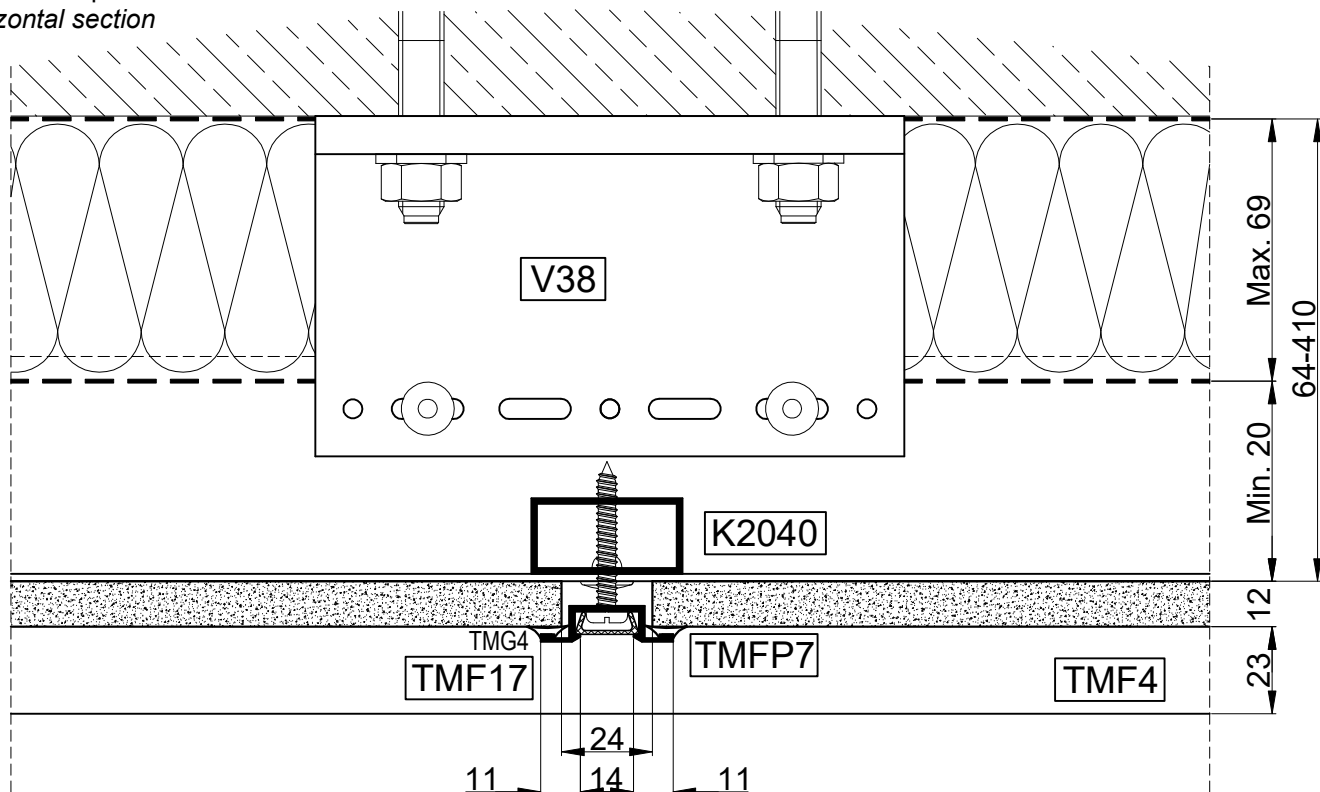
Aluminum substructure system designed for the installation of flat panels, distinguished by a pronounced façade grid. This visual emphasis is achieved by means of decorative cover profiles, which—depending on the designer's choice—can strongly accentuate either vertical or horizontal lines on the façade. The resulting visual effect is comparable to that of continuous glass façades, from which the system derives its name [Continual]. The installation process is dry, and there are no limitations regarding the choice of façade panel materials.

The installation process begins with surveying and marking the positions of the load-bearing profiles.

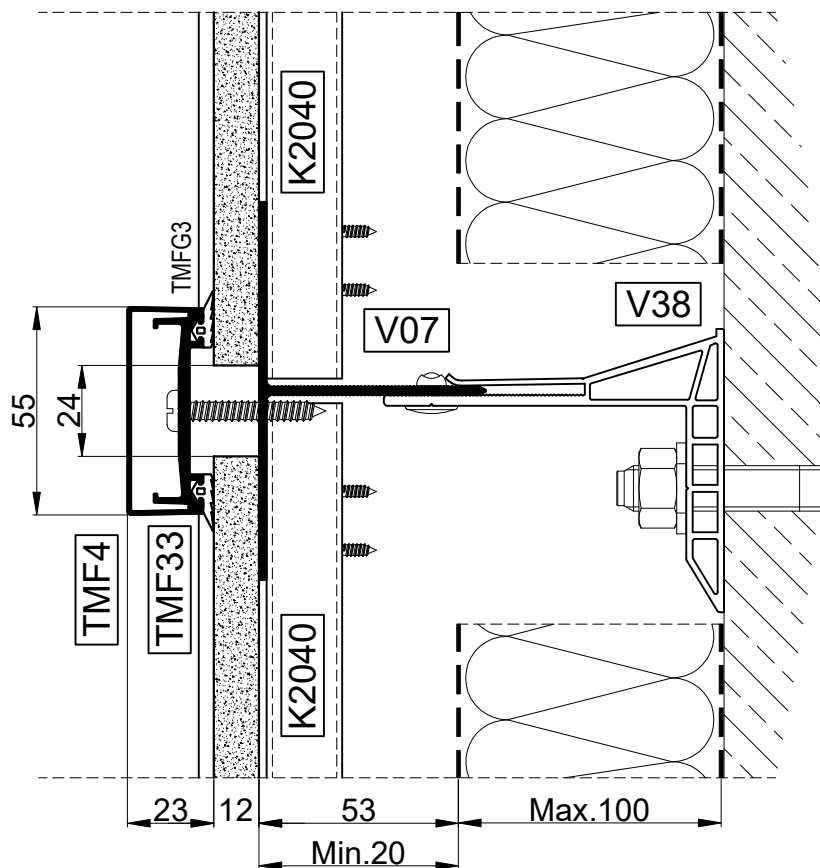
- a) Extruded load-bearing profiles are installed on the building according to the designed grid. The maximum recommended profile length and the spacing between adjacent vertical profiles are determined by static calculations. The profile length must not exceed 3500 mm, while the maximum spacing between adjacent load-bearing profiles must not exceed 1200 mm.
- b) The Continual system allows the façade cladding to be offset from the wall within a range of 64 mm to 410 mm*.
- c) Fixing of the load-bearing vertical or horizontal profiles (T, L, Ω , etc.) is carried out using anchors that allow fine adjustment of the aluminum profiles in all directions, ensuring a perfectly planar façade surface. The connection can be either fixed or sliding, thanks to an integrated solution that allows both options. Connections are made using pop rivets or self-drilling stainless steel screws. Where thermal bridge interruption is required, specially designed plastic spacers are installed beneath the anchors.
- d) Box profiles are mounted onto the primary load-bearing profiles. Sub-caps (cat. no. TMF3, TMF17, TMF33) are then installed onto the box profiles using self-drilling stainless steel screws.
- e) Finally, decorative cover caps (cat. no. TMF4, TMF5, TMF15, TMF20, TMF27, TM40) are installed using a dedicated sealing gasket (cat. no. TMG3) and sub-caps (cat. no. TMF3, TMF33, TMF61, TMF17, TMF41), in order to visually emphasize façade horizontals or verticals in accordance with the project design.
- f) The system imposes no limitations on façade cladding materials. Panels may be used in their original dimensions or cut to the required size. Supported panel thicknesses range from 6 mm to 60 mm.

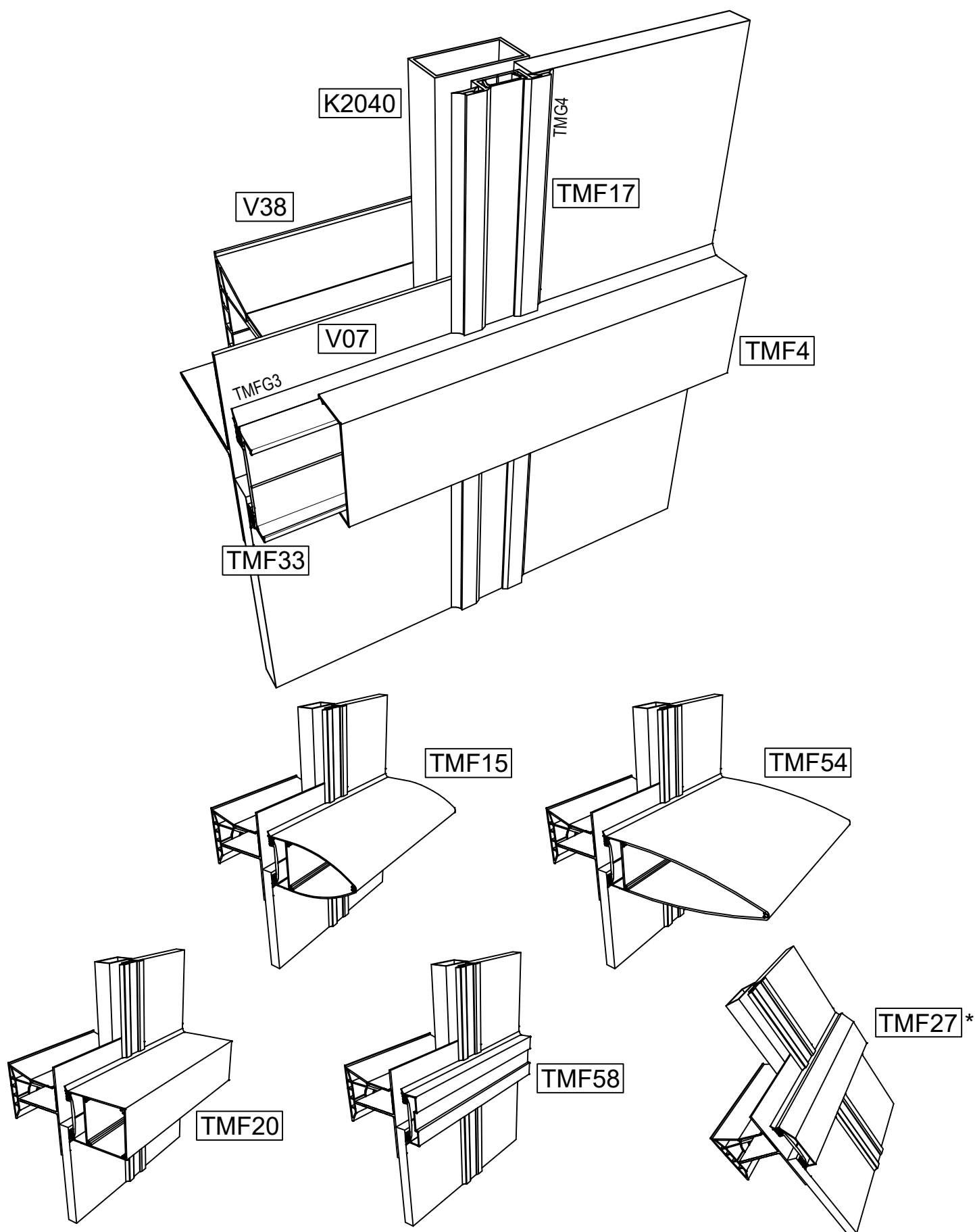
* These dimensions are supported by standard VENT system anchors. For larger offsets, please refer to the technical catalogue [sections 5.19-5.24] and the TMTP catalogue.

Horizontalni presek
Horizontal section



Vertikalni presek
Vertical section



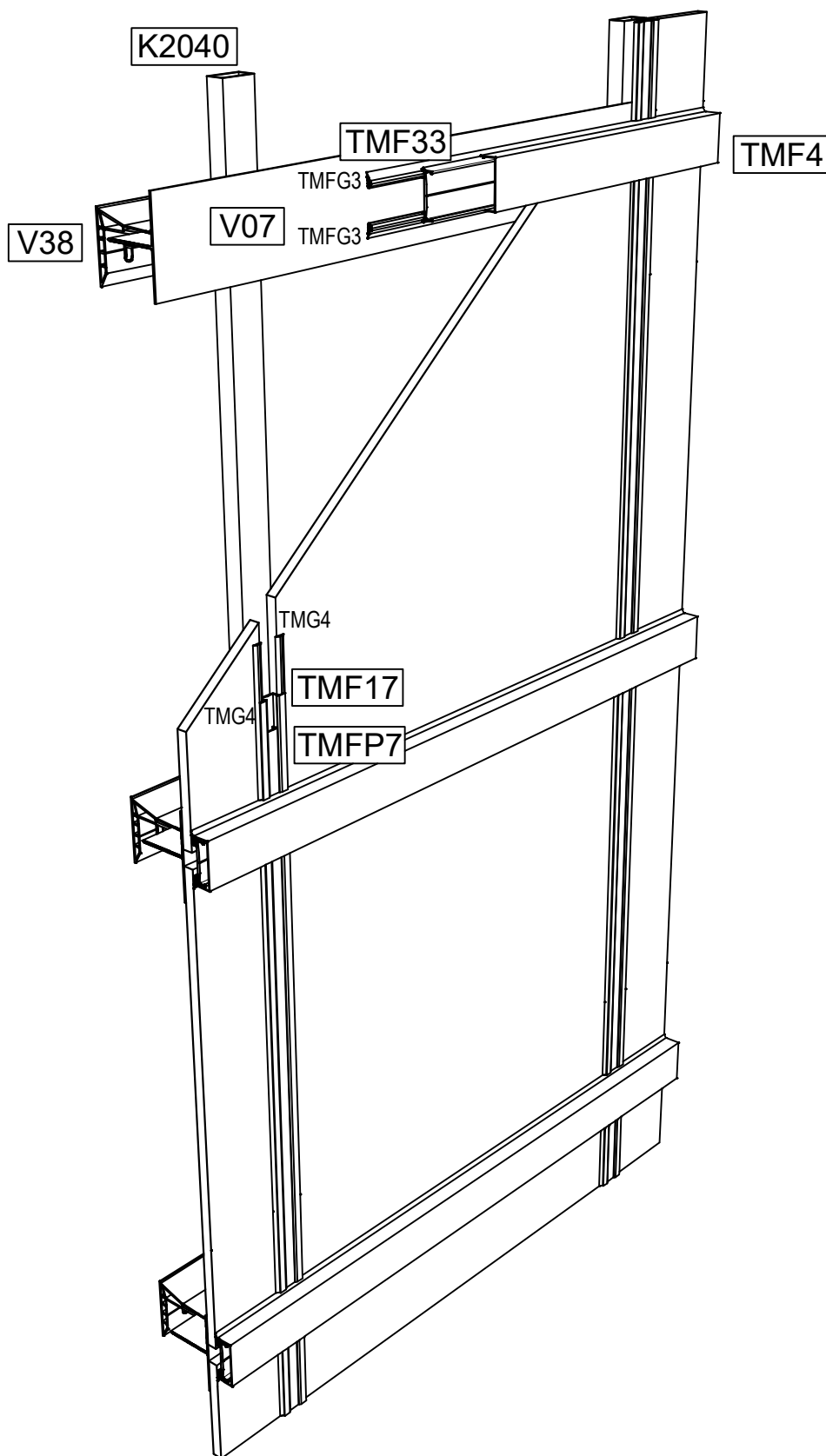


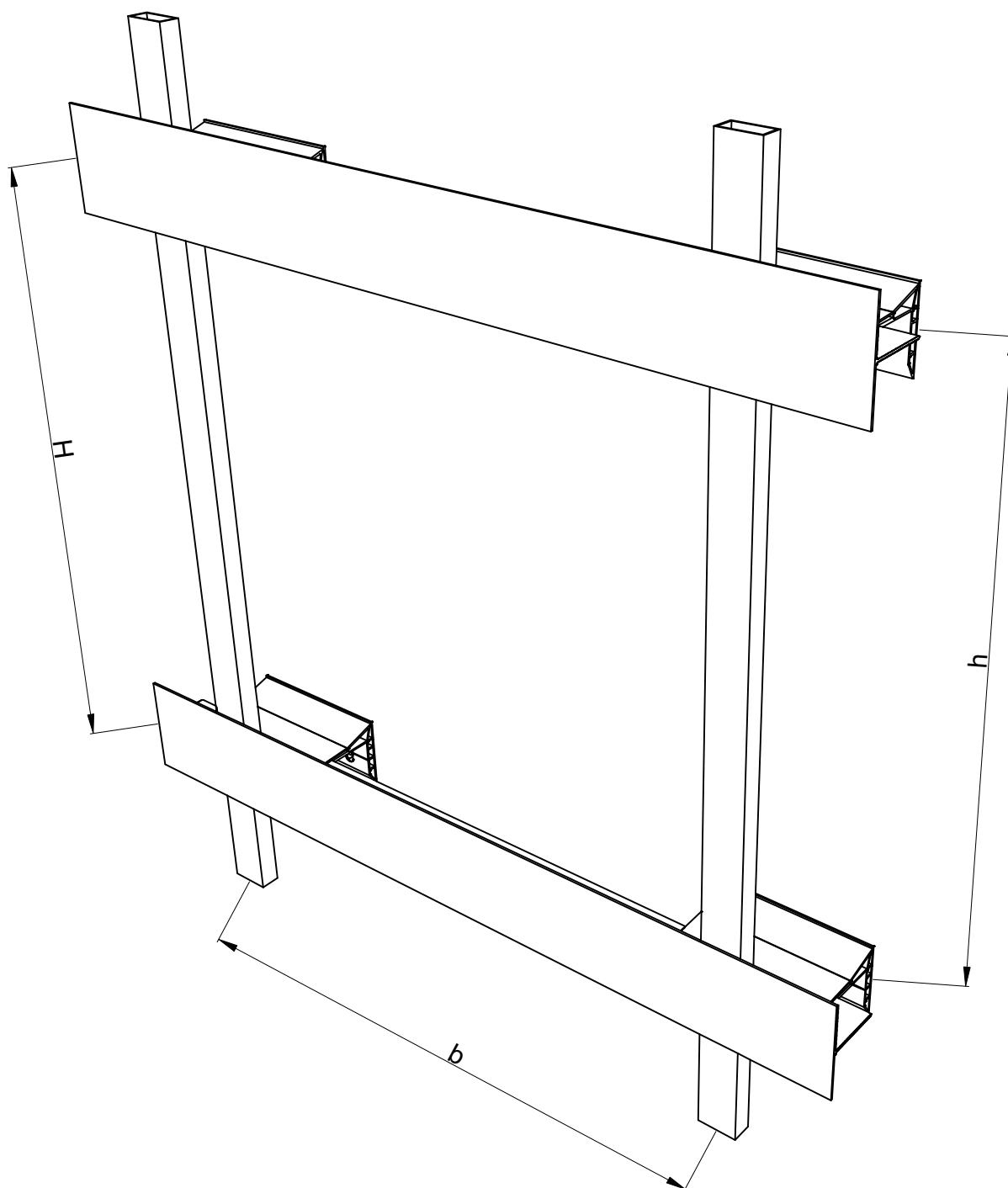
Mogućnost montiranja kapa vertikalno i horizontalno.

Possibility of installation of cover cap profiles vertically and horizontally.

*Zbog svoje geometrije, postavlja se na kosoj ravni (za razliku od ostalih kapa, ne dozvoljava zadržavanje vode)

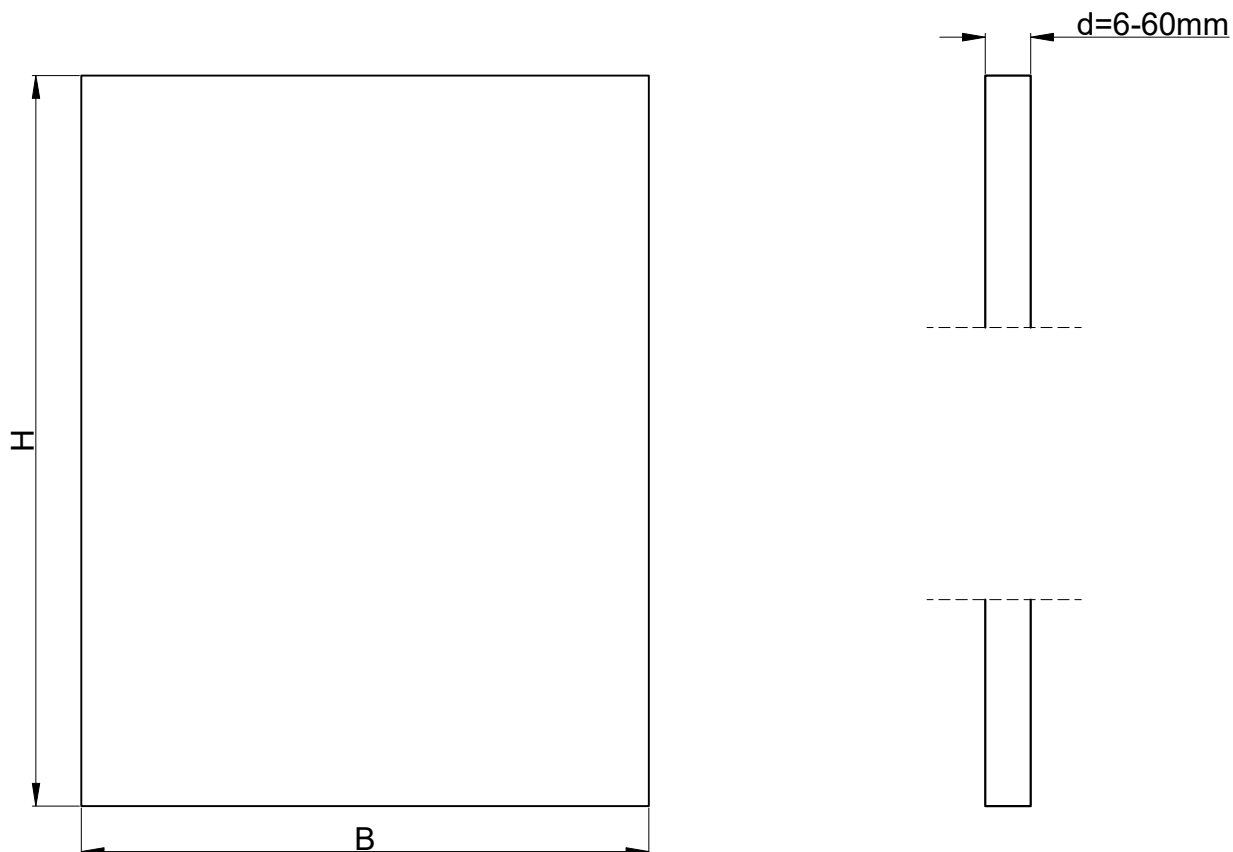
**Due to its geometry, it is installed inclined (unlike other cap profiles, it prevents water retention)*





b, h - prema statičkom proračunu, ali ne više od 1200mm
b, h - according to structural analysis, but no more than 1200mm

H - prema statičkom proračunu i u zavisnosti od primenjenog materijala obloge, ali ne više od 900mm
H - according to structural analysis and depending on applied cladding material, but no more than 900mm



B - projektovana vidna širina panela

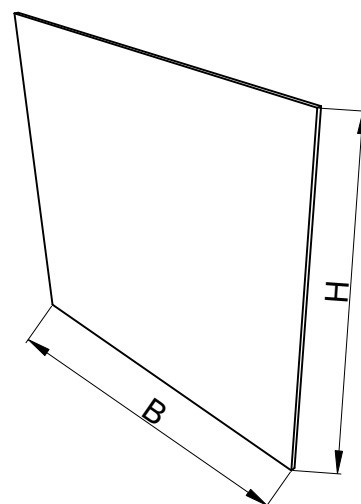
B - *designed visible panel width*

H - projektovana vidna visina panela

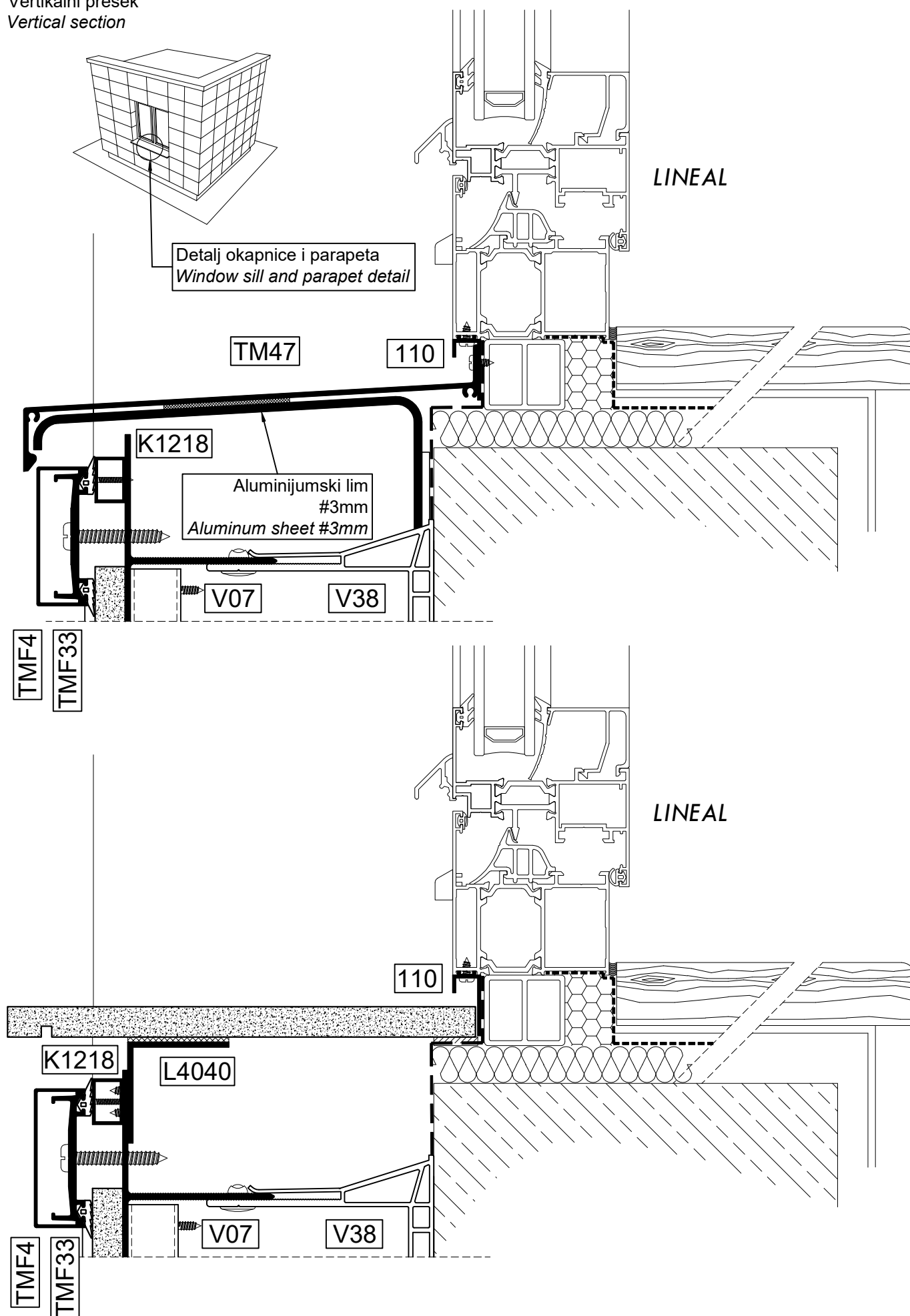
H - *designed visible panel height*

d - debljina panela, u zavisnosti od odabira materijala obloge i potreba projekta

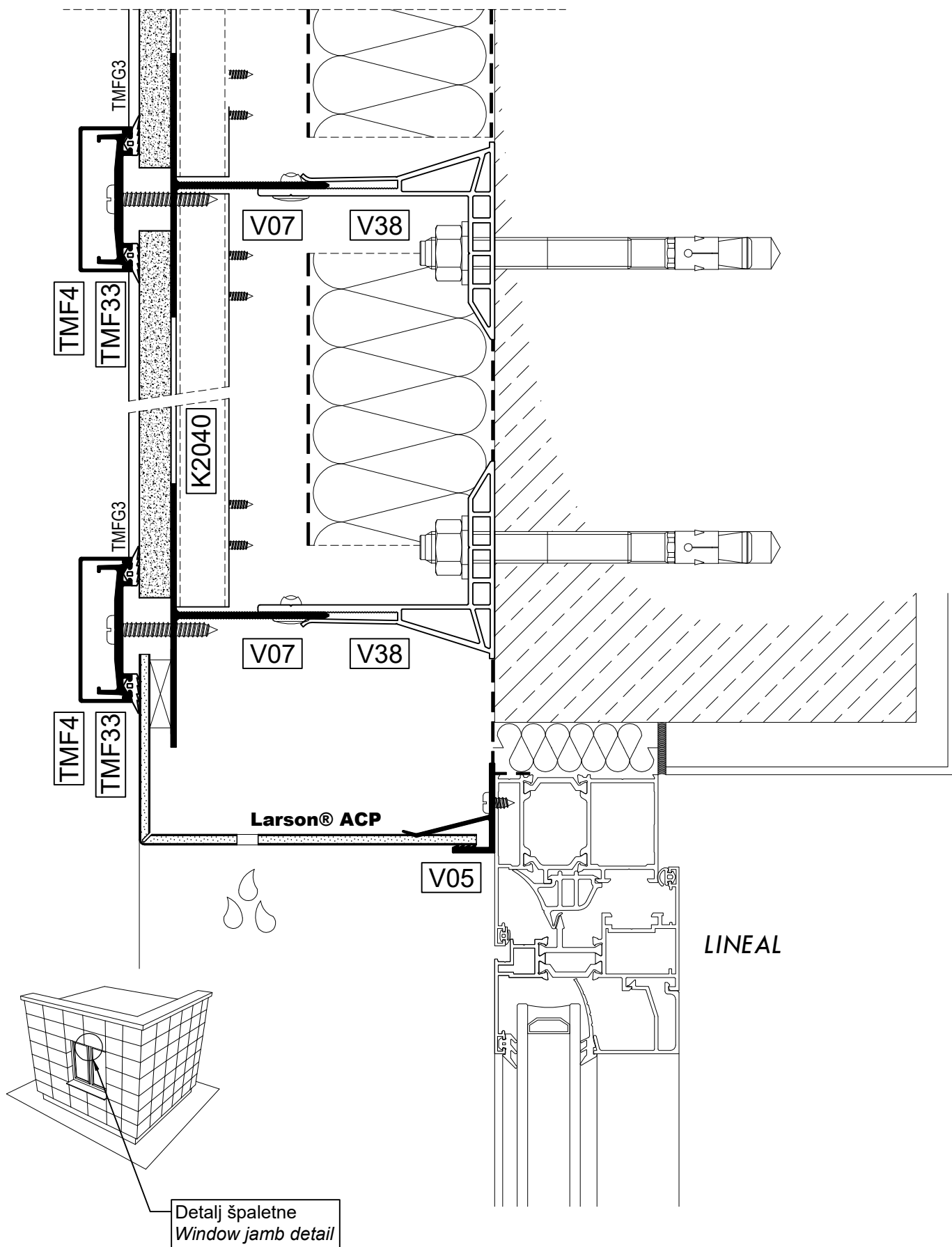
d - *panel thickness, depending on cladding material selection and project needs*



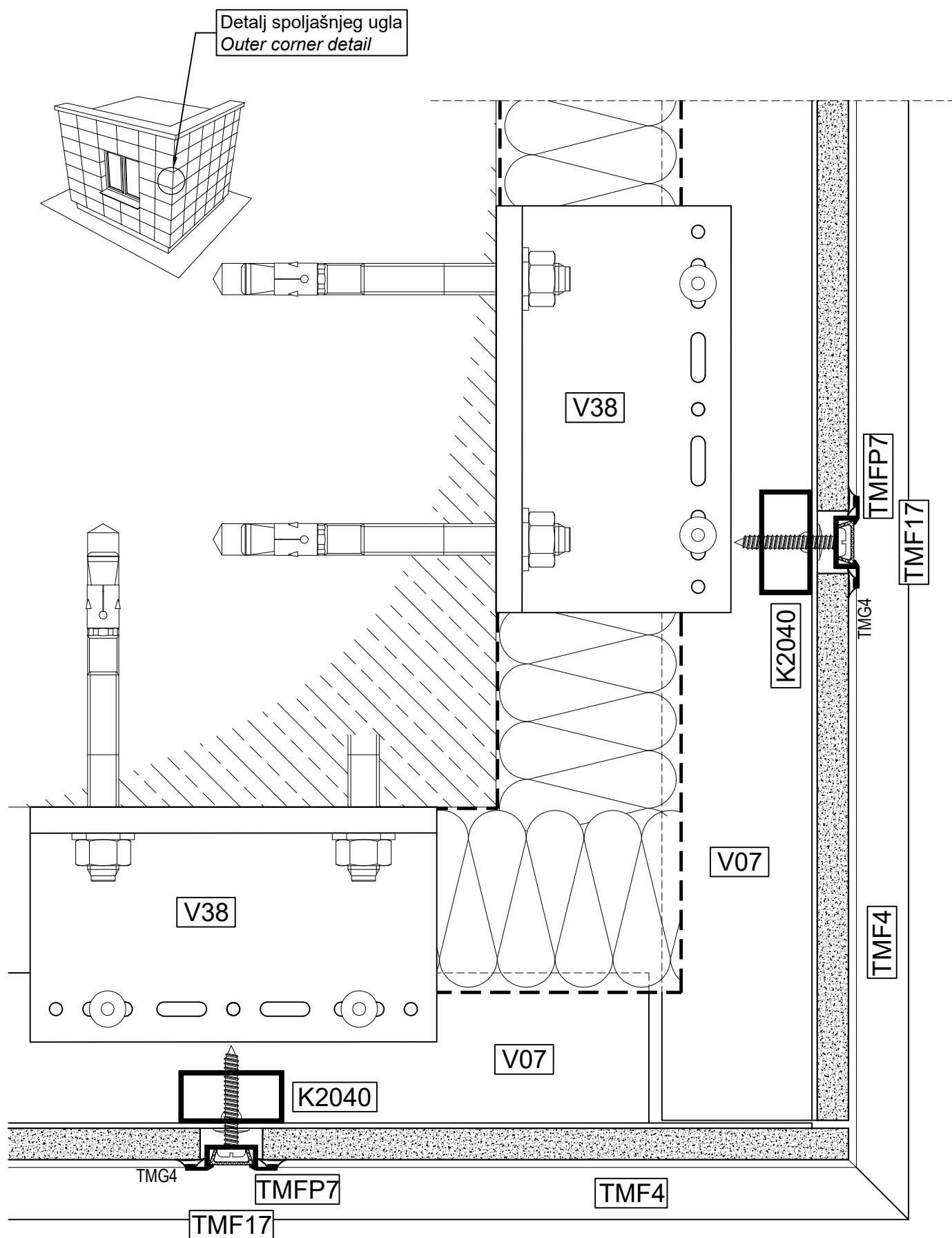
Vertikalni presek
Vertical section



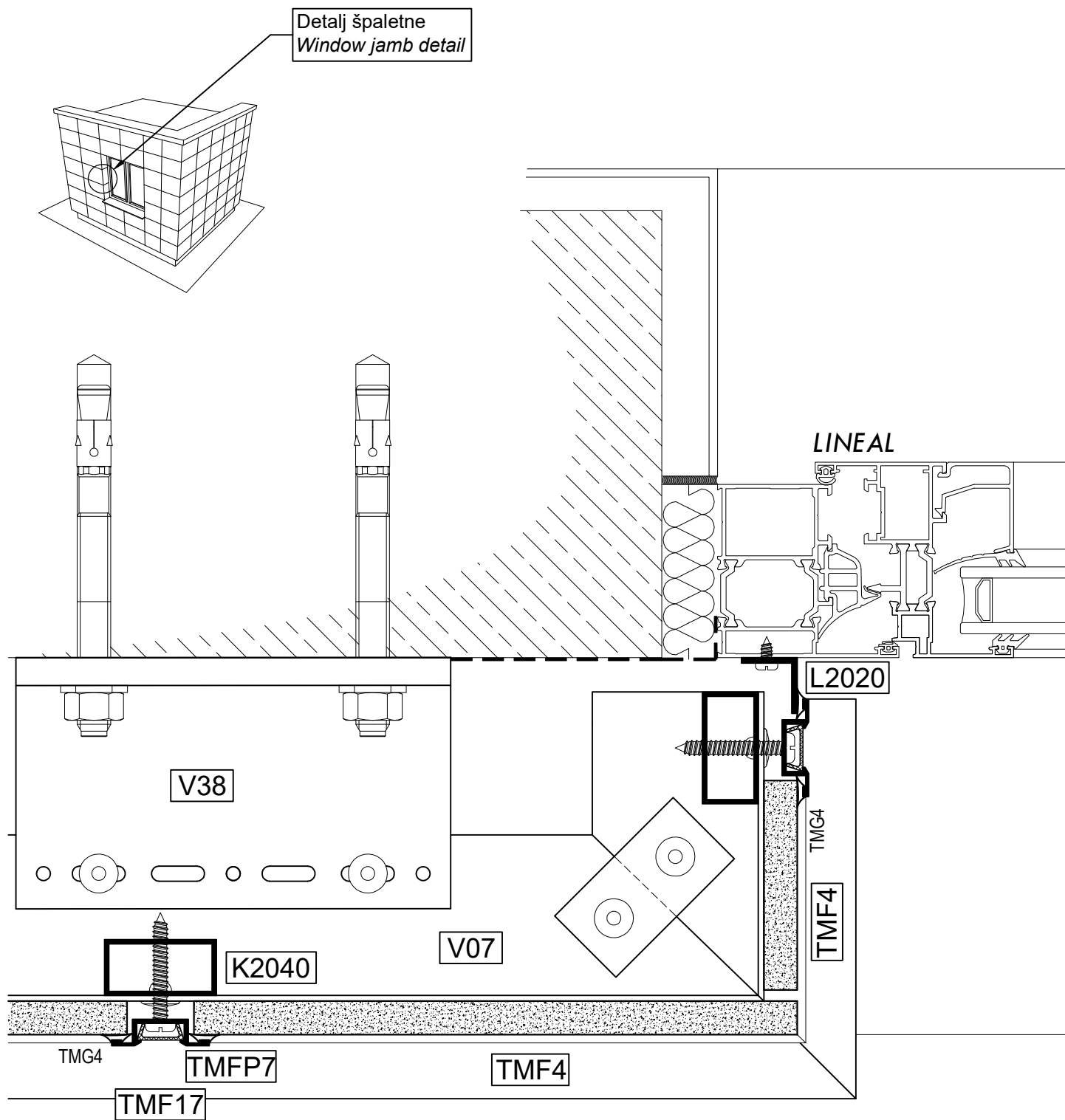
Vertikalni presek
Vertical section



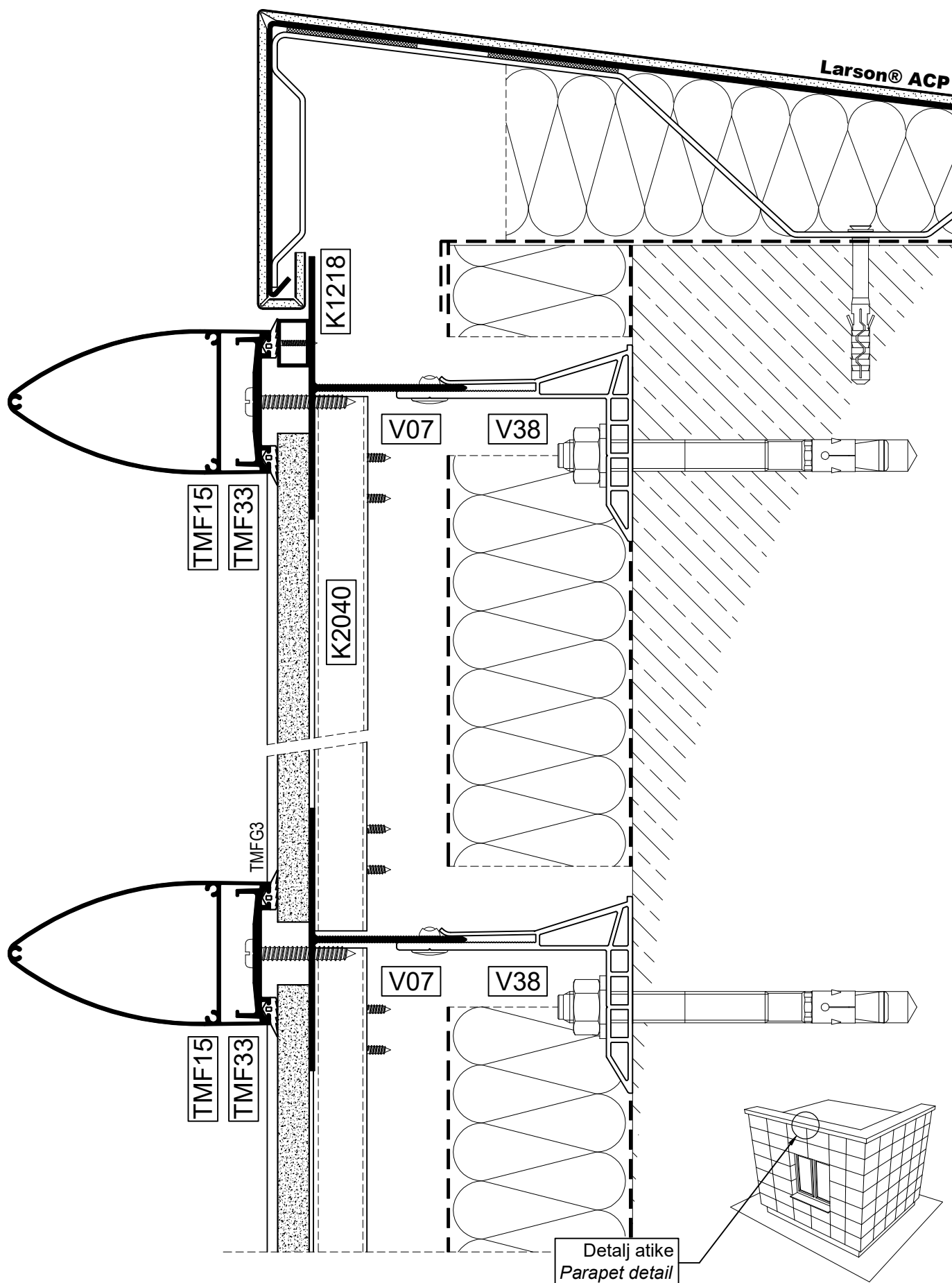
Horizontalni presek
Horizontal section



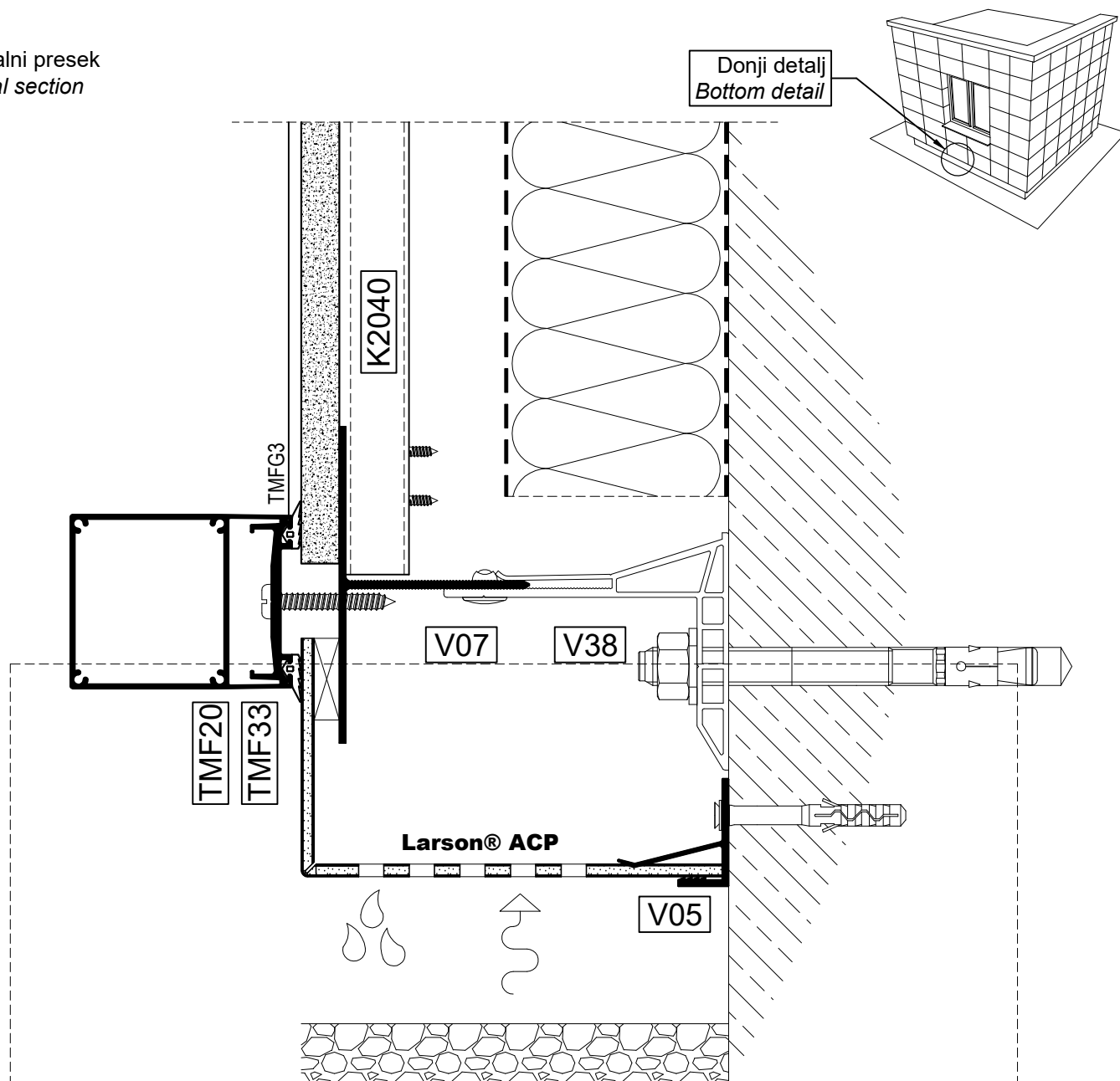
Horizontalni presek
Horizontal section



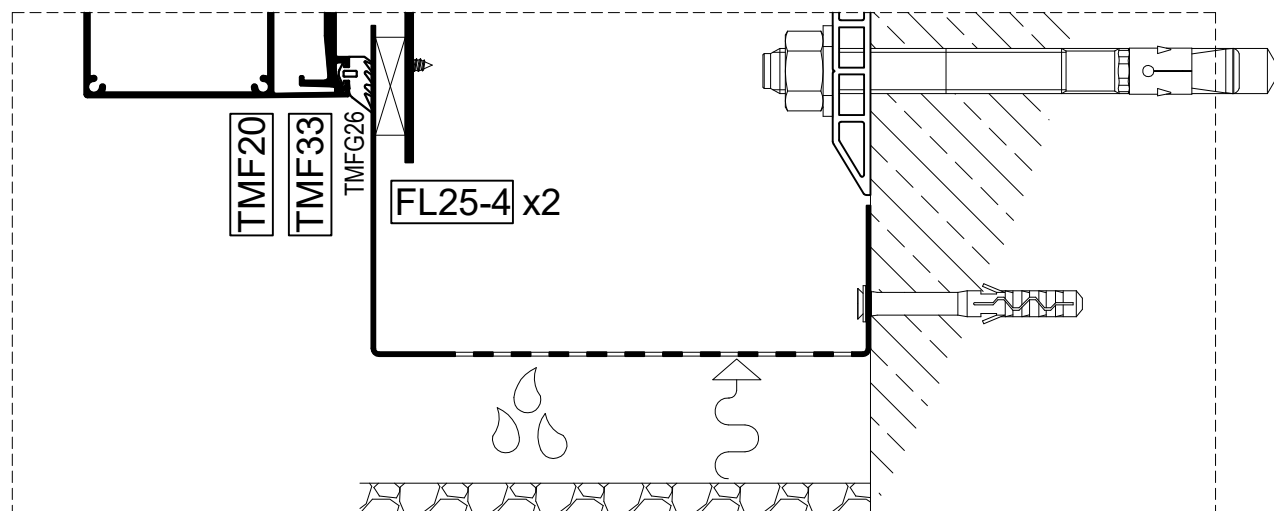
Vertikalni presek
Vertical section



Vertikalni presek
Vertical section



Opcija drenaže: perforirani aluminijumski kompozitni panel
Drainage option: perforated aluminium composite panel



Opcija drenaže: perforirani aluminijumski lim
Drainage option: perforated aluminium sheet

Sistem
System

V  **NT** [box]



TEHNIČKI OPIS SISTEMA

Sistem aluminijumske potkonstrukcije namenjen prihvatanju posebno formiranih kaseti fiksnih skrivenim nosačima i prihvatajućim elementima veze u obliku malih kutijastih aluminijumskih cevi (kutija-box) po kojima je ovaj sistem i dobio naziv, posebno pogodan za vertikalne kasete. Postupak montaže je suv, a kompletnu pripremu panela moguće je odraditi u radioničkim uslovima. Tako pripremljene kasete se na gradilištu samo slažu prema planiranim pozicijama na fasadi.

Postupak montaže startuje sa razmeravanjem i obeležavanjem pozicija nosećih profila.

- a) Ekstrudirani noseći profili postavljaju se na objekat u projektovanom rasteru. Maksimalna preporučena dužina profila, kao i rastojanje između susednih vertikala, određuju se statičkim proračunom. Dužina profila ne može biti veća od 3500 mm, dok maksimalno rastojanje između susednih nosećih profila ne sme biti više od 1200 mm.
- b) Sistem Box omogućava udaljenje fasadne obloge od zida u rasponu od 64mm do 410mm*
- c) Fiksiranje vertikalnih nosećih profila (kat.br. V01, V134, V88) se vrši kotvama koje omogućavaju fino podešavanje nosećih aluminijumskih profila u svim pravcima, kako bi se dobila potpuno ravna površina fasade. Njihov spoj može biti fiksni ili dilatirajući zahvaljujući integrisanom rešenju koje omogućuje obe opcije, a spajanje se izvodi pomoću pop-zakivaka ili samourezujućim nerđajućim vijcima sa osiguranjem spoja. U slučaju zahteva za prekidom termo mosta, ispod kotvi se montiraju specijalno dizajnirane plastične podloške.
- d) Klizni nosači (kat. br. V51) se postavljaju u namenski žleb omega profila. Kada su montirani predstavljaju glavne spojne tačke između potkonstrukcije i prethodno formiranih kaseti.
- e) Fasadni paneli se obrađuju na CNC obradnom centru u radioničkim uslovima (sečenjem na meru i odgovarajućim žljebovanjem), a zatim tako obrađeni paneli savijanjem formiraju kasete. Na kraju se u uglove gotovih kaseti pop-nitnama pričvršćuju kutijasti profili (kat. br. K2020).
- f) Tako pripremljene kasete se montiraju na fasadu, pri čemu se svaka kaseti "zaključa" na mesto pomoću gornjeg i donjeg nosača. U ovom sistemu predviđena je fugna od 14mm, kao i montaža fasade od dole ka gore.

* ove dimenzije podržane su standardnim VENT sistemskim kotvama, za veća udaljenja pregledajte tehnički katalog (sekcije 5.19-5.24) i TMTP katalog



TECHNICAL SYSTEM DESCRIPTION

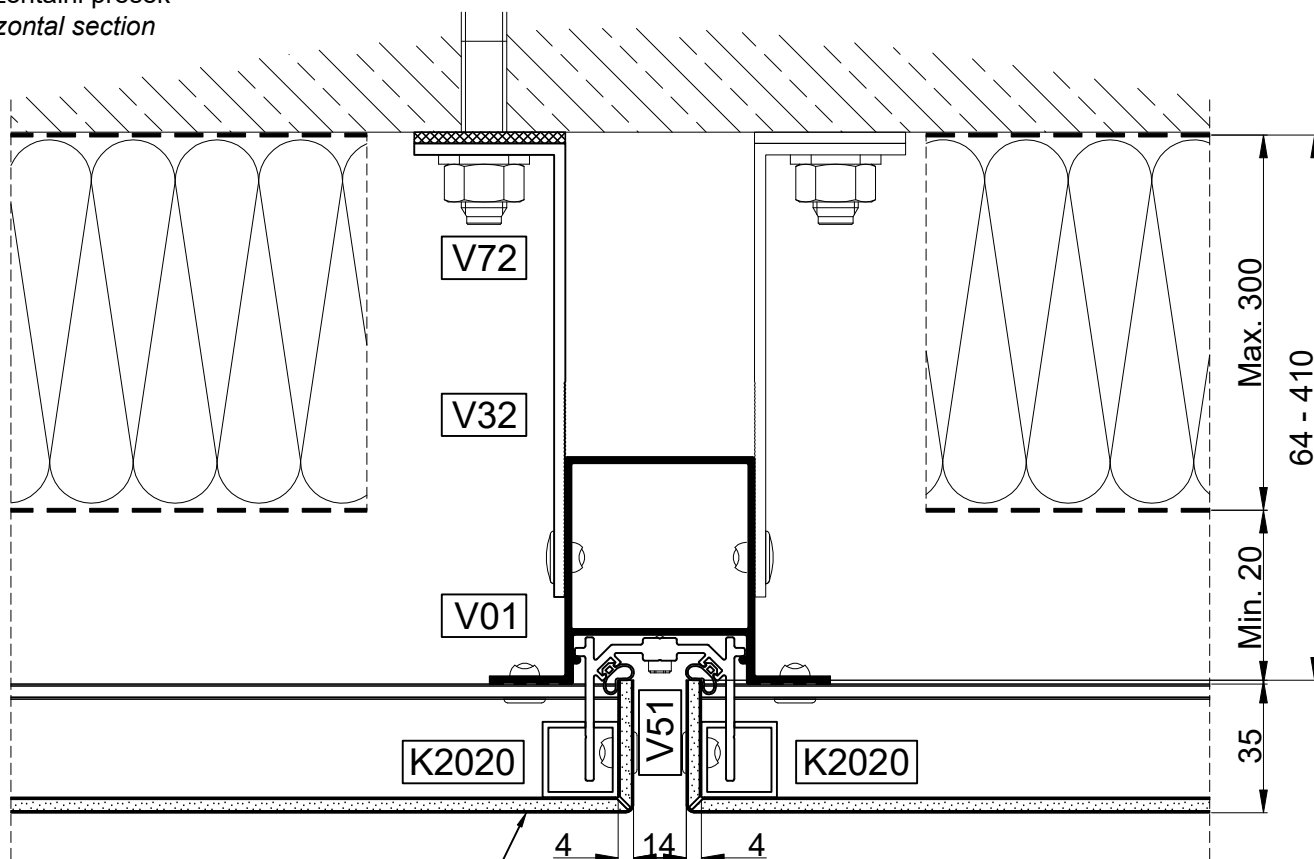
Aluminum substructure system designed for the installation of specially formed cassettes fixed using concealed brackets and connecting elements in the form of small box-shaped aluminum tubes (box profiles), after which the system is named. The system is particularly suitable for vertical cassettes. The installation process is dry, and complete panel preparation can be carried out under workshop conditions. The prepared cassettes are installed on site by positioning them according to the predefined façade layout.

The installation process begins with surveying and marking the positions of the load-bearing profiles.

- a) Extruded load-bearing profiles are installed on the building according to the designed grid. The maximum recommended profile length and the spacing between adjacent vertical profiles are determined by static calculations. The profile length must not exceed 3500 mm, while the maximum spacing between adjacent load-bearing profiles must not exceed 1200 mm.
- b) The Box system allows the façade cladding to be offset from the wall within a range of 64 mm to 410 mm*.
- c) Fixing of the vertical load-bearing profiles (cat. no. V01, V134, V88) is carried out using anchors that allow fine adjustment of the aluminum profiles in all directions, ensuring a perfectly planar façade surface. The connection can be either fixed or sliding, thanks to an integrated solution that allows both options. Connections are made using pop rivets or self-drilling stainless steel screws with secured joints. Where thermal bridge interruption is required, specially designed plastic spacers are installed beneath the anchors.
- d) Sliding brackets (cat. no. V51) are installed into the dedicated groove of the omega profile. Once installed, they serve as the main connection points between the substructure and the pre-formed cassettes.
- e) Façade panels are processed on a CNC machining center under workshop conditions (cut to size and grooved as required). The processed panels are then bent to form cassettes. Finally, box profiles (cat. no. K2020) are fixed into the corners of the finished cassettes using pop rivets.
- f) The prepared cassettes are installed on the façade, with each cassette being “locked” into position using an upper and a lower bracket. The system provides for a 14 mm panel gap, and façade installation is carried out from bottom to top.

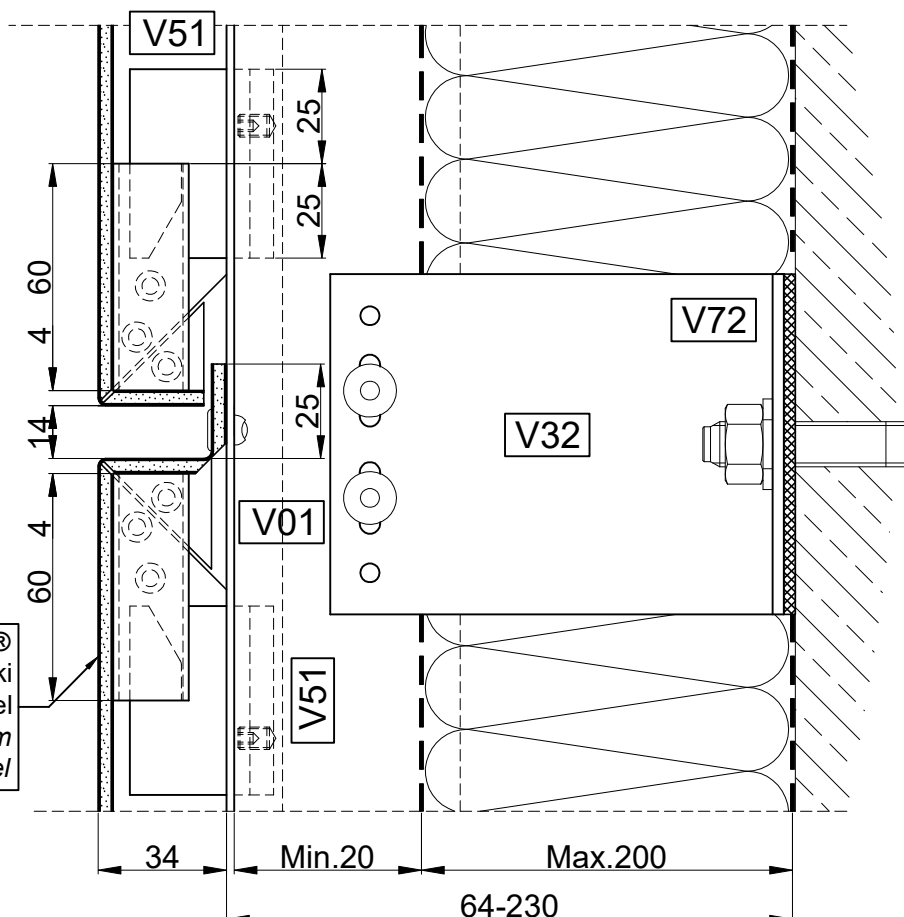
* These dimensions are supported by standard VENT system anchors. For larger offsets, please refer to the technical catalogue (sections 5.19-5.24) and the TMT catalogue.

Horizontalni presek
Horizontal section



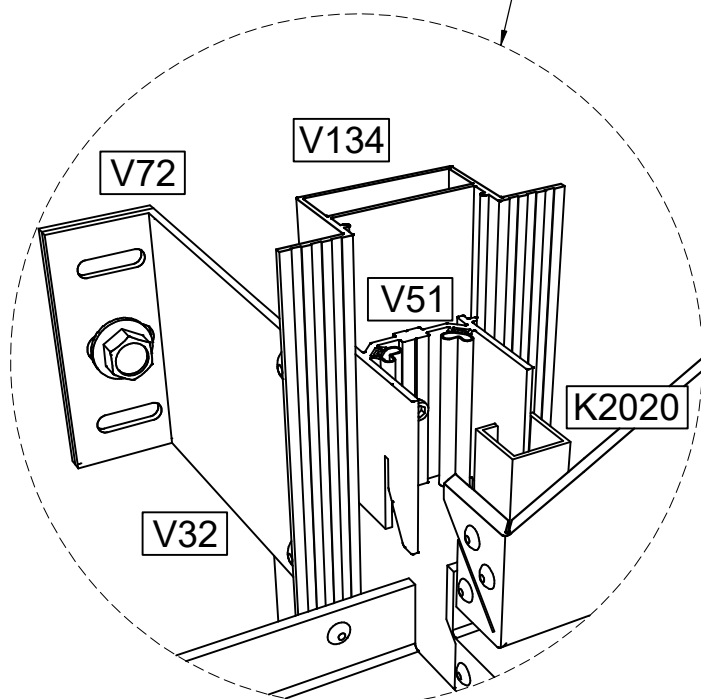
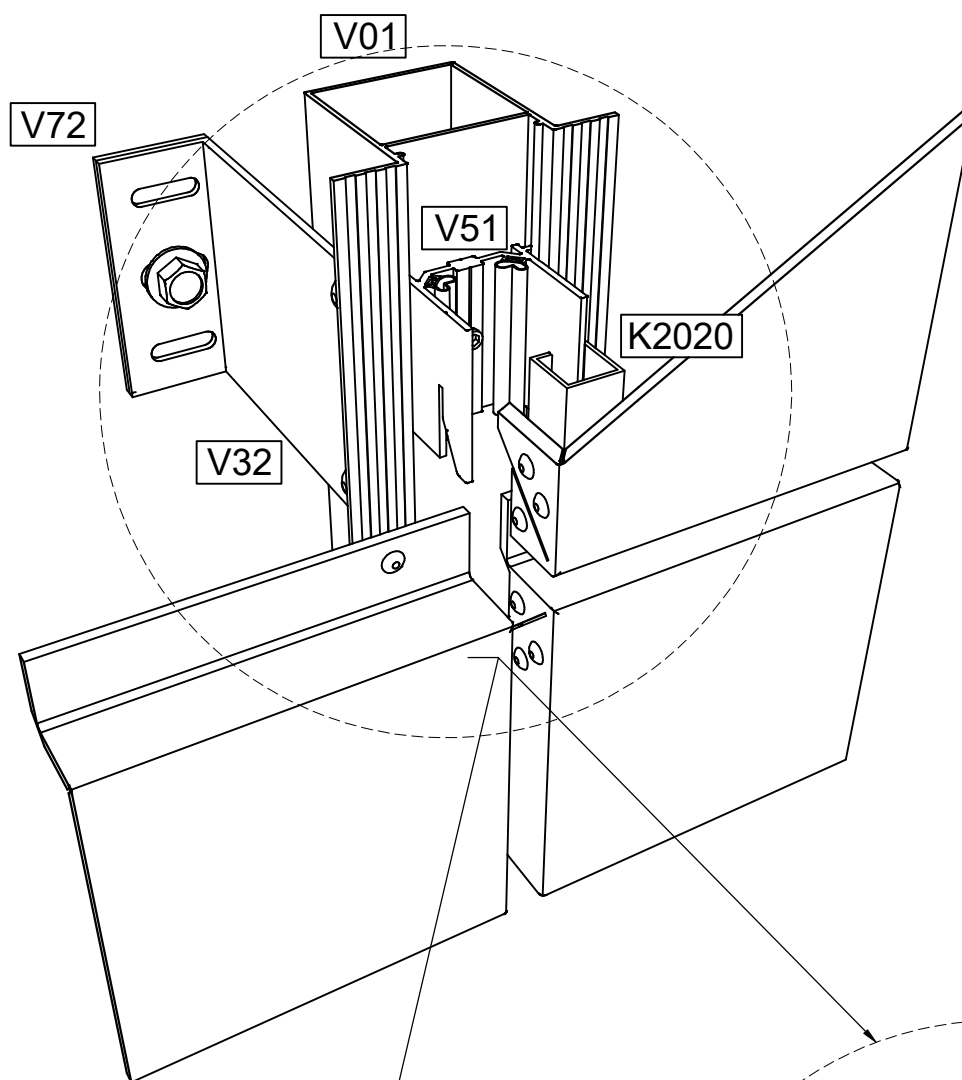
Larson® aluminijumski kompozitni panel
Larson® aluminium composite panel

Vertikalni presek
Vertical section

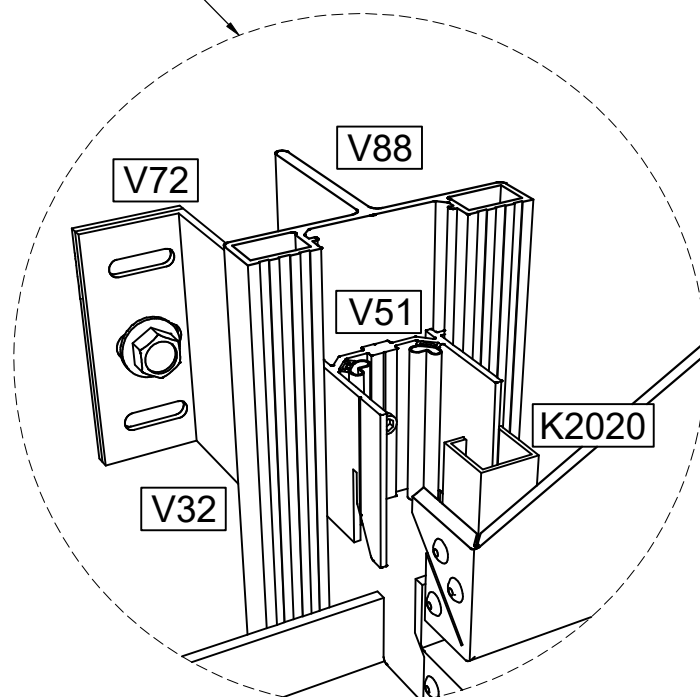


Larson® aluminijumski kompozitni panel
Larson® aluminium composite panel

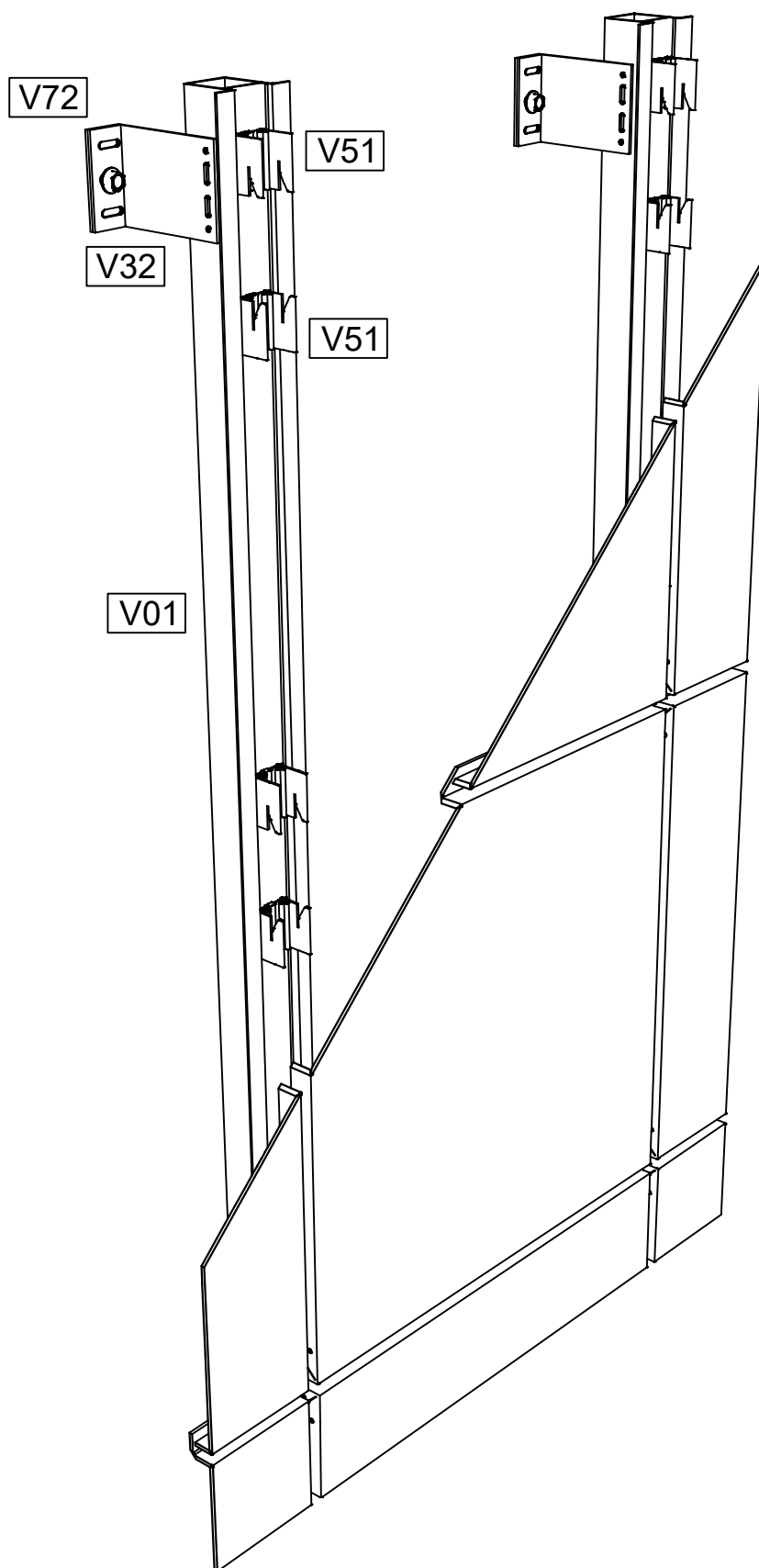
Opcija 1 - V01 kao primarna vertikalna noseća konstrukcija
Option 1 - V01 as primary vertical load bearing structure

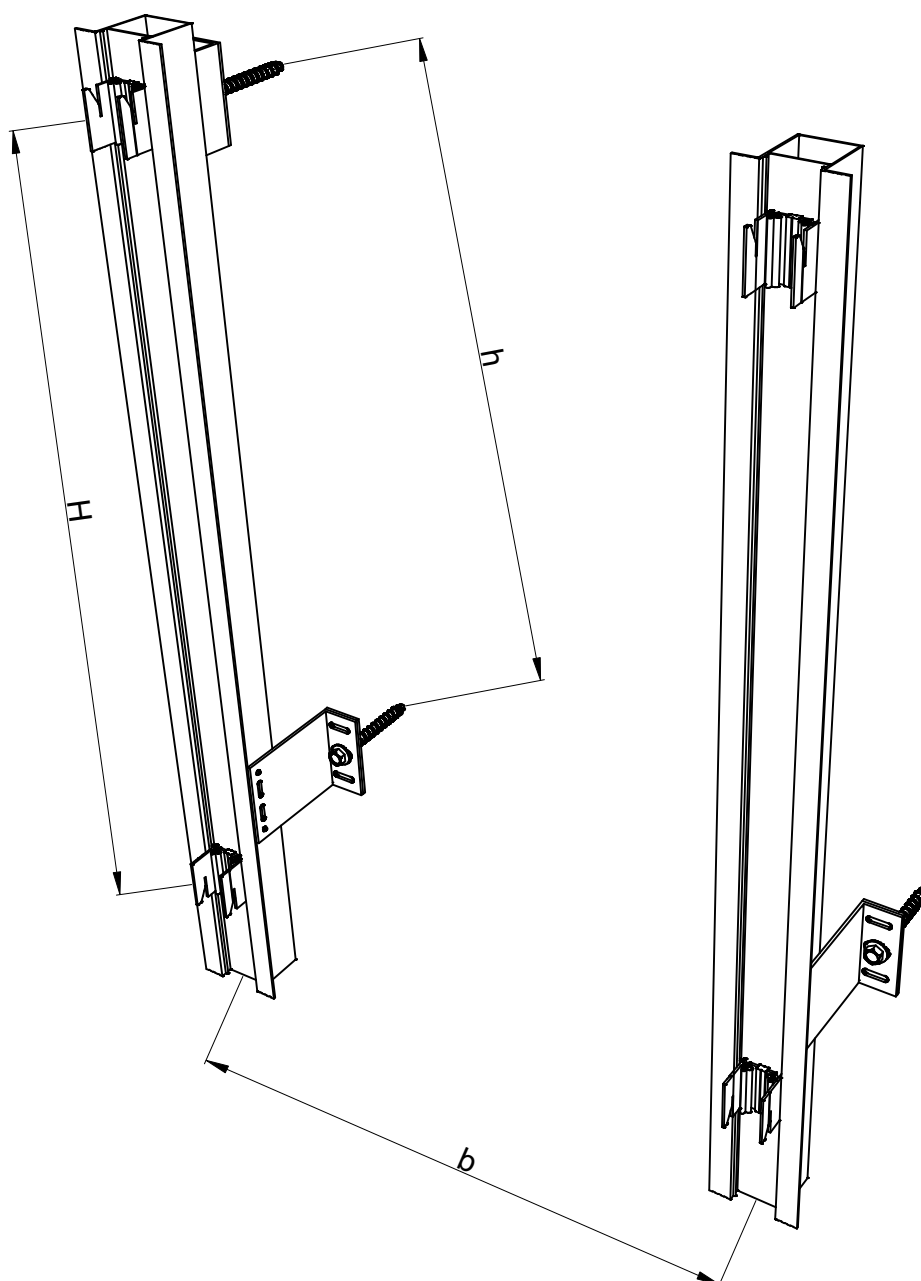


Opcija 2 - V134 kao primarna vertikalna noseća konstrukcija
Option 2 - V134 as primary vertical load bearing structure



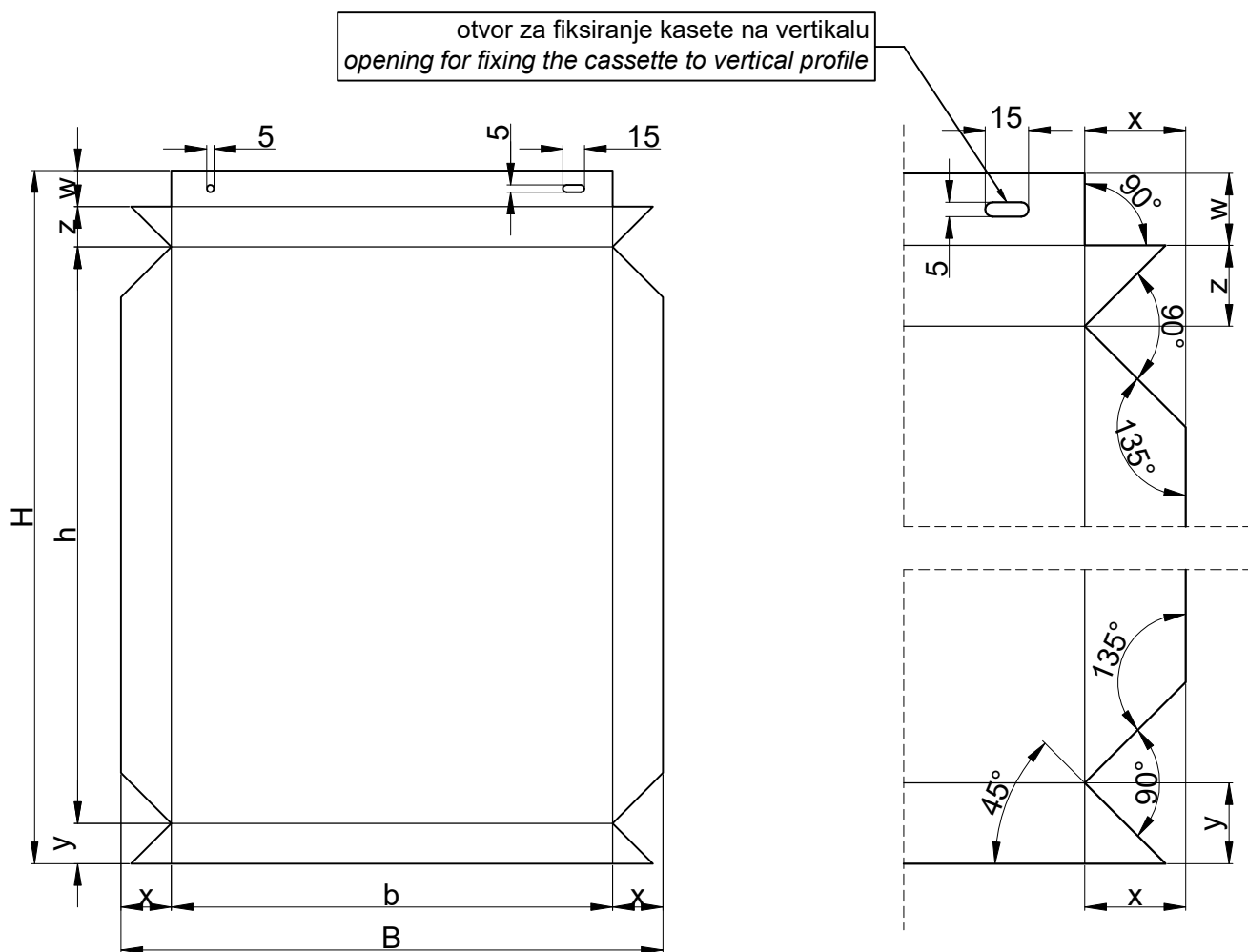
Opcija 3 - V88 kao primarna vertikalna noseća konstrukcija
Option 3 - V88 as primary vertical load bearing structure





b, h - prema statičkom proračunu, ali ne više od 1200mm
b, h - according to structural analysis, but no more than 1200mm

H - prema statičkom proračunu i u zavisnosti od primenjenog materijala obloge, ali ne više od 600mm
H - according to structural analysis and depending on applied cladding material, but no more than 600mm



b	x	h	y	z	w
	35		28	28	25

(mm)

B	H
$b + 2x$	$h + y + z + w$

(mm)

b - projektovana vidna širina kasete 100-1200
b - designed visible cassette width 100-1200

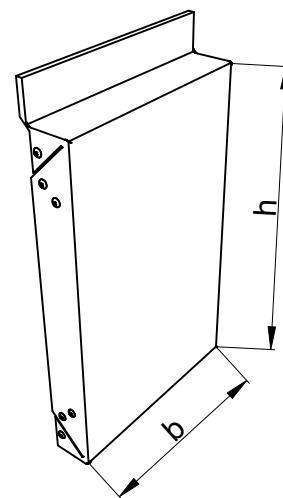
h - projektovana vidna visina kasete 200-1600
h - designed visible cassette height 200-1600

B - ukupna širina razvijene mreže kasete
B - developed cassette scheme total width

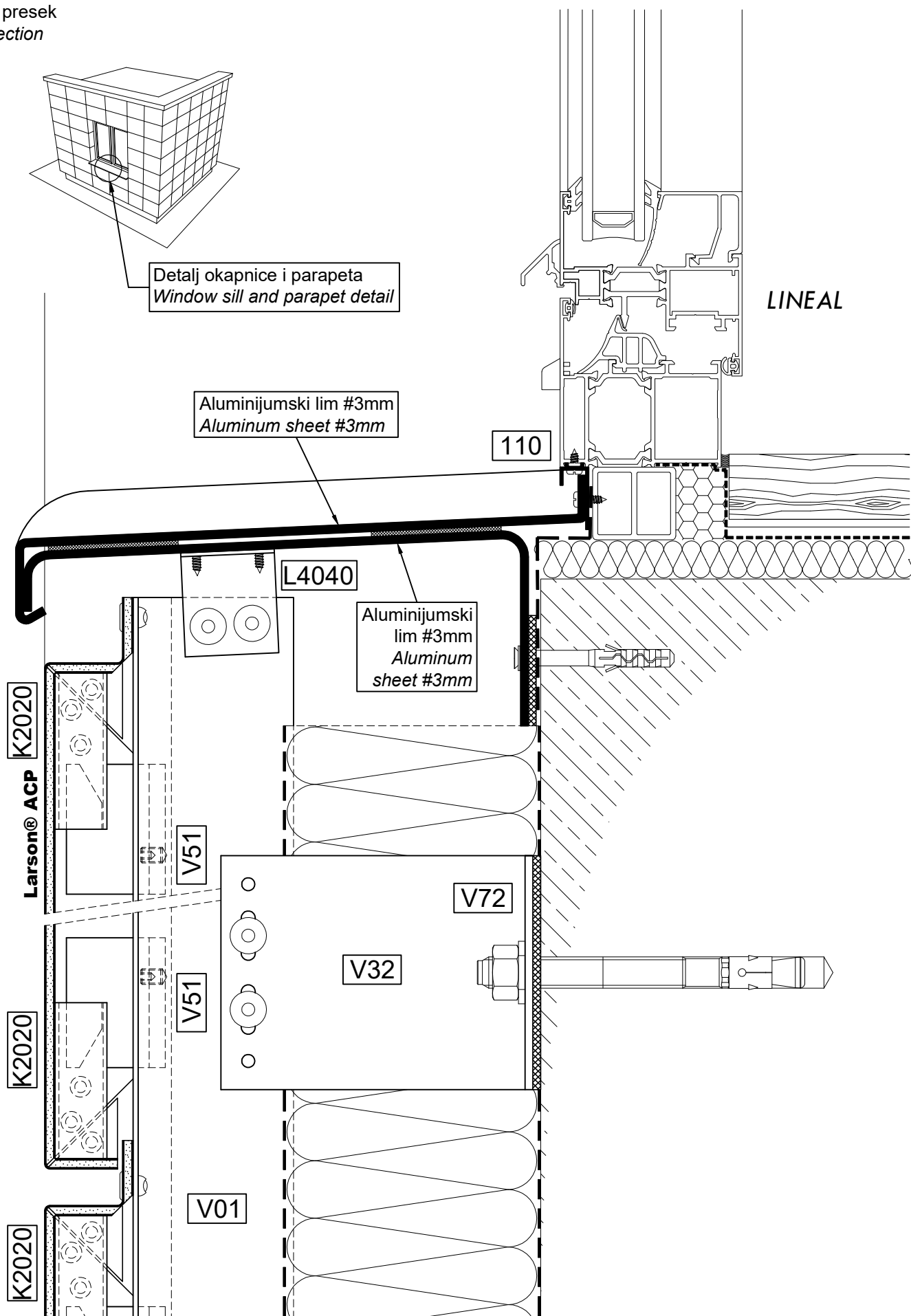
H - visina razvijene mreže kasete
H - developed cassette scheme total height

x, y, z, w - prikazane dimenzije su minimalne preporučene od strane projektanta sistema, ali se mogu povećati u zavisnosti od potreba konkretnog projekta (način fiksiranja i vrsta primenjenih spojnih sredstava, projektovana dubina kasete itd.)

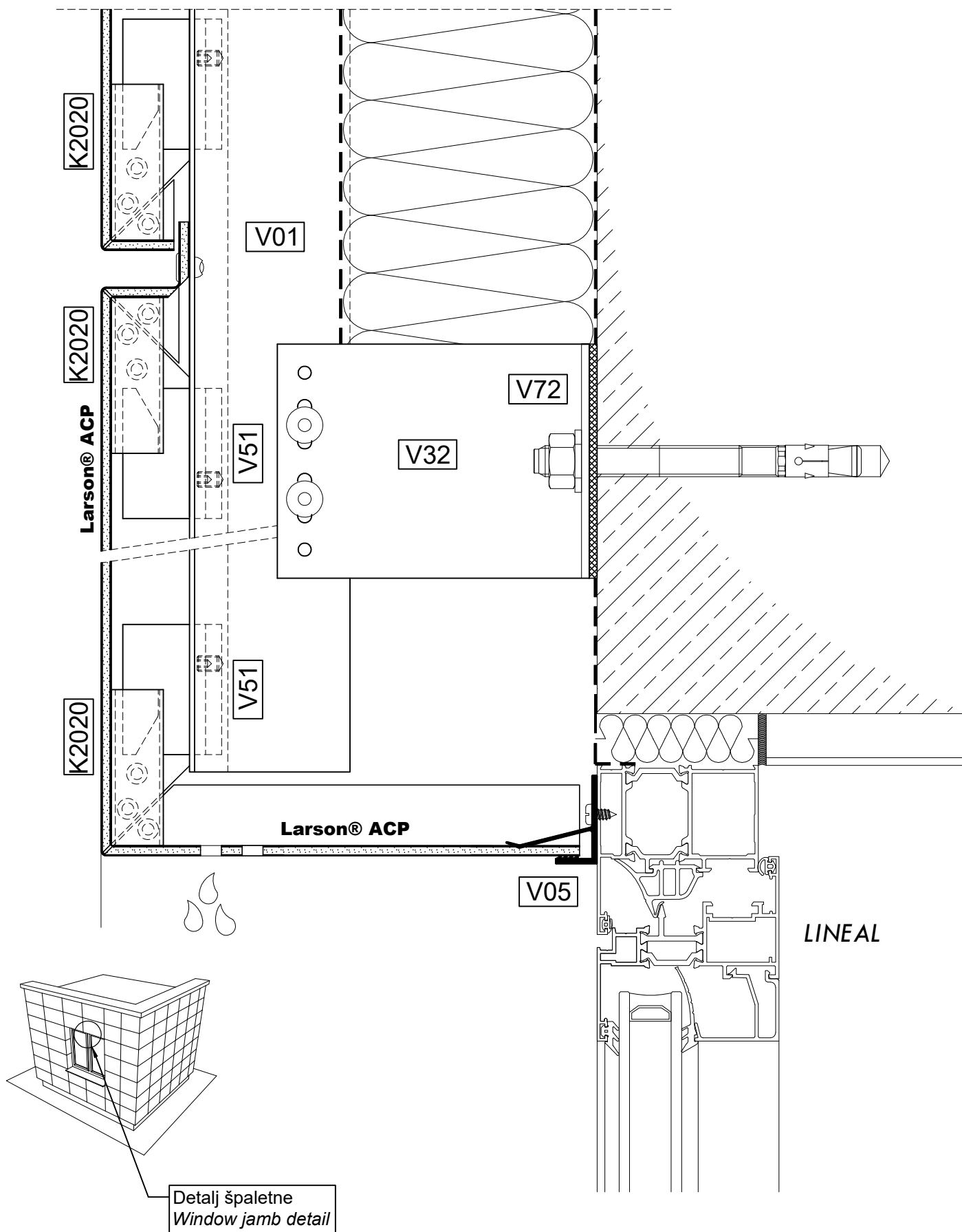
x, y, z, w - listed values are minimal as per system designer's recommendation, but could be increased depending on needs of specific project (fixing method and type of applied fasteners, designed cassette depth etc.)



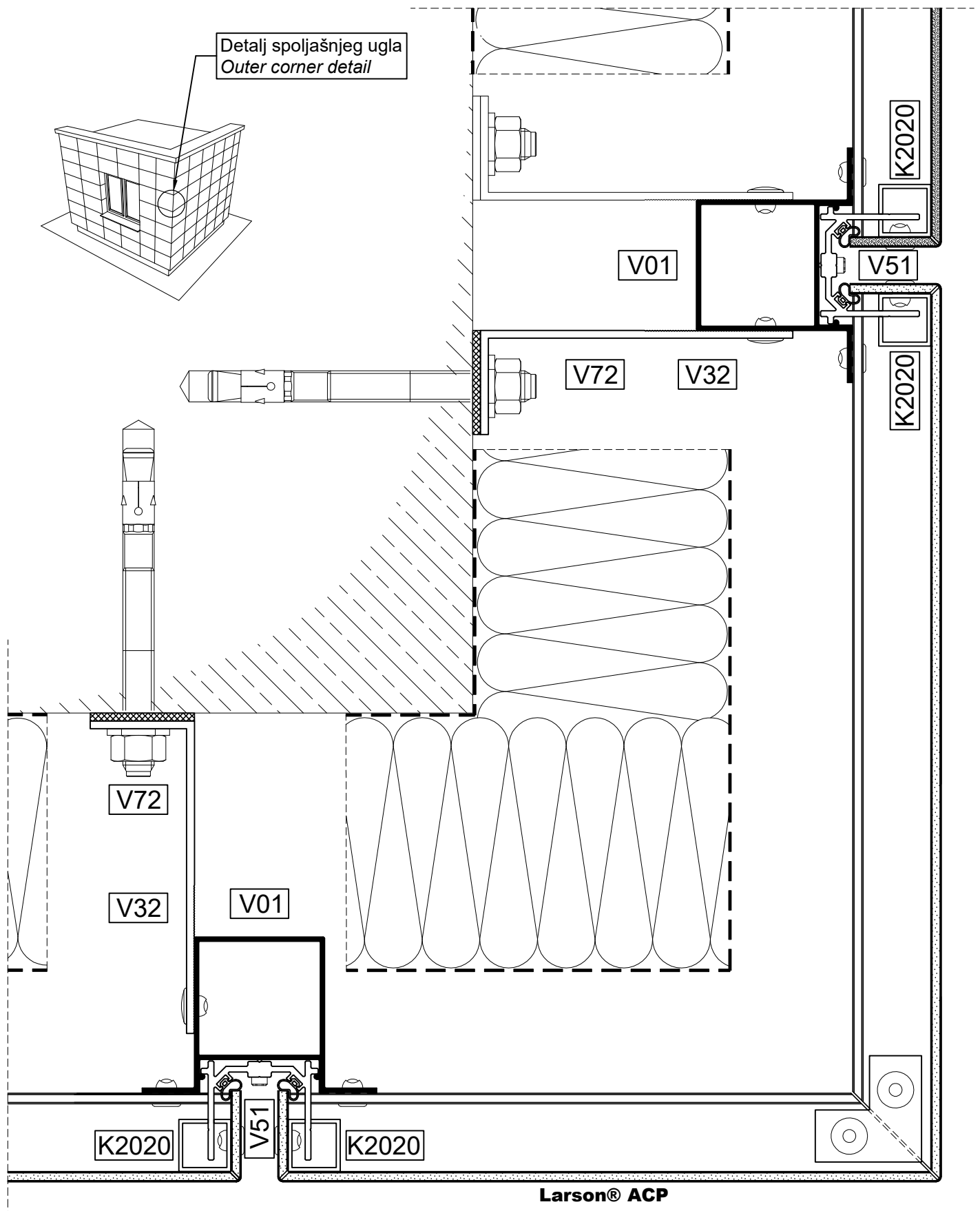
Vertikalni presek
Vertical section



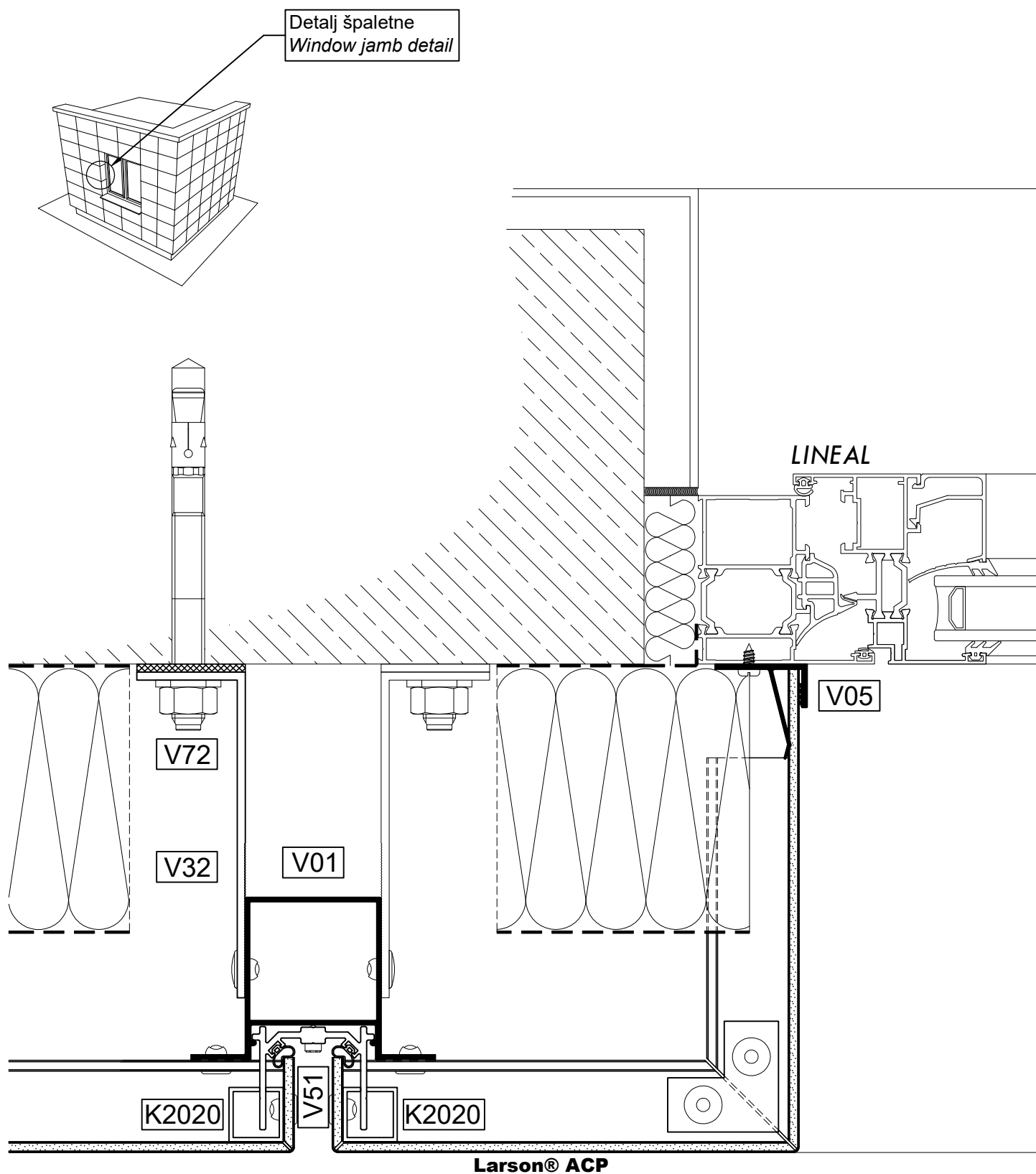
Vertikalni presek
Vertical section



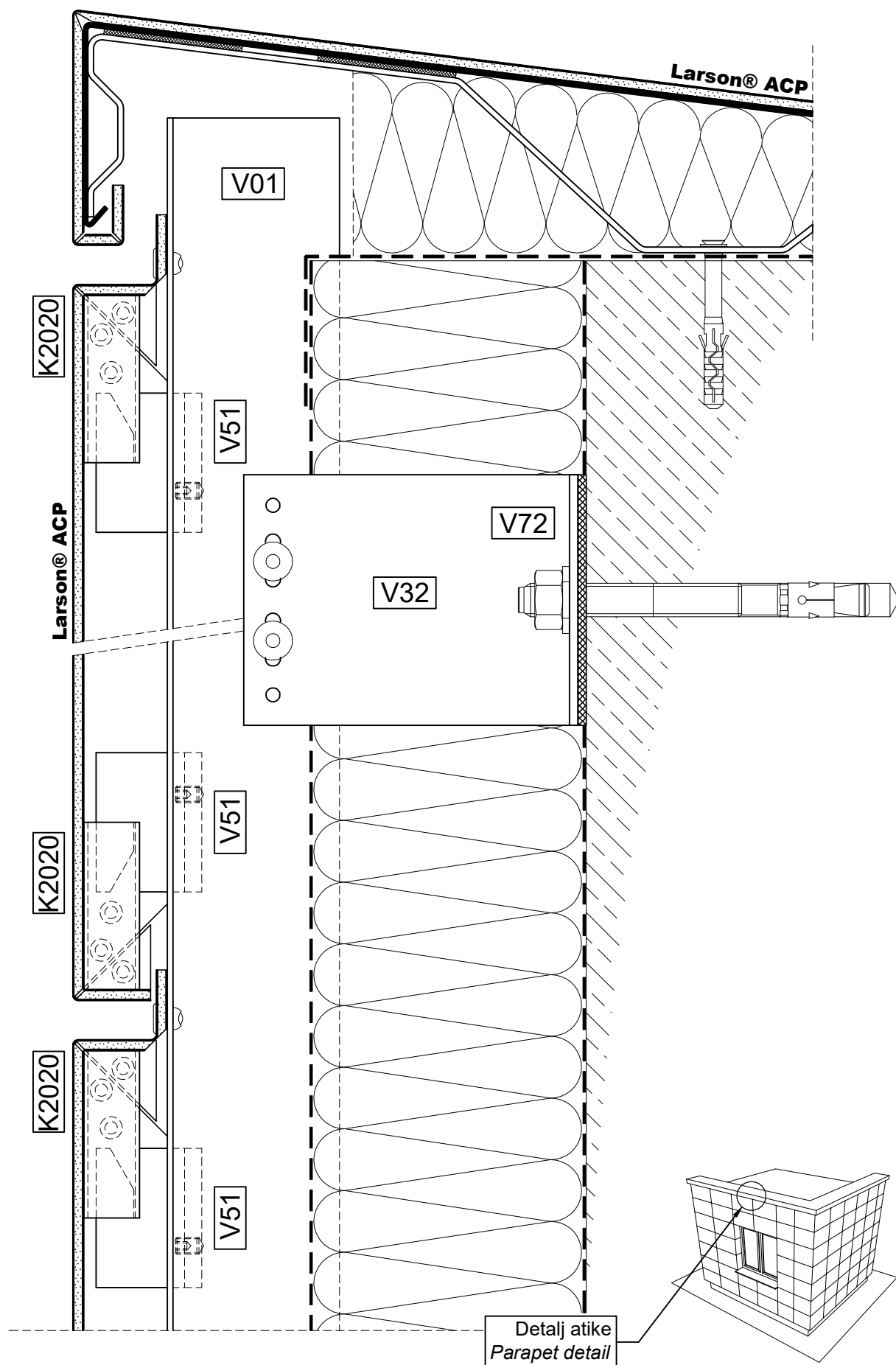
Horizontalni presek
Horizontal section



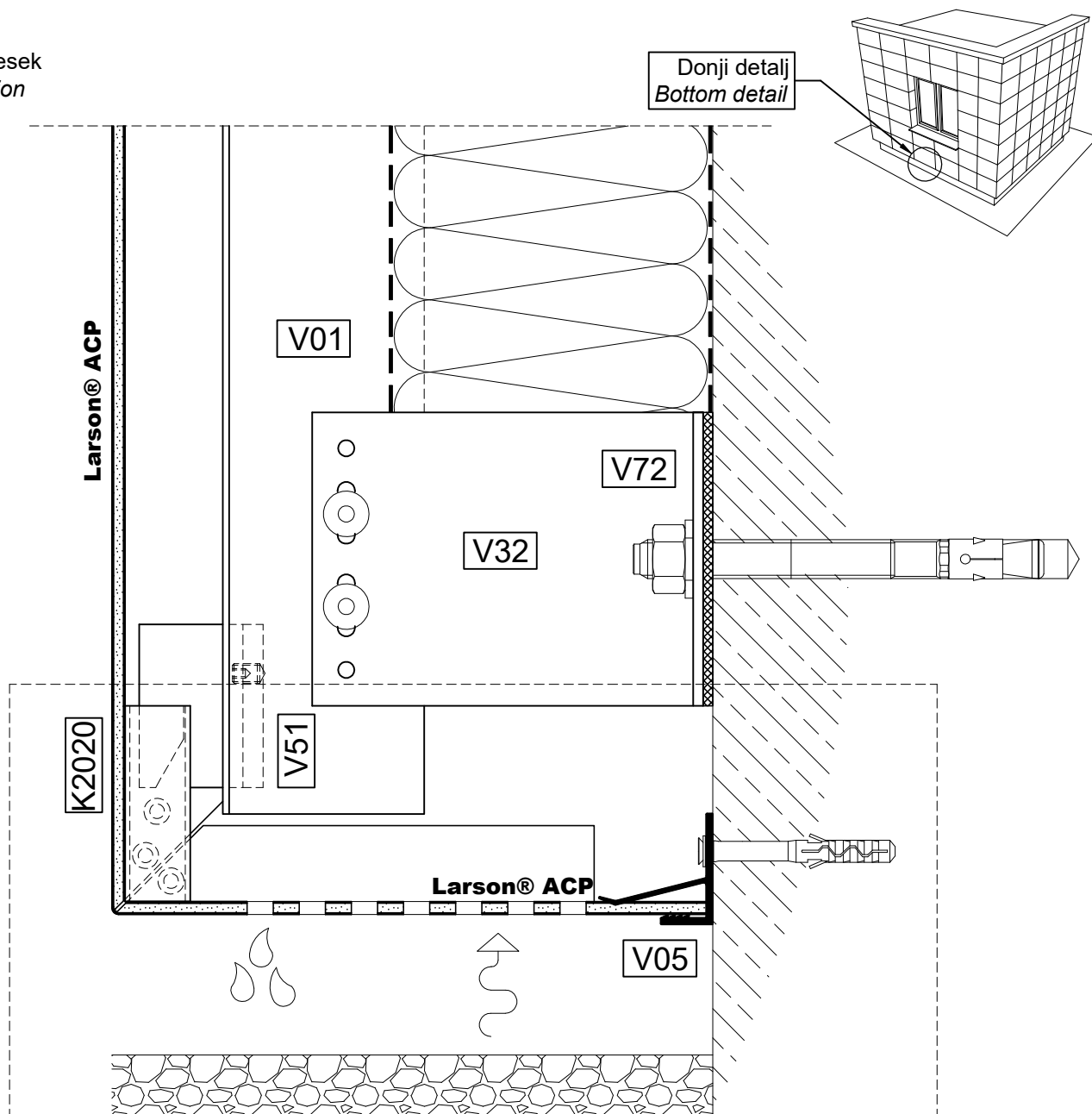
Horizontalni presek
Horizontal section



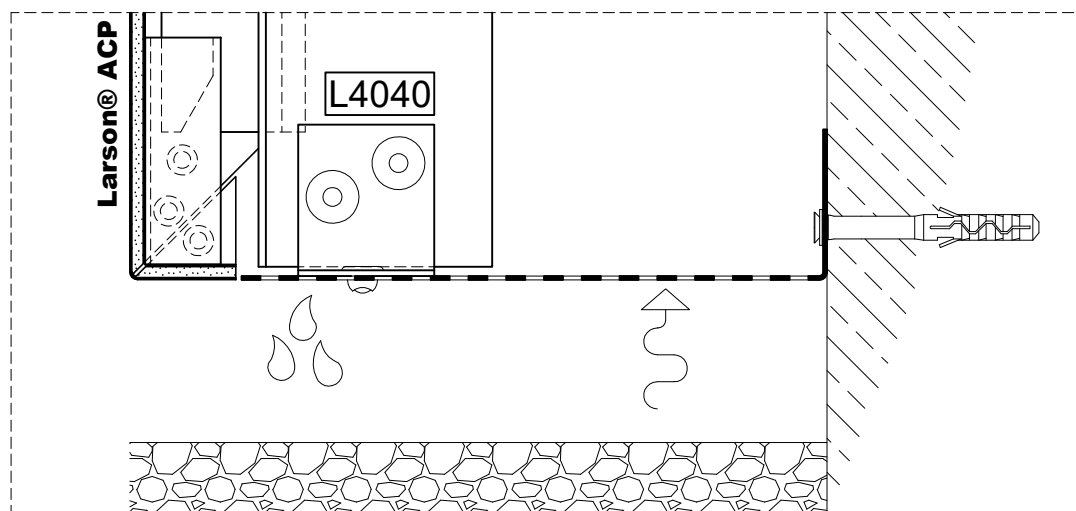
Vertikalni presek
Vertical section



Vertikalni presek
Vertical section

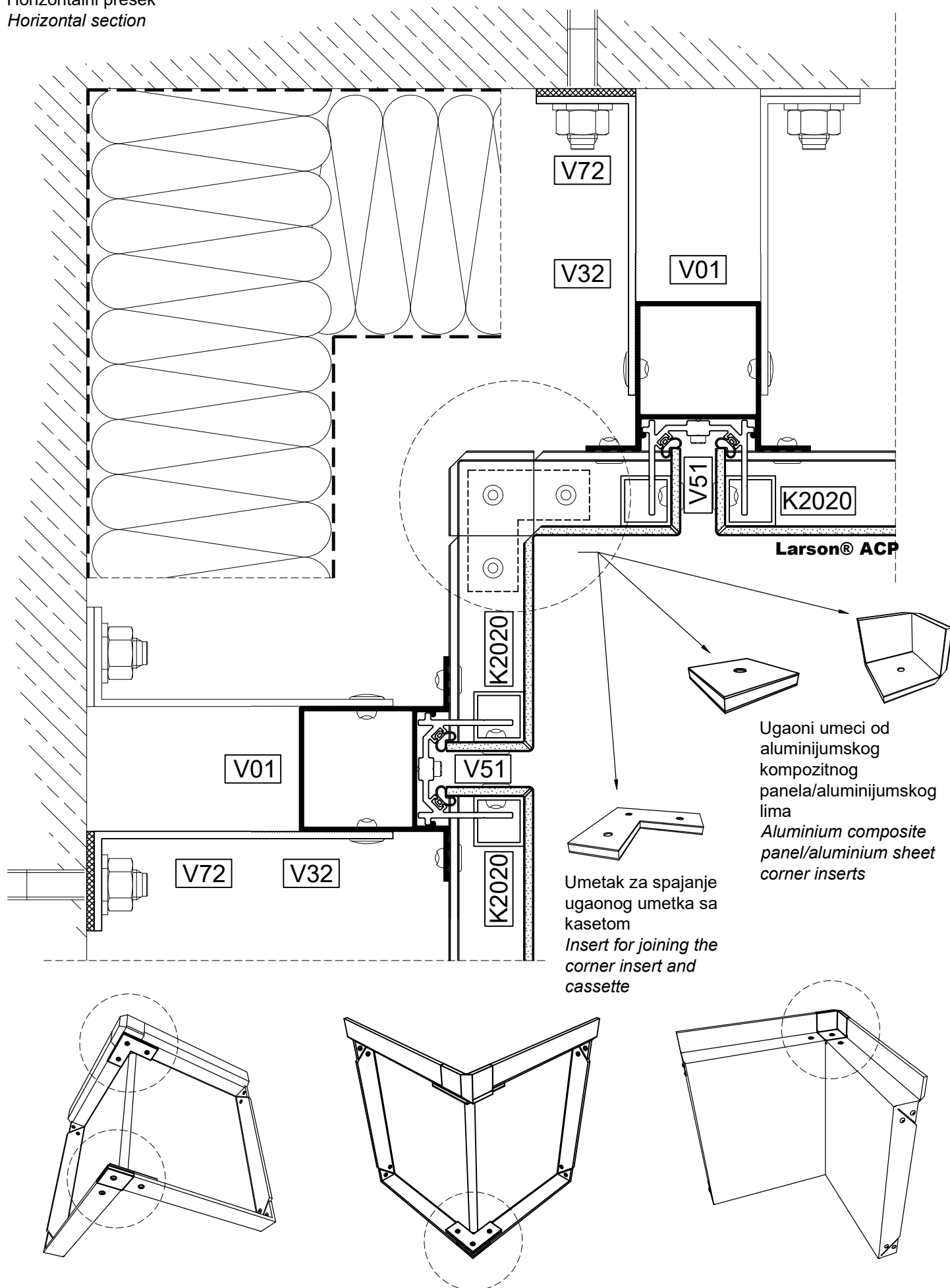


Opcija drenaže: perforirani aluminijumski kompozitni panel
Drainage option: perforated aluminium composite panel

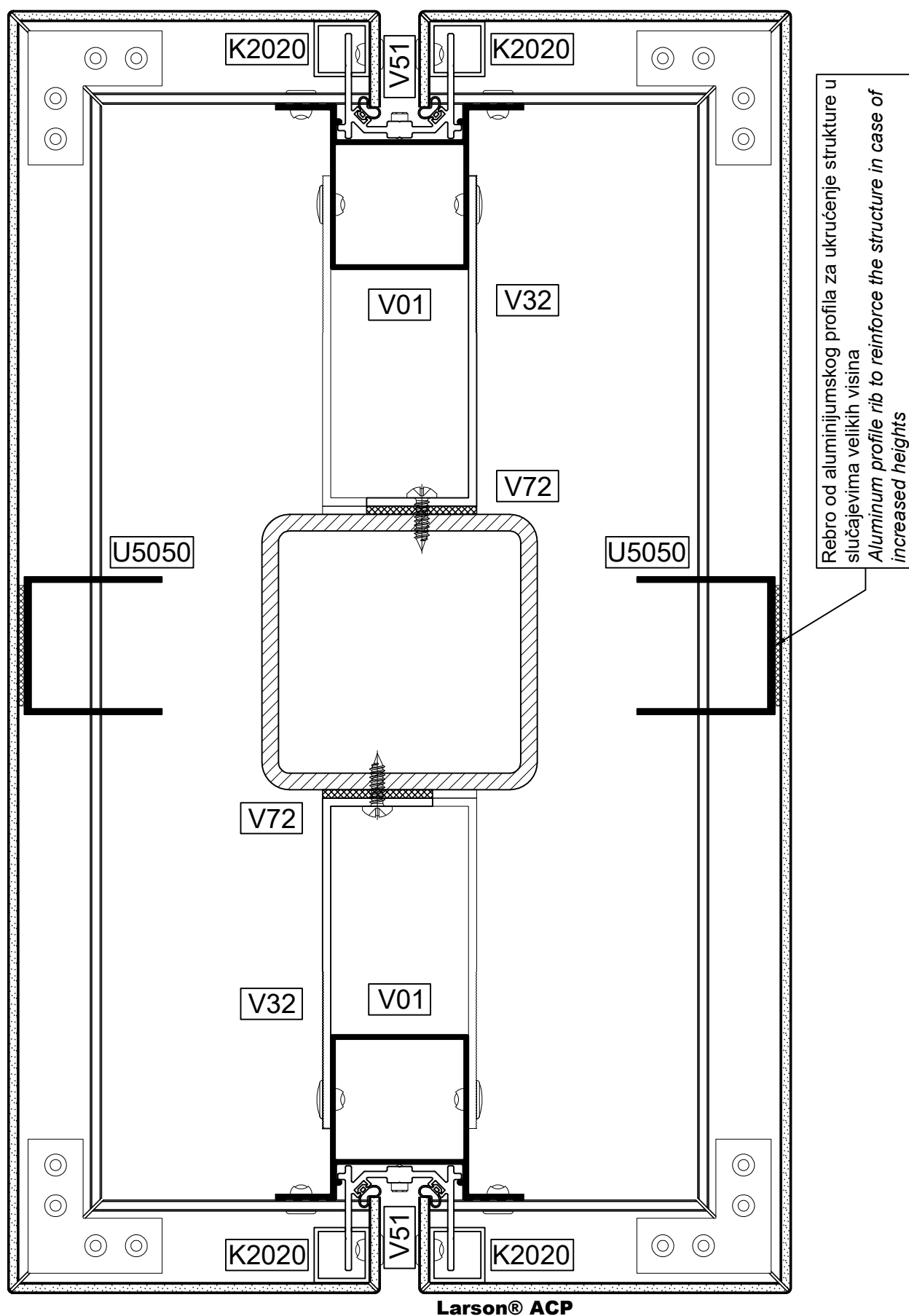


Opcija drenaže: perforirani aluminijumski lim
Drainage option: perforated aluminium sheet

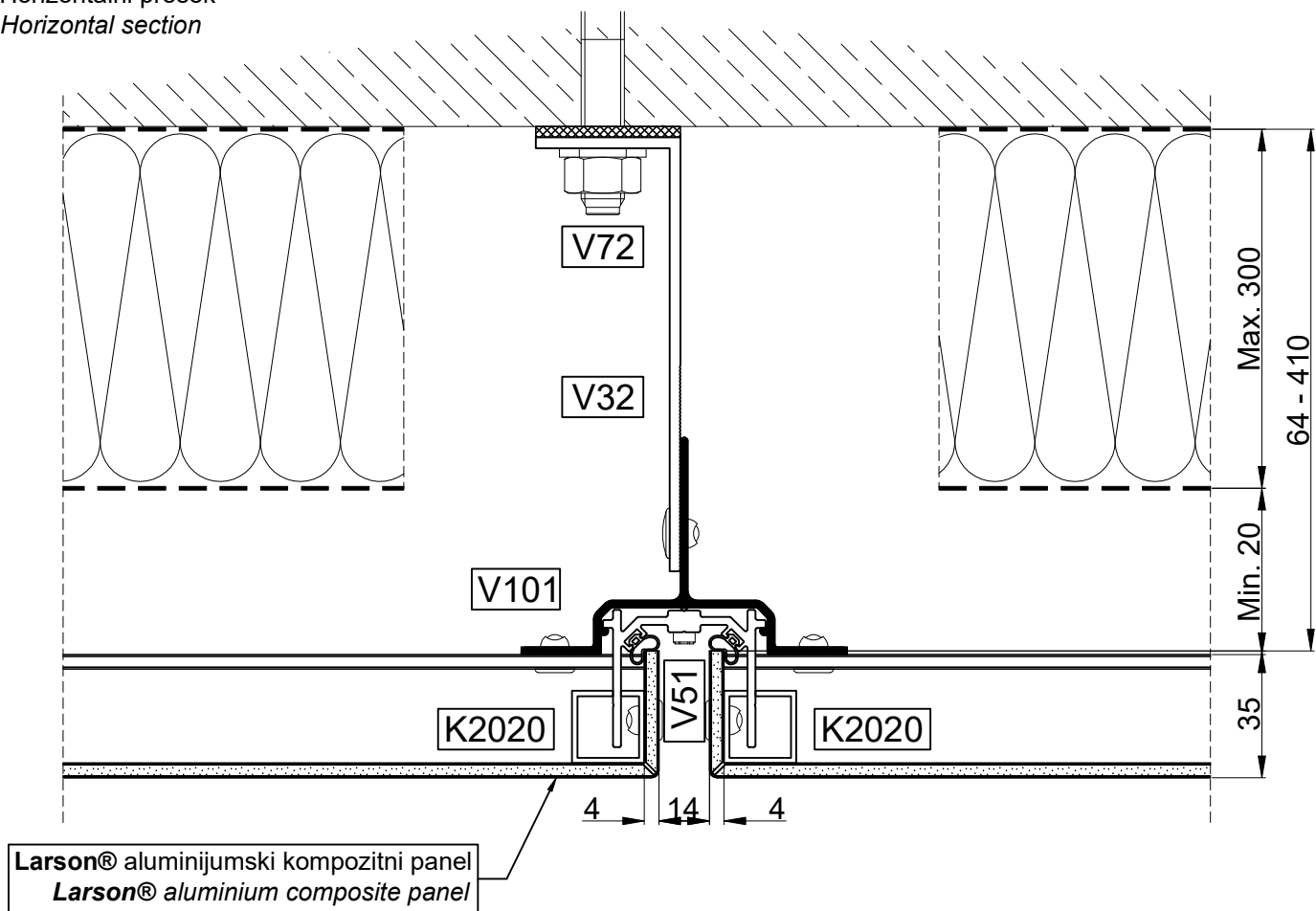
Horizontalni presek
Horizontal section



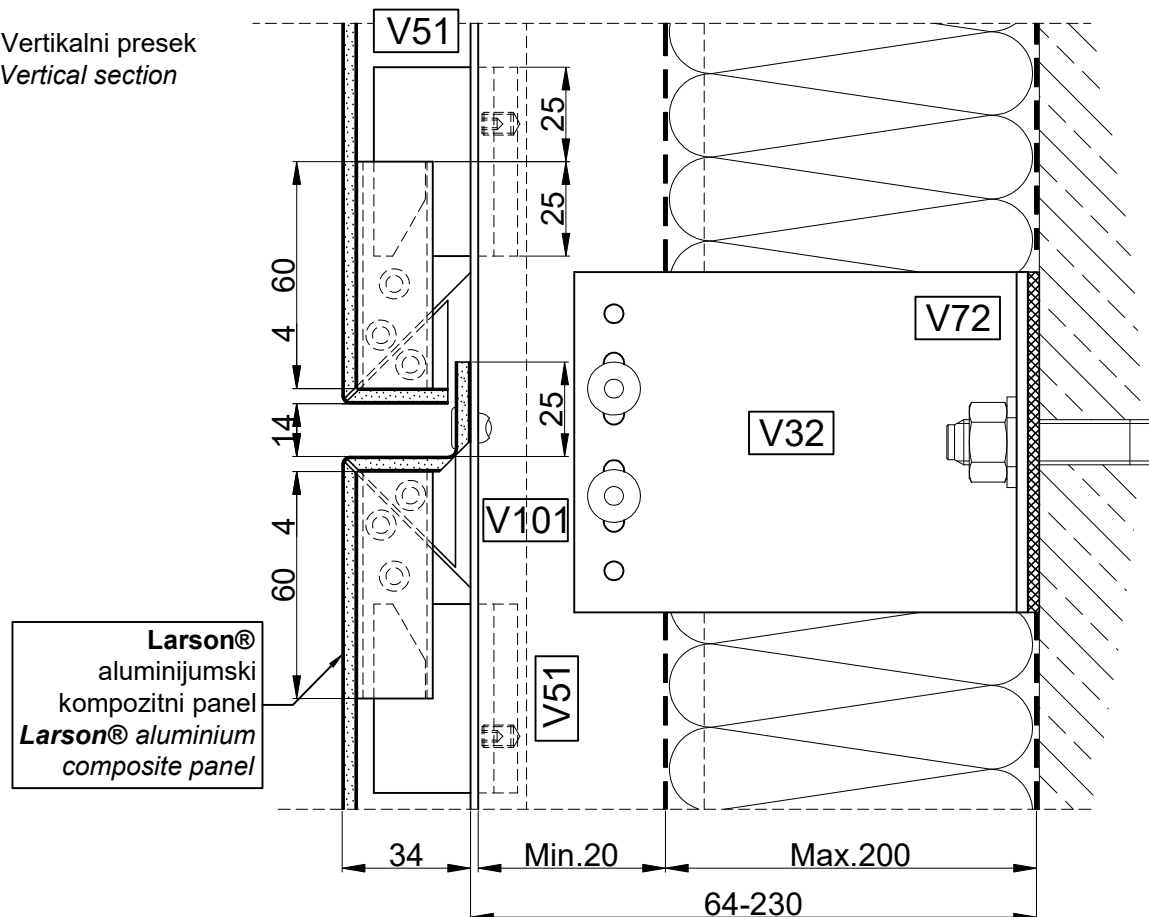
Horizontalni presek
Horizontal section



Horizontalni presek
Horizontal section



Vertikalni presek
Vertical section



Sistem
System

V**NT** [slider]



TEHNIČKI OPIS SISTEMA

Sistem aluminijumske potkonstrukcije namenjen prihvatanju posebno formiranih kaseta fiksiranih skrivenim nosačima i vidnim prihvatajućim elementima veze u obliku osovinu u predelu fugni. Pripremu kaseta je moguće odraditi kompletno u radionici, kako bi na gradilištu ovaj suvi postupak montaže bio brz i efikasan. Naziv je dobio prema načinu postavljanja kasetnih obloga na manje nosače, koji se pozicioniraju klizanjem na noseći deo potkonstrukcije i kasnijim fiksiranjem na istu (klizač-sliding), a posebno je pogodan za vertikalne kasete.

Postupak montaže startuje sa razmeravanjem i obeležavanjem pozicija nosećih profila.

a) Ekstrudirani noseći profili postavljaju se na objekat u projektovanom rasteru. Maksimalna preporučena dužina profila, kao i rastojanje između susednih vertikala, određuju se statičkim proračunom. Dužina profila ne može biti veća od 3500 mm, dok maksimalno rastojanje između susednih nosećih profila ne sme biti više od 1200 mm.

b) Sistem Slider omogućava udaljenje fasadne obloge od zida u rasponu od 64mm do 410mm*

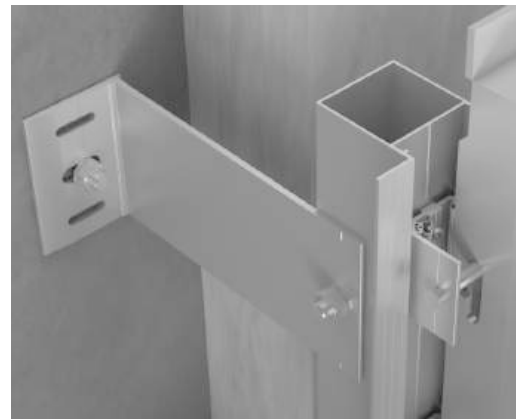
c) Fiksiranje vertikalnih nosećih omega profila (kat.br. V01, V134, V88) se vrši kotvama koje omogućavaju fino podešavanje nosećih aluminijumskih profila u svim pravcima, kako bi se dobila potpuno ravna površina fasade. Njihov spoj može biti fiksni ili dilatirajući zahvaljujući integrisanom rešenju koje omogućuje obe opcije, a spajanje se izvodi pomoću pop-zakivaka ili samorezujućim nerđajućim vijcima sa osiguranjem spoja. U slučaju zahteva za prekidom termo mosta, ispod kotvi se montiraju specijalno dizajnirane plastične podloške.

d) Klizni nosači (kat br. V50) se postavljaju u namenski žleb omega profila. Kada su montirani predstavljaju glavne spojne tačke između potkonstrukcije i prethodno formiranih kaseta.

e) Fasadni paneli se obrađuju na CNC obradnom centru u radioničkim uslovima (sečenjem na meru i odgovarajućim žljebovanjem). Sistem Slider zahteva precizno sečenje slotova za fiksiranje kaseta koji se nalaze na bočnim stranama. Uz pomoć ovih slotova kasete se fiksira na klizne nosače u omega profilima.

f) Tako pripremljene kasete se montiraju na fasadu, pri čemu se svaka kasete "zaključa" na mesto pomoću gornjeg i donjeg nosača. U ovom sistemu predviđena je fuga od 14mm.

* ove dimenzije podržane su standardnim VENT sistemskim kotvama, za veća udaljenja pregledajte tehnički katalog (sekcije 5.19-5.24) i TMT katalog



TECHNICAL SYSTEM DESCRIPTION

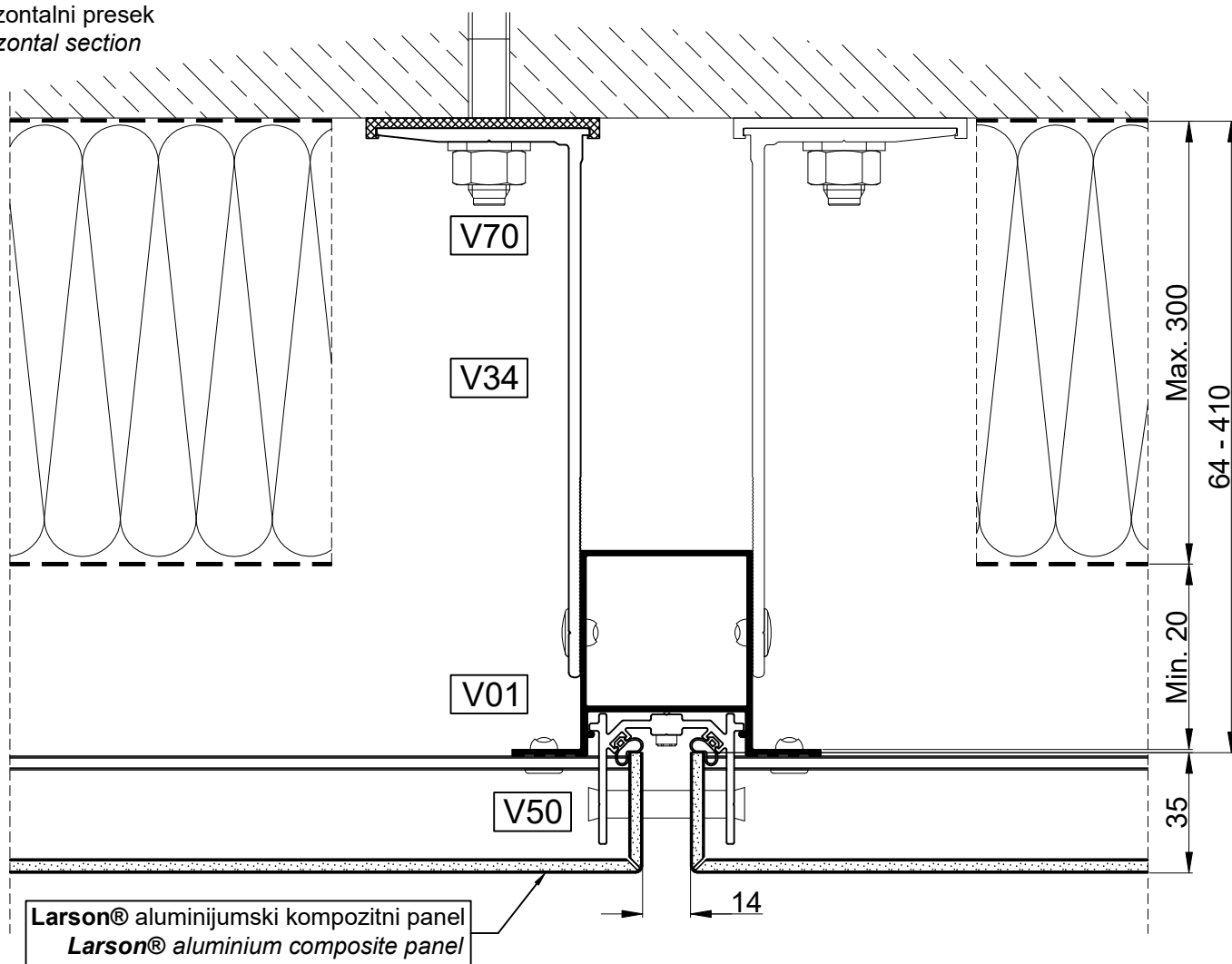
Aluminum substructure system designed for the installation of specially formed cassettes fixed using concealed brackets and visible connecting elements in the form of pins located within the panel gaps. Cassette preparation can be fully completed in workshop conditions, allowing the dry installation process on site to be fast and efficient. The system is named after the method of installing cassette cladding onto smaller brackets that are positioned by sliding onto the load-bearing part of the substructure and subsequently fixed to it (slider). The system is particularly suitable for vertical cassettes.

The installation process begins with surveying and marking the positions of the load-bearing profiles.

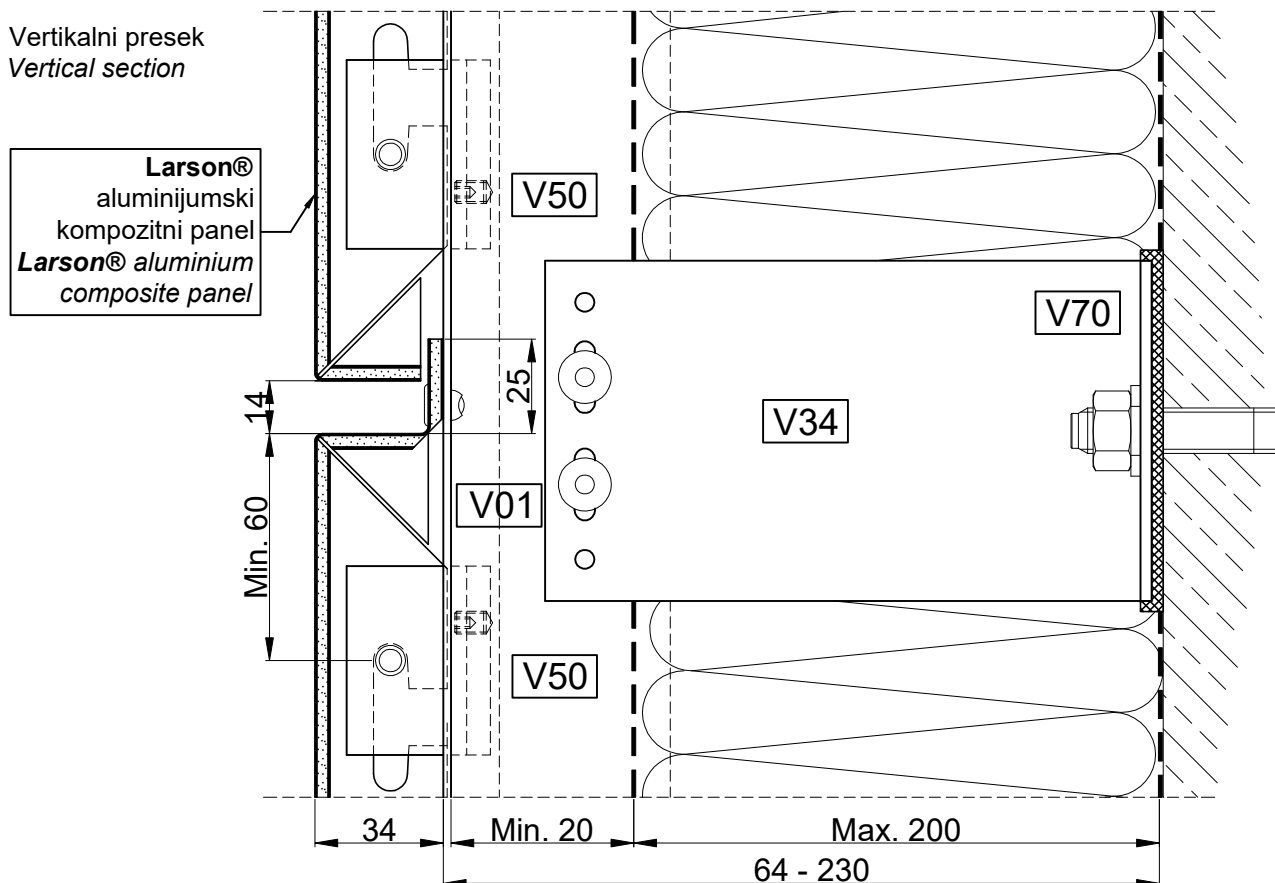
- a) Extruded load-bearing profiles are installed on the building according to the designed grid. The maximum recommended profile length and the spacing between adjacent vertical profiles are determined by static calculations. The profile length must not exceed 3500 mm, while the maximum spacing between adjacent load-bearing profiles must not exceed 1200 mm.
- b) The Slider system allows the façade cladding to be offset from the wall within a range of 64 mm to 410 mm*.
- c) Fixing of the vertical load-bearing omega profiles (cat. no. V01, V134, V88) is carried out using anchors that allow fine adjustment of the aluminum profiles in all directions, ensuring a perfectly planar façade surface. The connection can be either fixed or sliding, thanks to an integrated solution that allows both options. Connections are made using pop rivets or self-drilling stainless steel screws with secured joints. Where thermal bridge interruption is required, specially designed plastic spacers are installed beneath the anchors.
- d) Sliding brackets (cat. no. V50) are installed into the dedicated groove of the omega profile. Once installed, they serve as the main connection points between the substructure and the pre-formed cassettes.
- e) Façade panels are processed on a CNC machining center under workshop conditions (cut to size and grooved as required). The Slider system requires precise cutting of fixing slots located on the side edges of the cassettes. These slots are used to secure the cassettes to the sliding brackets within the omega profiles.
- f) The prepared cassettes are installed on the façade, with each cassette being "locked" into position using an upper and a lower bracket. The system provides for a 14 mm panel gap.

* These dimensions are supported by standard VENT system anchors. For larger offsets, please refer to the technical catalogue (sections 5.19-5.24) and the TMTP catalogue.

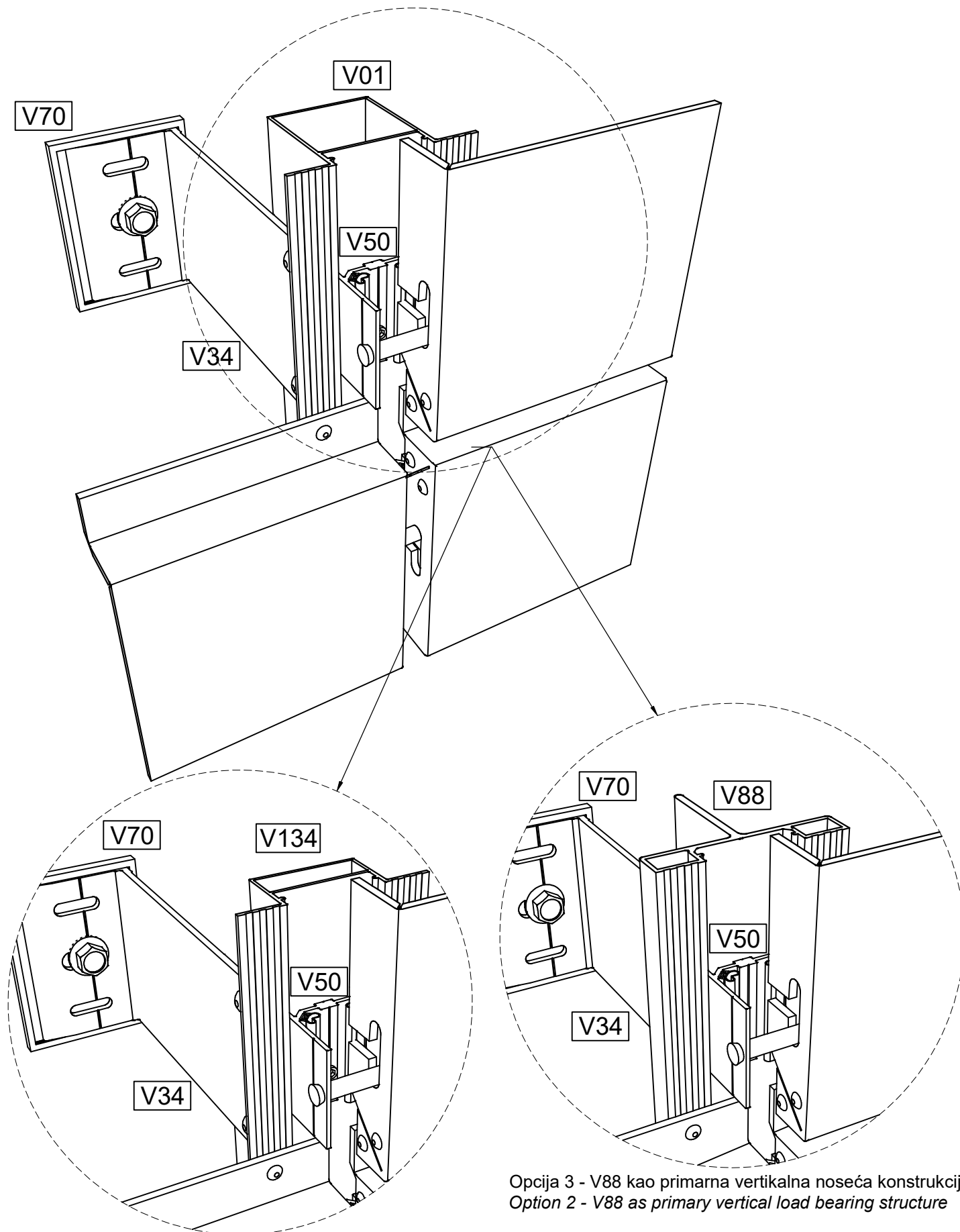
Horizontalni presek
Horizontal section



Vertikalni presek
Vertical section

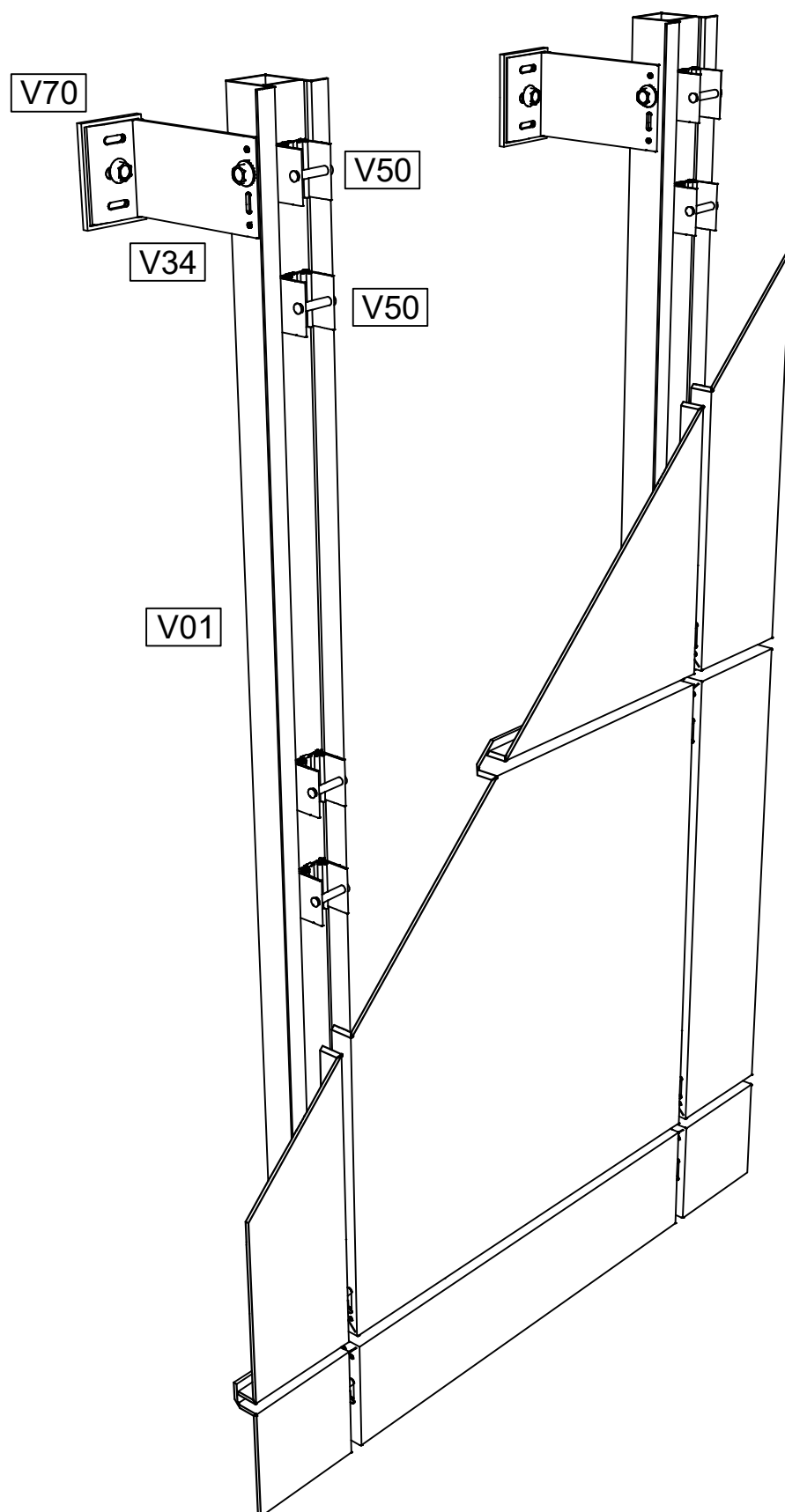


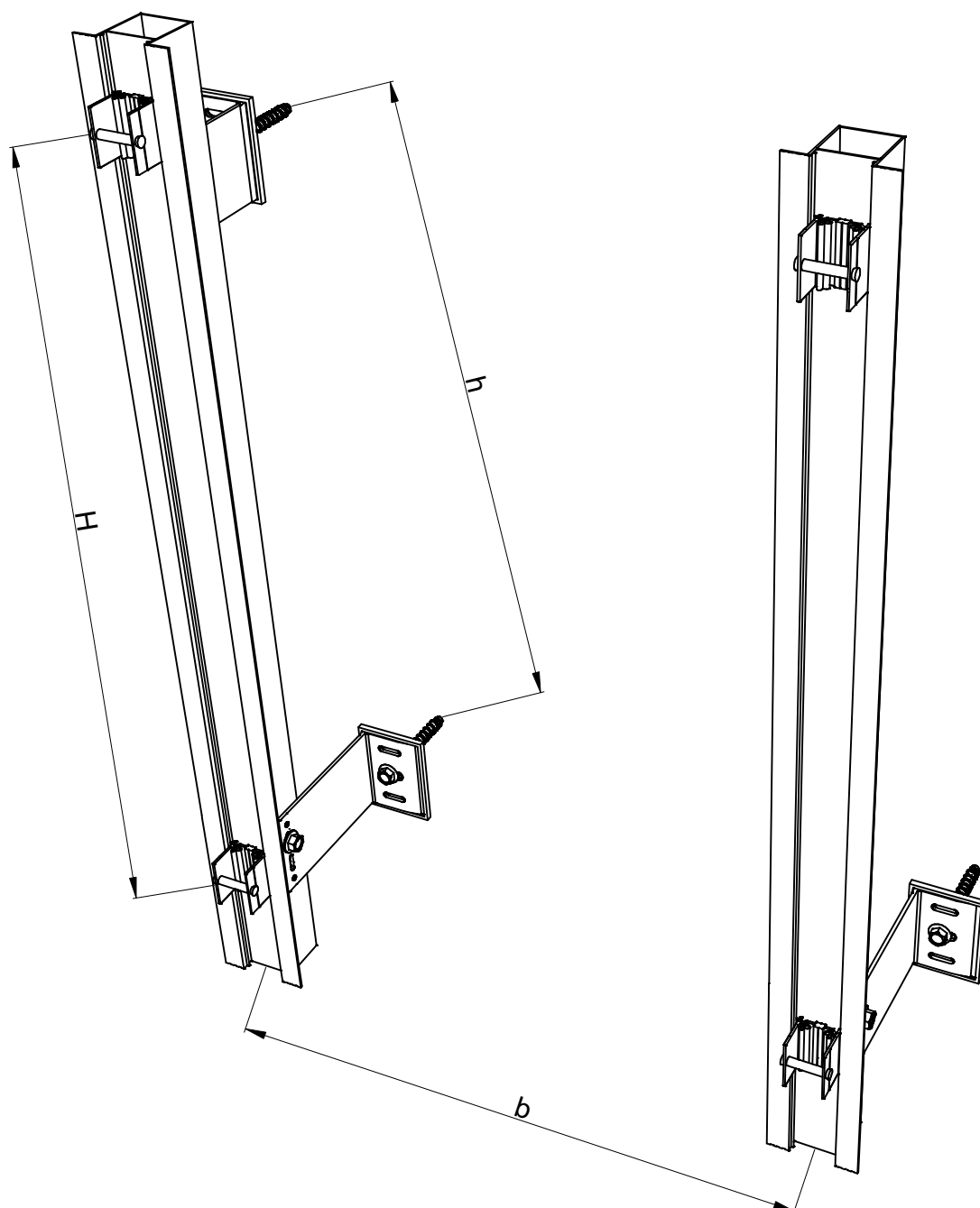
Opcija 1 - V01 kao primarna vertikalna noseća konstrukcija
Option 1 - V01 as primary vertical load bearing structure



Opcija 2 - V134 kao primarna vertikalna noseća konstrukcija
Option 2 - V134 as primary vertical load bearing structure

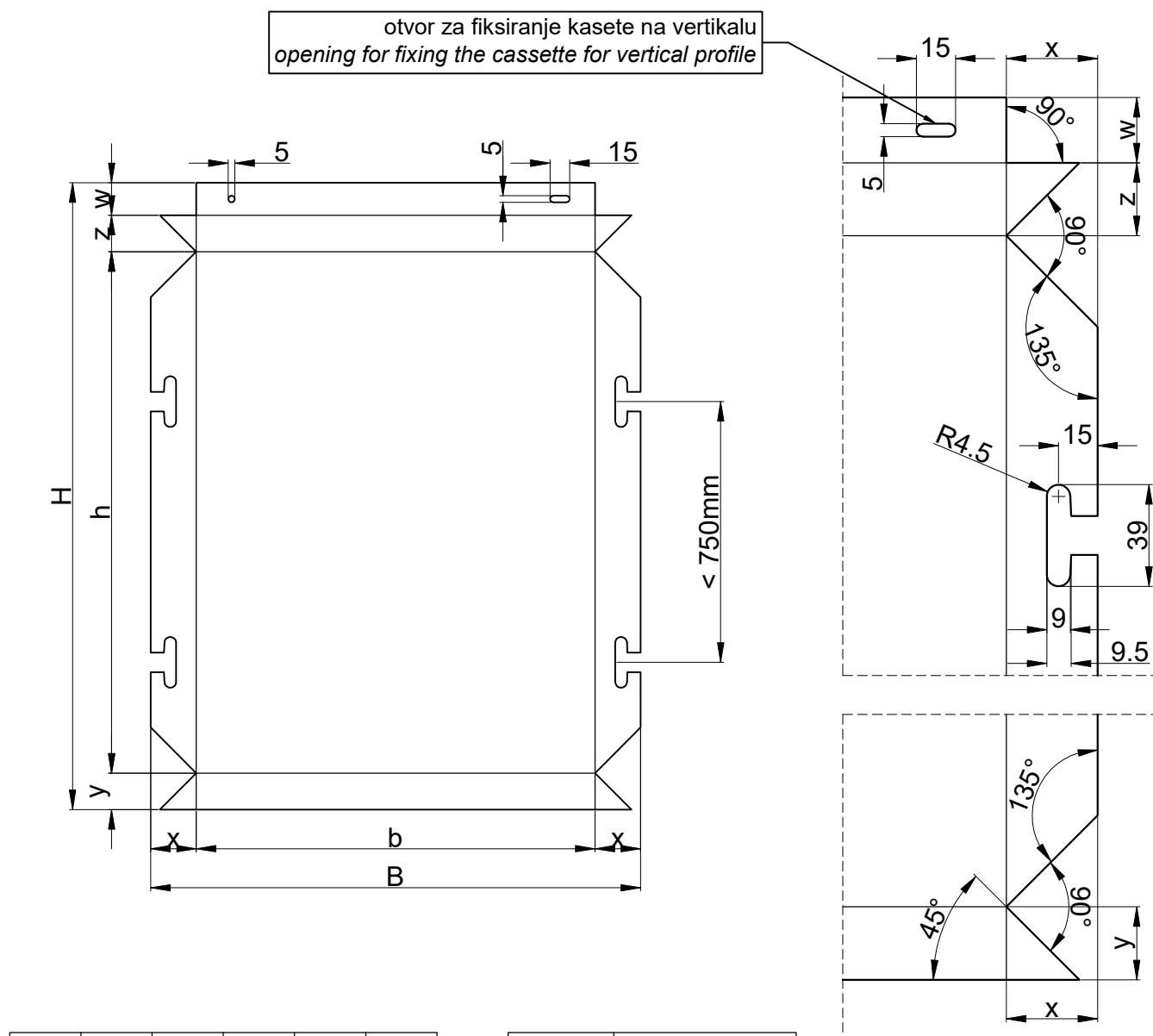
Opcija 3 - V88 kao primarna vertikalna noseća konstrukcija
Option 2 - V88 as primary vertical load bearing structure





b, h - prema statičkom proračunu, ali ne više od 1200mm
b, h - according to structural analysis, but no more than 1200mm

H - prema statičkom proračunu i u zavisnosti od primenjenog materijala obloge, ali ne više od 600mm
H - according to structural analysis and depending on applied cladding material, but no more than 600mm



b	x	h	y	z	w
	35		28	28	25

(mm)

B	H
$b + 2x$	$h + y + z + w$

(mm)

b - projektovana vidna širina kasete 100-1200
 b - designed visible cassette width 100-1200

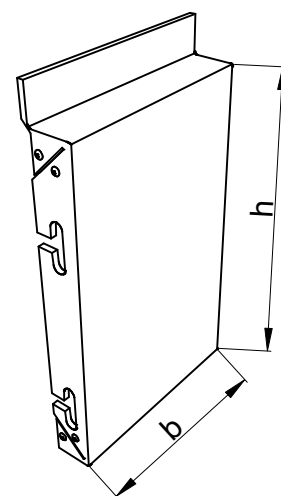
h - projektovana vidna visina kasete 200-1600
 h - designed visible cassette height 200-1600

B - ukupna širina razvijene mreže kasete
 B - developed cassette scheme total width

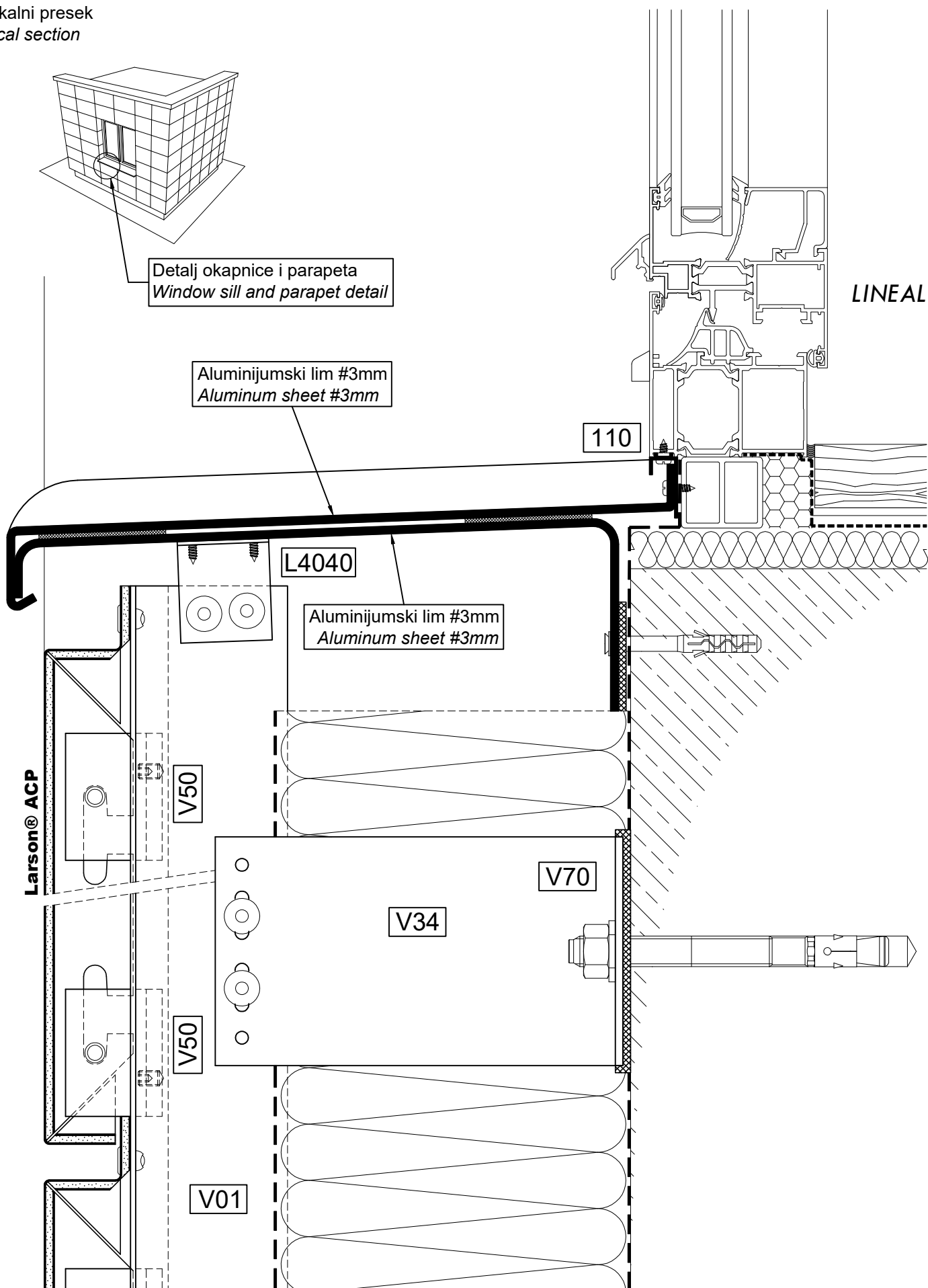
H - visina razvijene mreže kasete
 H - developed cassette scheme total height

x , y , z , w - prikazane dimenzije su minimalne preporučene od strane projektanta sistema, ali se mogu povećati u zavisnosti od potreba konkretnog projekta (način fiksiranja i vrsta primenjenih spojnih sredstava, projektovana dubina kasete itd.)

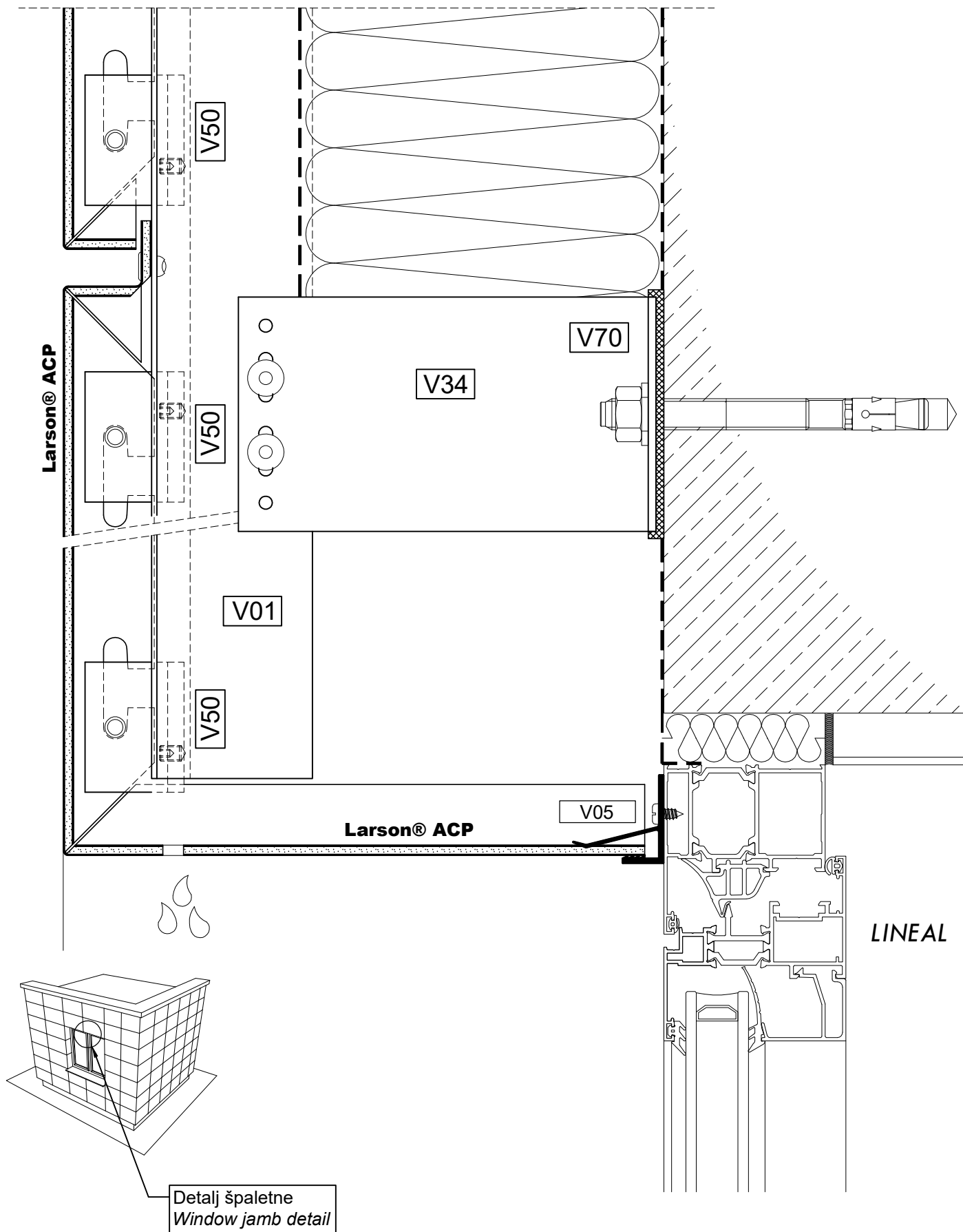
x , y , z , w - listed values are minimal as per system designer's recommendation, but could be increased depending on needs of specific project (fixing method and type of applied fasteners, designed cassette depth etc.)



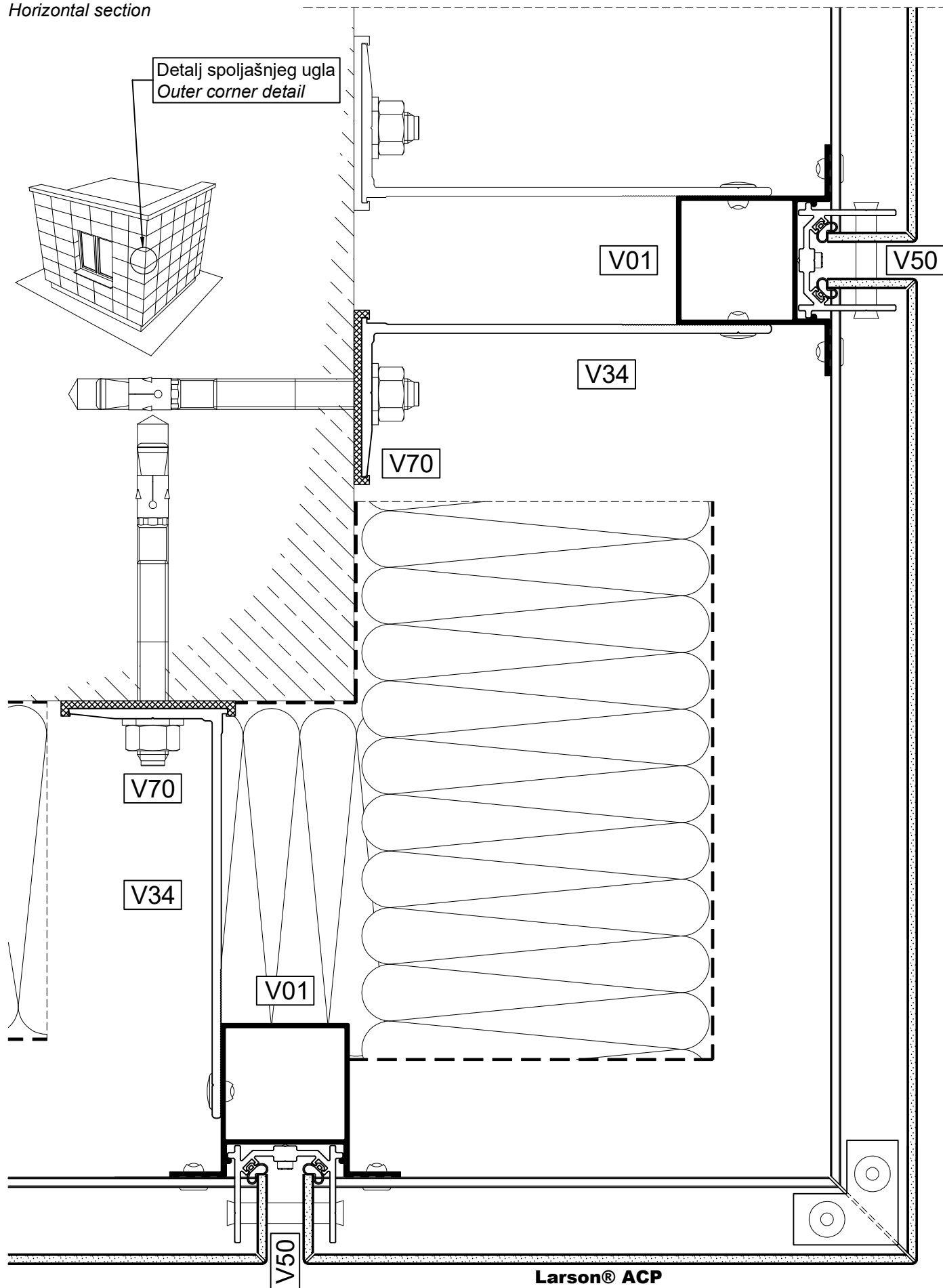
Vertikalni presek
Vertical section



Vertikalni presek
Vertical section

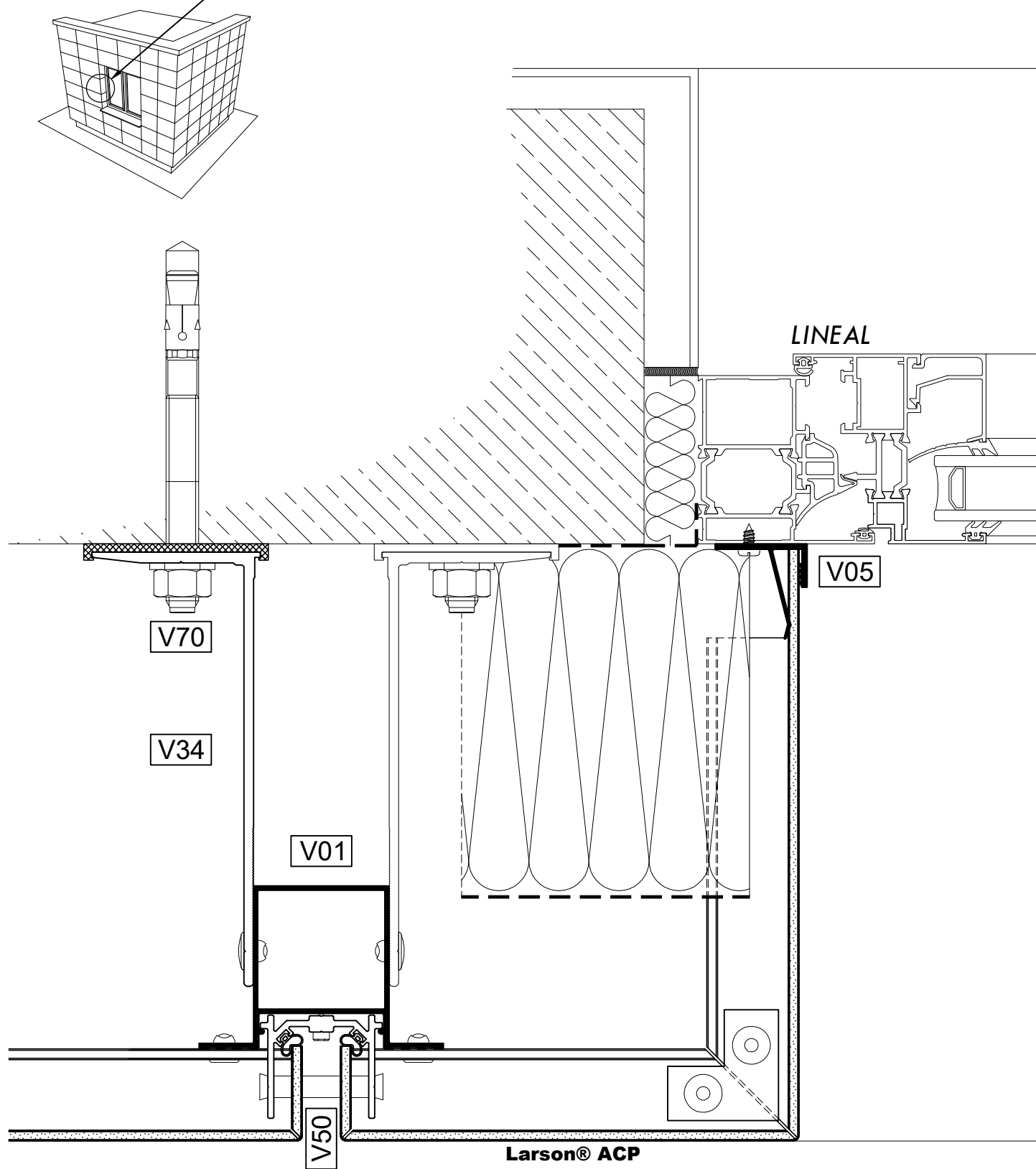


Horizontalni presek
Horizontal section



Horizontalni presek
Horizontal section

Detalj špaletne
Window jamb detail



Technical drawing illustrating the construction details of a parapet wall, showing cross-sections and components.

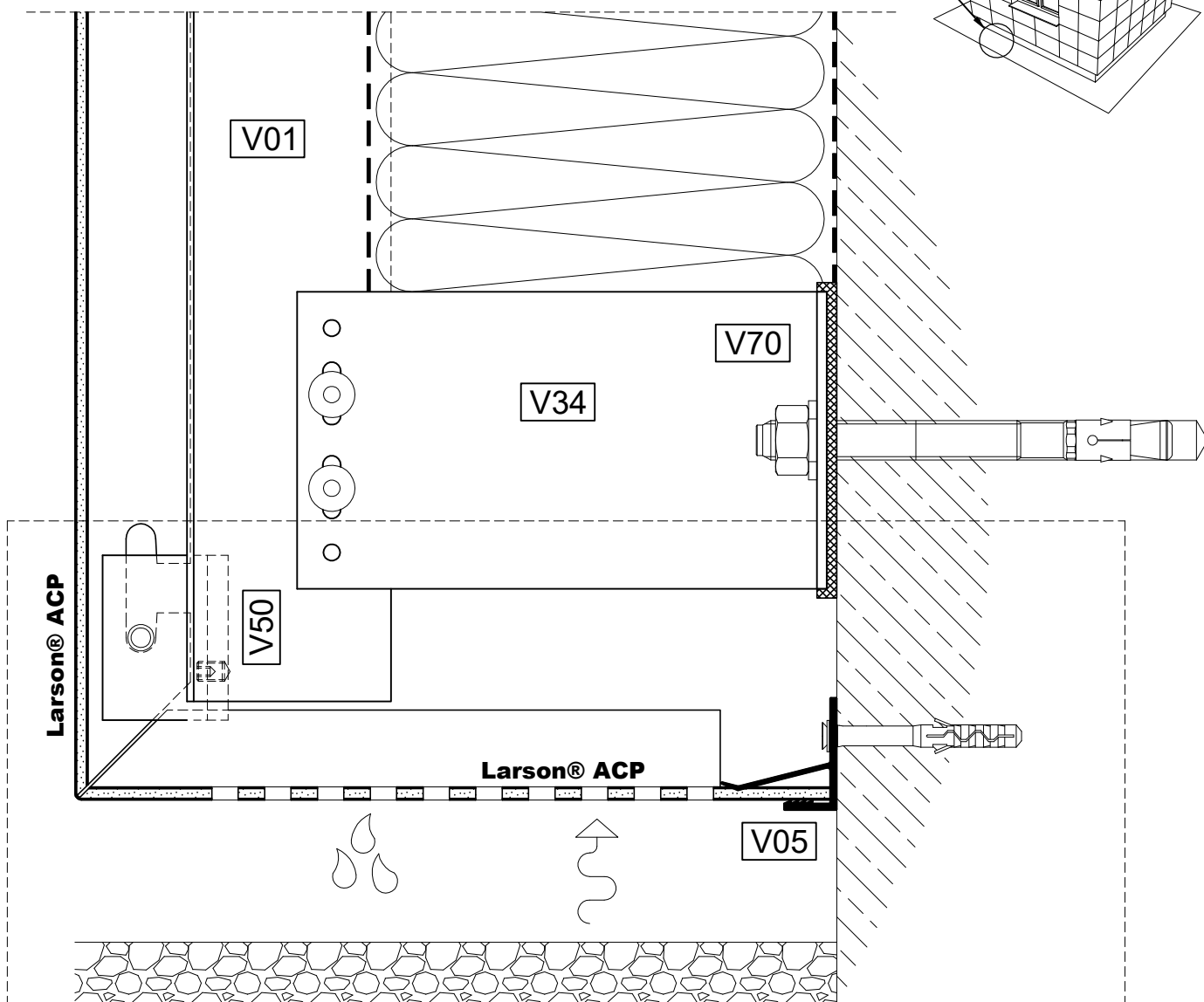
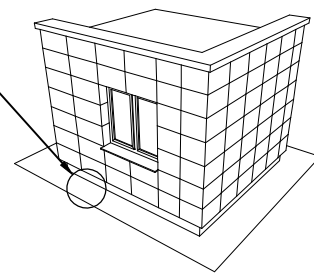
The drawing includes the following labeled components:

- V01**: Top section of the parapet wall.
- V50**: Vertical section of the parapet wall.
- V34**: Central section of the parapet wall.
- V70**: Bottom section of the parapet wall.
- Larson® ACP**: Aluminum Composite Panel (ACP) cladding.
- Detailj atike**: Parapet detail.

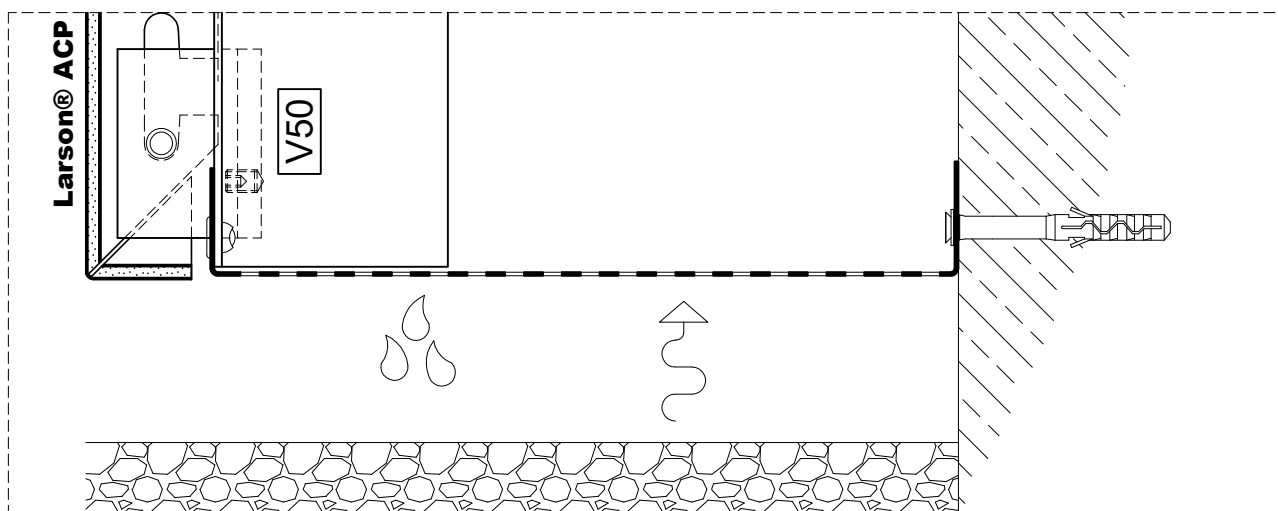
The drawing shows the internal structure, including insulation (hatched area) and the attachment of the ACP panels. A small inset diagram shows the overall context of the parapet wall on a building roof.

Vertikalni presek
Vertical section

Donji detalj
Bottom detail

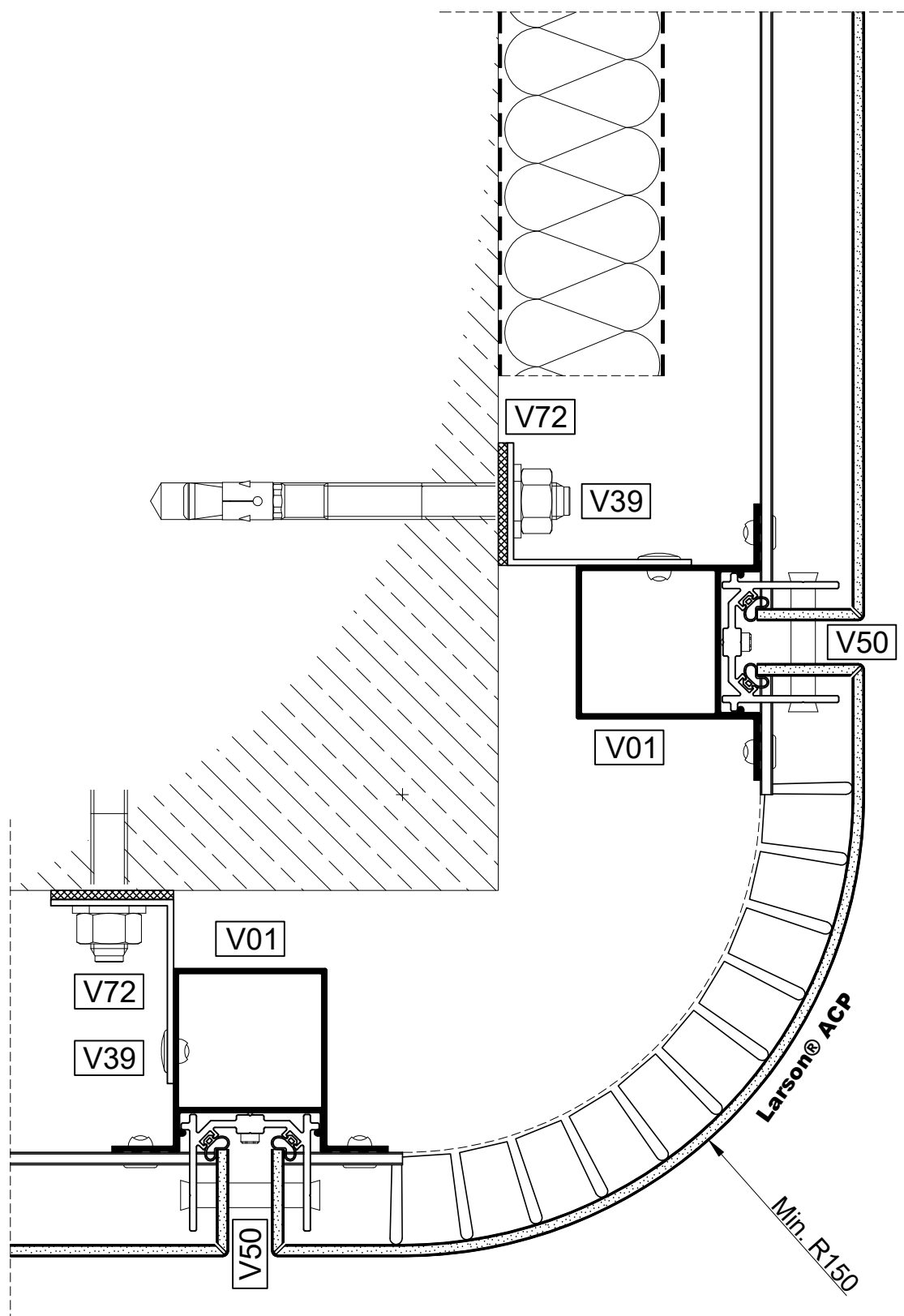


Opcija drenaže: perforirani aluminijumski kompozitni panel
Drainage option: perforated aluminium composite panel

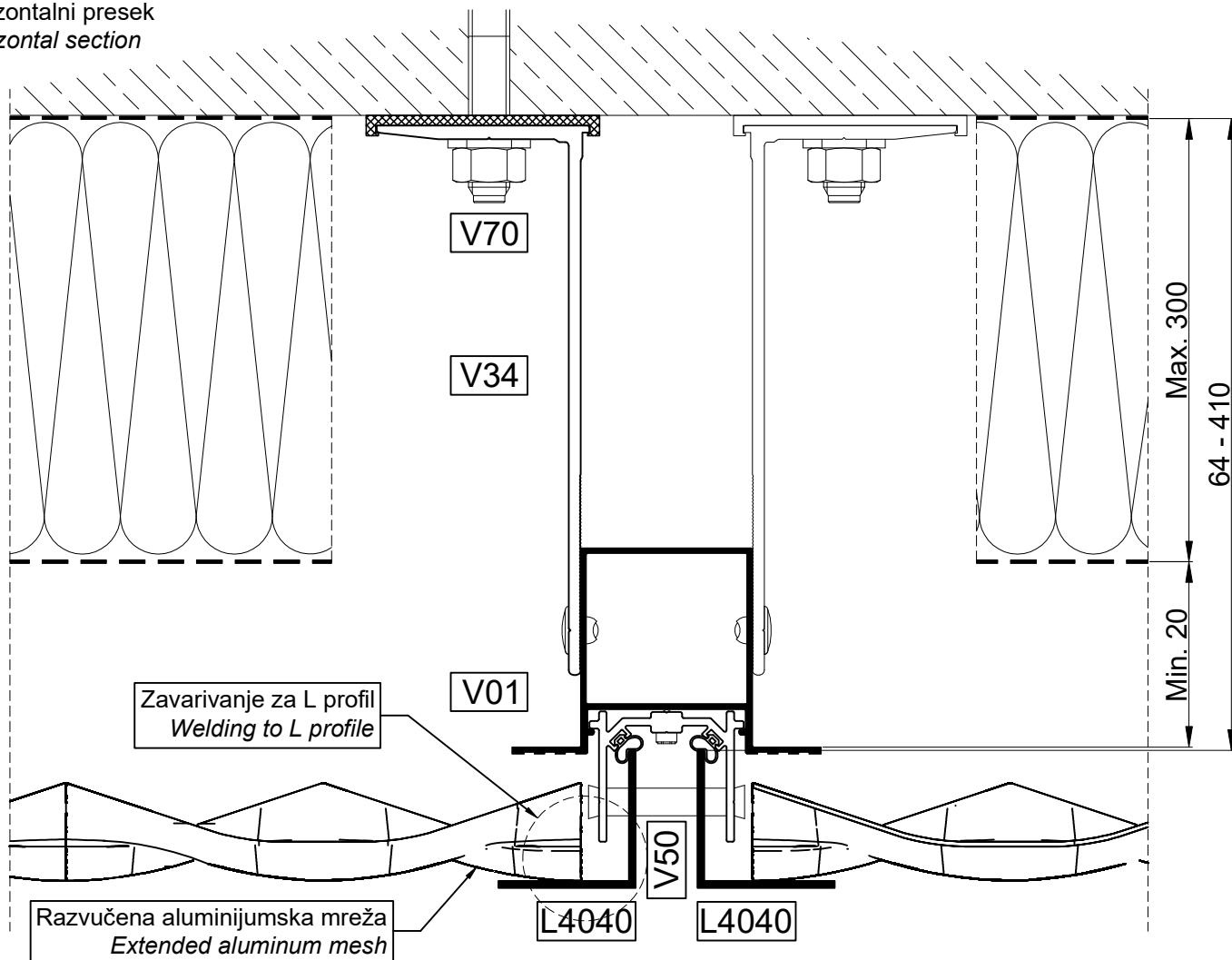


Opcija drenaže: perforirani aluminijumski lim
Drainage option: perforated aluminium sheet

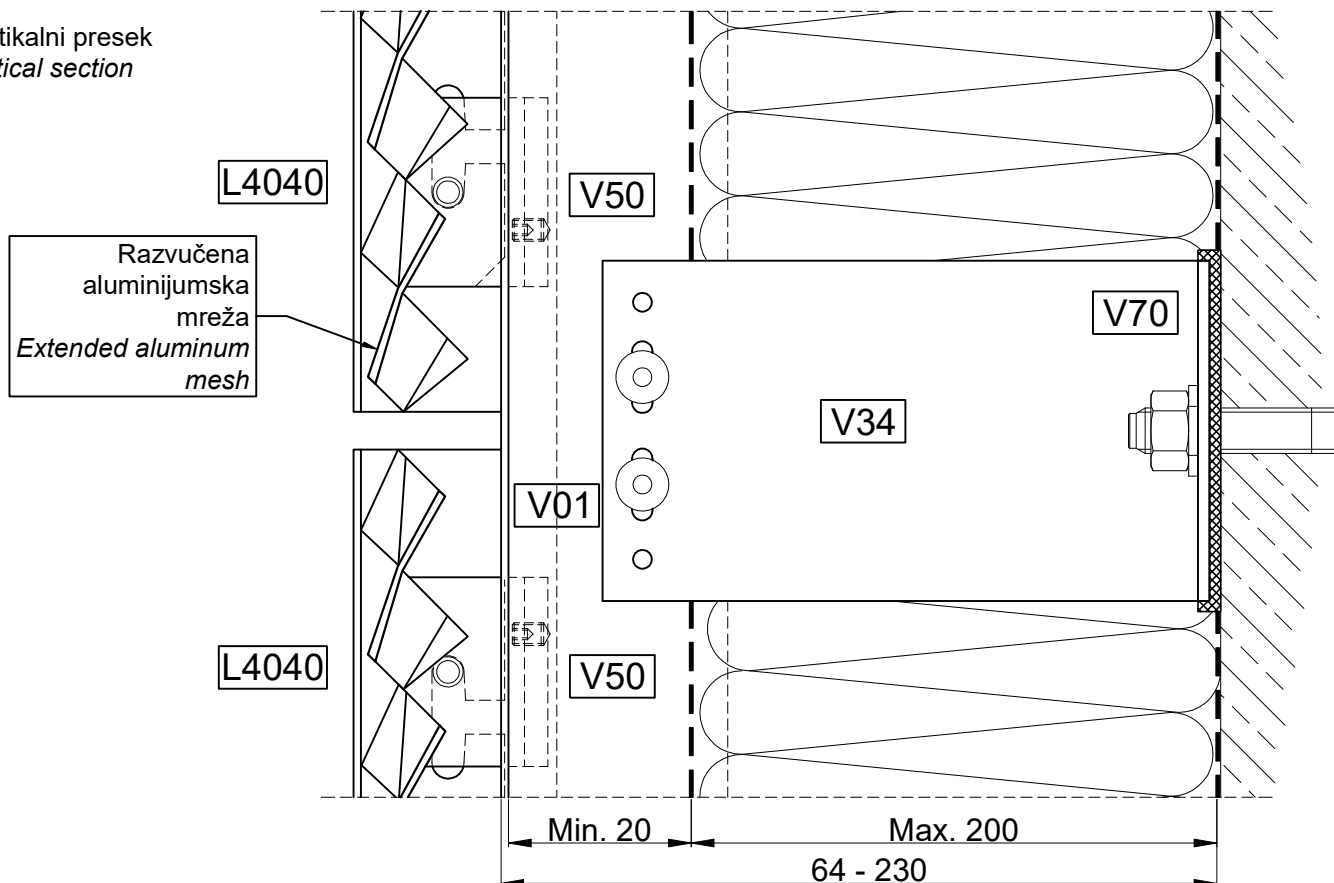
Horizontalni presek
Horizontal section



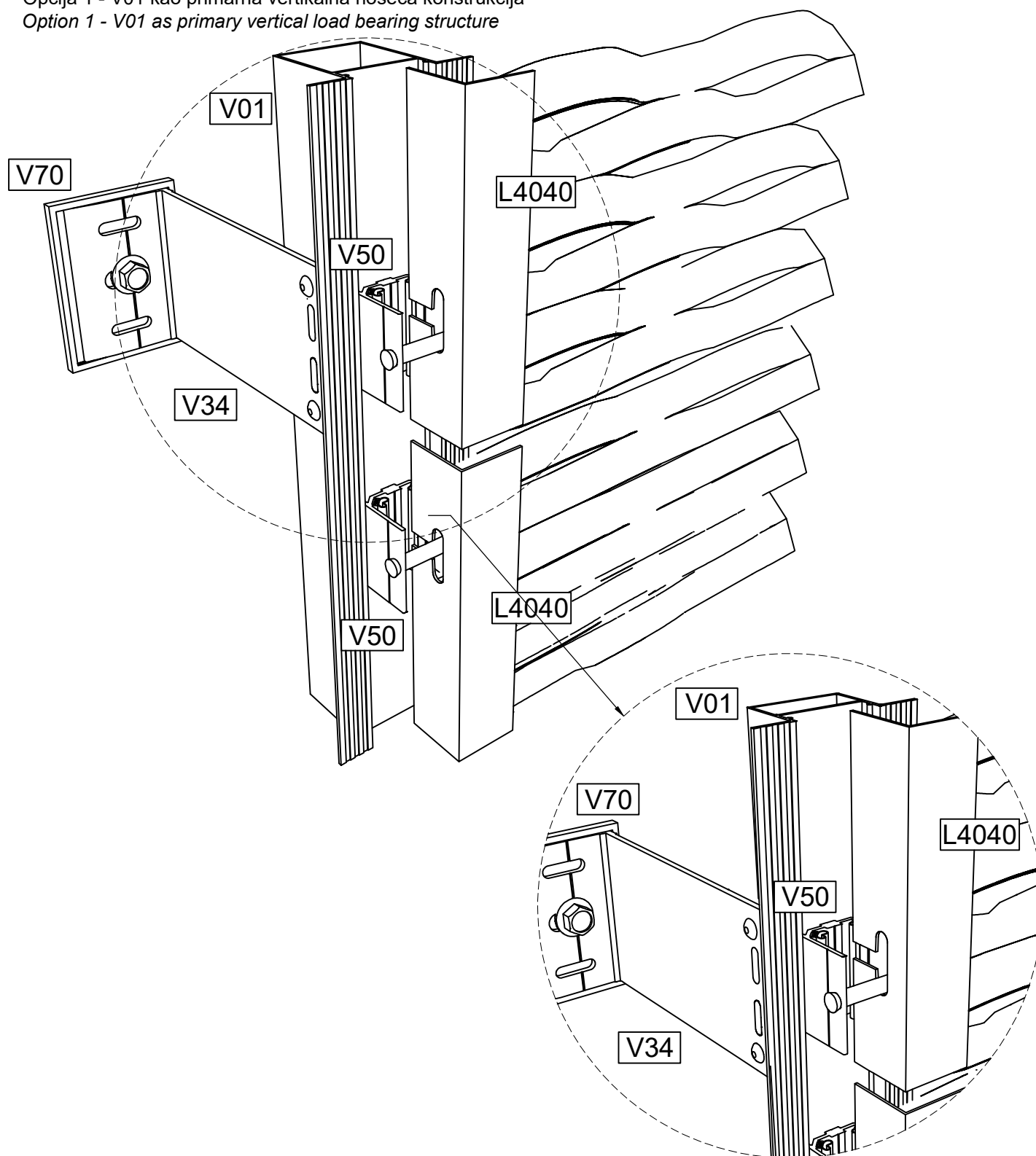
Horizontalni presek
Horizontal section



Vertikalni presek
Vertical section



Opcija 1 - V01 kao primarna vertikalna noseća konstrukcija
Option 1 - V01 as primary vertical load bearing structure



Opcija 2 - V134 kao primarna vertikalna noseća konstrukcija
Option 2 - V134 as primary vertical load bearing structure

*Prezentovani detalj predstavlja samo predlog rešenja u sistemu VENT Rivet. Svaki tip mreže, njena dispozicija na/u objektu i njena funkcija će usloviti rešenje koje mora biti statički provereno za svaki konkretan slučaj.

**The presented detail is merely a preliminary technical solution in system VENT Rivet. Every individual mesh type, its disposition on/in the building and its function would condition a technical solution that must be structurally analysed for every particular situation.*

*Tehničko rešenje je validno za određene tipove mreže. U toku izbora mustre, konsultovati se sa prodajno-tehničkom službom.

**Technical solution is valid for certain mesh types. When deciding on a mesh type, consult the commercial and technical department.*

Sistem
System

V**NT** [gasket]



TEHNIČKI OPIS SISTEMA

Sistem aluminijumske potkonstrukcije koji je namenjen prihvatanju posebno formiranih kaseta, vrlo pogodan za oblaganje ne samo zidnih površina, već i stubova, plafona, niša i drugih komplikovanijih zona na objektu. Ovaj sistem prepoznatljiv je po naglašenim spojevima panela na fasadi. Takav vizuelni efekat postiže se ubacivanjem i fiksiranjem namenskih zaptivki u fugne, ili zalivanjem istih strukturalnim silikonom, a odatle dolazi i ime sistema (gasket-zaptivka). Izuzetno praktičan način montaže, ne zahteva izuzetnu preciznost, a ispunjavanje fugni nije obavezno.

Postupak montaže startuje sa razmeravanjem i obeležavanjem pozicija nosećih profila.

- a) Ekstrudirani noseći profili postavljaju se na objekat u projektovanom rasteru. Maksimalna preporučena dužina profila, kao i rastojanje između susednih vertikala, određuju se statičkim proračunom. Dužina profila ne može biti veća od 3500 mm, dok maksimalno rastojanje između susednih nosećih profila ne sme biti više od 1200 mm.
- b) Sistem Gasket omogućava udaljenje fasadne obloge od zida u rasponu od 64mm do 410mm*
- c) Fiksiranje glavnih nosećih profila se vrši kotvama koje omogućavaju fino podešavanje nosećih profila u svim pravcima, kako bi se dobila potpuno ravna površina fasade. Njihov spoj može biti fiksni ili dilatirajući zahvaljujući integrisanom rešenju koje omogućuje obe opcije, a spajanje se izvodi pomoću pop-zakivaka ili samorezujućim nerđajućim vijcima sa osiguranjem spoja. U slučaju zahteva za prekidom termo mosta, ispod kotvi se montiraju specijalno dizajnirane plastične podloške.
- d) Fasadni paneli se obrađuju na CNC centru u radioničkim uslovima (sečenjem na meru i odgovarajućim žljebovanjem), a zatim tako obrađeni paneli savijanjem formiraju kasete. Na kraju se u uglove gotovih kaseta pop-nitnama pričvršćuju komadi L profila (kat br. L2030, L2020). L profili se montiraju na različitim visinama kako bi se izbeglo preklapanje profila na susednim kasetama.
- e) U ovom sistemu predviđena je fuga od 10-14mm koja se može ispuniti EPDM zaptivkom (kat br. V60, V61) ili zaliti strukturalnim silikonom u slučaju potrebe.

* ove dimenzije podržane su standardnim VENT sistemskim kotvama, za veća udaljenja pregledajte tehnički katalog (sekcije 5.19-5.24) i TMTP katalog



TECHNICAL SYSTEM DESCRIPTION

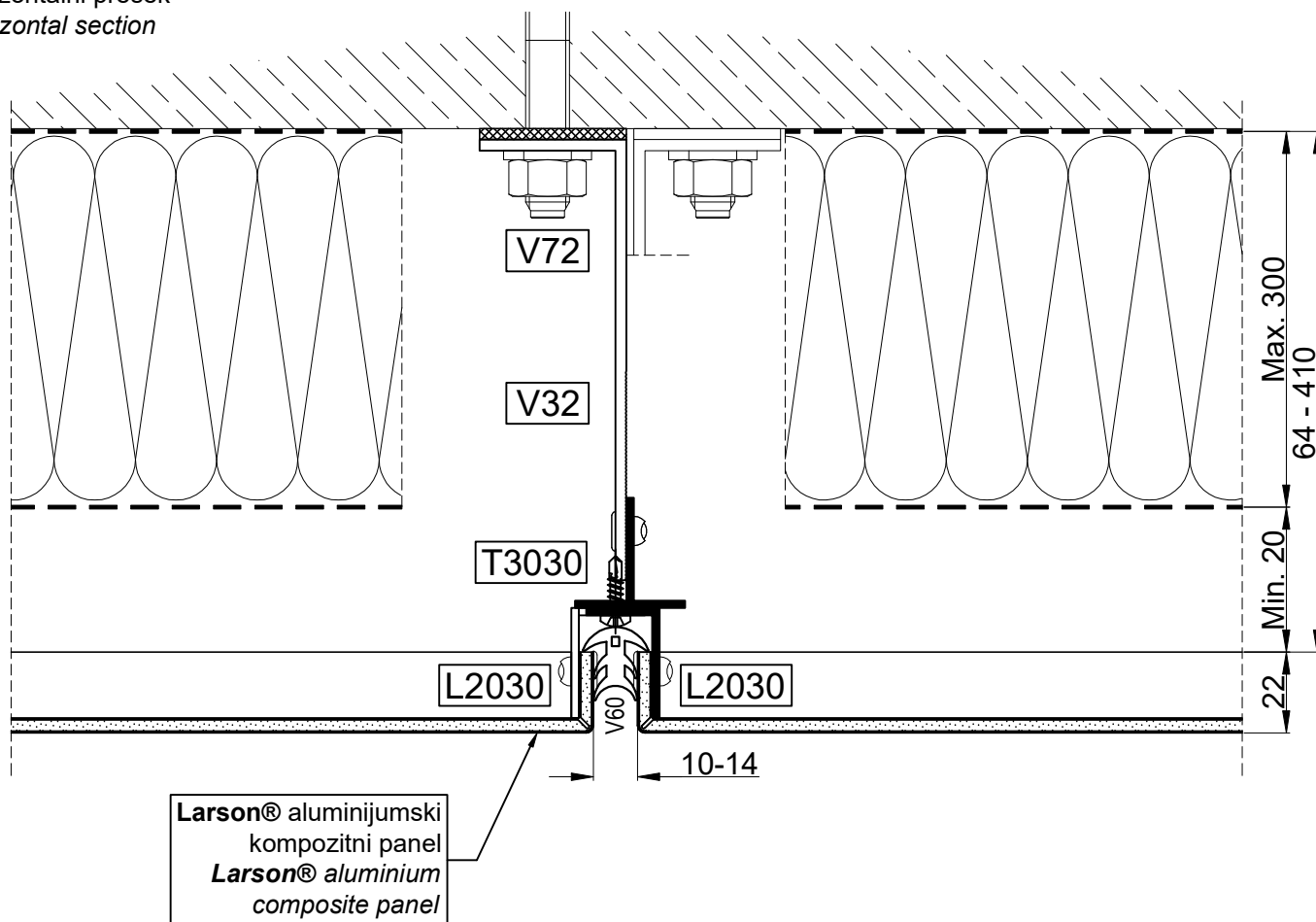
Aluminum substructure system designed for the installation of specially formed cassettes, particularly suitable not only for wall cladding but also for columns, ceilings, niches, and other geometrically complex areas of the building. The system is characterized by pronounced panel connections on the façade. This visual effect is achieved either by inserting and fixing dedicated gaskets into the panel gaps or by filling them with structural silicone, from which the system derives its name (gasket). The installation method is highly practical and does not require exceptional precision; filling of the panel gaps is optional.

The installation process begins with surveying and marking the positions of the load-bearing profiles.

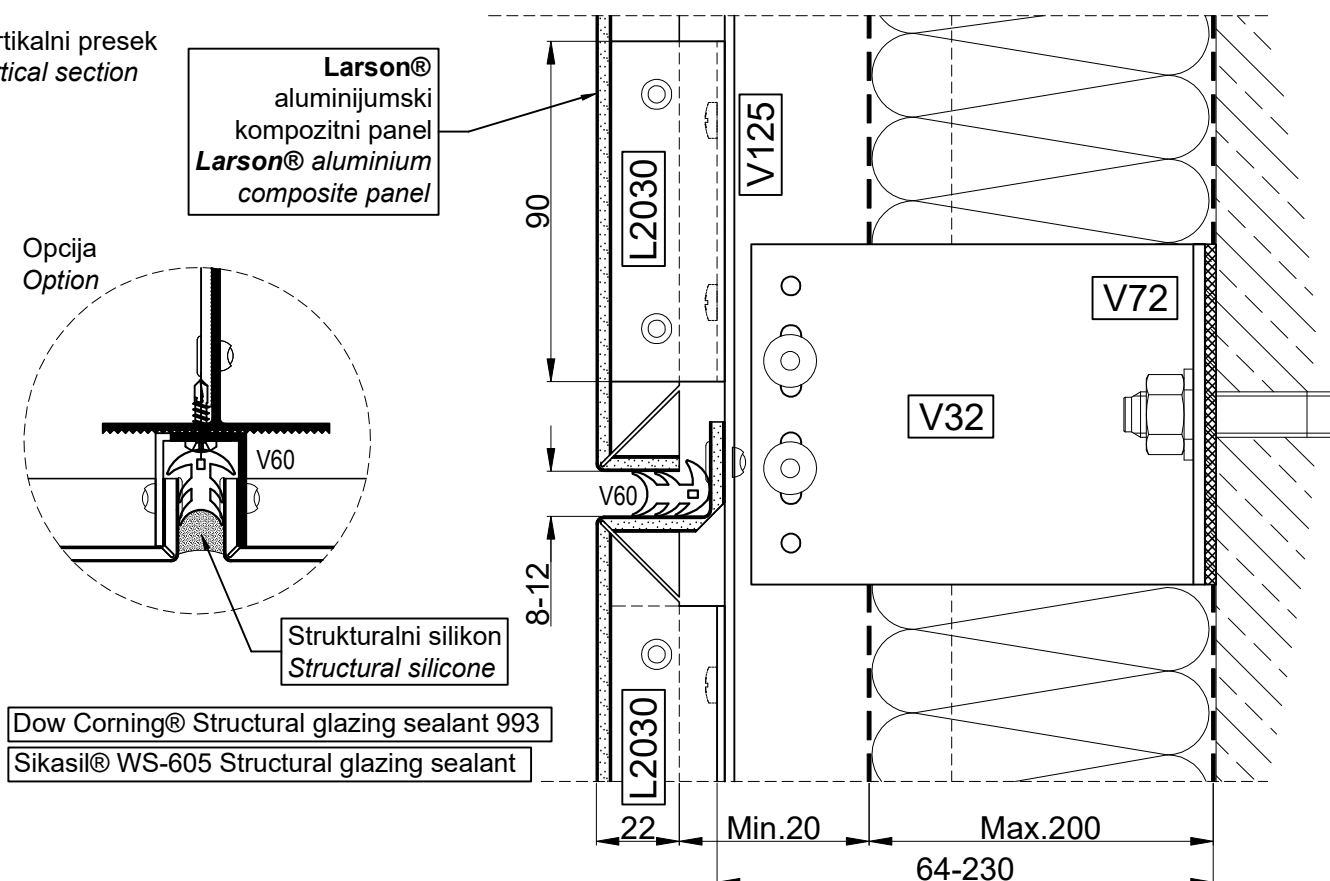
- a) Extruded load-bearing profiles are installed on the building according to the designed grid. The maximum recommended profile length and the spacing between adjacent vertical profiles are determined by static calculations. The profile length must not exceed 3500 mm, while the maximum spacing between adjacent load-bearing profiles must not exceed 1200 mm.
- b) The Gasket system allows the façade cladding to be offset from the wall within a range of 64 mm to 410 mm*.
- c) Fixing of the main load-bearing profiles is carried out using anchors that allow fine adjustment of the profiles in all directions, ensuring a perfectly planar façade surface. The connection can be either fixed or sliding, thanks to an integrated solution that allows both options. Connections are made using pop rivets or self-drilling stainless steel screws with secured joints. Where thermal bridge interruption is required, specially designed plastic spacers are installed beneath the anchors.
- d) Façade panels are processed on a CNC machining center under workshop conditions (cut to size and grooved as required). The processed panels are then bent to form cassettes. Finally, L-profiles (cat. no. L2030, L2020) are fixed into the corners of the finished cassettes using pop rivets. The L-profiles are installed at varying heights to avoid overlap between adjacent cassettes.
- e) The system provides for a panel gap of 10-14 mm, which can be filled with an EPDM gasket (cat. no. V60, V61) or, where required, sealed with structural silicone.

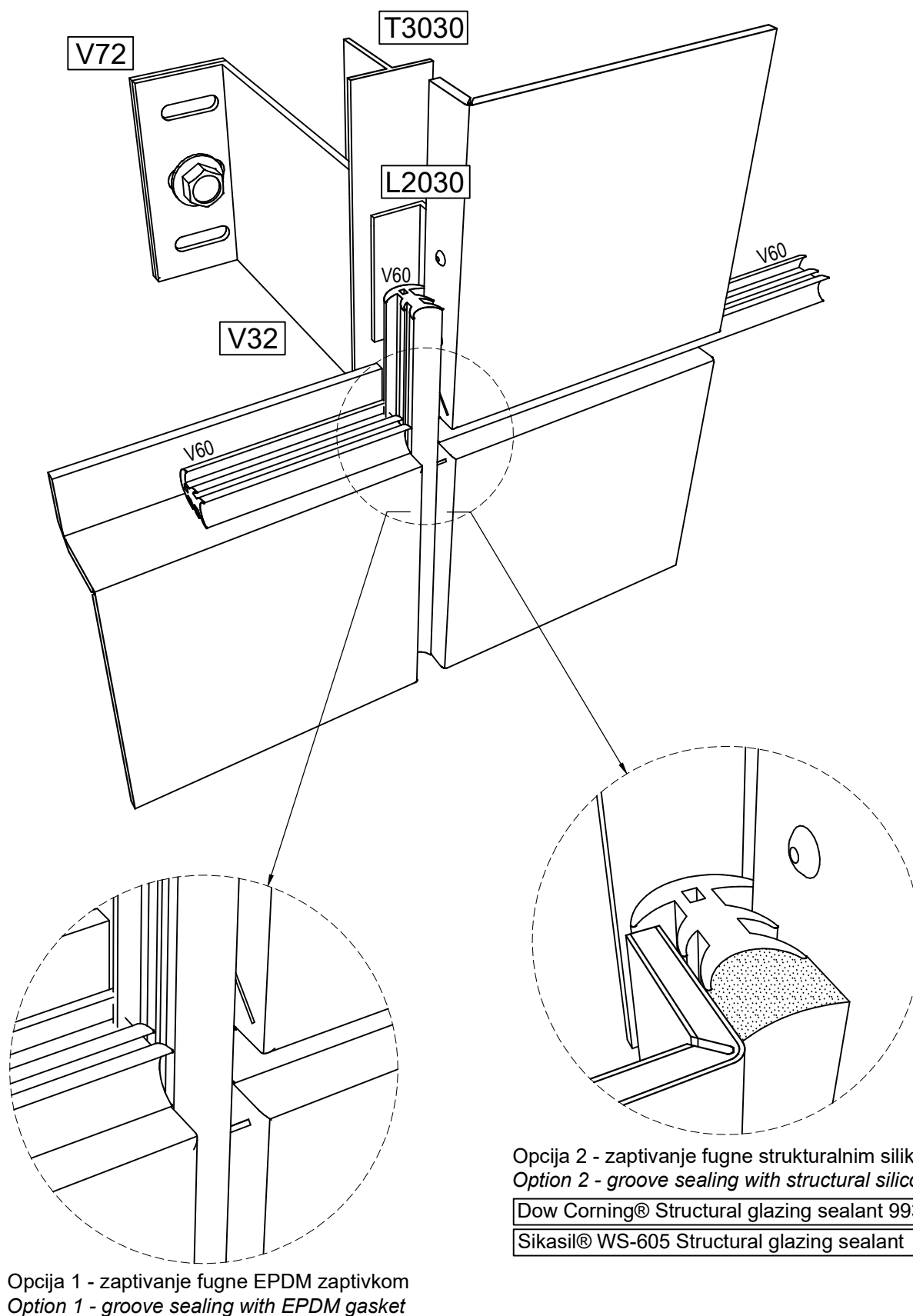
* These dimensions are supported by standard VENT system anchors. For larger offsets, please refer to the technical catalogue (sections 5.19-5.24) and the TMTP catalogue.

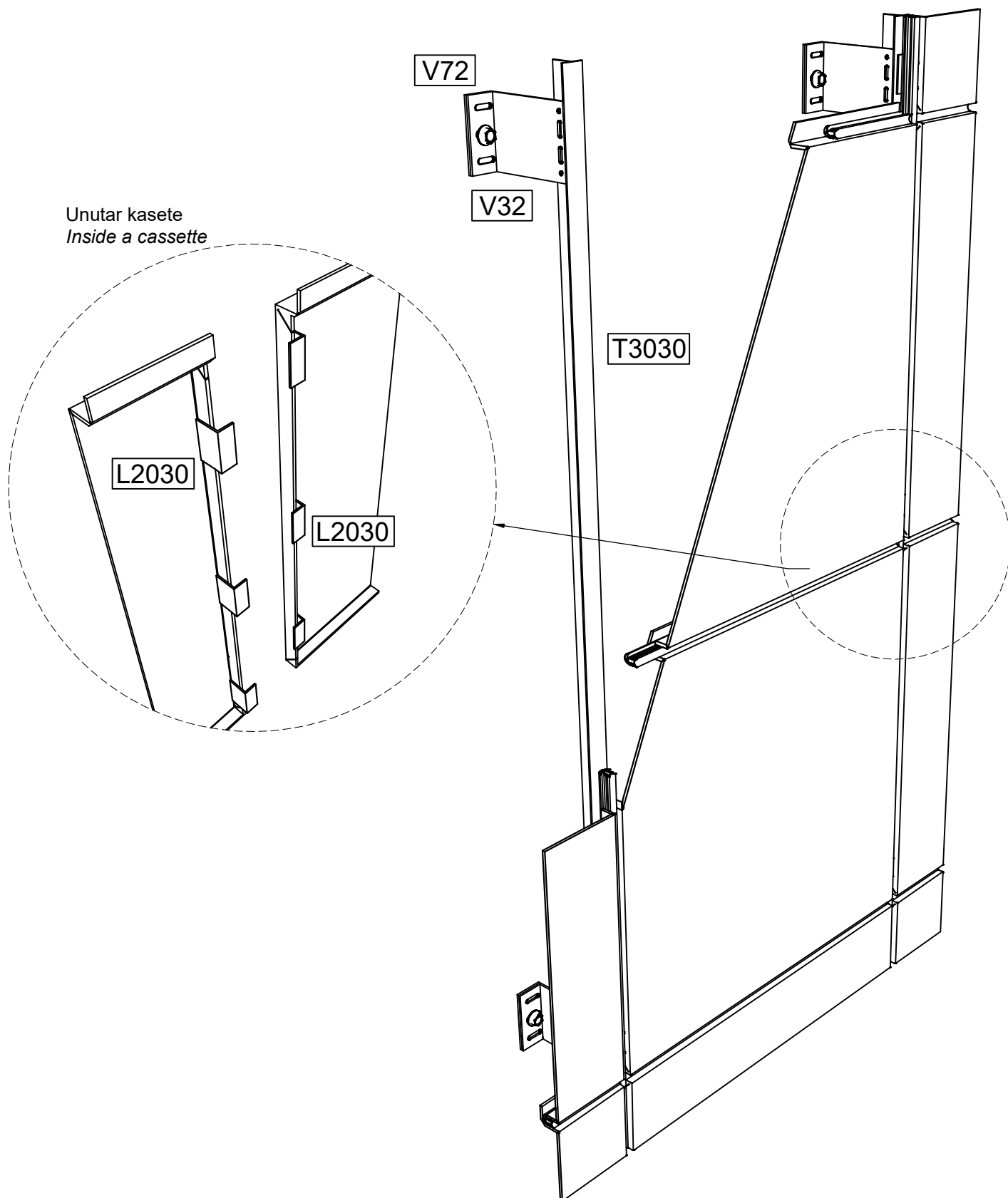
Horizontalni presek
Horizontal section

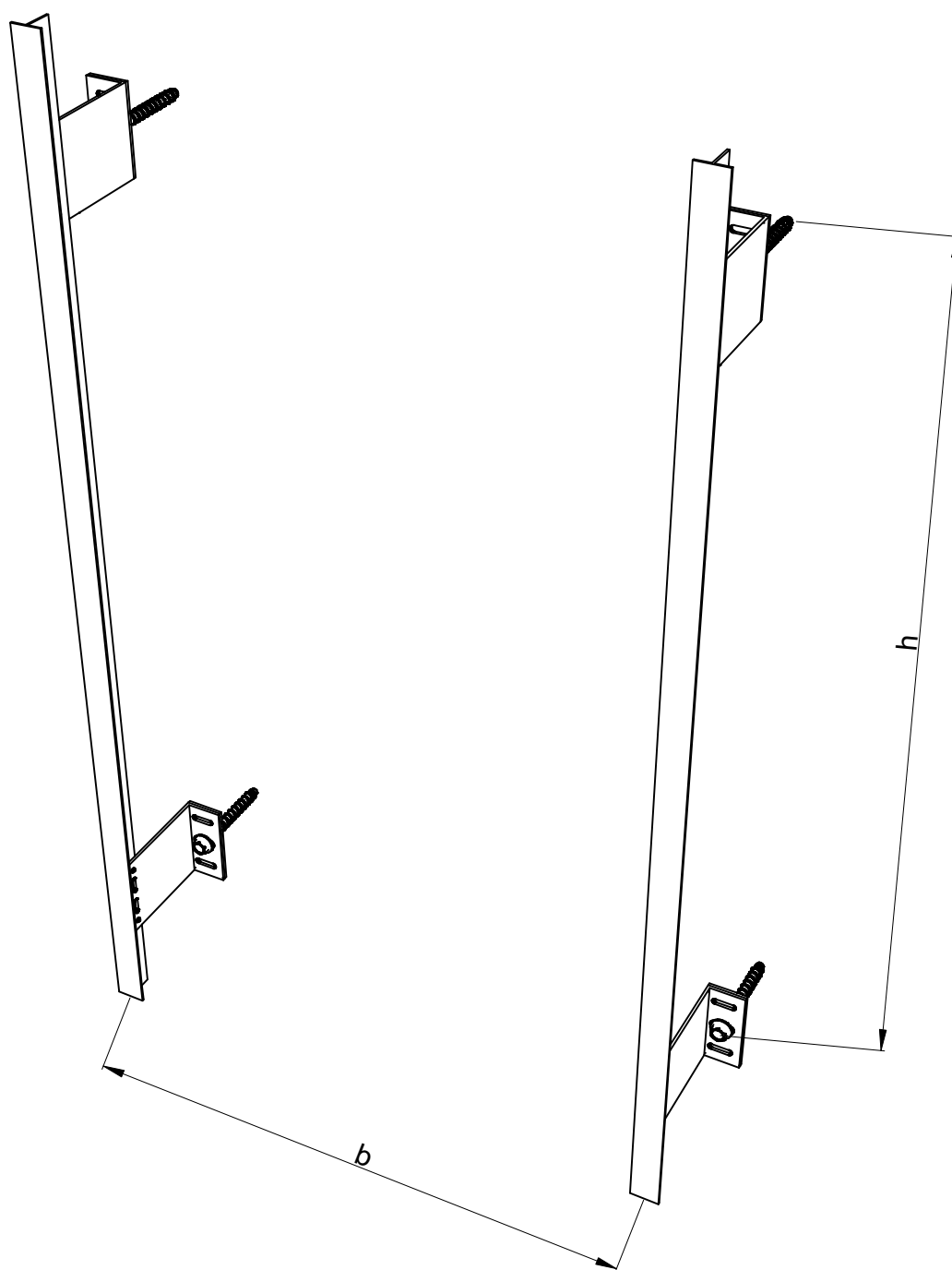


Vertikalni presek
Vertical section

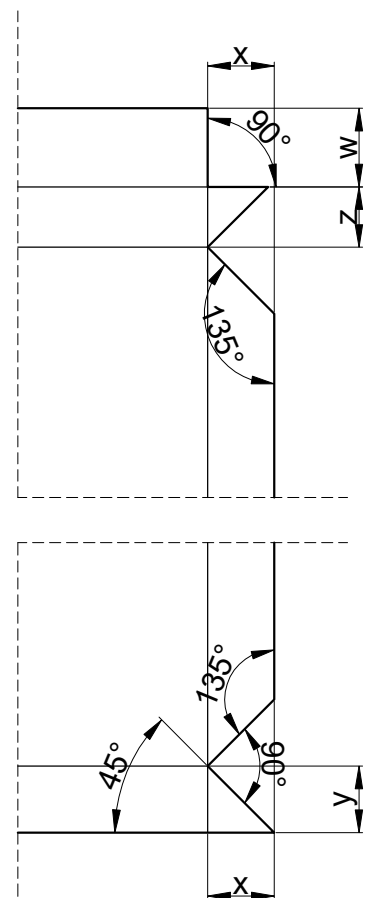
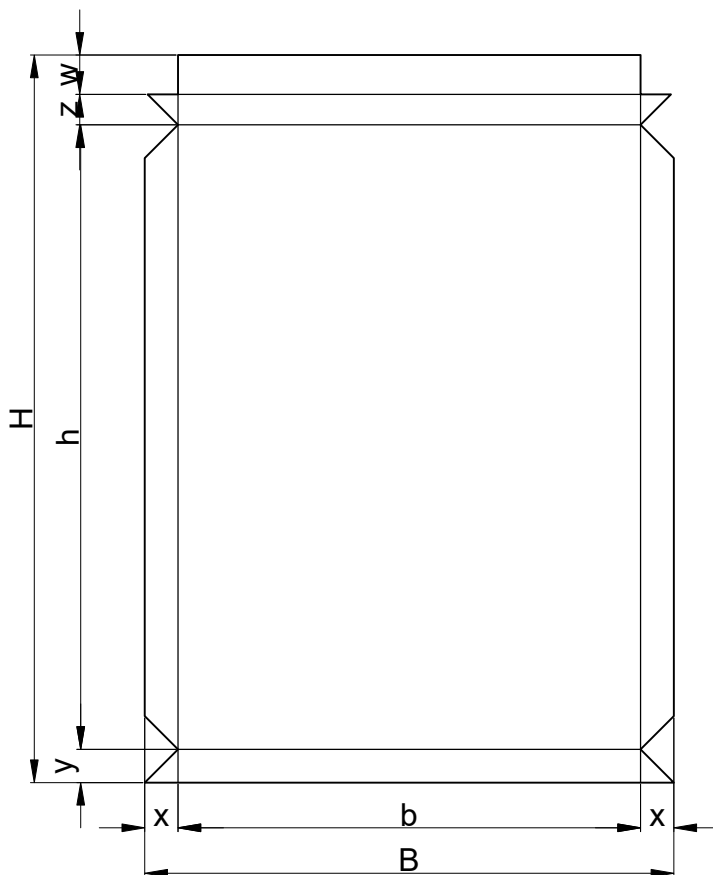








b, h - prema statičkom proračunu, ali ne više od 1200mm
b, h - according to structural analysis, but no more than 1200mm



b	x	h	y	z	w
	22		22	28	26

(mm)

B	H
$b + 2x$	$h + y + z + w$

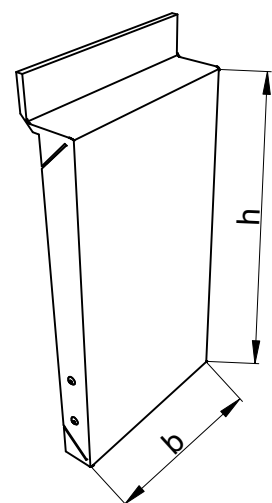
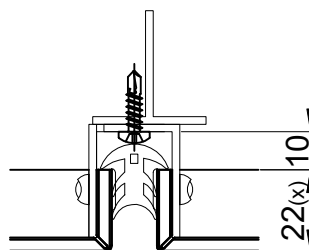
(mm)

b - projektovana vidna širina kasete 100-1200
b - designed visible cassette width 100-1200

h - projektovana vidna visina kasete 200-1600
h - designed visible cassette height 200-1600

B - ukupna širina razvijene mreže kasete
B - developed cassette scheme total width

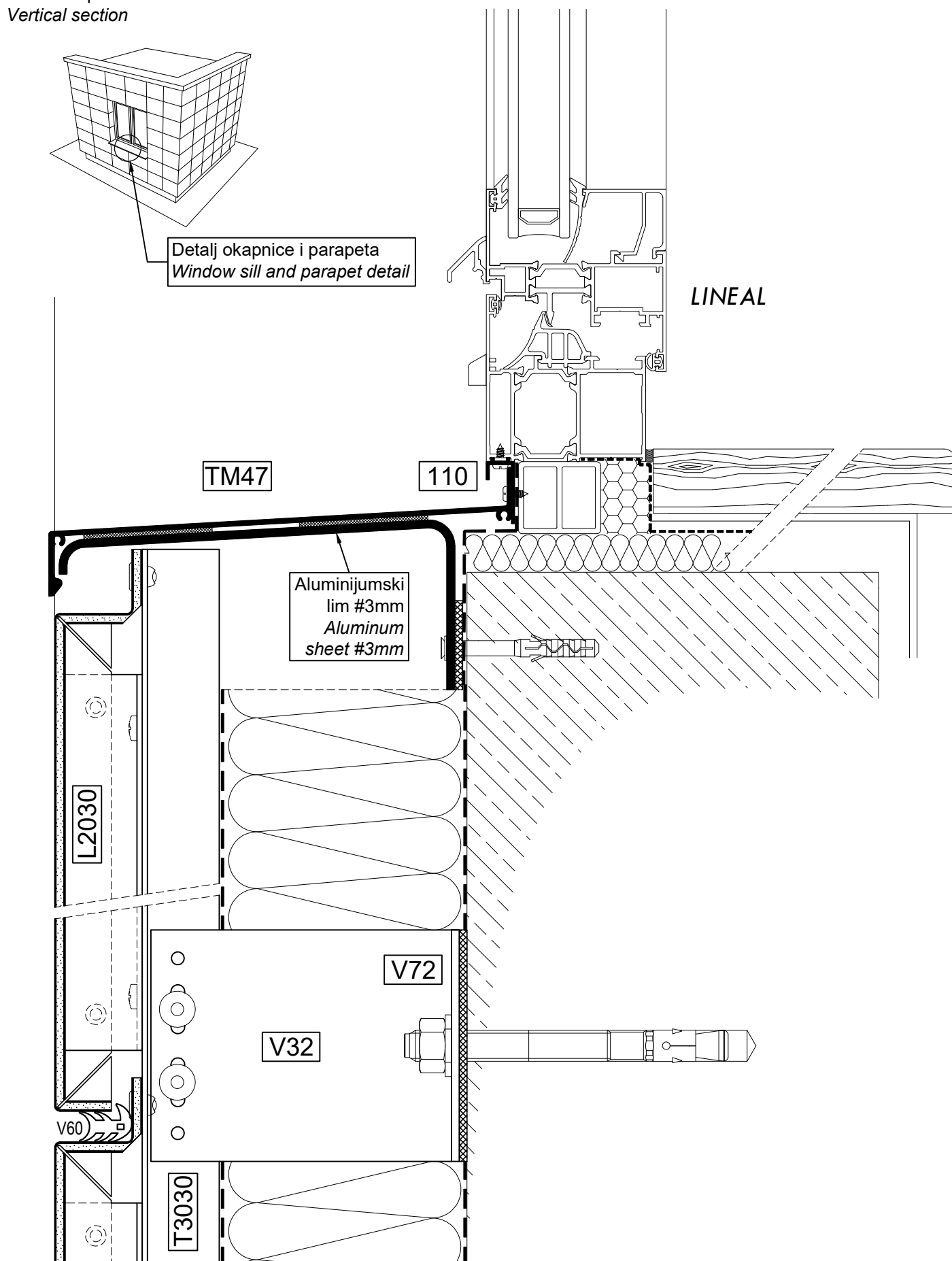
H - visina razvijene mreže kasete
H - developed cassette scheme total height



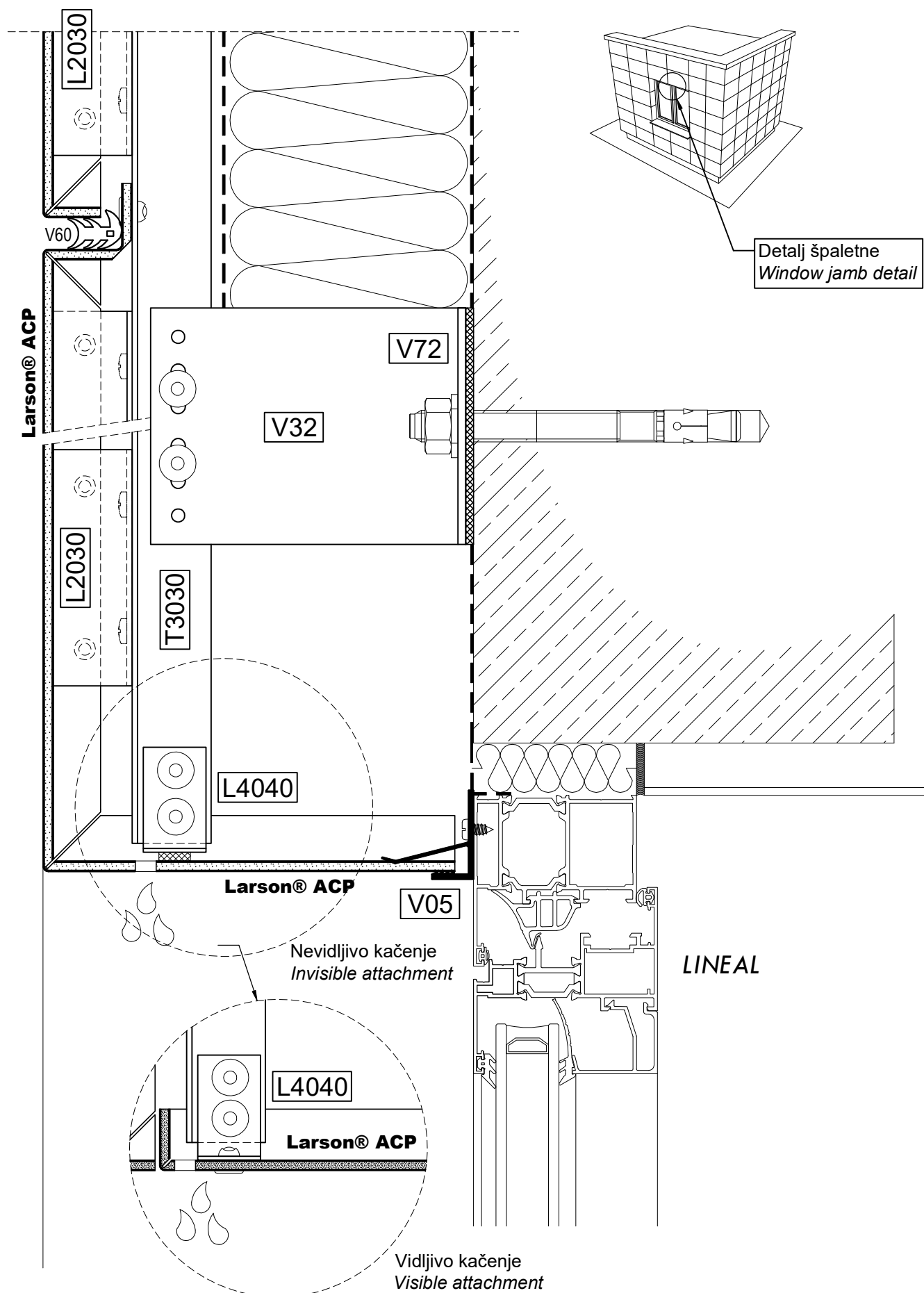
x, y, z, w - prikazane dimenzije su preporuka projektanta sistema, ali se mogu menjati u zavisnosti od potreba konkretnog projekta (način fiksiranja i vrsta primenjenih spojnih sredstava, projektovana dubina kasete itd.)

x, y, z, w - listed values are as per system designer's recommendation, but can be modified depending on needs of specific project (fixing method and type of applied fasteners, designed cassette depth etc.)

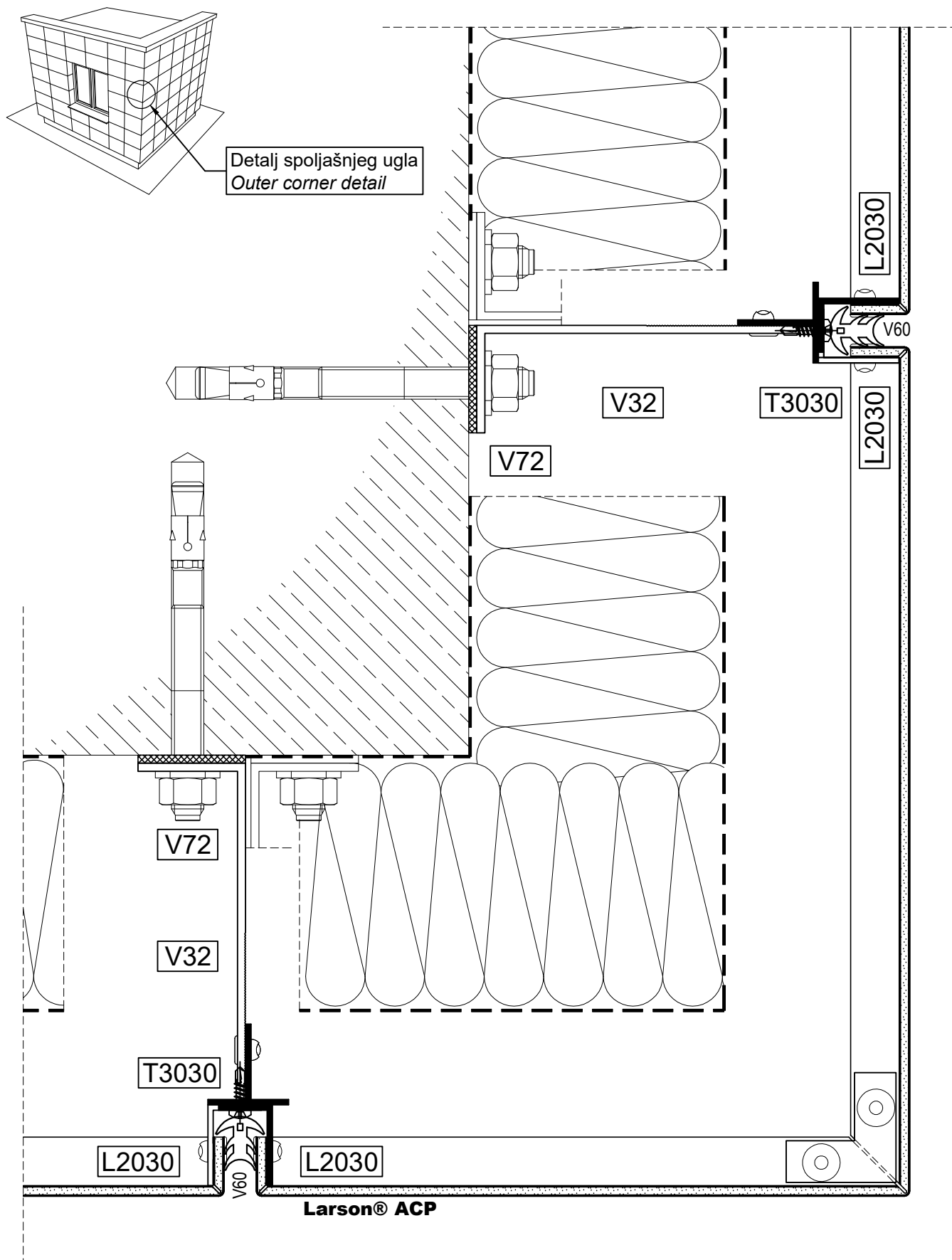
Vertikalni presek
Vertical section



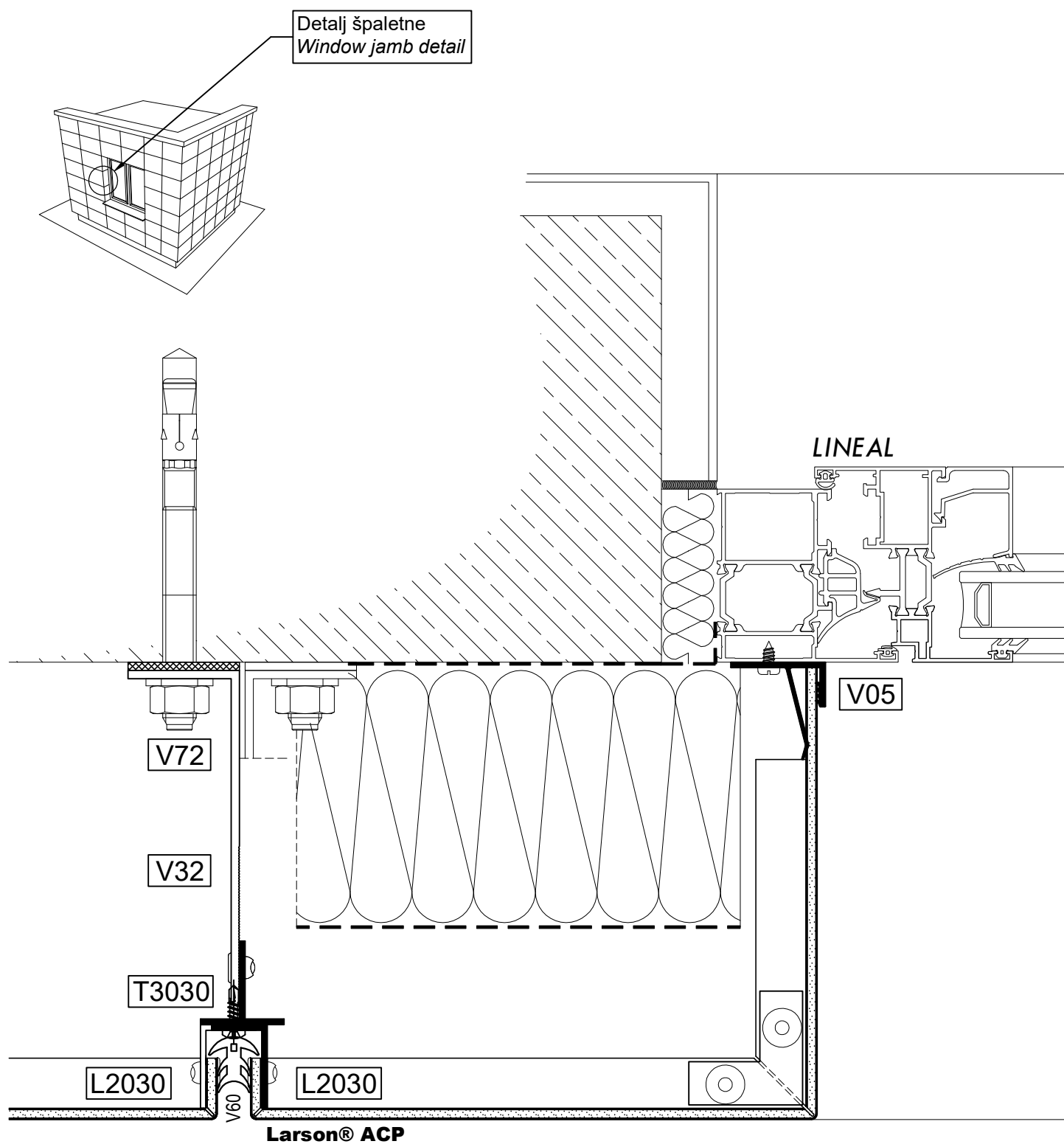
Vertikalni presek
Vertical section



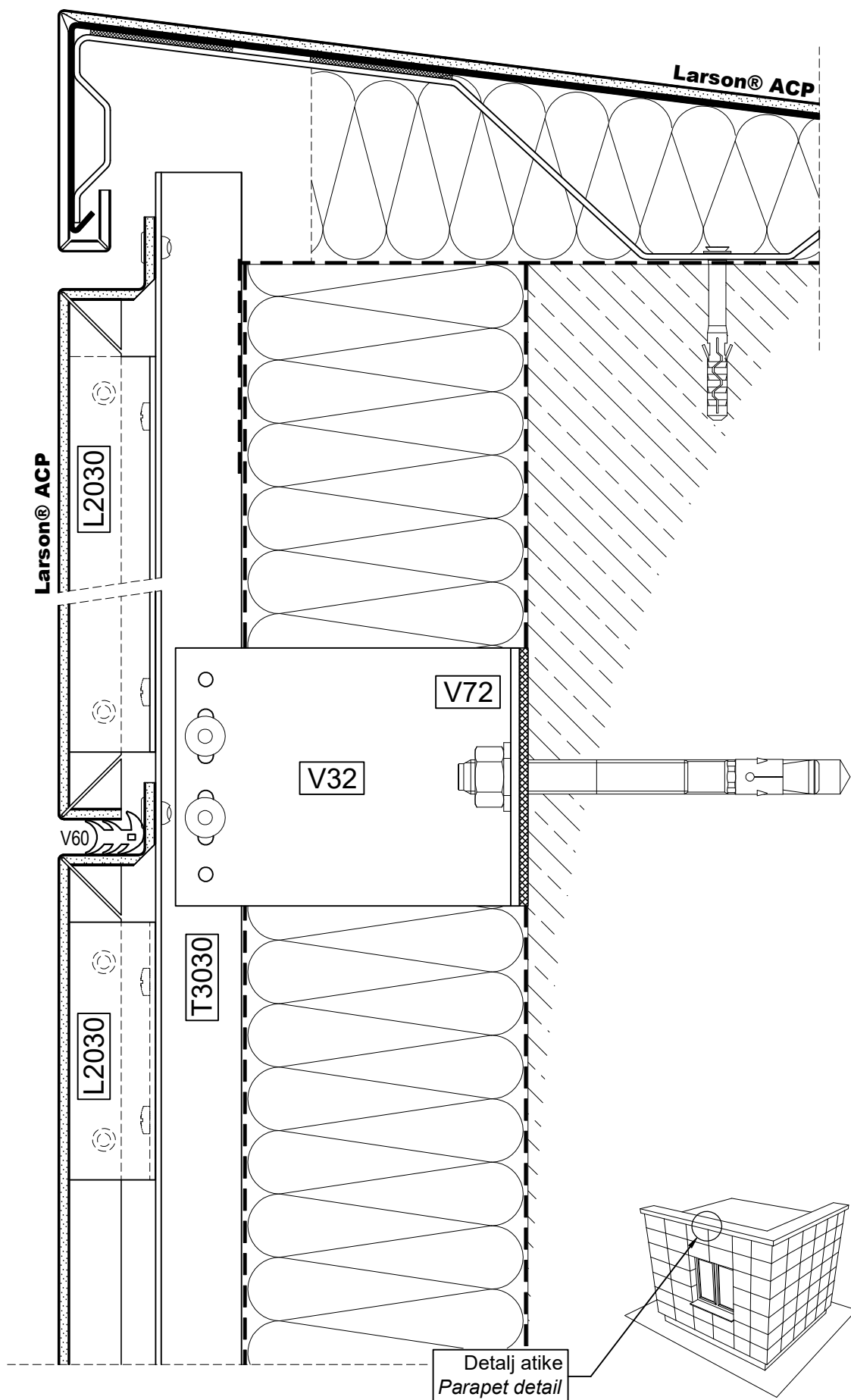
Horizontalni presek
Horizontal section



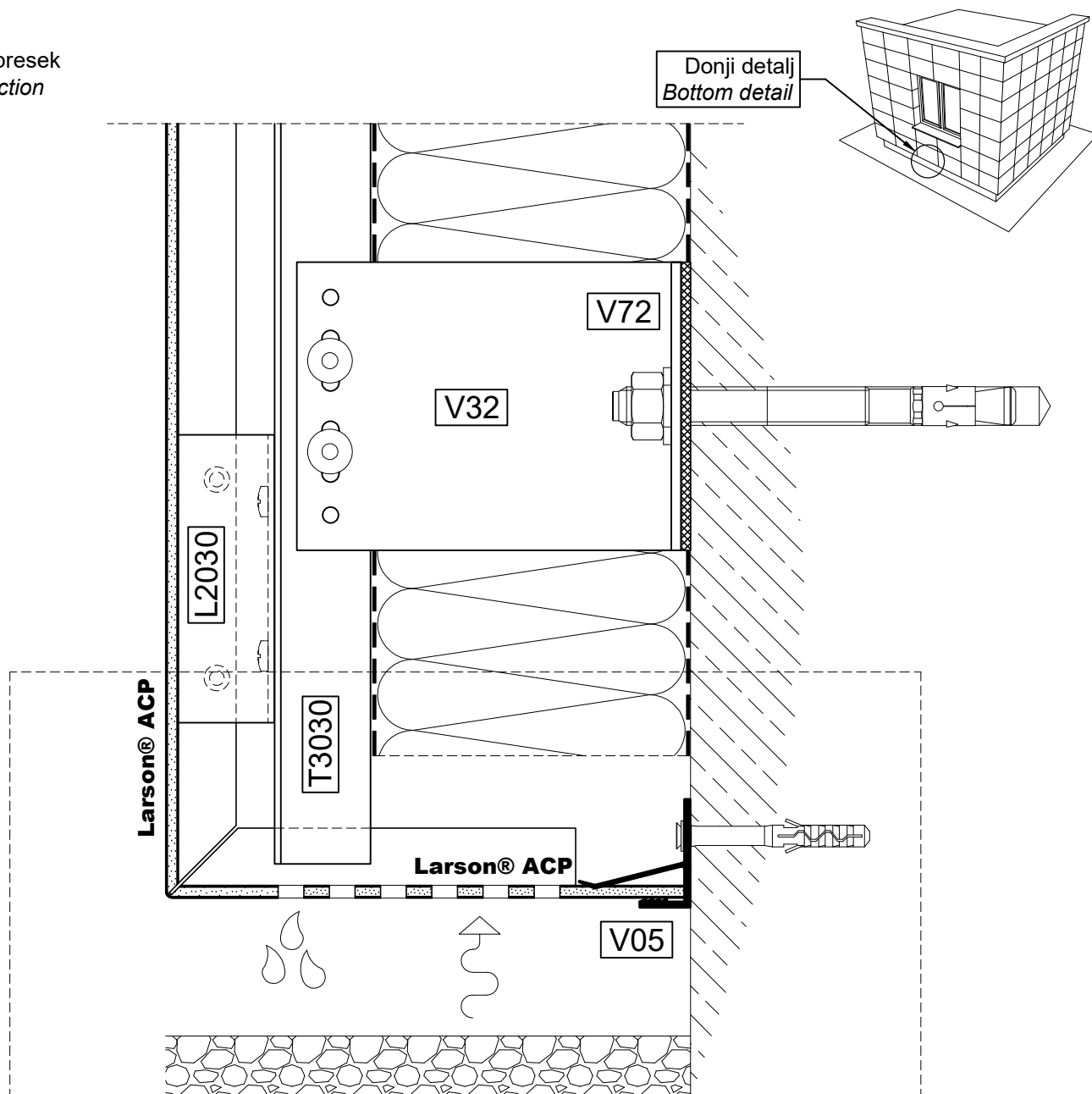
Horizontalni presek
Horizontal section



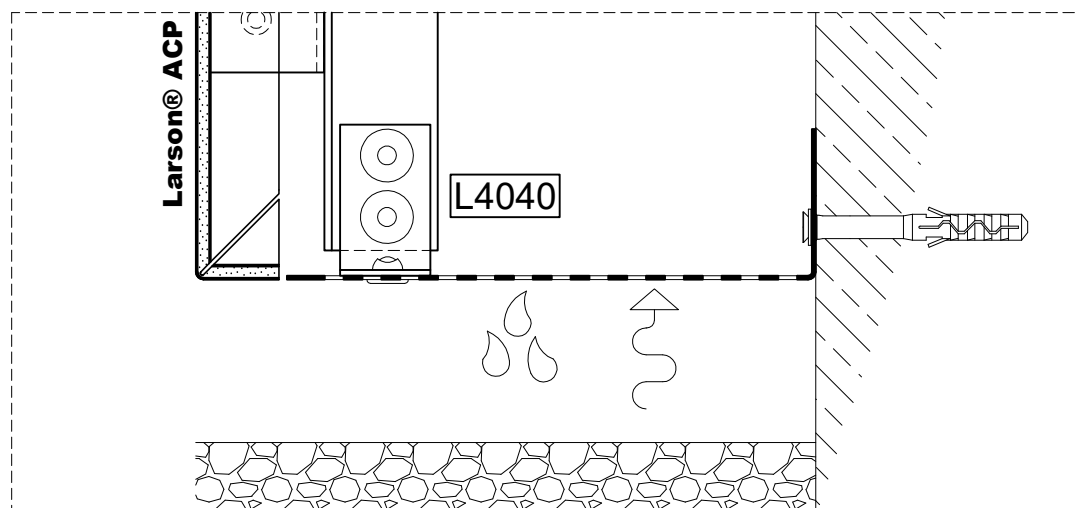
Vertikalni presek
Vertical section



Vertikalni presek
Vertical section

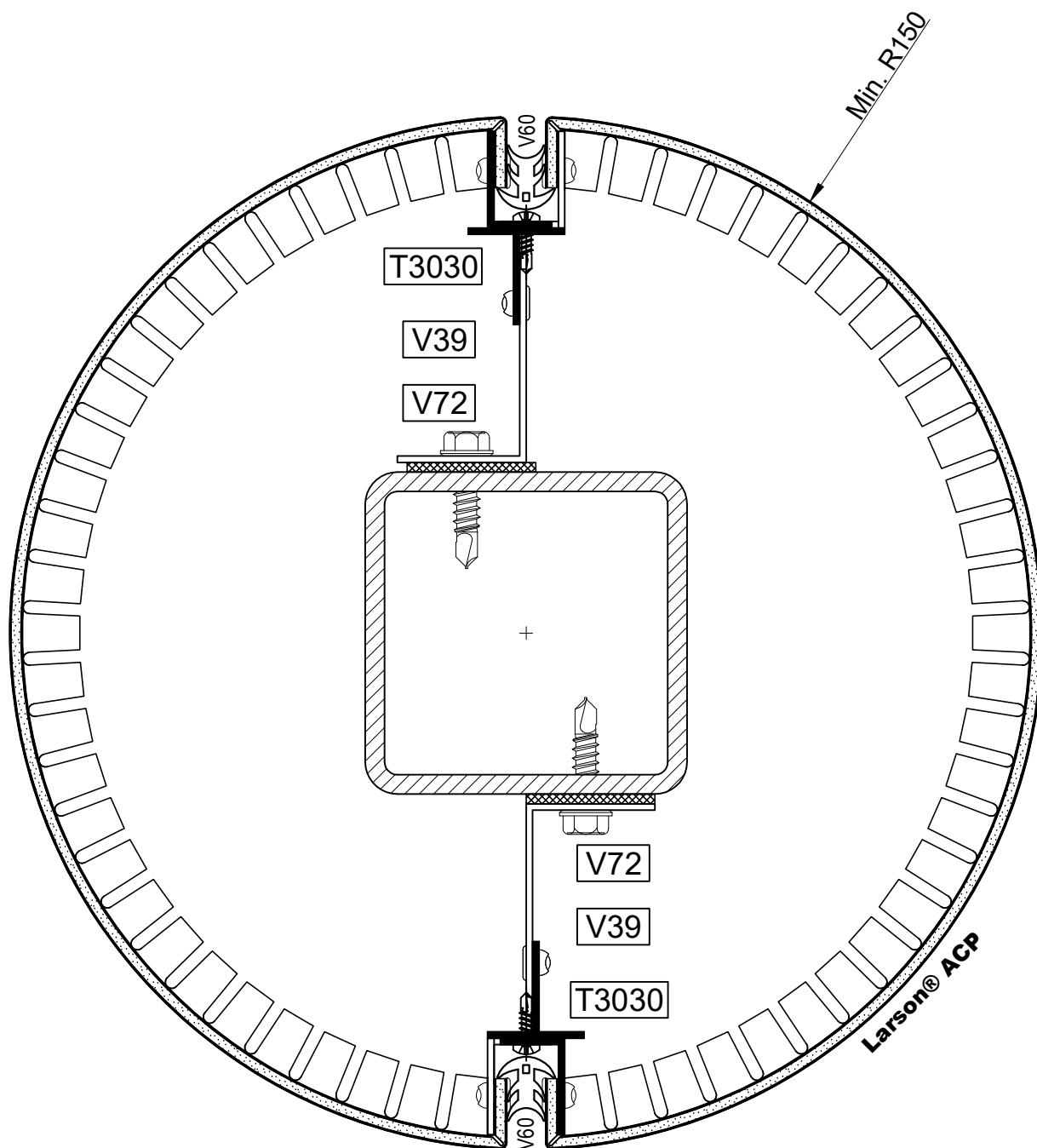


Opcija drenaže: perforirani aluminijumski kompozitni panel
Drainage option: perforated aluminium composite panel



Opcija drenaže: perforirani aluminijumski lim
Drainage option: perforated aluminium sheet

Horizontalni presek
Horizontal section



Sistem
System

V  **NT** [fit]



TEHNIČKI OPIS SISTEMA

Sistem aluminijumske potkonstrukcije koji je namenjen prihvatanju posebno formiranih i pripremljenih kaseta. Njihova montaža je izuzetno jednostavna, zbog lako uklopljivog sklopa, koji čine dva posebno projektovana aluminijumska profila, koji idealno naležu jedan na drugi. Prepoznatljiv je po elegantnim fugnama na fasadi, širine svega 9mm, a ukoliko se plastificira prihvatni profil, fuga može biti i u boji. Deo pripreme se vrši u samoj radionici, a postupak ugradnje je suvi. Sistem Fit idealan je za horizontalnu orijentaciju kaseta na fasadi.

Postupak montaže startuje sa razmeravanjem i obeležavanjem pozicija nosećih profila.

a) Ekstrudirani noseći profili postavljaju se na objekat u projektovanom rasteru. Maksimalna preporučena dužina profila, kao i rastojanje između susednih vertikala, određuju se statičkim proračunom. Dužina profila ne može biti veća od 3500 mm, dok maksimalno rastojanje između susednih nosećih profila ne sme biti više od 1200 mm.

b) Sistem Fit omogućava udaljenje fasadne obloge od zida od 64mm do 410mm.

c) Primarna nosiva konstrukcija može biti vertikalno ili horizontalno orijentisana i sastoji se od namenskih kotvi i nosivih profila (T, L ili Q) koji omogućavaju fino podešavanje nosećih profila u svim pravcima, kako bi se dobila potpuno ravna površina fasade. Njihov spoj može biti fiksni ili dilatirajući zahvaljujući integrisanom rešenju koje omogućuje obe opcije, a spajanje se izvodi pomoću pop-zakivaka ili samorezujućim nerđajućim vijcima sa osiguranjem spoja. Na primarnu nosivu konstrukciju se montiraju sekundarni horizontalni noseći profili (kat br. V02). U slučaju zahteva za prekidom termo mosta, ispod kotvi se montiraju specijalno dizajnirane plastične podloške.

d) Fasadni paneli se obrađuju na CNC obradnom centru u radioničkim uslovima (sečenjem na meru i odgovarajućim žljebovanjem), a zatim tako obrađeni paneli savijanjem formiraju kasete. Profili za fiksiranje kaseta na noseću konstrukciju (kat br. V03) se seku na odgovarajuću meru i nituju za kasete.

e) Pripremljene kasete se montiraju na fasadu sa spojnom gumom (kat br. V62) između profila za fiksiranje kaseta i nosećih horizontalnih profila. U ovom sistemu predviđena je fuga od 9mm, dok profili vidljivi kroz nju mogu biti plastificirani u željenu boju radi postizanja različitih efekata.

* ove dimenzije podržane su standardnim VENT sistemskim kotvama, za veća udaljenja pregledajte tehnički katalog (sekcije 5.19-5.24) i TMTP katalog



TECHNICAL SYSTEM DESCRIPTION

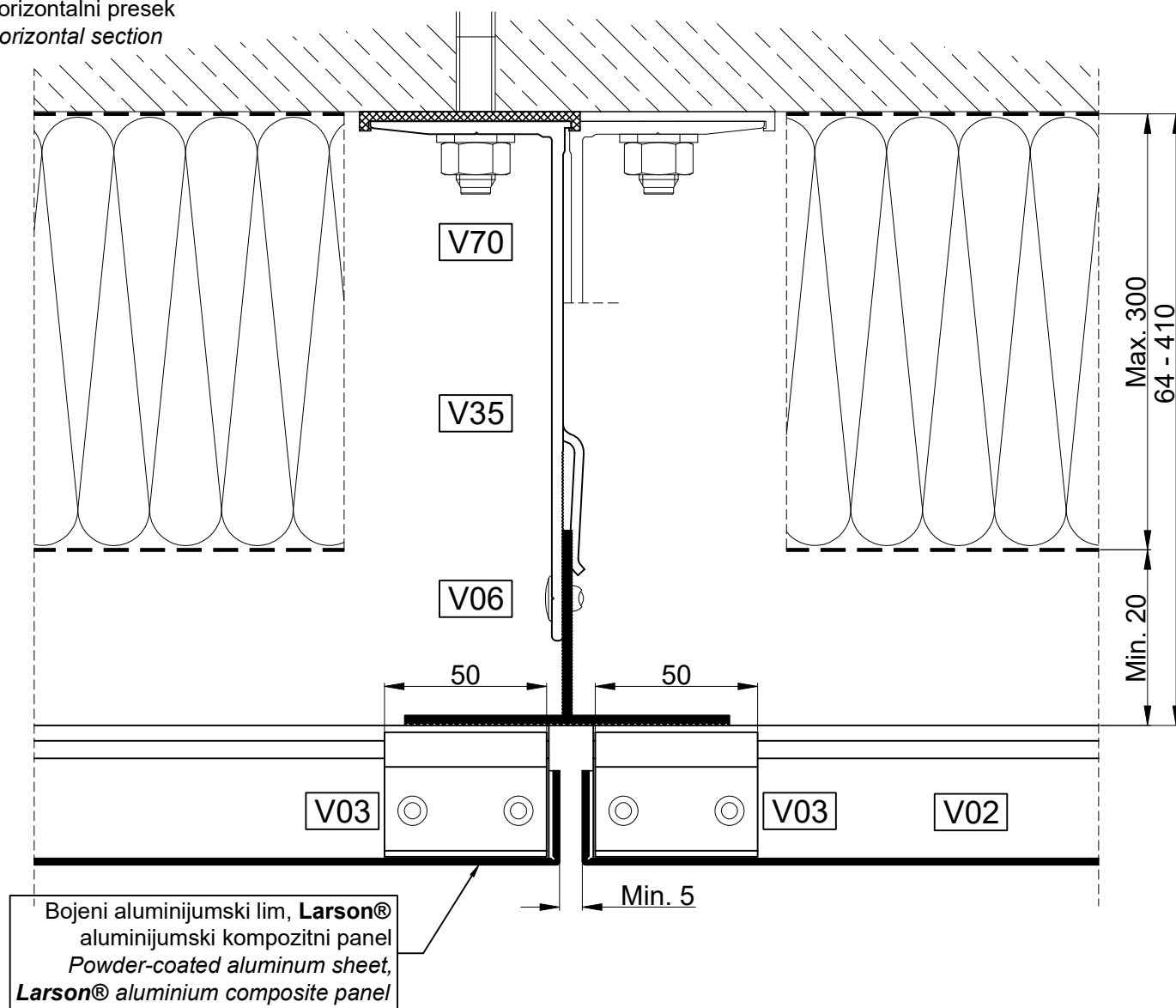
Aluminum substructure system designed for the installation of specially formed and prepared cassettes. Installation is exceptionally simple due to an easily interlocking assembly composed of two specially designed aluminum profiles that fit precisely into one another. The system is characterized by elegant façade panel gaps with a width of only 9 mm; if the receiving profile is powder-coated, the panel gap can also be color-matched. Part of the preparation is carried out in workshop conditions, and the installation process is dry. The Fit system is ideal for horizontal cassette orientation on the façade.

The installation process begins with surveying and marking the positions of the load-bearing profiles.

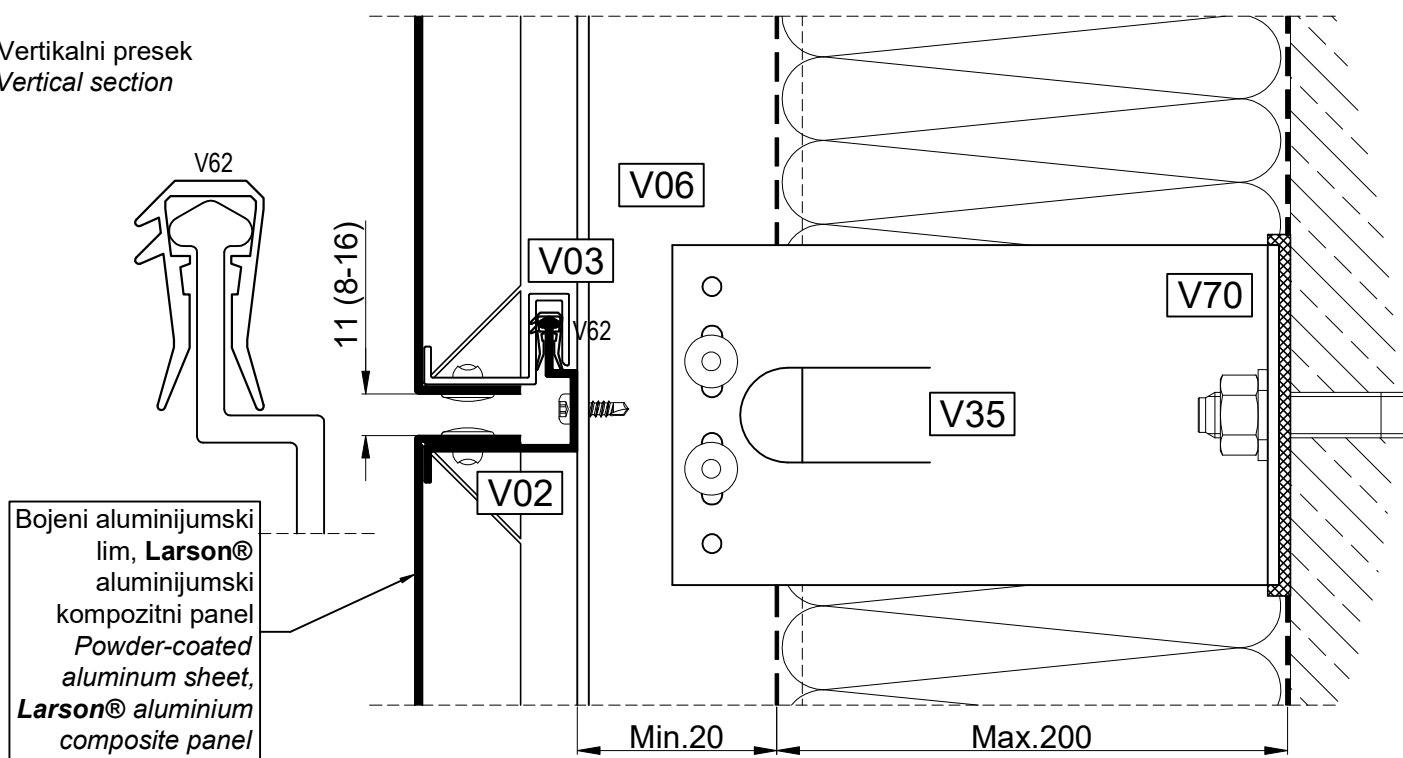
- a) Extruded load-bearing profiles are installed on the building according to the designed grid. The maximum recommended profile length and the spacing between adjacent vertical profiles are determined by static calculations. The profile length must not exceed 3500 mm, while the maximum spacing between adjacent load-bearing profiles must not exceed 1200 mm.
- b) The Fit system allows the façade cladding to be offset from the wall within a range of 64 mm to 410 mm*.
- c) The primary load-bearing substructure may be vertically or horizontally oriented and consists of dedicated anchors and load-bearing profiles (T, L, or Ω) that allow fine adjustment of the profiles in all directions, ensuring a perfectly planar façade surface. The connection can be either fixed or sliding, thanks to an integrated solution that allows both options. Connections are made using pop rivets or self-drilling stainless steel screws with secured joints. Secondary horizontal load-bearing profiles (cat. no. V02) are installed onto the primary substructure. Where thermal bridge interruption is required, specially designed plastic spacers are installed beneath the anchors.
- d) Façade panels are processed on a CNC machining center under workshop conditions (cut to size and grooved as required). The processed panels are then bent to form cassettes. Profiles for fixing the cassettes to the load-bearing structure (cat. no. V03) are cut to the required length and riveted to the cassettes.
- e) The prepared cassettes are installed on the façade with a connecting rubber gasket (cat. no. V62) placed between the cassette fixing profiles and the horizontal load-bearing profiles. The system provides for a 9 mm panel gap, with visible profiles optionally powder-coated in the desired color to achieve different visual effects.

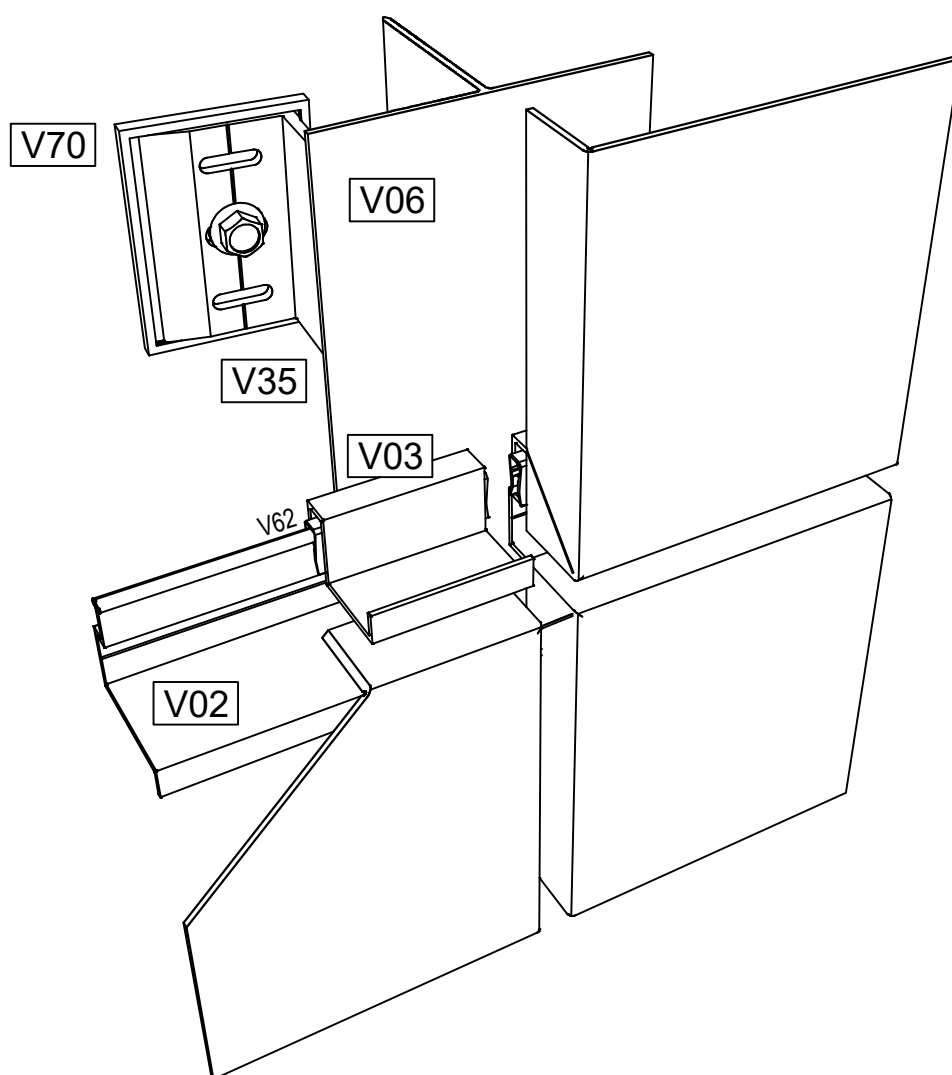
* These dimensions are supported by standard VENT system anchors. For larger offsets, please refer to the technical catalogue (sections 5.19-5.24) and the TMTP catalogue.

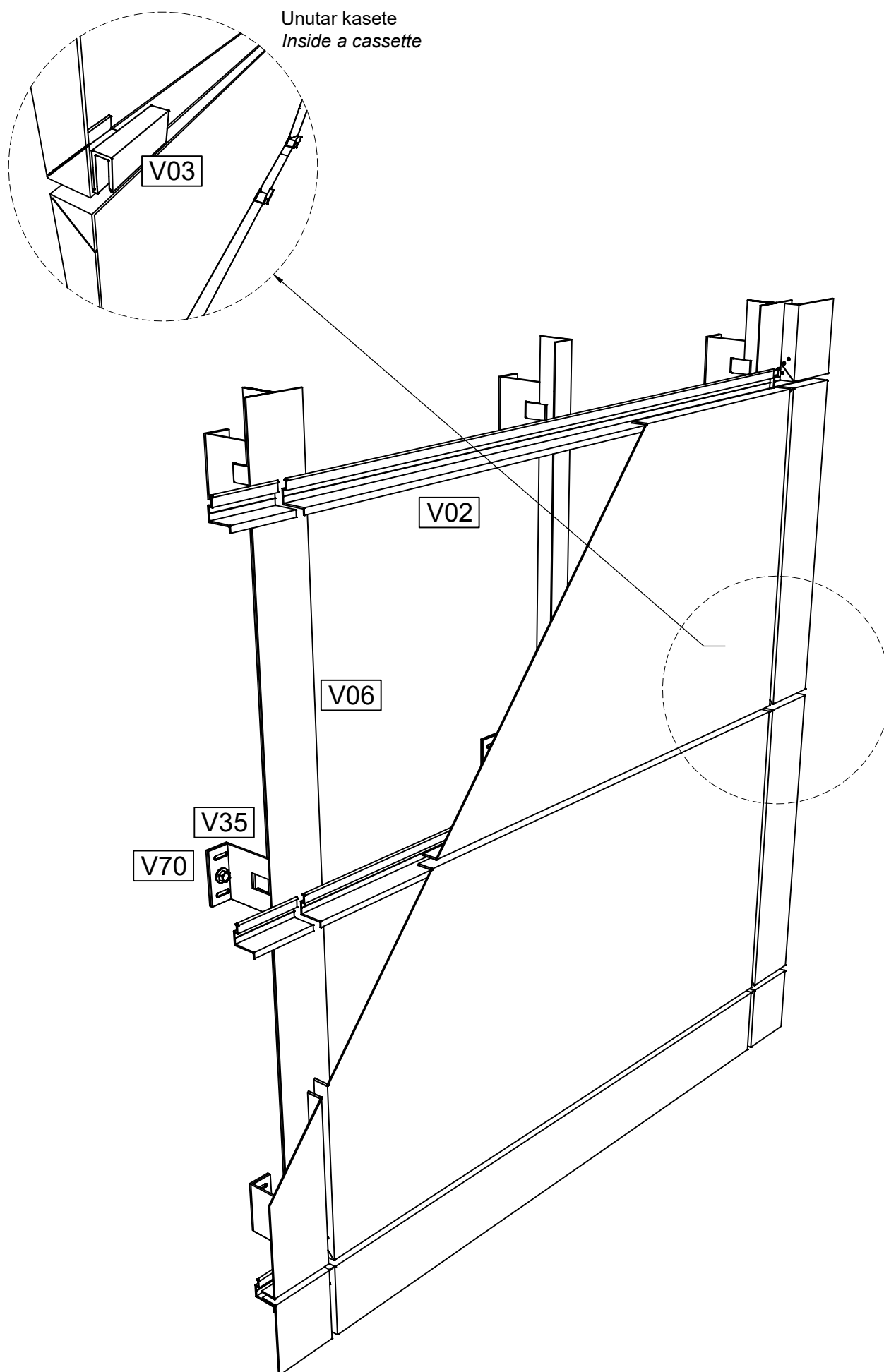
Horizontalni presek
Horizontal section



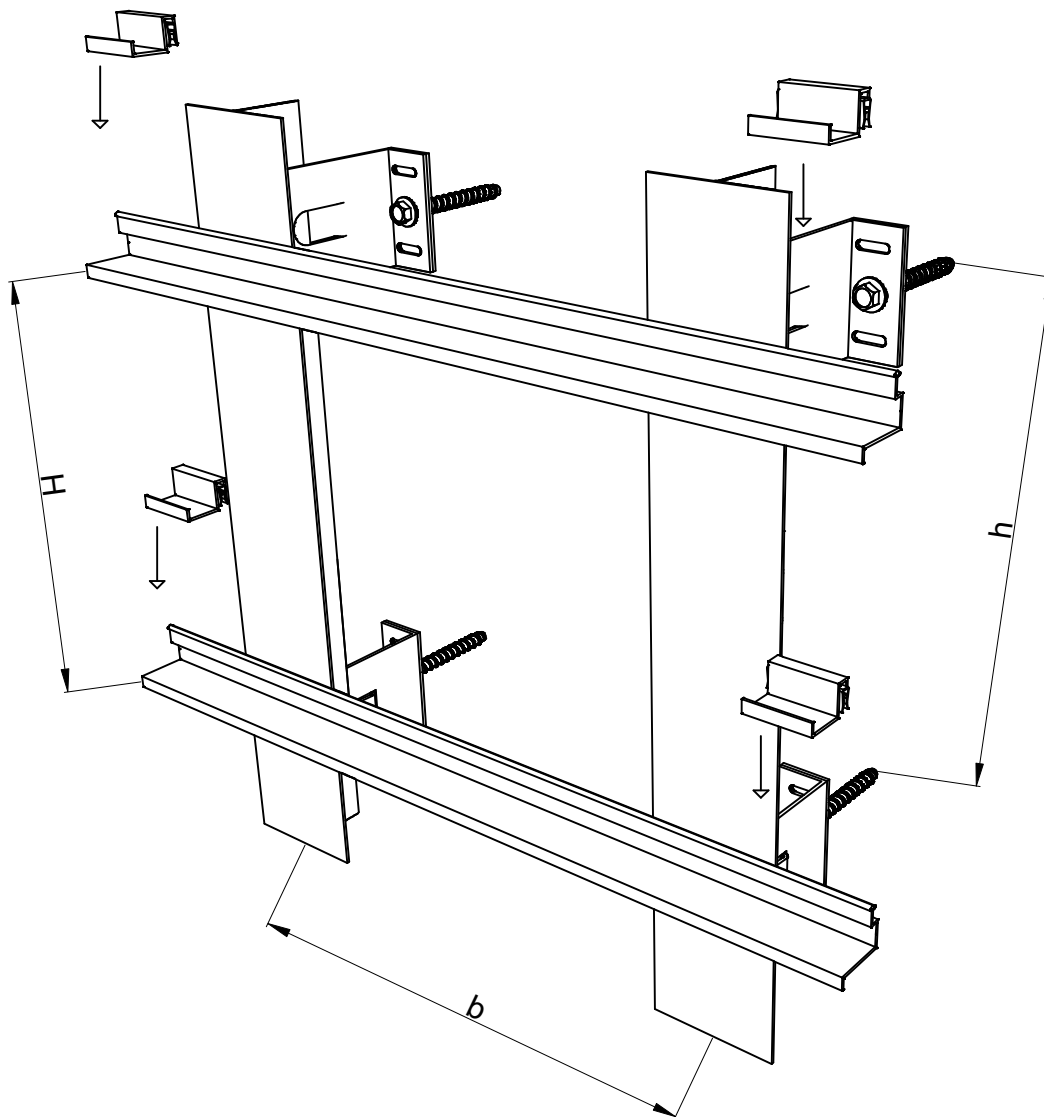
Vertikalni presek
Vertical section







Opcija: noseći vertikalni profili
Option: vertical load-bearing profiles

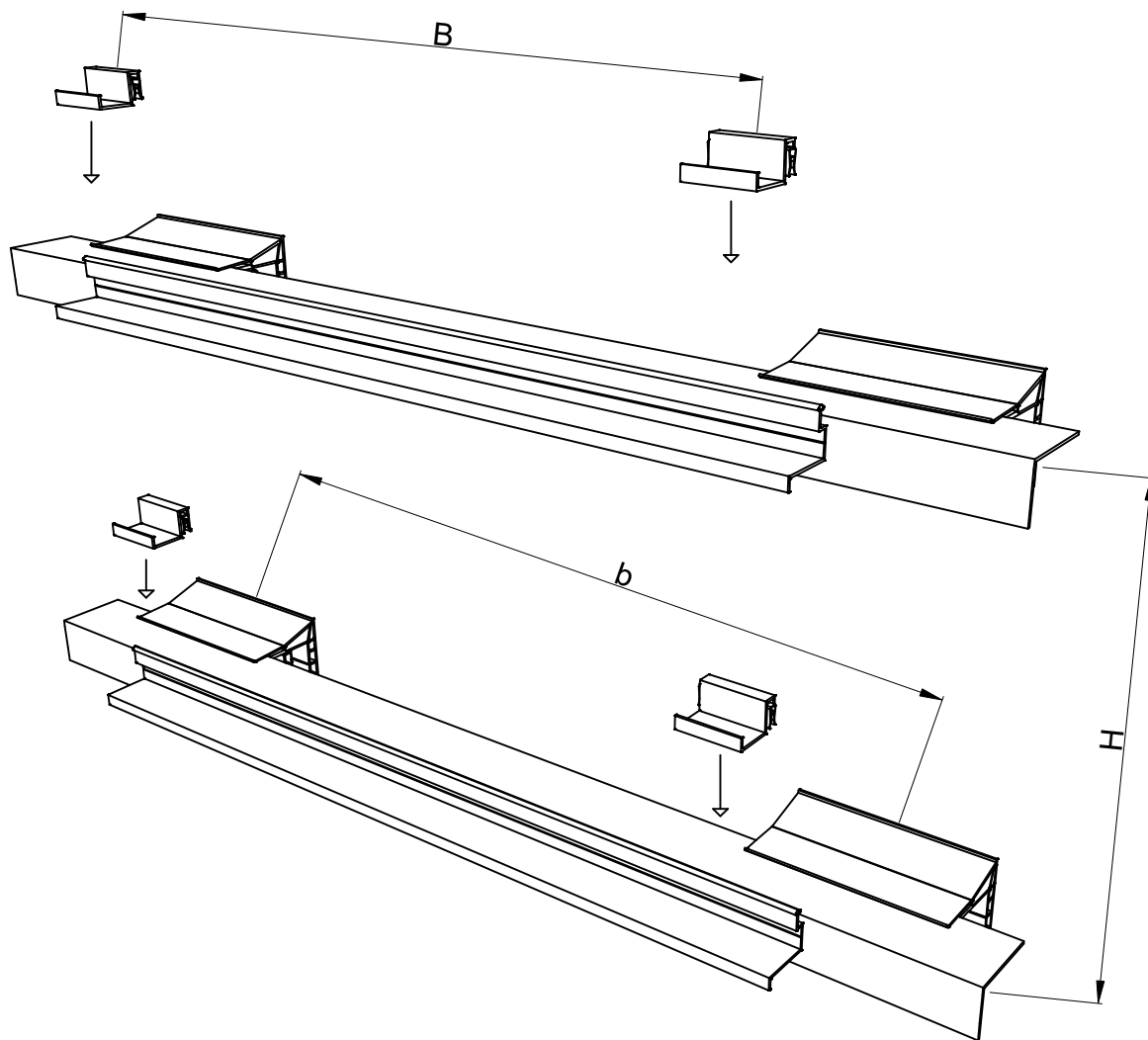


b - prema statičkom proračunu, ali ne više od 1200mm
b - according to structural analysis, but no more than 1200mm

h - prema statičkom proračunu i u zavisnosti od primenjenog materijala obloge, ali ne više od 700mm
h - according to structural analysis and depending on applied cladding material, but no more than 700mm

H - prema statičkom proračunu i u zavisnosti od primenjenog materijala obloge, ali ne više od 700mm
H - according to structural analysis and depending on applied cladding material, but no more than 700mm

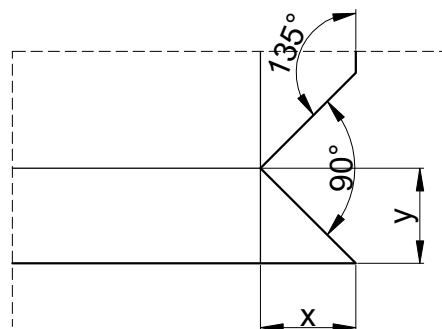
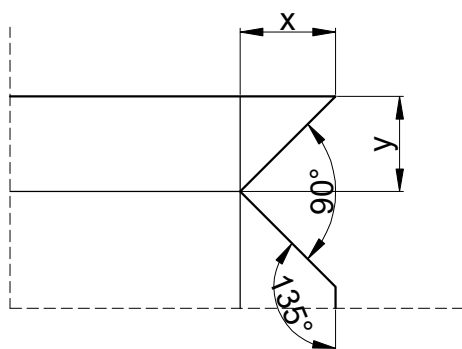
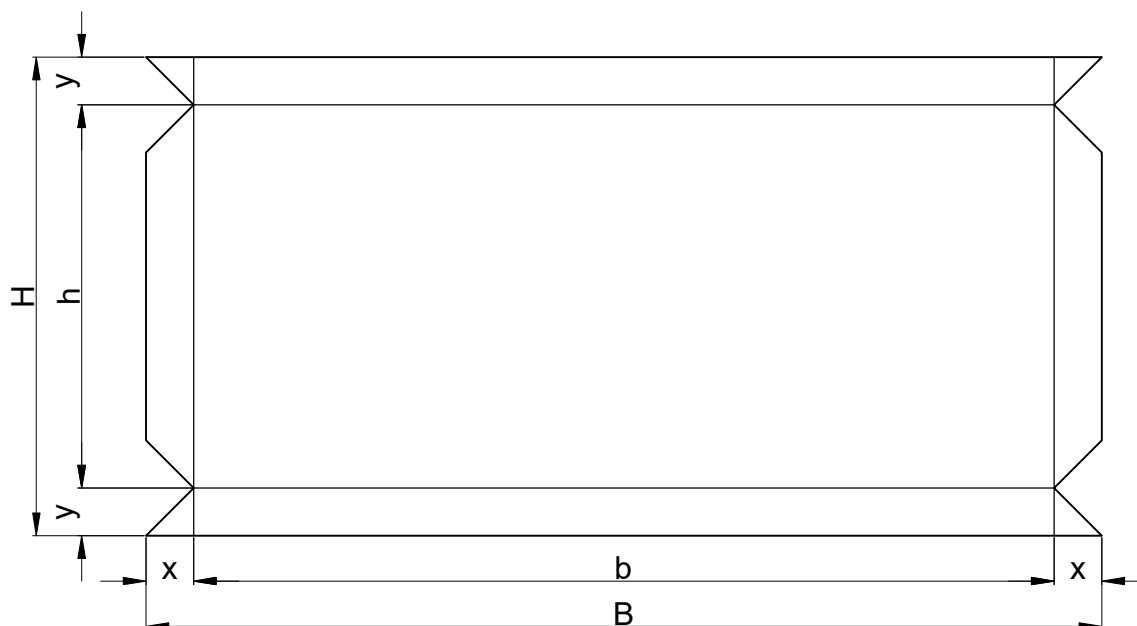
Opcija: noseći horizontalni profili
Option: horizontal load-bearing profiles



b - prema statičkom proračunu, ali ne više od 1200mm
b - according to structural analysis, but no more than 1200mm

B - prema statičkom proračunu i u zavisnosti od primenjenog materijala obloge, ali ne više od 700mm
B - according to structural analysis and depending on applied cladding material, but no more than 700mm

H - prema statičkom proračunu i u zavisnosti od primenjenog materijala obloge, ali ne više od 700mm
H - according to structural analysis and depending on applied cladding material, but no more than 700mm



b	x	h	y
	30		30

(mm)

B	H
$b + 2x$	$h + 2y$

(mm)

b - projektovana vidna širina kasete 150-2000
 b - designed visible cassette width 150-2000

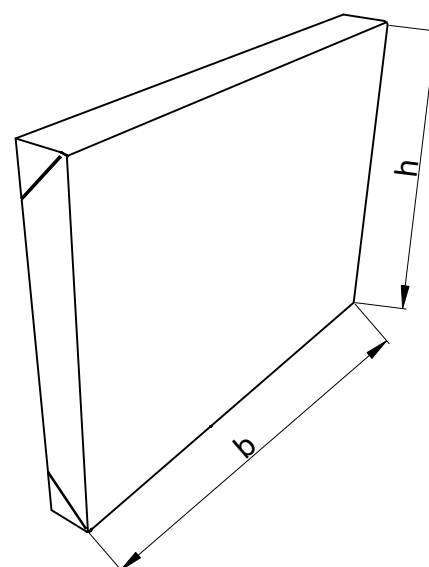
h - projektovana vidna visina kasete 100-700
 h - designed visible cassette height 100-700

B - ukupna širina razvijene mreže kasete
 B - developed cassette scheme total width

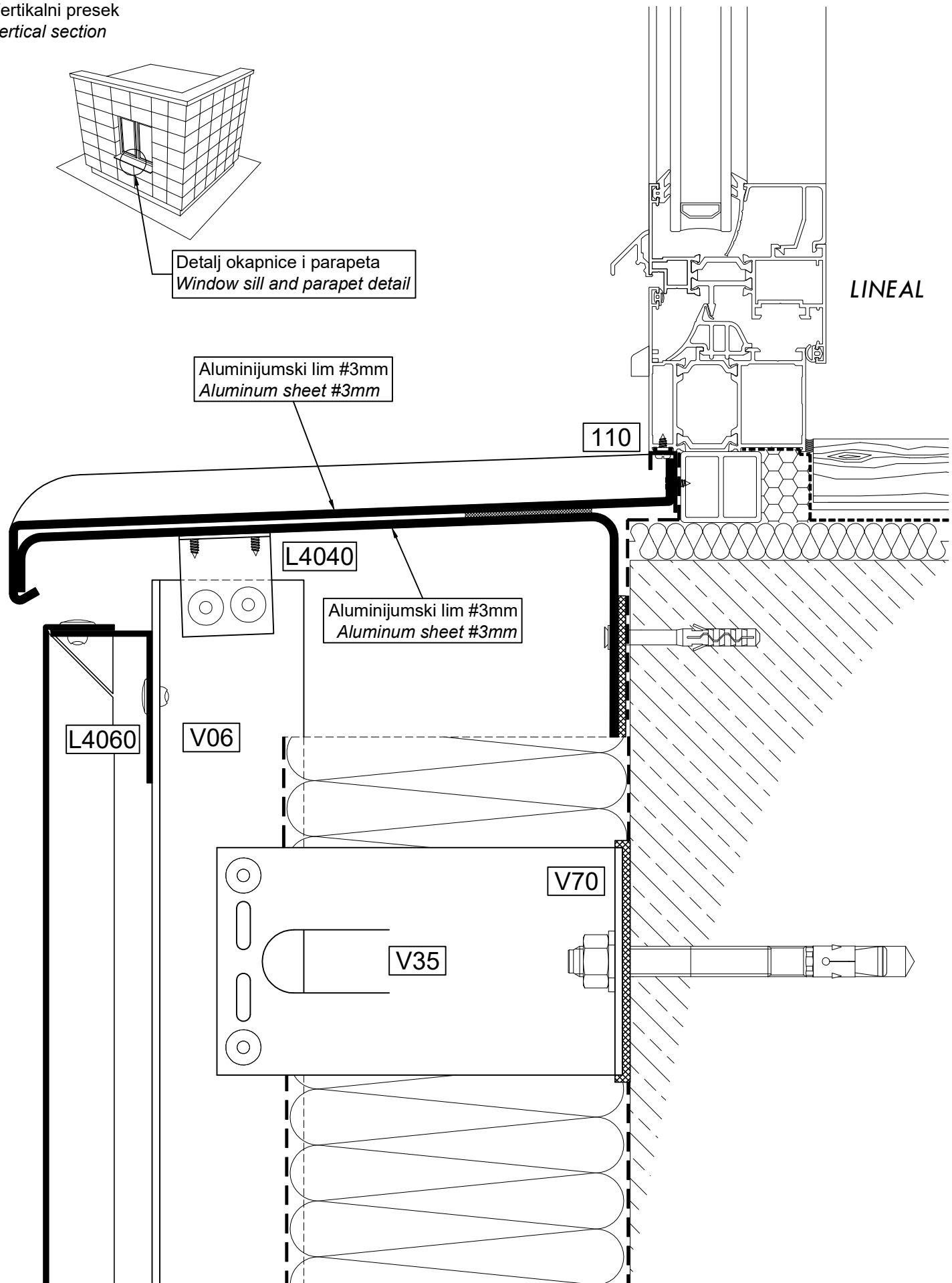
H - visina razvijene mreže kasete
 H - developed cassette scheme total height

x, y - prikazane dimenzije su preporuka projektanta sistema, ali se mogu menjati u zavisnosti od potreba konkretnog projekta (način fiksiranja i vrsta primenjenih spojnih sredstava, projektovana dubina kasete itd.)

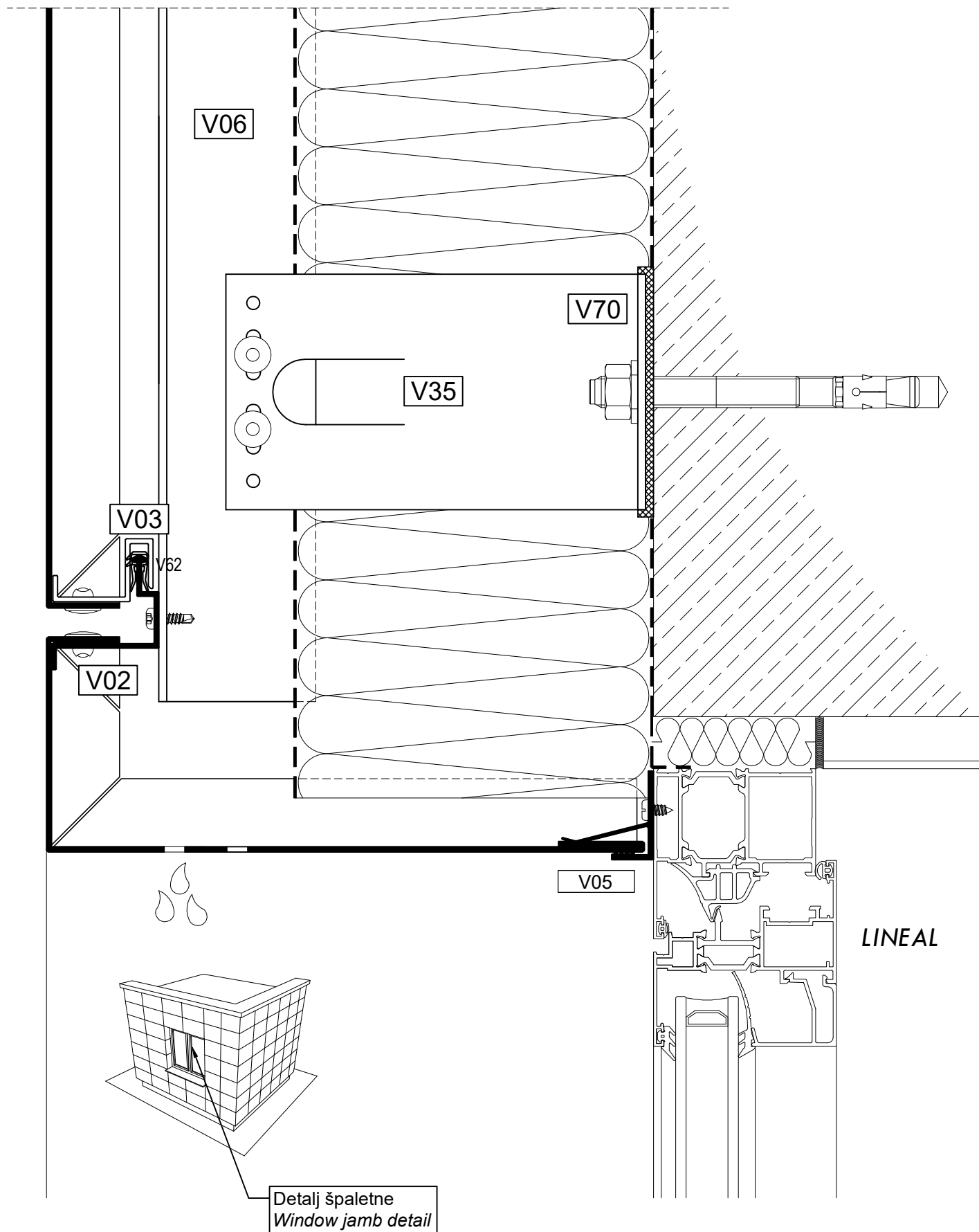
x, y - listed values are as per system designer's recommendation, but can be modified depending on needs of specific project (fixing method and type of applied fasteners, designed cassette depth etc.)



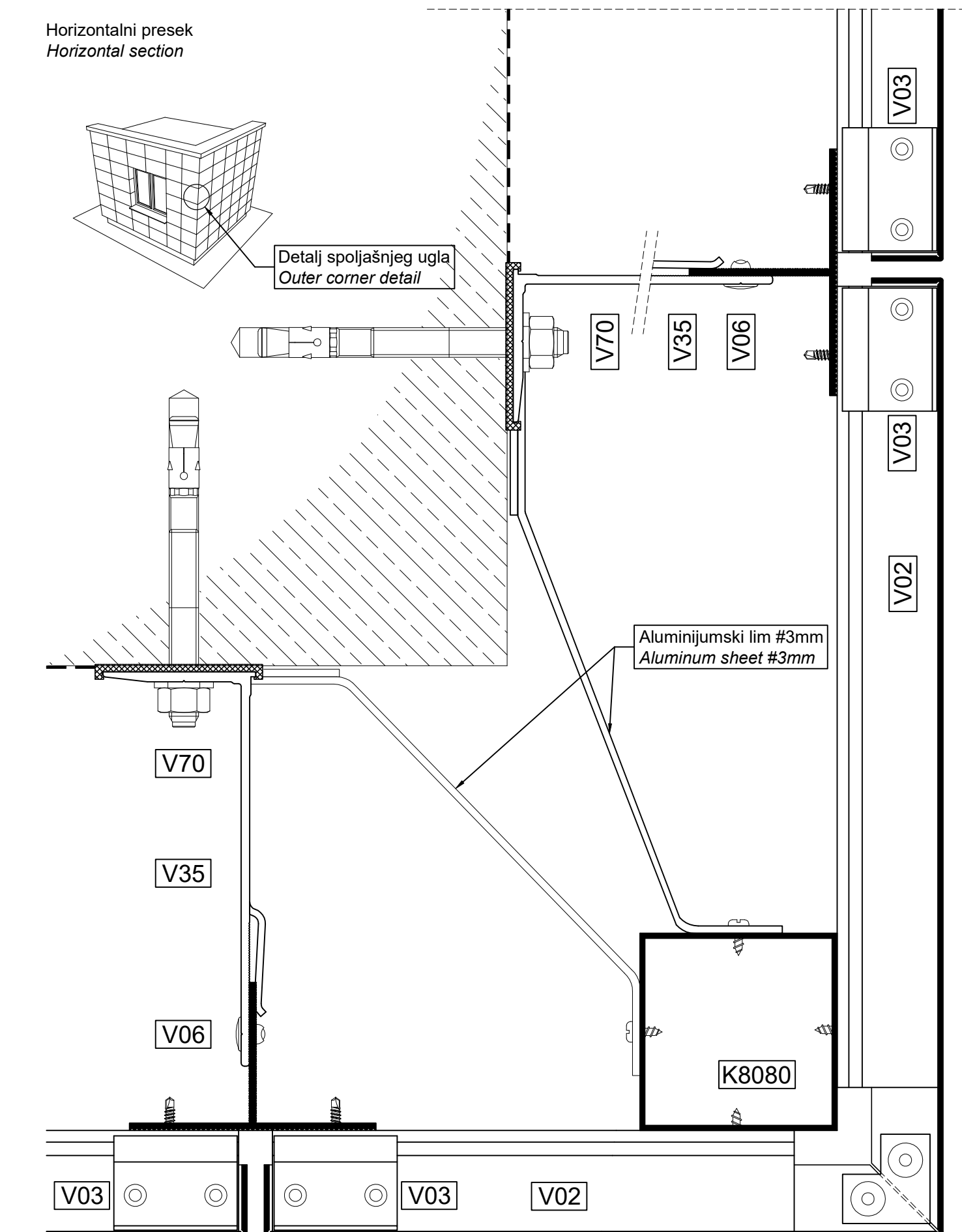
Vertikalni presek
Vertical section



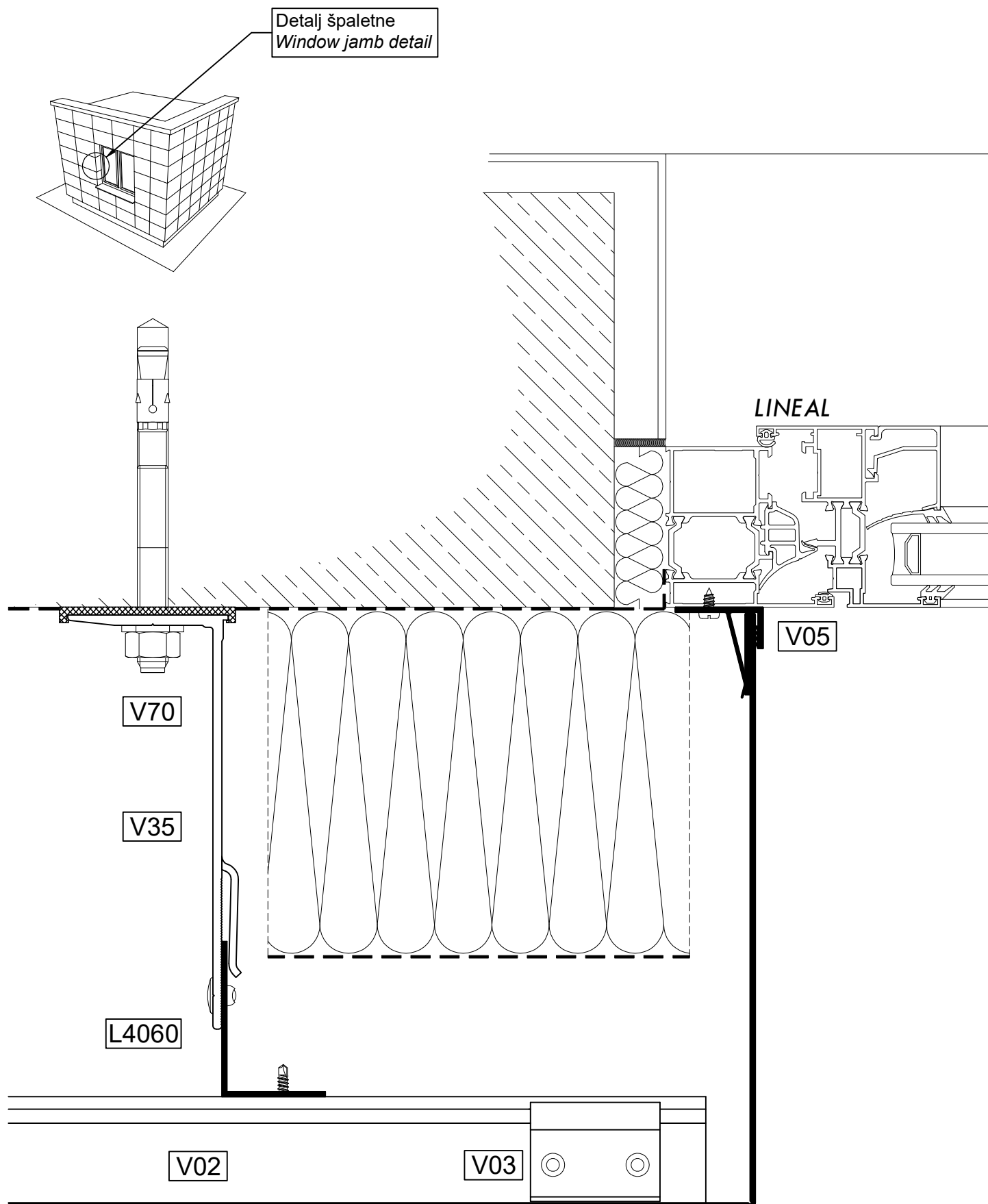
Vertikalni presek
Vertical section



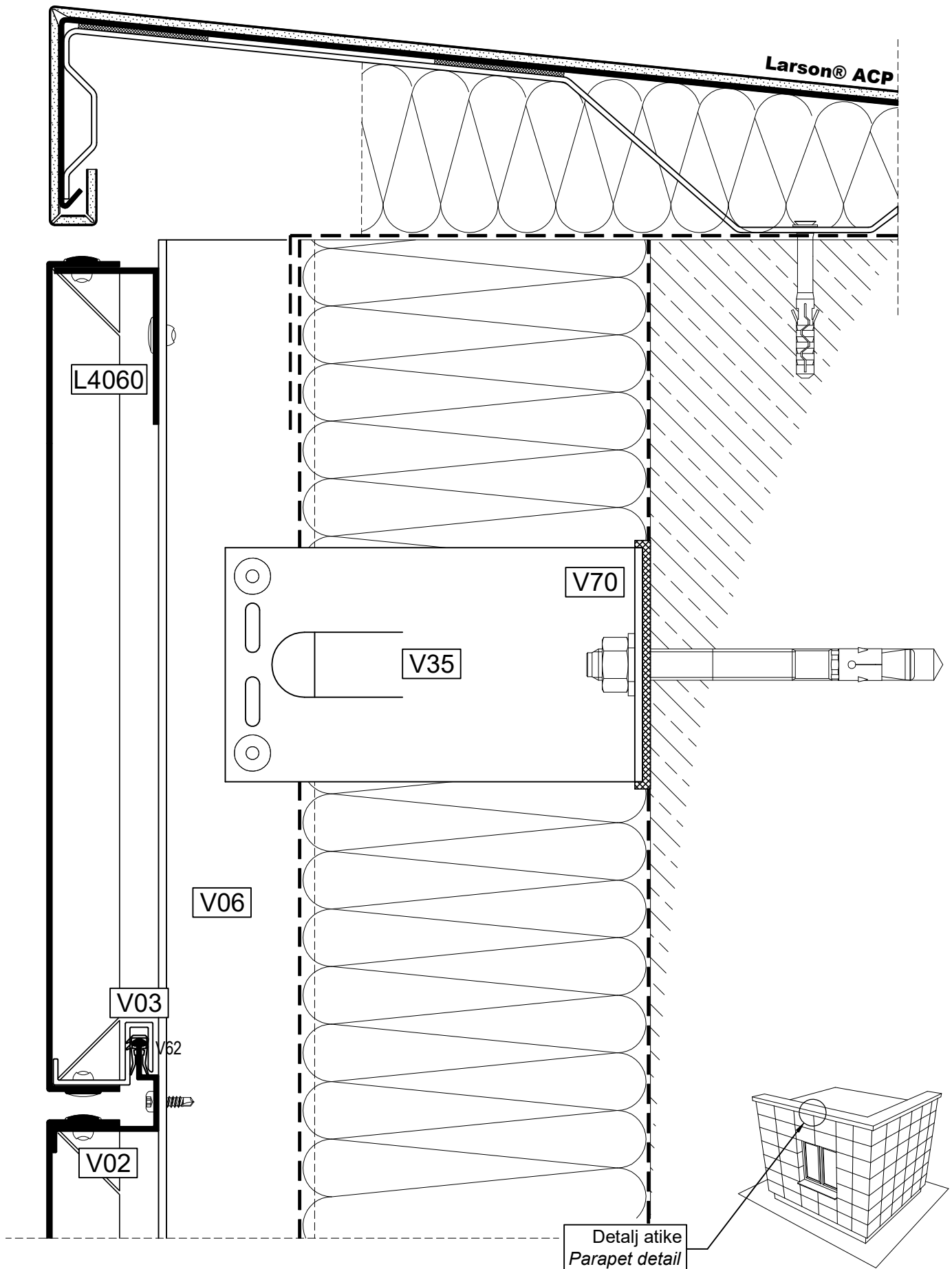
Horizontalni preseki
Horizontal section



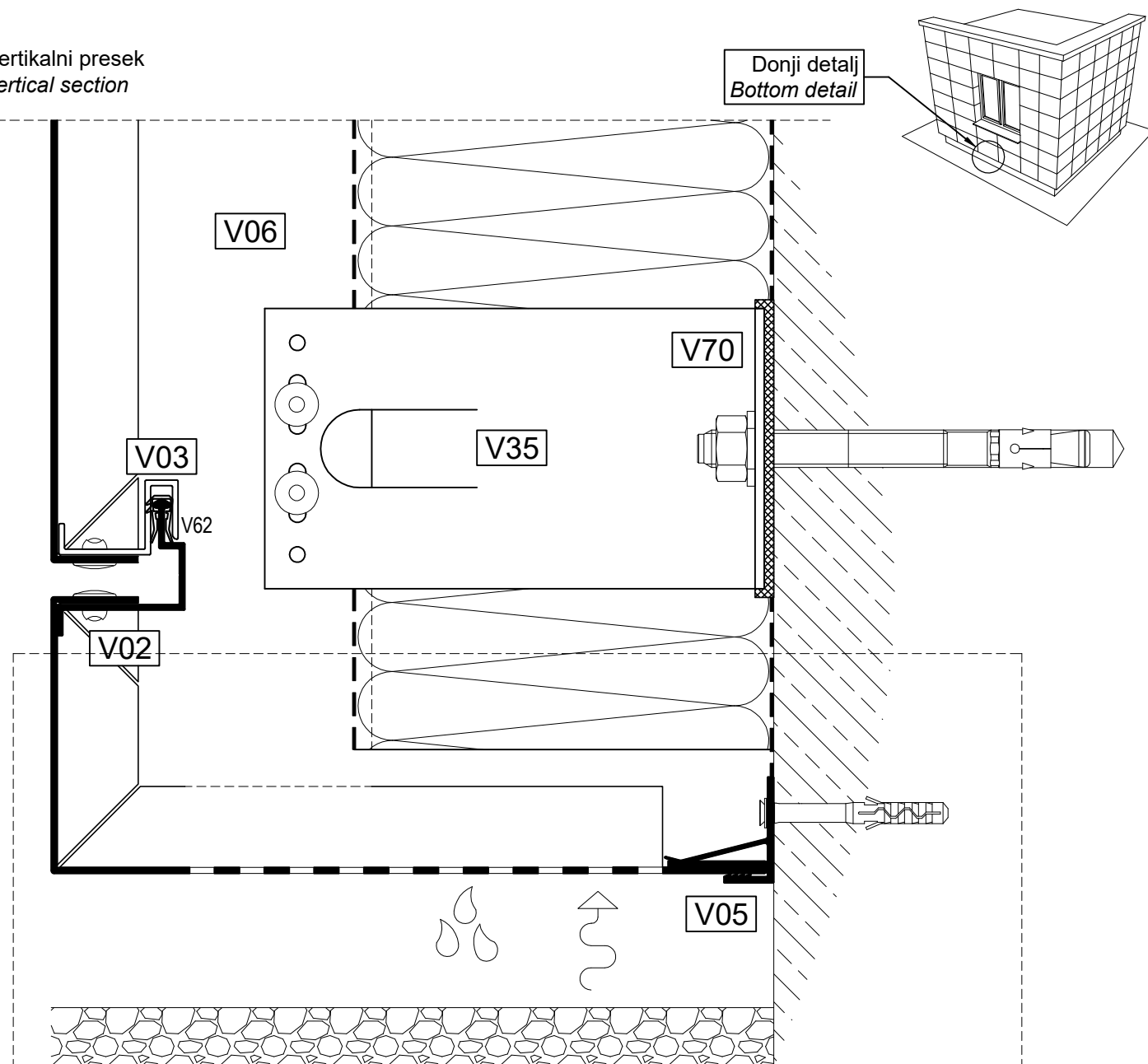
Horizontalni presek
Horizontal section



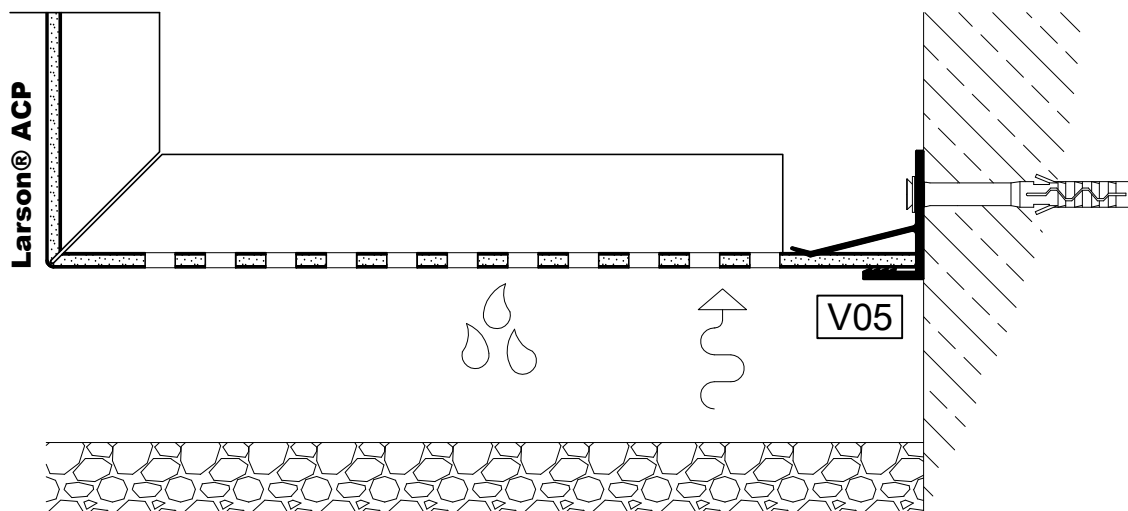
Vertikalni presek
Vertical section



Vertikalni presek
Vertical section



Opcija drenaže: perforirani bojeni aluminijumski lim
Drainage option: perforated powder-coated aluminium sheet



Opcija drenaže: perforirani aluminijumski kompozitni panel
Drainage option: perforated aluminium composite panel

PROCES PROIZVODNJE

Aluminijumski profili se dobijaju ekstrudiranjem, postupkom mehaničke deformacije koji podrazumeva kontinuirano istiskivanje već termički pripremljene legure mehaničkom presom, kroz specijalno pripremljene matrice (alate) koje definišu geometriju preseka profila. Kao sirovina za izradu aluminijumskih profila koristi se legura na bazi primarnog aluminijuma AlMgSi0.5 (po EN-AW) koja odgovara oznakama AA 6063 i AA 6060 (po američkom standardu). Proces ekstrudiranja obavlja se na presi američke proizvodnje BLH, kapaciteta 2000 tona sa kontrolisanim procesom rada.

[VRSTE PROFILA]

Imajući u vidu osnovnu namenu, aluminijumski profili su podeljeni u tri osnovne grupe:

- standardni (trgovački) - profili standardnog oblika kao što su „L“, „T“ i „U“ profili, kutijasti profili, cevi i ostali
- arhitektonski - profili koji se koriste za izradu aluminijumske bravarije, prozora, vrata, fasada, potkonstrukcije i slično
- industrijski (uslužni) - profili koji se koriste za specifične potrebe naručioca u različitim granama industrije i zanatstva.

[MEHANIČKA SVOJSTVA PROFILA]

Nakon ekstruzije, profili se po pravilu dodatno termički tretiraju u peći za homogenizaciju postupkom takozvanog starenja, koji obezbeđuju deklarirana mehanička svojstva. Veštačko starenje obezbeđuje površinsku tvrdoću od oko 80HB, kao i zateznu čvrstoću profila koja se kreće u opsegu od 220 do 250Mpa. Takođe, po zahtevu kupca, u cilju dalje mehaničke obrade, profili se mogu isporučiti bez prethodnog postupka homogenizacije u vidu nestarenih profila.

[POVRŠINSKA ZAŠTITA]

Ekstrudirani profili bez ikakve dalje površinske zaštite spadaju u kategoriju sirovih. Profili sa naknadnom površinskom zaštitom se nude u dve osnovne kategorije završne obrade:

- eloksirani - profili sa zaštitom putem elektrolitičke anodne oksidacije ili takozvane eloksaže
- plastificirani - profili sa površinskom zaštitom putem postupka elektrostatske pulverizacije ili takozvane plastifikacije, u bojama prema RAL ton karti i šire.

TEHNOMARKET obezbeđuje kvalitet profila sa površinskom zaštitom u skladu sa važećim standardima SRPS EN ISO 7599 za eloksažu i SRPS EN 12206 za postupak plastifikaciju.

[GEOMETRIJA PROFILA]

Geometrija profila definiše se tehničkim crtežima koji služe za izradu matrica/alata. Tačnost izrade matrica i profila, odnosno dozvoljene tolerancije, definisane su serijom standarda SRPS EN 755, prema kome se i vrši unutrašnja kontrola kvaliteta.

MANUFACTURING PROCESS

Aluminium profiles are manufactured using extrusion, a mechanical deformation process that uses mechanical force to push thermally treated aluminium alloy through specially prepared dies that define profile geometry. Only primary aluminium derived alloy AlMgSi0.5 (according to EN-AW) or AA6063 and AA6060 (according to American standards) is used in production of our profiles. Extrusion is done with American-made press BHL with 2000 ton capacity and numerically controlled processes.

[PROFILE CATEGORIES]

Based on their use, aluminium profiles can be classified in three basic groups:

- standard (commercial) general use profiles like „L“, „T“, „U“ and various square, round and other shapes
- architectural profiles used for manufacturing of aluminium doors, windows, facades and light substructures
- industrial (custom) profiles manufactured according to client supplied drawings for use in various industrial and commercial branches

[MECHANICAL PROPERTIES]

After extrusion, profiles are generally heat treated in aging oven, in order to obtain desired mechanical properties defined by alloy used in extrusion process. Artificial aging provides surface hardness of around 80HB, and tensile strength in range from 220 to 250Mpa. Profiles can also be supplied without heat treatment as unaged and raw for various uses that commend this type of profiles.

[SURFACE TREATMENT]

Extruded profiles without any additional surface coating are considered raw. There are two different categories for the profiles with additional surface treatment:

- anodisation profiles are protected by means of electrolytic anode oxidation (or simply anodisation)
- powder coated profiles are painted by electrostatic powder-coating process, in colors according to the standard RAL color chart and more.

TEHNOMARKET provides quality coated aluminium profiles according to current standards as SRPS EN ISO 7599 for anodisation and SRPS EN 12206 for powder coating.

[PROFILE GEOMETRY]

Profile geometry is determined through technical drawings for extrusion matrix/die. Matrix precision is defined with series of standards SRPS EN 755. The same set of standards is also used as benchmark for internal quality control.

NARUČIVANJE PROFILA

PROFILE ORDERING

Naručivanje i kupovina profila se vrši preko službe zadužene za prodaju profila. Važno je da porudžbenice kupaca sadrže sledeće podatke kako bi što preciznije definisali tip i kategoriju potrebnih profila:

- kataloška oznaka, tačan naziv ili detaljan opis profila
- dužina šipki u kojoj je potrebno isporučiti profile
- standardna dužina šipki je 6m, a na specijalan zahtev, uz posebne uslove i pojedina ograničenja, mogu se isporučiti i profili drugih dužina
- vrsta i oznaka boje površinske zaštite za oba tipa (eloksazu i plastifikaciju), a ukoliko površinska zaštita nije potrebna, porudžbina definiše potrebne profile kao sirove
- količinu profila, bilo u broju šipki definisane dužine, ukupnoj dužini ili težini profila

Prilikom naručivanja profila je potrebno imati na umu da su u katalogima dati podaci o teorijskim težinama profila i da specifične težine po jednom metru često ne odgovaraju stvarnim težinama profila. Ovo je posledica procesa ekstrudiranja i uobičajenog habanja matrica. Dozvoljene tolerancije su +10% u odnosu na teorijske težine. Za standardne trgovačke profile kao i arhitektonske profile iz programa TEHNOMARKET-a, minimalna količina za narudžbinu je jedna šipka standardne dužine od 6m. Minimalna količina za porudžbinu uslužnih profila je 500kg po matrici, a na zahtev kupca i uz posebne komercijalne uslove, mogu se prihvatiti i manje narudžbine (ne manje od 300kg po matrici).

Prilikom isporuke, profili se isporučuju sečeni na šipke, u dve kategorije sečenja profila:

- grubo sečenje - sečenje profila na liniji za ekstrudiranje koje se vrši pre postupka starenja profila sa tačnošću od ± 1.5 mm. Minimalna dužina profila postignuta grubim sečenjem je 2m.
- sečenje na preciznu meru - ukoliko naručilac zahteva isporuku profila kraćih od 2m kao i u situacijama kada se traži precizno sečenje tačnosti ± 1 mm vrši se naknadno sečenje tj. nakon postupka starenja. Maksimalna dužina profila je ograničena dužinom peći za starenje i ona iznosi 7,5m - što je ujedno maksimalna dužina za sirove i eloksirane profile. Za plastificirane profile maksimalna dužina je ograničena uobičajenim dužinama komora za plastifikaciju i iznosi 6,5m.

Placing orders and purchasing is handled through designated sales department within company. It is of high importance that purchased orders contain all relevant information in order to appropriately define following:

- catalogue code, exact name or detailed description of profile
- bar length required
- standard bar length is 6m, but upon special request - under specific conditions and with certain limitations - profiles of other lengths can also be supplied
- type and color code for surface coating mandatory for both types of surface coating
- quantity, whether in bar number, total required length or total weight

Please take notice that the technical documentation quotes theoretical profile weight and that the real weights are often different. This is standard and completely normal due to the wear during its life span and extrusion process. Allowed tolerances are up to +10% over theoretical weight. The minimum order quantity for standard commercial and architectural profiles from TEHNOMARKET's product range is one standard bar of 6m. Minimal order quantity for custom extruded profiles is 500kgs per matrix, and for some specific circumstances and sales terms, smaller quantities may be ordered (but never less than 300kg per matrix)

Finished profiles are delivered cut to size, in two distinct categories:

- rough cutting - the profile is cut directly on the extrusion line, prior to artificial aging, with precision of ± 15 mm. Minimal length of profiles in this category is 2m.
- precise cutting - if the client requires profiles shorter than 2m, and in situations where precision of ± 1 mm is needed, additional precision cutting is done after heat treatment of profiles. The maximal profile length available for purchase is limited by aging oven dimensions and which is 7,5m - that is also maximal bar length for raw and anodized profiles. The bar length for powder coated profiles is limited by powder coating chamber dimensions and it is usually 6,5m.



PROFILI [pakovanje, skladištenje, transport]

Nakon ekstrudiranja, starenja i kontrole kvaliteta gotovih proizvoda, profili se skladište na namenski pripremljenim policama na način koji obezbeđuje međusobno razlikovanje grupe i tipa profila. Od postupka obrade i površinske zaštite zavisi dalja priprema i skladištenje, kao i pakovanje i transport.

SIROVI profili se smatraju najmanje zaštićenim, jer poseduju samo sloj prirodne oksidacije, tako da su osetljivi na koroziju, atmosferske uticaje, pa čak i na manju mehaničku silu. Preporuka je da se kod ovog tipa profila izbegava dug period skladištenja. Skladišni prostor mora biti suv i ventilisan, bez direktne izloženosti suncu, kako bi se sprečila pojava kondenza po površini profila.

Pakovanje za isporuku i skladištenje mora biti u neutralnoj perforiranoj foliji ili u odgovarajući PH neutralni papir bez boje. Važno je međusobne dodirne površine svesti na najmanju moguću meru, da bi se izbeglo trenje kao i zarobljavanje kondenza. Profili bez površinske zaštite nipošto se ne smeju ovlaženi zamotavati u folije, jer takav način pakovanja prouzrokuje koroziju površine, koja potpomognuta sunčevim zracima može nastati u veoma kratkom roku.

ELOKSIRANI profili usled hemijskog tretmana površine imaju na sebi veći sloj zaštite, ali način pakovanja i skladištenja se bitno ne razlikuje od sirovih profila. Kod ovako tretirane površine, profili se moraju čuvati na suvom, zasenčenom i provetrenom mestu, upakovani u posebne folije ili papir. Eloksoza je posebno osetljiva na hemijske uticaje i mikro oštećenja. Iz ovog razloga važno je dobro zaštititi profile u agresivnim sredinama i obezbediti da ne budu izloženi manjim mehaničkim udarima, pomeranjima i međusobnom trenju.

PLASTIFICIRANI profili su svojom površinom koja ima nanet zaštitni sloj boje, otporniji od sirovih i eloksiranih profila. Njihova osetljivost je daleko manja po pitanju zahtevanih uslova skladištenja zbog pojačane otpornosti površine profila na vodu, vlagu i kondenz. Kod ove grupe profila, bitno je da folija i papir kojim se pakuju, budu neutralni i otporni na UV zrake, kako ne bi došlo do promene završne boje i pojave fleka. Plastifikacija bolje podnosi i mikro mehanička oštećenja, ali je i dalje osetljiva na jače udare, tako da je bitno pravilno odlaganje u magacinske police i pakovanje profila u buntove.

Ono što je zajedničko za sva tri tipa profila je to da je obavezno skladištenje na suvom mestu, pri temperaturama koje ne variraju drastično i koje ne idu iznad 35°C, dok vlažnost vazduha ne bi trebalo da prelazi 65%. Preporučuje se da prostor ima visok nivo ventilacije i stalno prisutno kretanje vazduha.

Najpovoljnije odlaganje i čuvanje sva tri tipa profila je u zatvorenom magacinskom prostoru, dobro provetrenom, na posebno dizajniranim policama za slaganje aluminijumskih profila.

PROFILES [packaging, storage, transportation]

After extrusion, aging and final quality control, aluminium profiles are stored on the special, custom made shelves that allow separation between different groups and profile types in the warehouse. Further preparation, storage, packaging and transport are different for each of available surface treatments.

RAW profiles are considered least protected, because they carry only a natural oxidative layer on the surface, making them susceptible to corrosion, atmospheric influences, even to a lesser mechanical force. It is recommended to avoid long storage periods with raw aluminium profiles. The storage space must be dry and ventilated, without direct sunlight exposure, in order to prevent surface condensation on the profiles.

Packaging for delivery and storage is done exclusive with neutral, perforated foil or appropriate PH neutral, non-colored paper. It is important to minimize contact surfaces between profiles in order to avoid friction and capture of condensation. Profiles without any surface treatment should never be foil-wrapped while wet, because wrapping speeds up the corrosion proces, that can occure in a very short time, especially when exposed to a direct sunlight.

ANODIZED profiles are already better protected than the raw ones, but storage and packaging are not very different than previous group. This type of surface treatment requires dry, ventilated storage without direct sunlight, and profiles have to be wrapped in a protective foil. Anodization is sensitive to chemical and mechanical influence (prone to micro-damage). Therefore, it is recommended to thoroughly protect profiles in aggressive environments and exclude any possibility of mechanical damage due to impact, movement or friction.

POWDER COATED profiles are more resistant than raw and anodized ones. They are far less demanding in regard of storage conditions due to their good surface resistance toward water, humidity and condensation. It is of high importance that wrapping foil or paper are neutral and UV resistant, in order to prevent change of surface color and appearance of stains. Powder coating is also known to be more resistant to micro-damage, but they should still be protected from impact damage and properly packaged and stored on shelves.

What all three types of profiles have in common is that they must be stored in a dry place, at temperatures that do not fluctuate drastically and do not exceed 35°C, while the air humidity should not exceed 65%. It is recommended that the storage area has a high level of ventilation and continuous air circulation.

Closed, specially designed and equipped warehouse is recommended for appropriate storage of all types of aluminium profiles.

Kako bi se izbegle deformacije, potrebno je da svi profili budu u horizontalnom položaju, postavljeni na ravnu i stabilnu površinu, koja može biti puna ili u vidu rebara dovoljno gusto postavljenih kako bi se izbegla krivljenja po dužini. Težina, veličina i savitljivost profila diktiraju tip oslonca magacinskih polica i veličine krajnjih pakovanja.

Radi obezbeđivanja sigurnosti i optimalne zaštite, preporučuje se da se profili transportuju u zatvorenom vozilu, bezbedno upakovani u pakete. Neophodno je da svi paketi budu sigurno pričvršćeni za palete kako bi se izbegla moguća oštećenja premaza boje i geometrije profila tokom transporta usled neželjenog pomeranja.

To avoid profile deformation, it is recommended that they are placed horizontally, on flat, rigid surface that can be either a solid plate or a ribbed construction with small enough distance between individual ribs in order to keep profiles from deformation. Weight, size and flexibility of profiles dictate the type of storage shelves and final packaging size.

In order to insure safety and optimal protection, it is recommended that profiles are transported in an enclosed vehicle, securely wrapped in bundles. It is necessary that all bundles are safely attached to pallets to avoid possible damage of paint coat and profile geometry during transport due to unwanted movement.



FASADNI PANELI

Pored prodaje VENT sistema za potkonstrukcije ventilisanih fasada, TEHNOMARKET je i zvanični distributer širokog spektra fasadnih obloga, namenjenih savremenoj gradnji i projektima koji podrazumevaju visoke estetske i tehničke zahteve.

U ponudi se nalaze aluminijumski kompozitni paneli **LARSON** i aluminijumski sačasti paneli **LARCORE**, koji omogućavaju izradu fasada izuzetne ravnosti, male težine i odlične dugotrajnosti, uz širok izbor završnih obrada i boja.

Asortiman dodatno dopunjuju fiber-cementne fasadne ploče **EQUITONE**, poznate po stabilnosti, otpornosti na vremenske uslove i karakterističnoj, arhitektonski atraktivnoj teksturi, pogodnoj za različite tipologije objekata.

Za projekte koji zahtevaju poseban vizuelni identitet i premium završni izgled, TEHNOMARKET obezbeđuje i fasadnu keramiku **RAGNO**, rešenje koje kombinuje vrhunsku otpornost, postojanost boje i minimalističku eleganciju, uz mogućnost primene na zahtevnim klimatskim lokacijama.

U skladu sa potrebama arhitekata i izvođača, dostupne su i razvučene metalne mreže za fasadne i dekorativne aplikacije, kao i sirovi aluminijumski limovi za dalju obradu i izradu elemenata po meri.

Zahvaljujući ovako zaokruženom portfoliju, TEHNOMARKET može da ponudi kompletan i pouzdan izbor materijala za ventilisane fasade, od potkonstrukcije do završne obloge a sve to uz stručnu podršku pri odabiru sistema, specifikaciji i realizaciji projekta.

FACADE PANELS

In addition to the VENT substructure system for ventilated facades, TEHNOMARKET is also an official distributor of a wide range of facade cladding solutions, intended for contemporary construction and projects with high aesthetic and technical requirements.

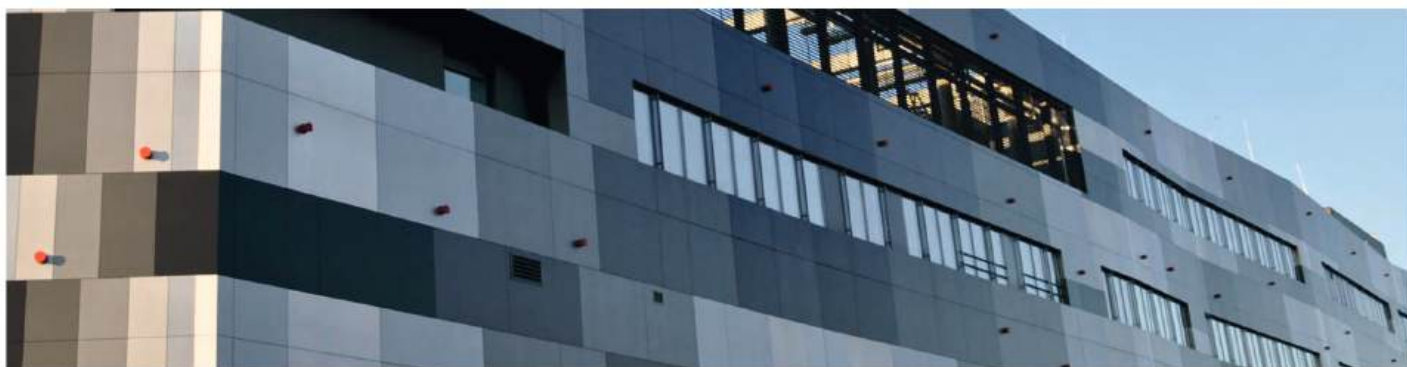
The portfolio includes **LARSON** aluminium composite panels and **LARCORE** aluminium honeycomb panels, which enable the creation of facades with exceptional flatness, low weight and excellent long-term durability, with a wide selection of finishes and colours.

The range is further complemented by **EQUITONE** fibre-cement facade panels, known for their stability, resistance to weather conditions and distinctive, architecturally attractive texture, suitable for various building typologies.

For projects that require a unique visual identity and a premium final appearance, TEHNOMARKET also supplies **RAGNO** facade ceramics, a solution that combines superior durability, colour stability and minimalist elegance, with applicability even in demanding climatic locations.

In line with the needs of architects and contractors, expanded metal mesh is also available for facade and decorative applications, as well as raw aluminium sheets for further processing and custom fabrication.

Thanks to this well-rounded portfolio, TEHNOMARKET can offer a complete and reliable selection of materials for ventilated facades, from the substructure to the final cladding, supported by professional expertise in system selection, specification and project execution.



OBRADA PANELA

PANEL PROCESSING

[OBRADA PANELA NA CNC MAŠINAMA]

TEHNOMARKET nudi efikasnu obradu na CNC mašinama posljednje generacije, sa radnom površinom (radnim stolom) do 2x6 m, za širok spektar različitih materijala: aluminijumske kompozitne panele (Larson), aluminijumske sačaste panele (Larcore), fiber-cementne panele (Equitone), HPL ploče (Trespa, Fundermax i slične), pune aluminijumske limove, pune i šuplje polikarbonatne ploče (akril, leksan i slične), gipsane i drvene ploče, forex i druge polimerne materijale (Corian...). Iskusni stručnjaci vode računa o pripremi i procesu obrade: sečenje i žljebovanje po pravim i krivim linijama, kao i različite raster perforacije i tehnički otvori za različite sisteme montaže. Za novu generaciju projekata dostupna je kompletna usluga dizajna, pripreme i završne ukrasne obrade/perforacije prethodno pripremljenih panela, radi ekskluzivnog vizuelnog izgleda.

[ROLOVANJE PANELA]

Mnogi pločasti materijali su pogodni za plastičnu deformaciju, te se mogu oblikovati rolovanjem kako bi se dobili valjkasti elementi koji se koriste kako u arhitekturi tako i u industriji. Ovaj tip obrade TEHNOMARKET nudi korišćenjem rolo-mašine dužine 4m. Mogući je minimalni prečnik rolovanog panela od 300mm, ali dosta zavisi od vrste materijala koji se roluje.

[OBRADA IVICA PANELA]

Najrazličitiji materijali, uslovi njihove primene i tendencija finog, preciznog rada često zahtevaju poseban tretman ivica pločastih materijala. Posebna mašina za obradu ivica kantuje aluminijumske kompozitne panele tipa Larson i Larcore tako da ispuna panela bude skrivena, a ujedno i zaštićena. Ovaj tip mašine može postići fino, precizno obaranje ivica kod raznih tipova panela, što doprinosi izuzetnoj estetici finalnog proizvoda.

[KASETIRANJE I RADIONIČKA PRIPREMA FASADNIH PANELA]

U svrhe projektne prodaje i tehničke podrške, TEHNOMARKET može ponuditi i doradu pločastih elemenata prema nacrtima dobijenim od klijenta, u vidu kasetiranja ili finalne pripreme fasadnih ploča u radionici sa pratećim VENT elementima za fiksiranje na samom mestu ugradnje.



[CNC PANEL MACHINING]

TEHNOMARKET offers efficient machining on latest generation CNC machines with bed size of up to 2x6m for a wide array of different materials: aluminium composite panels (Larson), aluminium honeycomb panels (Larcore), fiber cement panels (Equitone), HPL panels (Trespa, Fundermax and similar), solid aluminium sheets, solid and hollow polycarbonate sheets (acrylic, lexan and similar), plaster and wooden boards, forex other polymer materials (Corian...). Experienced professionals take care of preparation and machining processes: straight and curved line cutting/grooving, cutouts and different rastered perforations and technical openings for different mounting systems. For the new generation of projects, full service of design, preparation and final decorative machining/perforation of prepared panels is available for exclusive visual appearance.

[PANEL ROLL BENDING]

Many sheet materials are suitable for plastic deformation, and can be roll bended to achieve cylindrical shapes widely used in architecture and industry. TEHNOMARKET offers this service on a 4m long bending machine. The minimal final diameter of rolled material is 300mm, but it varies, depending on the type of used panel.

[BENDING OF PANEL EDGES]

Different materials, their usage conditions and tendency to perfection often demand special treatment for panel edges. The special edge processing machine bends and folds edges of aluminium composite and honeycomb panels (like Larson and Larcore) so that the core is protected and hidden. This machine manages to bend the panel edges with extreme precision for different types of panels, which allows for exceptional aesthetics of the final product.

[CASSETTE FOLDING AND WORKSHOP PREPARATION OF FACADE PANELS]

TEHNOMARKET can offer various workshop preparations of different panel elements, according to project specification and drawings supplied by clients, such as cassette folding or final element assembly with additional VENT substructure elements required for on-site installation.





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