

VENT



PREGLED SISTEMA/SYSTEM OVERVIEW

knauf aquapanel

DESIGNED AND MANUFACTURED BY TEHNomarket



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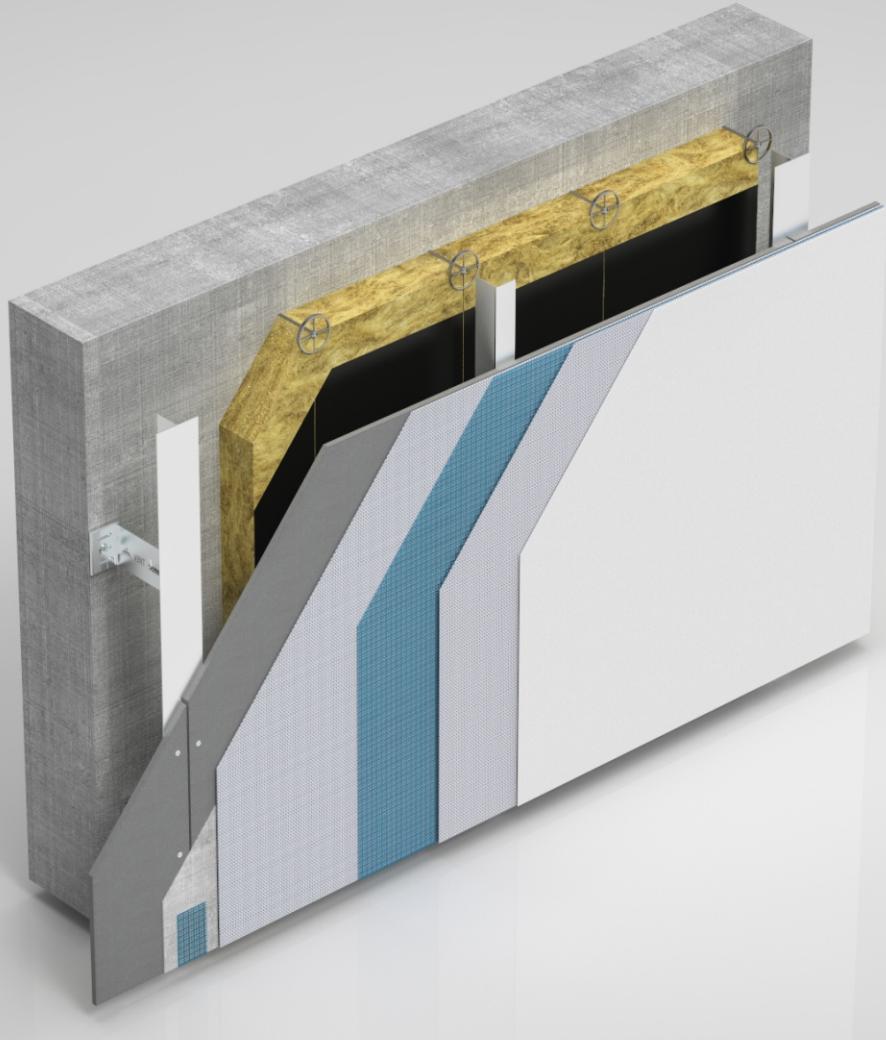
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VENT sistemi podkonstrukcija za ventilisane fasade

TEHNOMARKET, kao proizvođač aluminijumskih profila, razvio je sisteme VENT koji obuhvataju ukupno 11 osnovnih tipova podkonstrukcija namenjenih različitim rešenjima ventilisanih fasada. Svi VENT sistemi i njihove kombinacije su nastali praćenjem tehničkih inovacija, novih trendova u arhitekturi i materijalizaciji fasada.

Vent RIVET je sistem namenjen prihvatanju ravnih ploča fiksiranih mehaničkim vezama direktno na aluminijumsku potkonstrukciju sa lica fasade u vidu pop-zakivaka ili vijaka, što može a i ne mora biti vidljivo u zavisnosti od izbora fasadnih obloga. Kod AQUAPANEL ploča ovaj sistem se koristi kao podloga za završni mokri postupak, te su pomenute mehaničke veze namenski vijci samoresci, sa upuštenom glavom finalno skriveni ispod završnog sloja.

Profili iz kojih se dobijaju sastavni elementi sklopa (kotve dužine od 60-190mm i noseći T i L profili - vertikale) iz sistema Vent RIVET se dobijaju postupkom ekstruzije u pogonima TEHNOMARKET-a. Kao sirovina za izradu koriste se legure po AA standardu 6063 i 6060 (DIN standard AIMgSi0.5). Sistem obuhvata i plastične termo-podloške koje su proizvedene namenski za TEHNOMARKET-ove sisteme i nalaze se ispod svake kotve kako bi se prekinuo termički most.

Fiks ankeri za vezu između potkonstrukcije i objekta se biraju prema statičkom proračunu, dok su namenski AQUAPANEL®Maxi vijci samoresci sa upuštenom glavom odabrani iz KNAUF-ovog assortimenta kao prateći pribor.

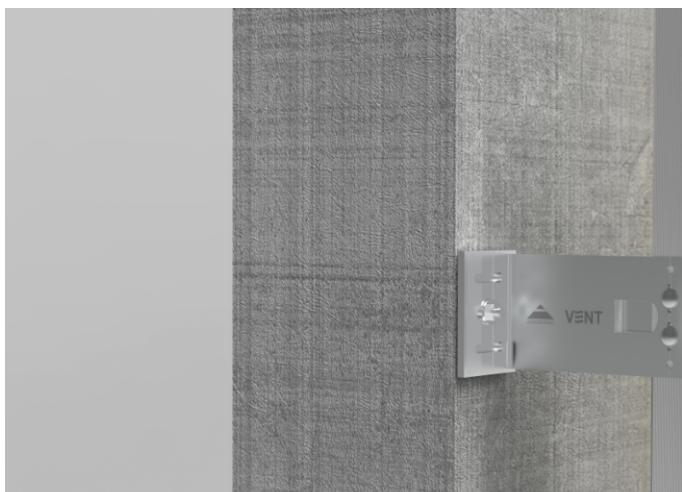
VENT substructure systems for ventilated facades

Aluminum profile manufacturer TEHNOMARKET has developed VENT substructure systems that consist of 11 different types of substructure for all types of cladding materials. All VENT systems and their combinations were designed with regard to new trends, technical innovations and modern architectural and facade developments.

Vent RIVET system is designed for installation of flat panels that are directly attached to the load-bearing aluminum substructure with fasteners or pop-rivets that can be visible or hidden, depending on the type of the cladding material. With AQUAPANEL boards this system is used as the surface for the final, wet finish and therefore all fasteners are custom designed to be hidden under the final layers.

All profiles used in production of system elements (anchors from 60-190mm and load-bearing T and L profiles-verticals) that are used in Vent RIVET system are extruded in TEHNOMARKET's own extrusion plant. In this process, only the primary aluminum alloys AA 6063 and 6060 (DIN standard AIMgSi0.5) are used to extrude the profiles. System includes polyamide anchor pads that are custom produced for TEHNOMARKET systems and installed under every anchor in order to achieve thermal break.

The fixed anchors connecting the substructure and load-bearing object structure are specified according to static calculation, while system specific AQUAPANEL® Maxi self drilling screws come from KNAUF accessory line.



VENT Aquapanel ventilisana fasada

Ventilisana fasada Vent RIVET+AQUAPANEL® je dizajnirana tako da omogućuje nesmetano strujanje vazduha u sloju podkonstrukcije između toploṭne izolacije i fasadne obloge kako bi se ostvarila njena osnovna funkcija-visok stepen uštete energije tokom cele godine, jer je korišćenjem ventilisanog fasadnog sklopa isključena mogućnost pregrevanja fasade u letnjim mesecima, kao i prođor atmosferske vode u objekat.

Aluminijumski profili, u većini slučajeva vertikalno orijentisani, nemaju završnu obradu, već su sirovi, jer su skriveni iza završnih slojeva fasade.

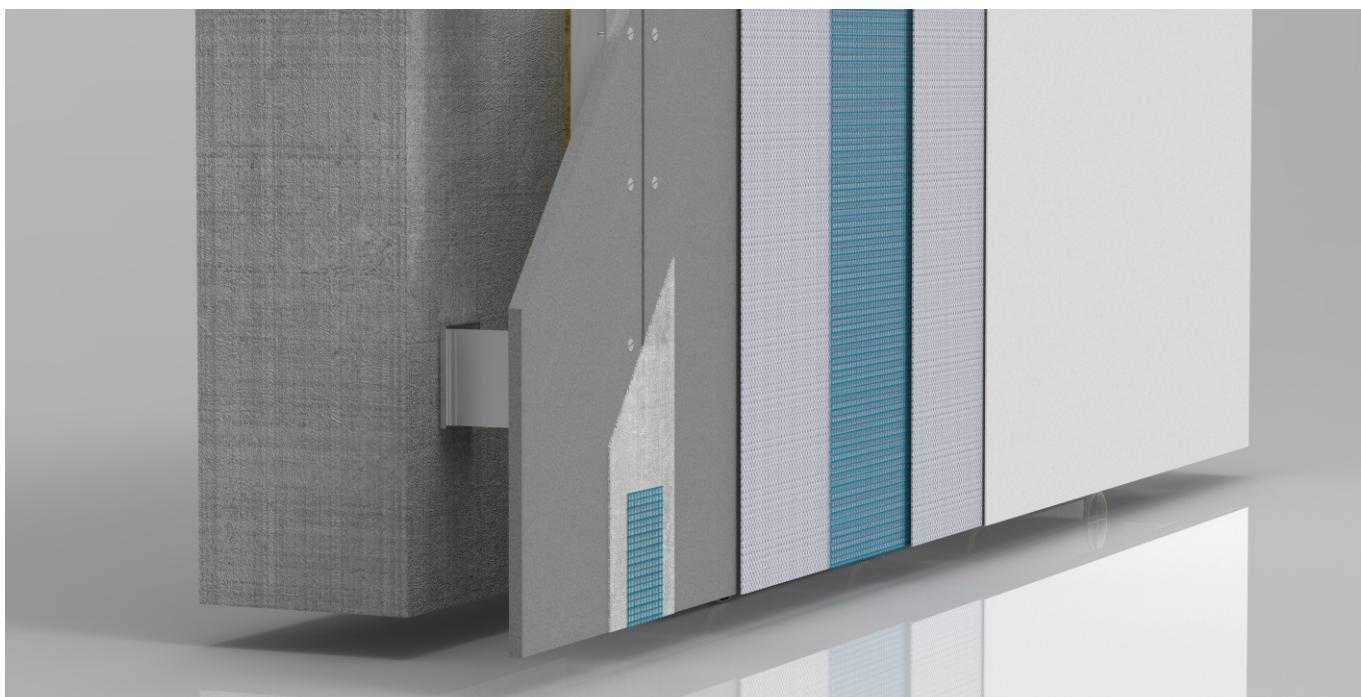
AQUAPANEL® Cement Board je ravna ploča koja služi kao idealna podloga za razne površinske obrade. Standardne širine ploča su 1250mm, a dužine mogu biti 900mm, 2000mm i 2500mm, uz debljinu od 12,5mm. Uz osnovni proizvod, AQUAPANEL® ploču, obavezan je sav prateći materijal prema preporukama proizvođača KNAUF, a u skladu sa izborom projektanta: namenski AQUAPANEL® Maxi vijci samoresci, paropropusne - vodonepropusne folije Tyvek Stucco Wrap, AQUAPANEL® bandaž trake širine 10cm, KNAUF armaturne mrežice i AQUAPANEL dekorativni malter u odabranoj strukturi i boji.

VENT Aquapanel ventilated facade

Vent RIVET+AQUAPANEL® ventilated facade is designed to enable unrestricted air flow between insulation layer and facade cladding in order to achieve high levels of insulation throughout the year, because the ventilated facade effectively removes the possibility of overheating during the summer and any incidental water ingress into the facade.

Aluminum profiles, that are usually installed vertically, are used raw and without surface protection, because they are hidden behind the outer layers of the facade cladding.

AQUAPANEL® Cement Boards are flat panels used in facade cladding as the ideal surface for different finishing layers. Standard width of the panels is 1250mm, with 900mm, 2000mm and 2500mm lengths and thickness of 12,5mm. The basic product, AQUAPANEL® board, requires the complete line of accessories recommended by the manufacturer: system specific AQUAPANEL® Maxi self drilling screws, Tyvek Stucco Wrap membrane, AQUAPANEL® 10cm wide joint tape, KNAUF reinforcing mesh and AQUAPANEL decorative plaster in desired color and texture.



Postupak montaže:

Postupak montaže startuje sa razmeravanjem i obeležavanjem pozicija nosećih profila T ili L vertikala. Najčešće se postavljaju na standardnom rastojanju od 625mm, na mestima vertikalnih spojeva/fuga AQUAPANEL® ploča i između istih, usklađeno prema dimenzijama ploča i statičkom proračunu što može rezultovati i gušćim postavljanjem profila.

Fiksiranje nosećih profila na konstrukciju objekta se vrši namenskim VENT kotvama, koje omogućavaju fino podešavanje i pozicioniranje nosećih vertikalnih profila, kako bi se dobila potpuno ravna površina fasade. Njihovo međusobno rastojanje je definisano statičkim proračunom.

Spoj kotvi sa nosećim vertikalama se ostvaruje uz pomoć pop-zakivaka ili odgovarajućih vijaka koji omogućuju kako fiksnu, tako i neophodnu dilatirajuću vezu. U zoni fasadnih površina neophodno je kao termoizolacioni sloj, između punog dela zida i aluminijumskih kotvi, postaviti sistemske plastične podloške. Ugradnja i obrada izabranog tipa AQUAPANEL ploča se vrši uz upotrebu spojnih sredstava i završnih masa u svemu prema preporukama proizvođača.

Nakon završetka montaže aluminijumske potkonstrukcije postavljaju se vodootporna folija i membrana za zaštitu od vode iz palete pratećeg materijala proizvođača ploča, počevši sa donjim završnim delom zida.

AQUAPANEL® ploče se pričvršćuju namenskim AQUAPANEL® Maxi vijcima na podkonstrukciju i to tako da se prvo fiksira srednji deo ploče, pa se nastavlja fiksiranje na krajevima pridržavajući se preporuka proizvođača da razmak vijaka ne sme biti veći od 250mm, a razmak od ivice ne veći od 15mm. Fuge između ploča su 3-5mm.

Odmah nakon montaže cementnih ploča nužno je izgletovati spojeve i obraditi glave vijaka AQUAPANEL® Fugenspachtel sivom masom, nakon čega sledi bandažiranje namenskim bandaž trakama, nanošenje osnovnog maltera i postavljanje armaturne mrežice u sloju ukupne debljine 5-7mm. Potrebno vreme sušenja je 7 dana pre postavljanja

Installation:

The installation starts with measurements and positioning of load bearing T or L vertical profiles. The profiles are usually installed with distance of 625mm between them, in places of vertical AQUAPANEL® board joints and between them, but this can vary in accordance with panel sizes and static calculations on a specific project.

The attachment of load bearing profiles to object is done with VENT system anchors that allow for fine adjustment and positioning of aforementioned profiles, in order to achieve perfectly flat facade pane. Their location is determined with structural calculations.

VENT system anchors connect to load bearing vertical profiles with pop-rivets or appropriate self-drilling screws that allow for both fixed and required dilatation connections. It is recommended to install polyethylene anchor pads in the area of facade surfaces in order to avoid thermal bridging. The final installation of AQUAPANEL® boards is done exclusively with manufacturer approved materials, fasteners and final layers.

The installation of water-impermeable, breathable membrane starts from the bottom part of the facade after the aluminum substructure is installed.

AQUAPANEL® boards are attached to the substructure, starting from the middle of the panel and followed by all panel edges with system specific AQUAPANEL® Maxi screws in all according to manufacturers technical installation manual that explicitly recommends panel gaps of 3mm, 250mm maximal distance between individual screws and 15mm distance from panel edge.

Immediately after the panel installation all panel joints and screw heads should be filled with AQUAPANEL® Fugenspachtel adhesive, with joints additionally reinforced with KNAUF joint tape. After that, base layers of KNAUF plaster and reinforcing mesh are installed in total layer thickness of 5-7mm. The curing time of 7 days is recommended before application of final decorative plaster or any other finishing layer.

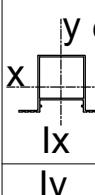
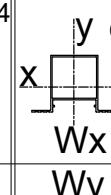
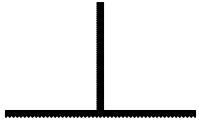
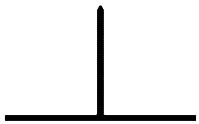
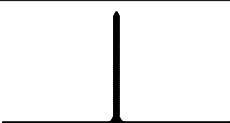
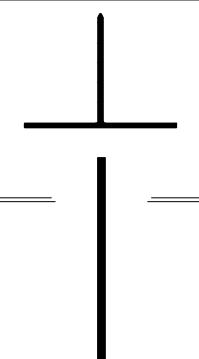
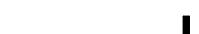
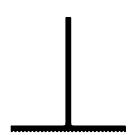
Uvod
Introduction

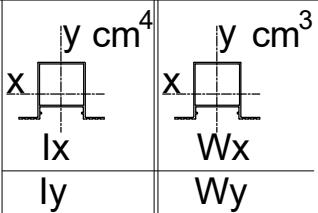
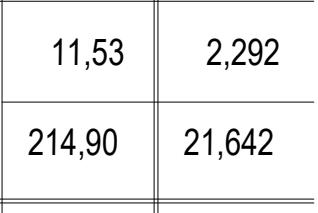
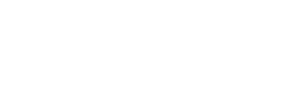
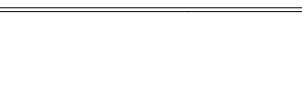
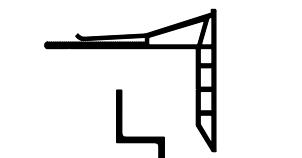
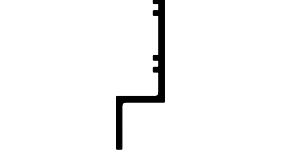
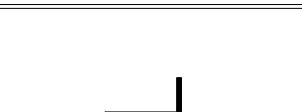


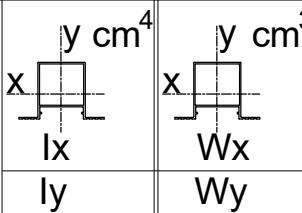
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Pregled profila
Profile overview



	Oznaka Mark	Opis Description		
			I _x	I _y
	kg/m`			W _x
	V06	Stub / Prečka	12,79	2,732
		Mullion / Transom	20,84	4,168
	V07	Stub / Prečka	10,46	2,206
		Mullion / Transom	16,67	3,334
	V08	Stub / Prečka	10,97	2,247
		Mullion / Transom	28,81	4,801
	V95	Stub / Prečka	8,54	1,865
		Mullion / Transom	9,84	2,46
	V20	Stub / Prečka	103,78	12,718
		Mullion / Transom	20,877	4,175
	V16	Stub / Profil za kotvu	2,87	0,884
		Mullion / Anchor profile	33,83	5,812
	V10	Stub / Profil za kotvu	3,25	0,965
		Mullion / Anchor profile	71,97	9,660
	V125	Stub / Prečka	8,39	1,907
		Mullion / Transom	3,61	1,202
	V117	Stub / Profil za kotvu	3,85	11,135
		Mullion / Anchor profile	116,68	13,380

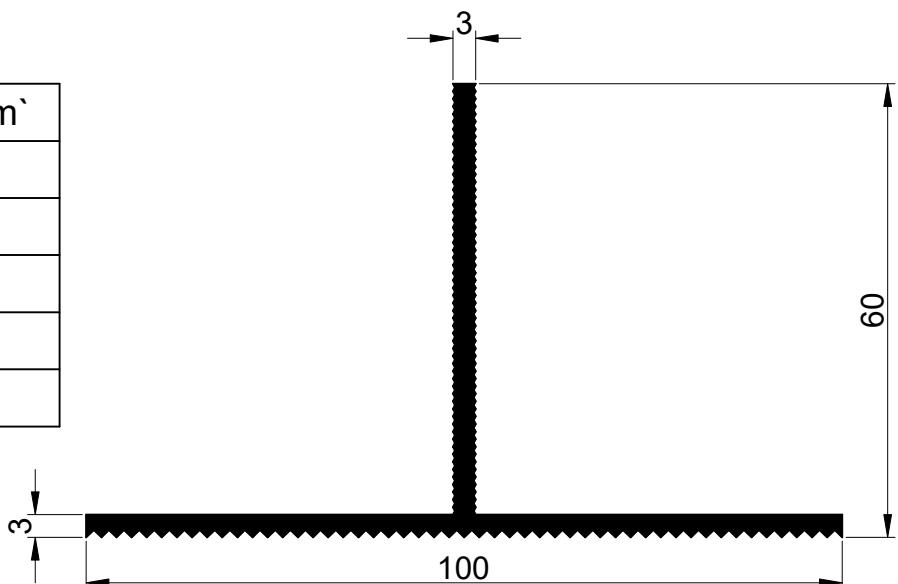
	Oznaka Mark	Opis Description		
			I _x	y cm ⁴
	kg/m`	ly	W _x	y cm ³
	V11	Profil za kotvu Anchor profile	11,53	2,292
	2,115		214,90	21,642
	V12	Profil za kotvu Anchor profile	13,99	2,783
	2,860		377,43	30,911
	V126	Profil za kotvu Anchor profile	19,77	3,80
	3,152		523,13	38,47
	V13	Profil za kotvu Anchor profile	15,09	3,118
	1,705		50,50	7,953
	V124	Horizontalni nosač Horizontal bracket	99,98	13,331
	1,448		5,08	3,385
	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			

	Oznaka Mark	Opis Description			
			I_x	$y \text{ cm}^4$	W_x
	kg/m^3				
	L4040(2)	Stub / Profil za kotvu / Dodatni profil Mullion / Anchor profile / Additional profile			
	0,428				
	L4040(4)	Dodatni profil Additional profile			
	0,836				
	L2060	Dodatni profil Additional profile			
	0,429				
	L4060	Stub / Profil za kotvu / Dodatni profil Mullion / Anchor profile / Additional profile			
	0,538				
	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				

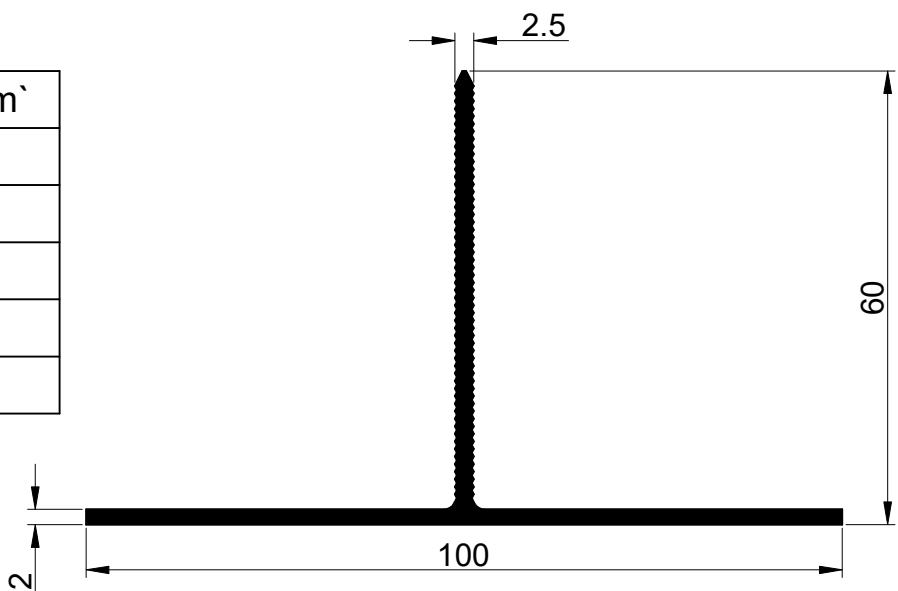
Aluminijumski profili
aluminium profiles



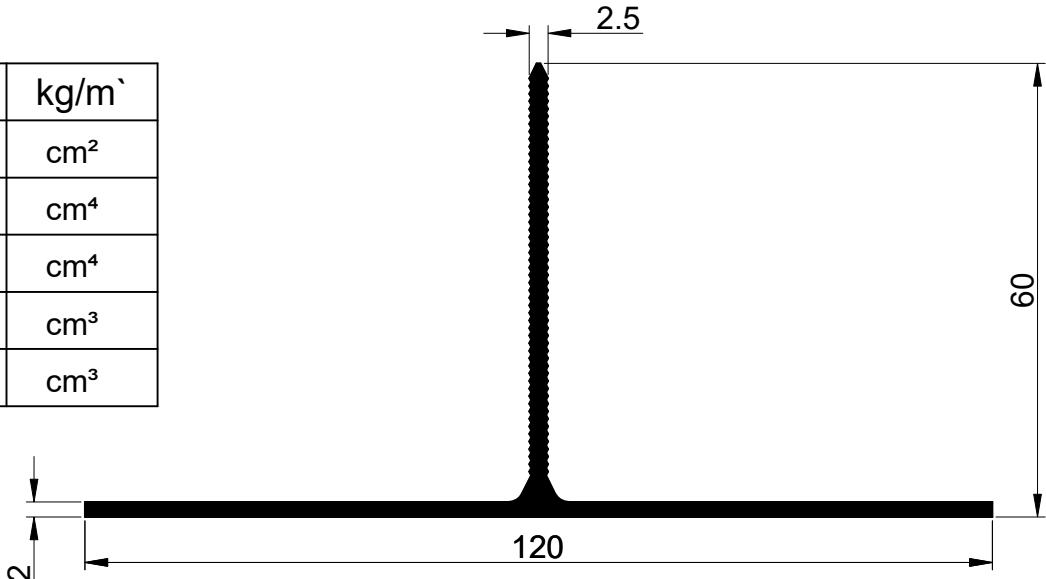
V06	1,119	kg/m`
S	4,067	cm ²
I _x	12,794	cm ⁴
I _y	20,844	cm ⁴
W _x	2,733	cm ³
W _y	4,168	cm ³



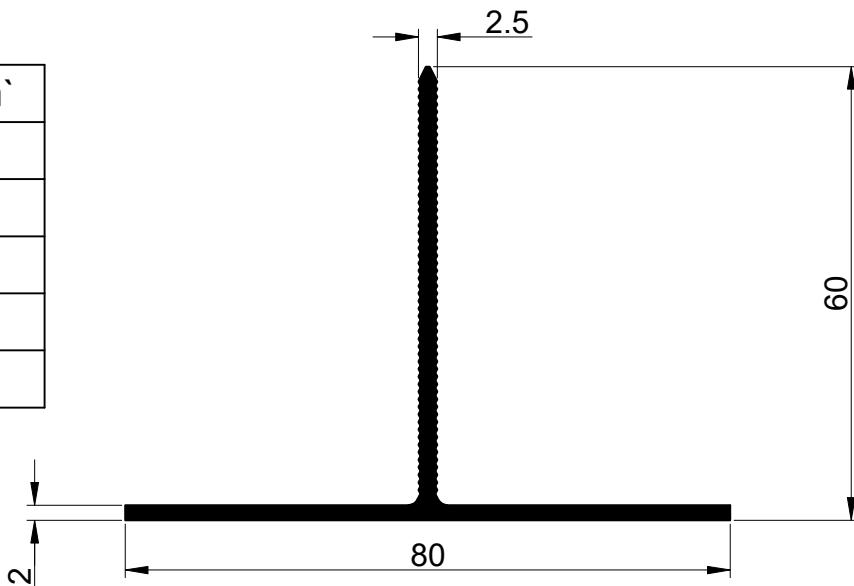
V07	0,908	kg/m`
S	3,300	cm ²
I _x	10,455	cm ⁴
I _y	16,672	cm ⁴
W _x	2,206	cm ³
W _y	3,334	cm ³



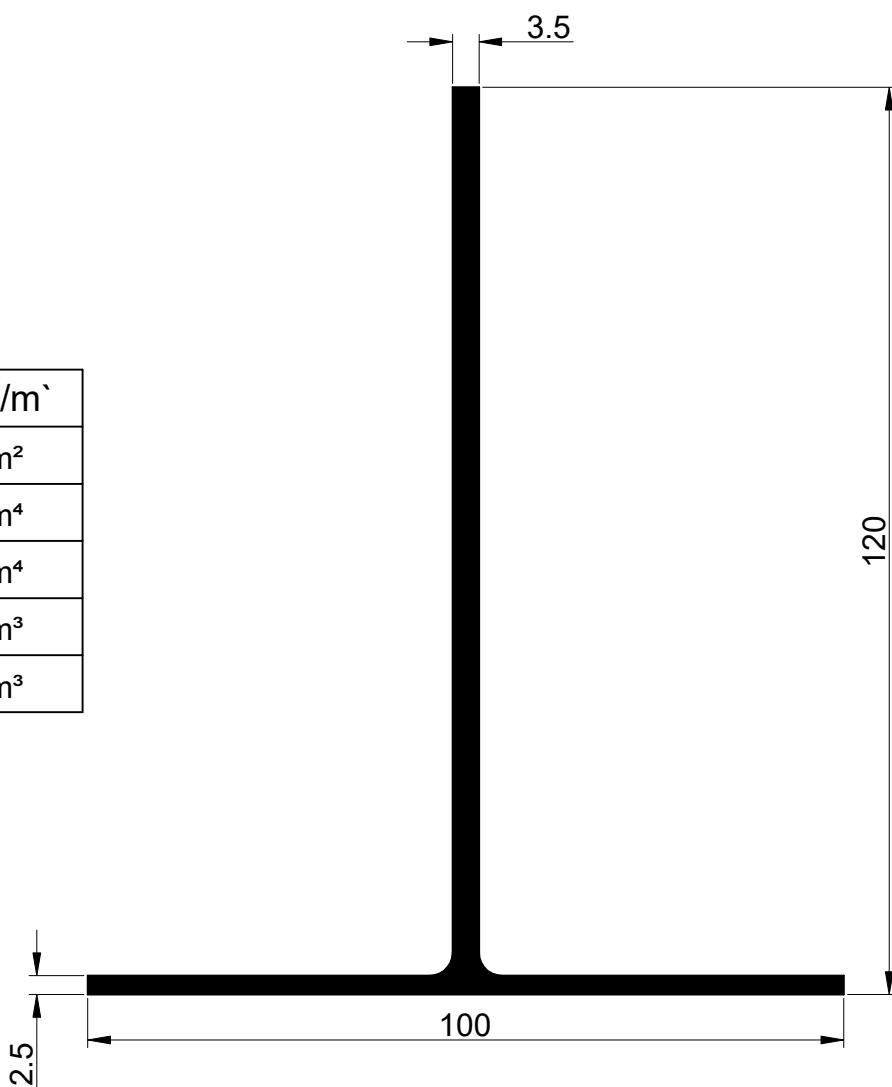
V08	1,031	kg/m`
S	3,748	cm ²
I _x	10,969	cm ⁴
I _y	28,807	cm ⁴
W _x	2,247	cm ³
W _y	4,801	cm ³

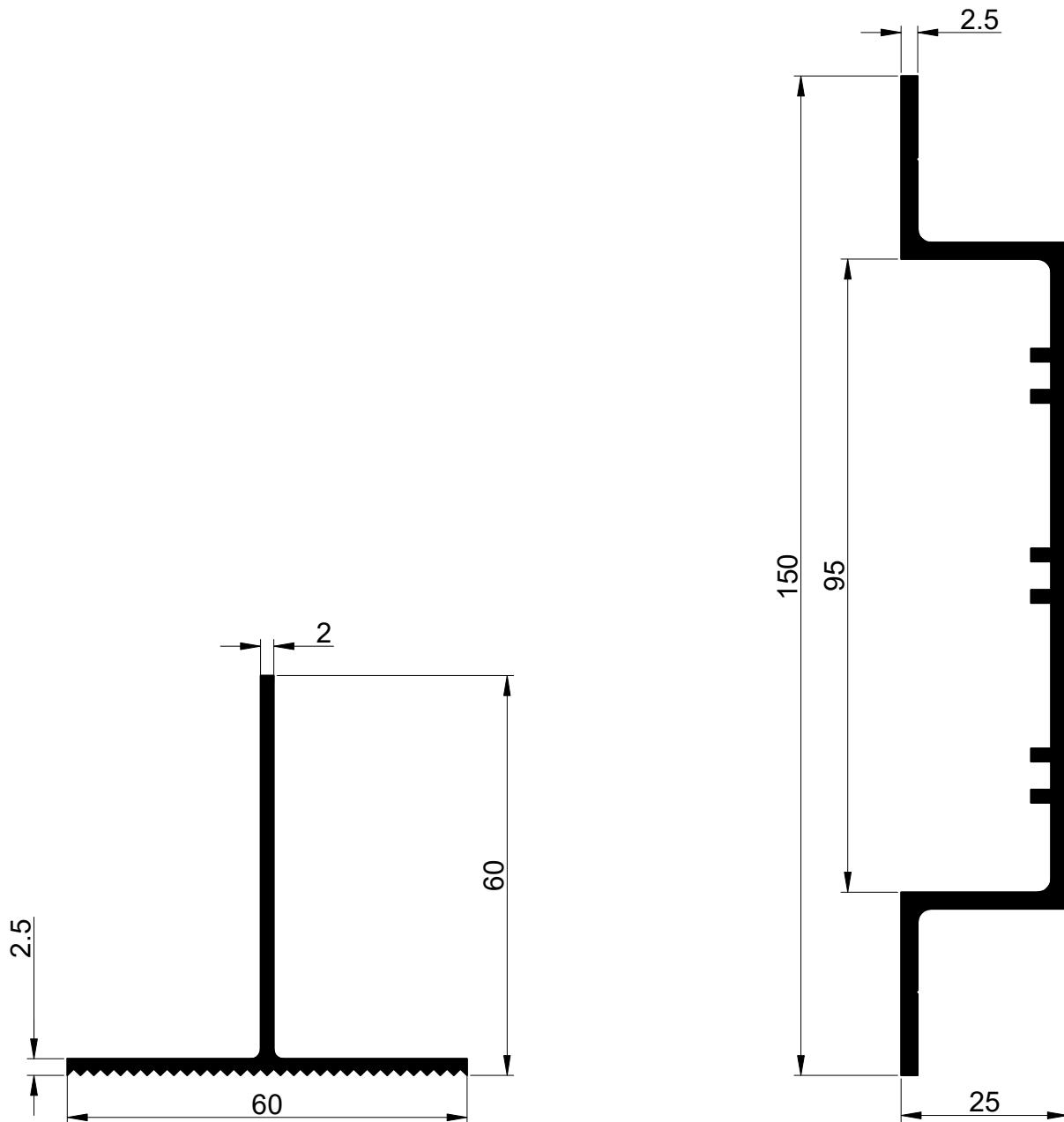


V95	0,798	kg/m`
S	2,9	cm ²
I _x	8,54	cm ⁴
I _y	9,84	cm ⁴
W _x	1,865	cm ³
W _y	2,46	cm ³



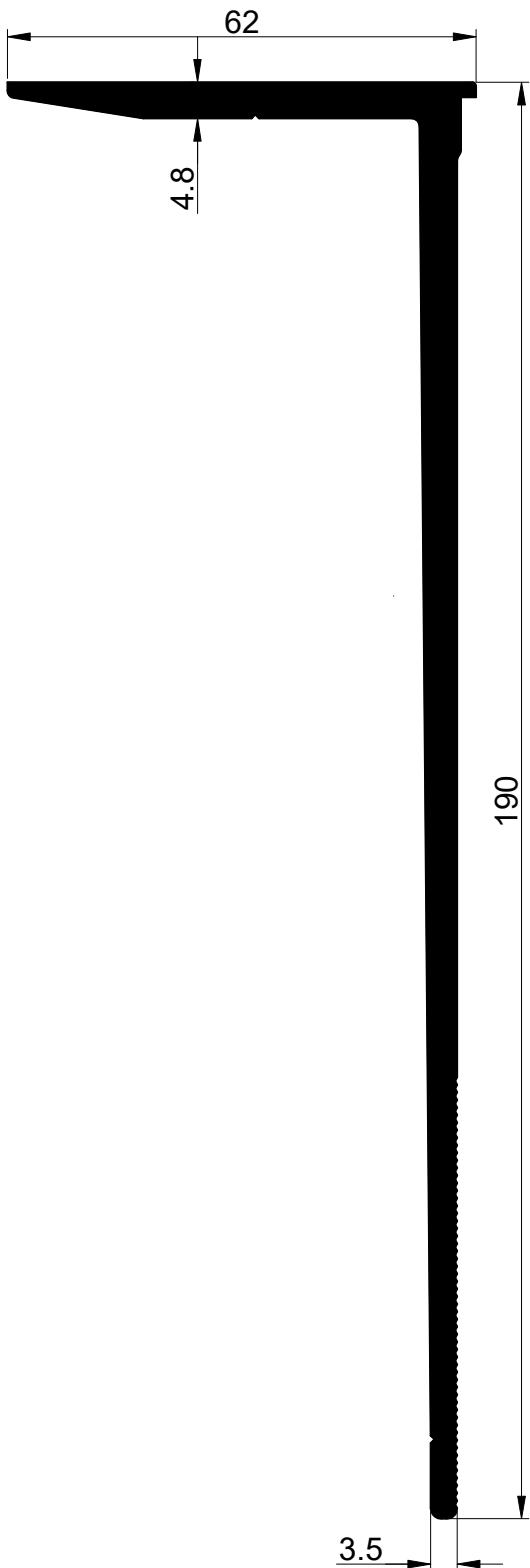
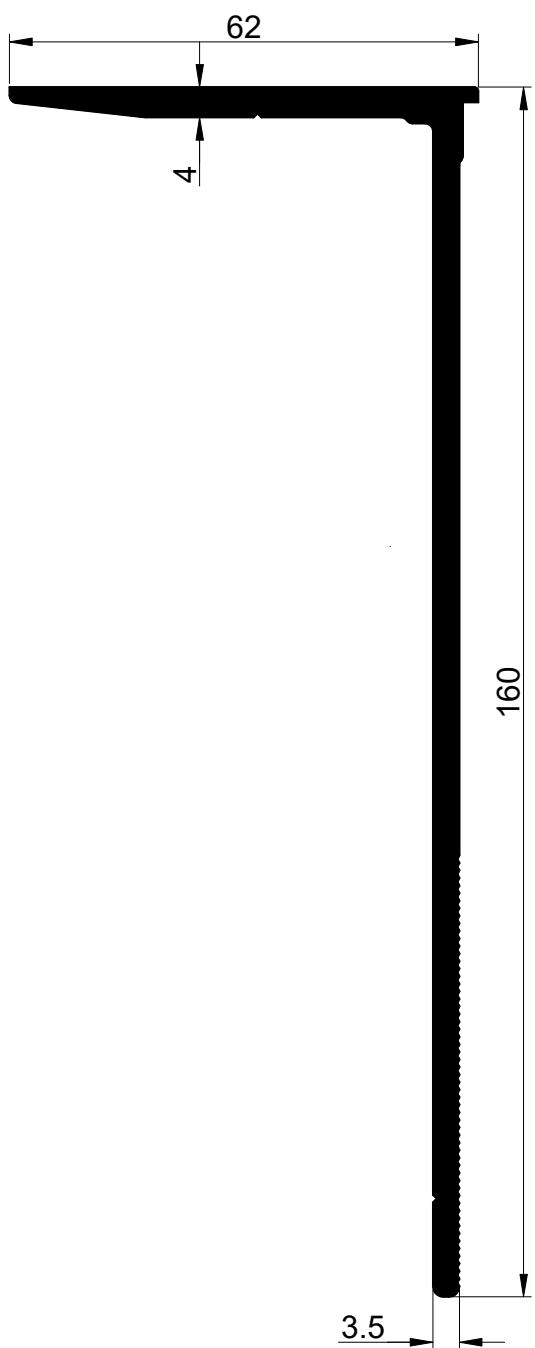
V20	1,829	kg/m`
S	6,651	cm ²
I _x	103,78	cm ⁴
I _y	20,877	cm ⁴
W _x	12,718	cm ³
W _y	4,175	cm ³





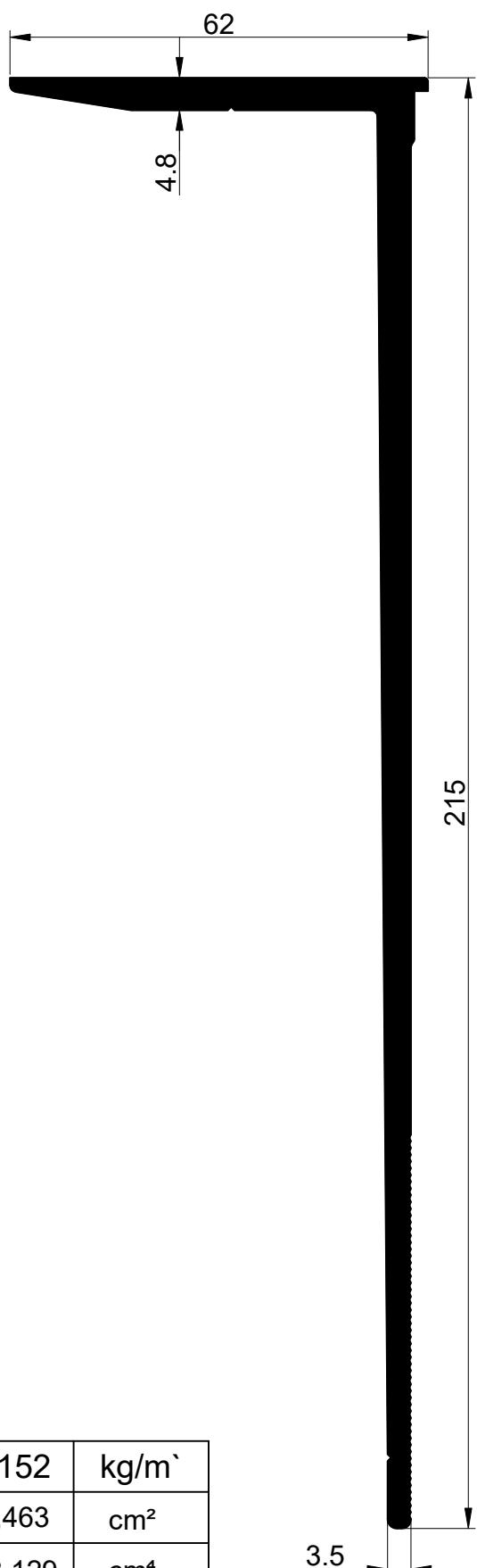
V125	0,651	kg/m`
S	2,358	cm ²
I _x	8,392	cm ⁴
I _y	3,605	cm ⁴
W _x	1,907	cm ³
W _y	1,202	cm ³

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

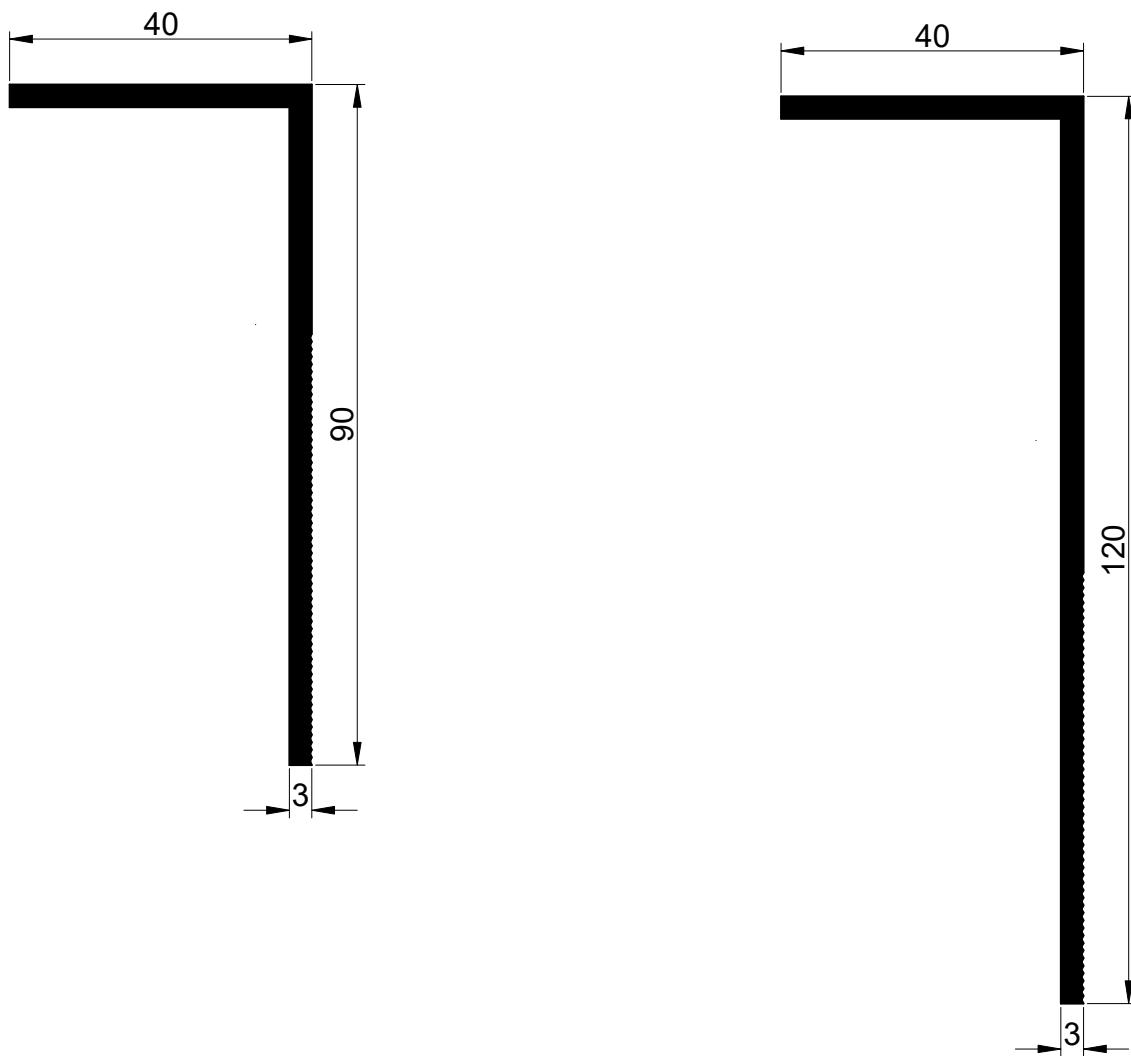


V11	2,115	kg/m`
S	7,691	cm ²
I _x	214,902	cm ⁴
I _y	11,529	cm ⁴
W _x	21,642	cm ³
W _y	2,292	cm ³

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

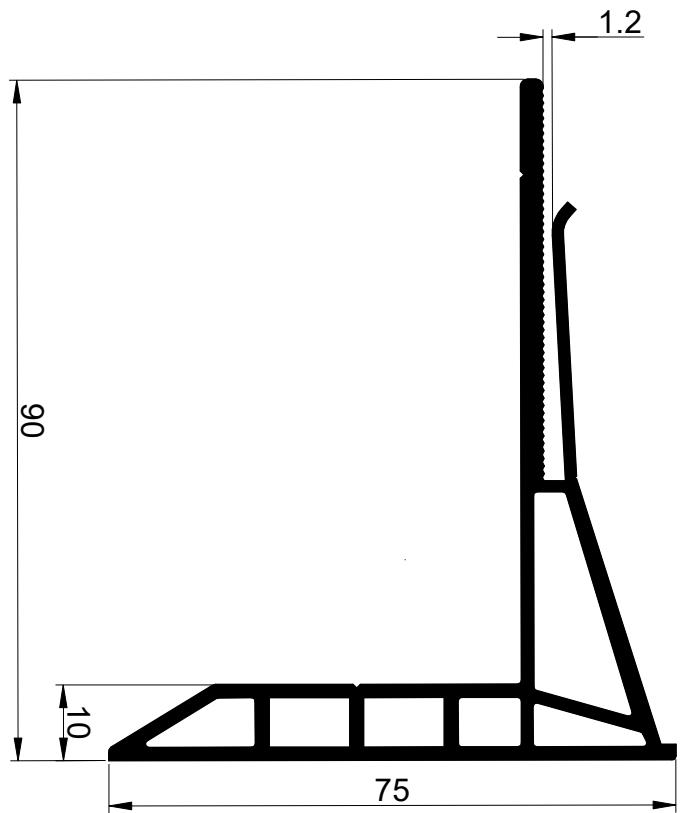
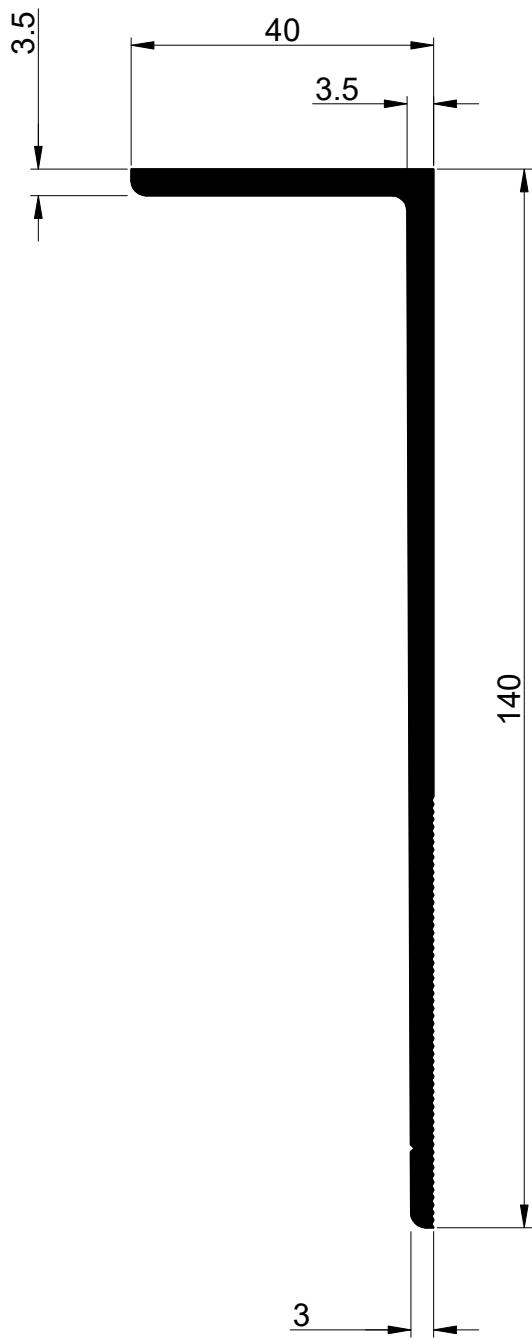


V126	3,152	kg/m ³
S	11,463	cm ²
I _x	523,129	cm ⁴
I _y	19,767	cm ⁴
W _x	38,465	cm ³
W _y	3,801	cm ³



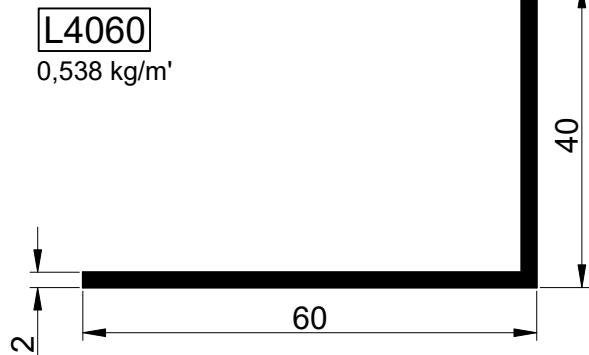
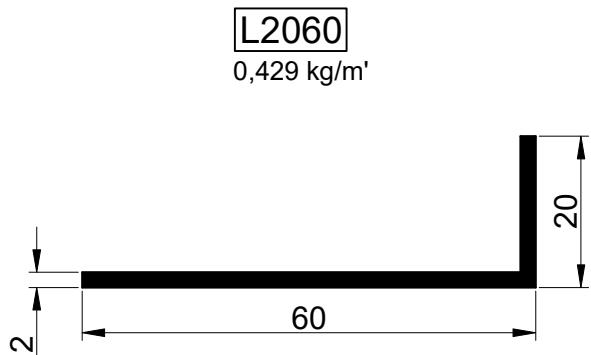
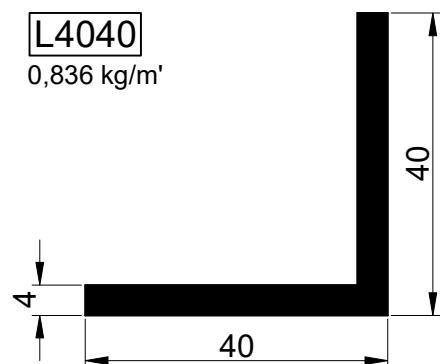
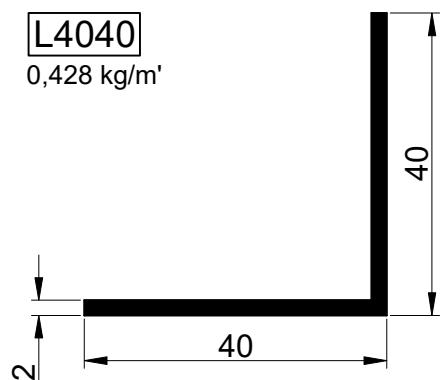
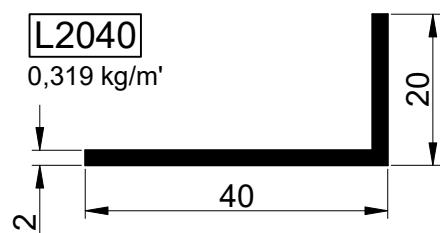
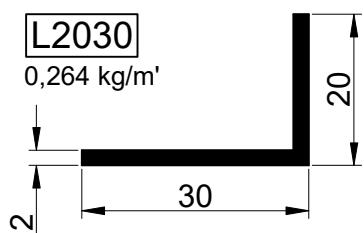
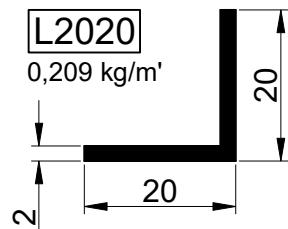
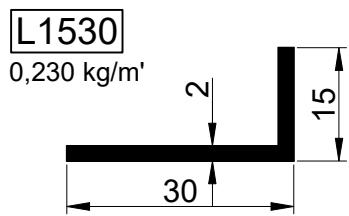
V16	1,028	kg/m`
S	3,739	cm ²
I _x	33,828	cm ⁴
I _y	2,874	cm ⁴
W _x	5,812	cm ³
W _y	0,884	cm ³

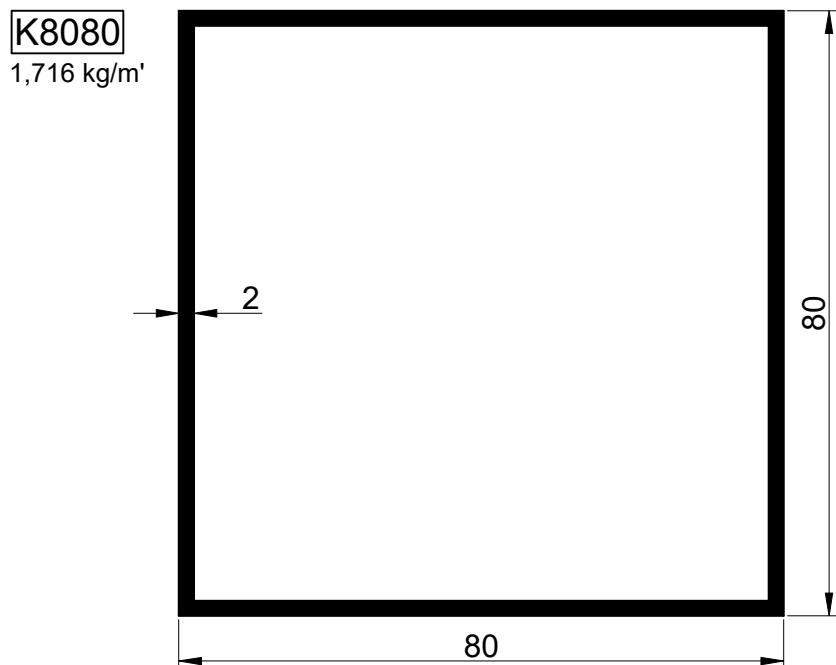
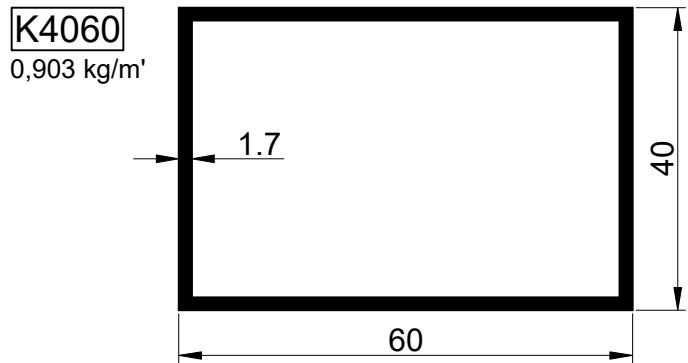
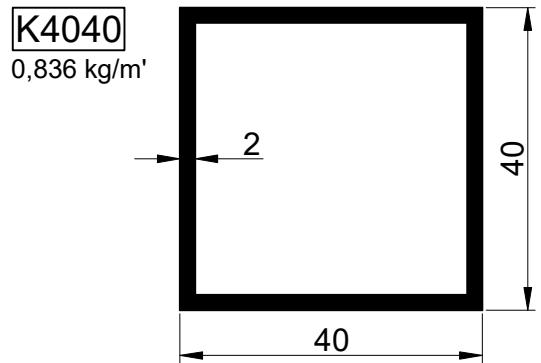
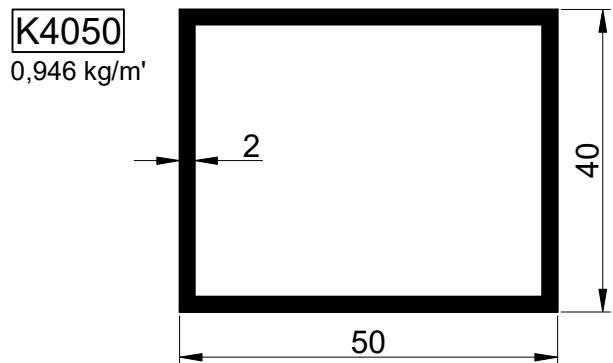
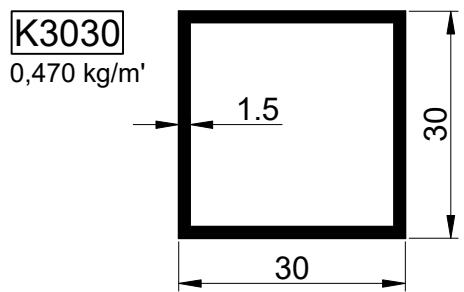
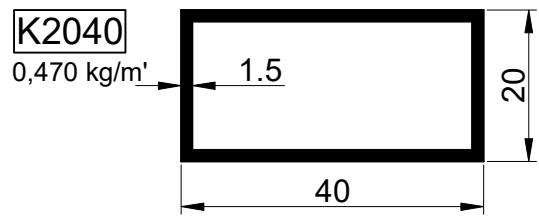
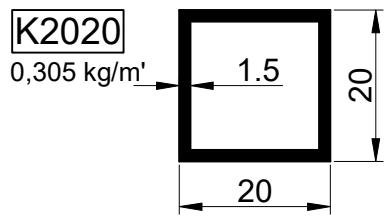
V10	1,276	kg/m`
S	4,639	cm ²
I _x	71,971	cm ⁴
I _y	3,254	cm ⁴
W _x	9,660	cm ³
W _y	0,965	cm ³

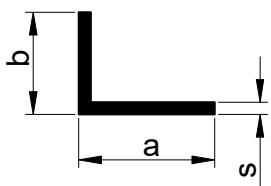


V117	1,585	kg/m`
S	5,762	cm ²
I _x	116,68	cm ⁴
I _y	3,847	cm ⁴
W _x	13,38	cm ³
W _y	1,135	cm ³

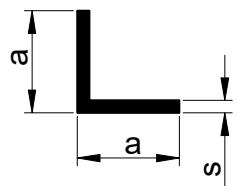
V13	1,705	kg/m`
S	6,201	cm ²
I _x	15,098	cm ⁴
I _y	50,502	cm ⁴
W _x	3,118	cm ³
W _y	7,953	cm ³



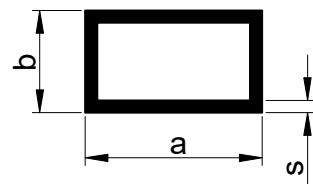


L profili
L profiles


Oznaka	Code	a	b	s	kg/m
L1015		15	10	1,5	0,097
L1030		10	30	2,0	0,209
L1530		30	15	2,0	0,237
L2030		30	20	2,0	0,264
L2040		40	20	2,0	0,319
L2040		40	20	3,2	0,500
L1050		50	10	2,0	0,319
L2060		60	20	2,0	0,429
L3050		30	50	2,0	0,429
L4060		60	40	2,0	0,539
L40100		100	40	6,0	2,211

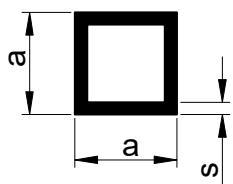
 L profili
L profiles


Oznaka	Code	a	s	kg/m
L1010		10	1,5	0,076
L1515		15	1,5	0,118
L2020		20	2,0	0,209
L2525		25	2,0	0,237
L3030		30	2,0	0,319
L4040		40	2,0	0,429
L4040		40	4,0	0,836
L7070		70	8,0	2,904
L100100		100	4,0	2,156

 Pravougaone cevi
Rectangular pipes


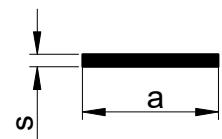
Oznaka	Code	a	b	s	kg/m
K1218		18	12	1,0	0,154
K1530		30	15	1,5	0,347
K1822		22	18	1,0	0,209
K18100		100	18	1,5	0,949
K2040		40	20	1,2	0,380
K2040		40	20	1,5	0,470
K2045		45	20	1,5	0,512
K2060		60	20	1,5	0,635
K2080		80	20	1,2	0,644
K2080		80	20	1,5	0,800
K2540		40	25	1,5	0,512
K2585		85	25	1,2	0,710
K25130		130	25	2,0	1,661
K4050		50	40	2,0	0,946
K4060		60	40	1,7	0,903
K4060		60	40	2,5	1,306
K4080		80	40	1,2	0,776
K6070		70	60	2,0	1,386
K20150		150	20	1,7	1,558

Kvadratne cevi
Square pipes



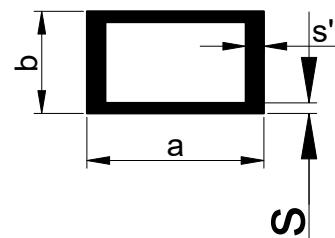
Oznaka	Code	a	s	kg/m
K1414		14	1,0	0,143
K1818		18	1,0	0,187
K2020		20	1,0	0,205
K2020		20	1,5	0,305
K2525		25	1,2	0,315
K3030		30	1,0	0,319
K3030		30	1,2	0,380
K3030		30	1,5	0,470
K4040		40	1,2	0,512
K4040		40	2,0	0,836
K5050		50	2,0	1,064
K8080		80	2,0	1,716

Flahovi
Flat profiles



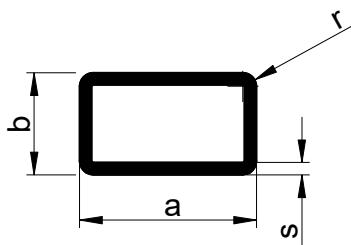
Oznaka	Code	a	s	kg/m
FL10-3		10	3,0	0,083
FL25-4		25	4,0	0,275
E09		73	10,0	2,010
FL120-5		120	5,0	1,650

Pravougaone cevi
Rectangular pipes



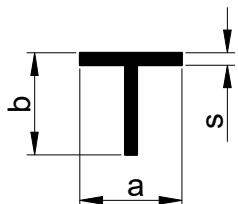
Oznaka	Code	a	b	s/s'	kg/m
K70130		130	70	2,0/3,5	2,700

Pravougaone cevi
Rectangular pipes



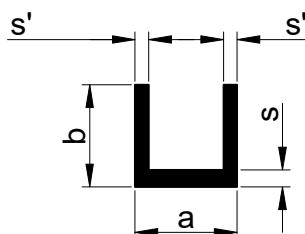
Oznaka	Code	a	b	s	r	kg/m
K2030		30	20	1,2	3	0,301

T profili
T profiles



Oznaka	Code	a	b	s	kg/m
T2020		20	20	2,0	0,209
T2525		25	25	2,0	0,264
T3030		30	30	2,0	0,319

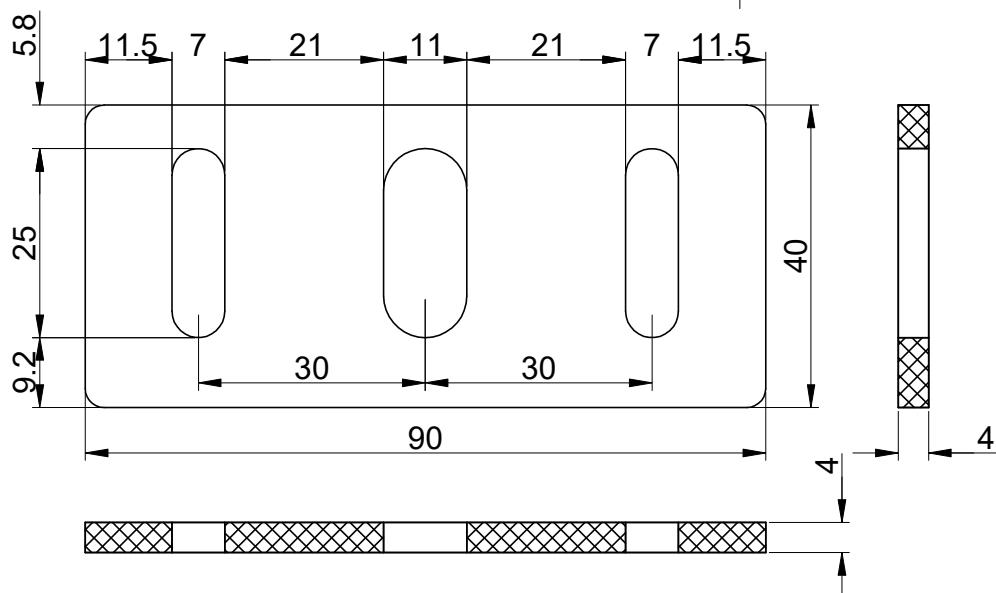
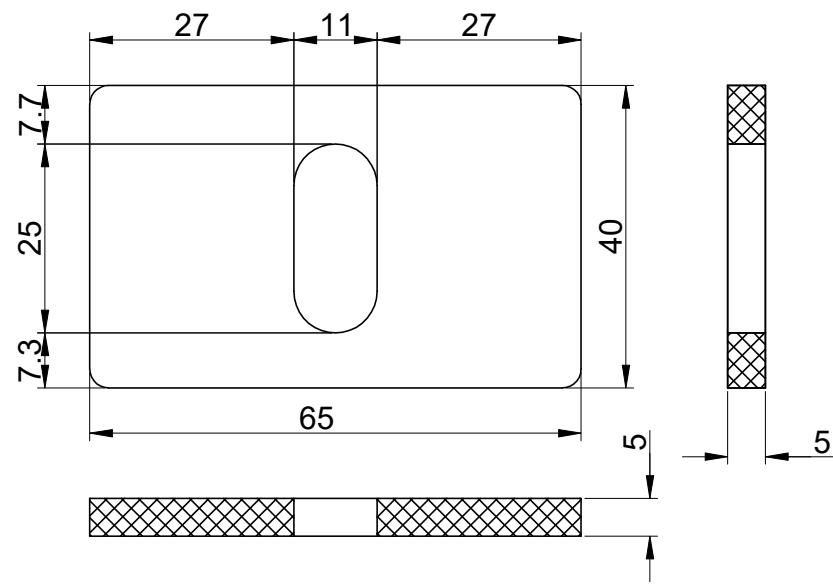
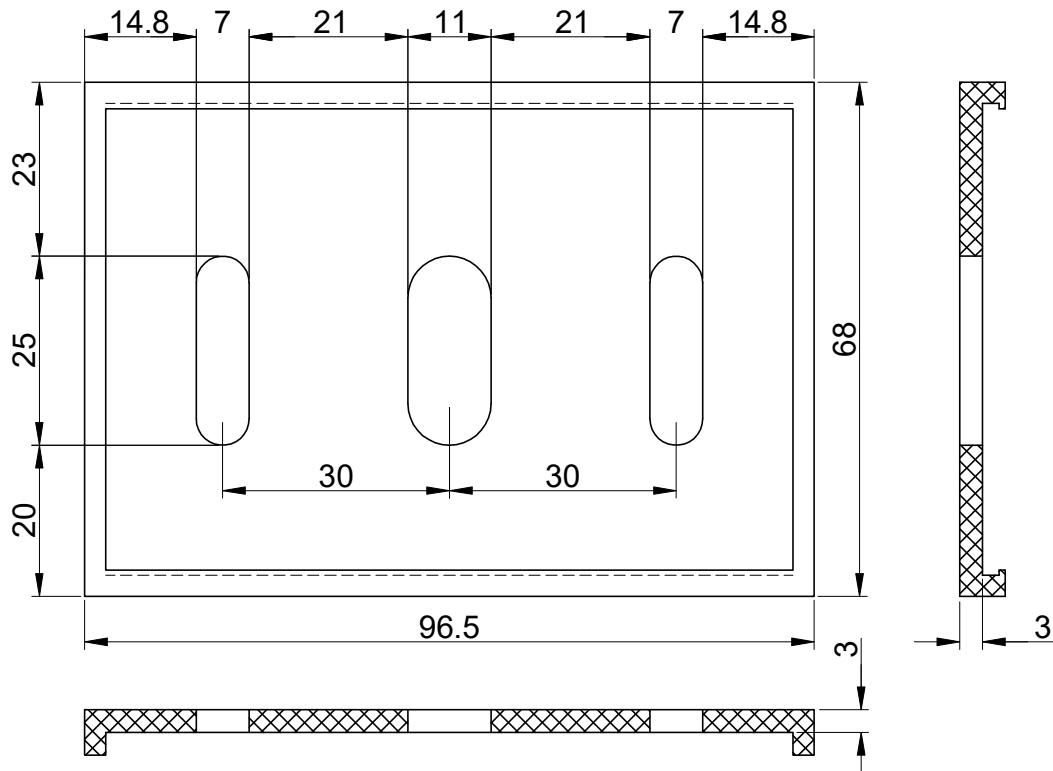
U profili
U profiles



Oznaka	Code	a	b	s/s'	kg/m
U1515		15	15	1,5/1,5	0,173
U5050		50	50	2,5/2,0	0,862
U405040-2		50	40	2,0/2,0	0,693

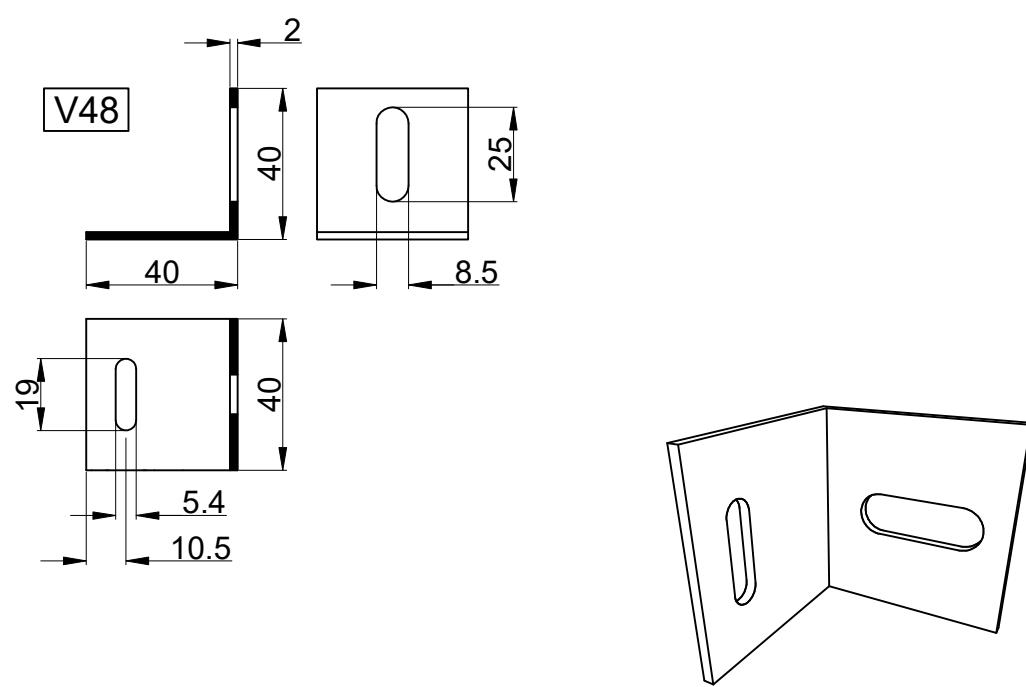
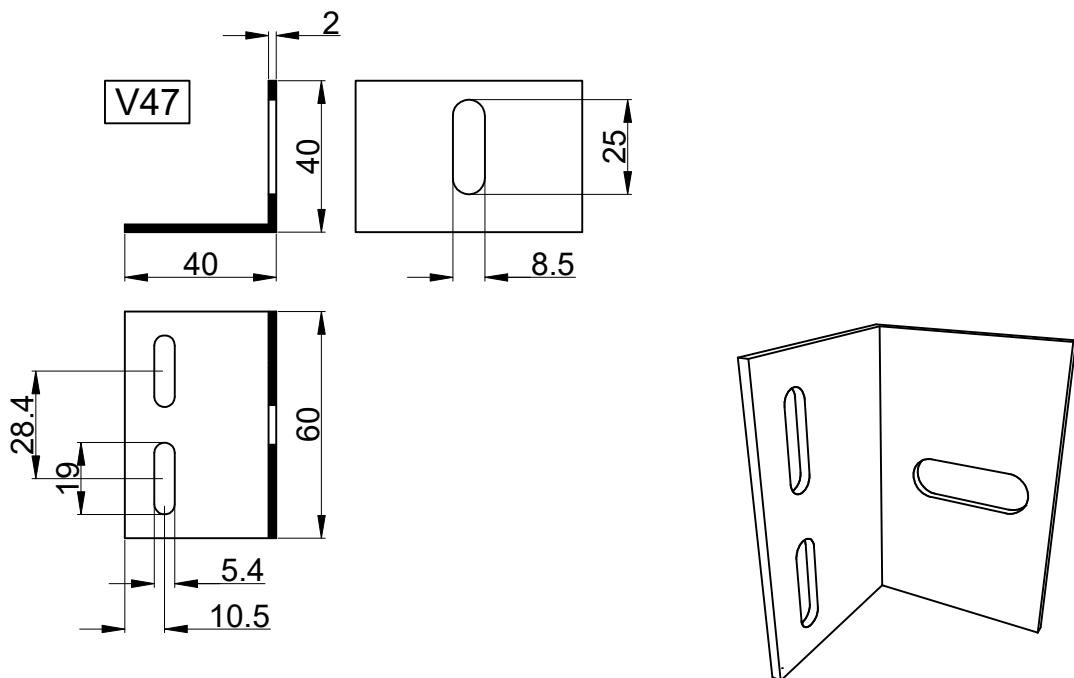
*Lista artikala i pratećeg materijala
Articles and accessories list*

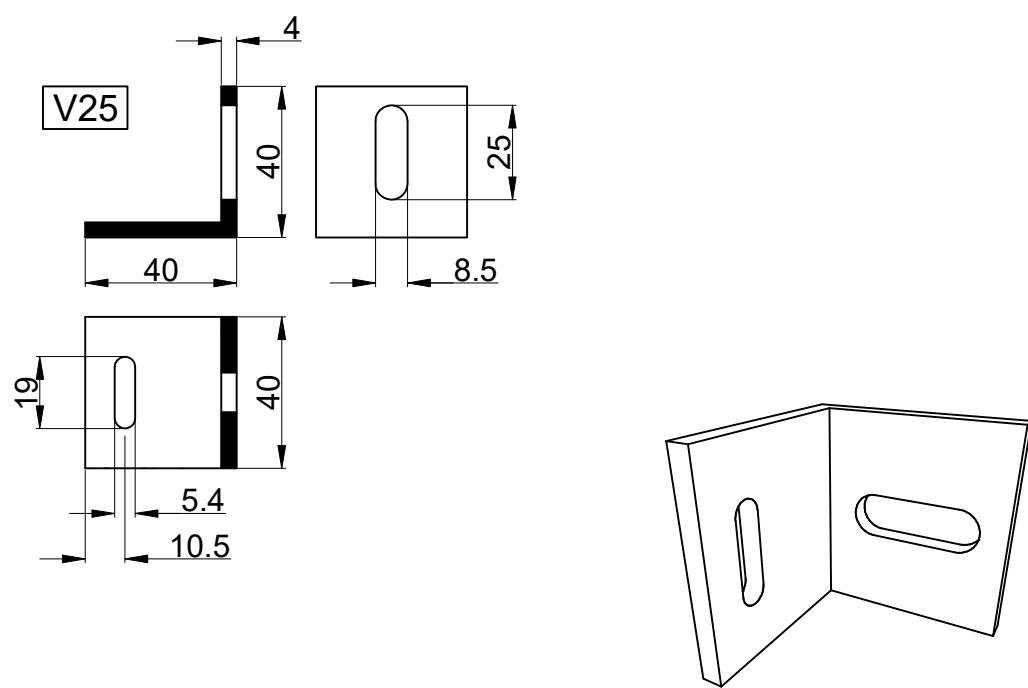
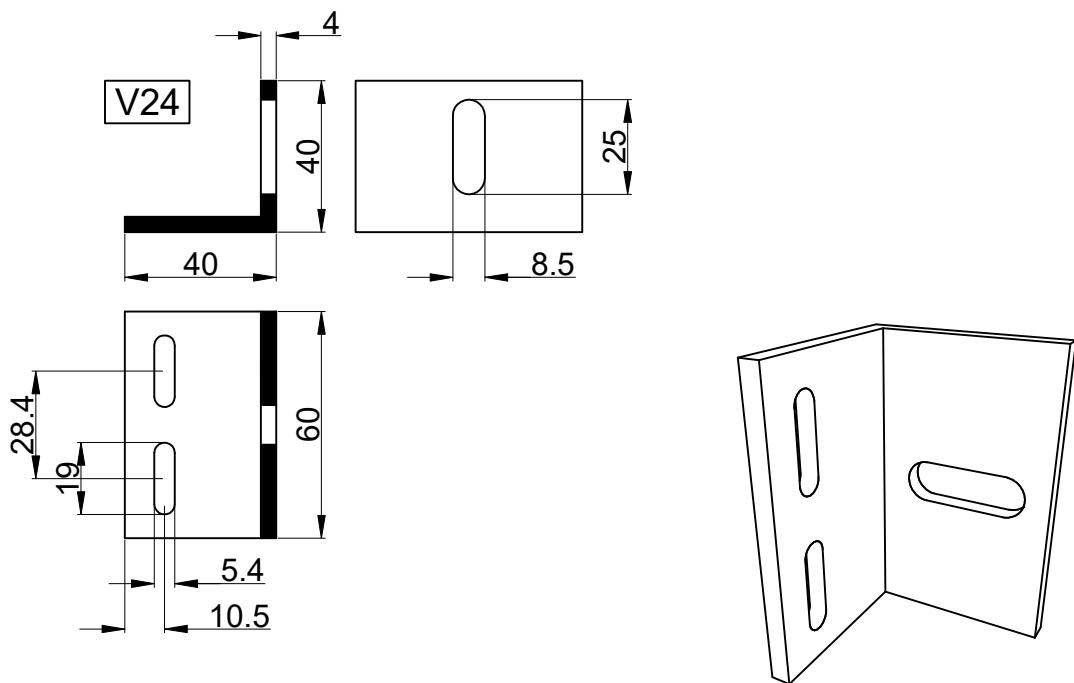


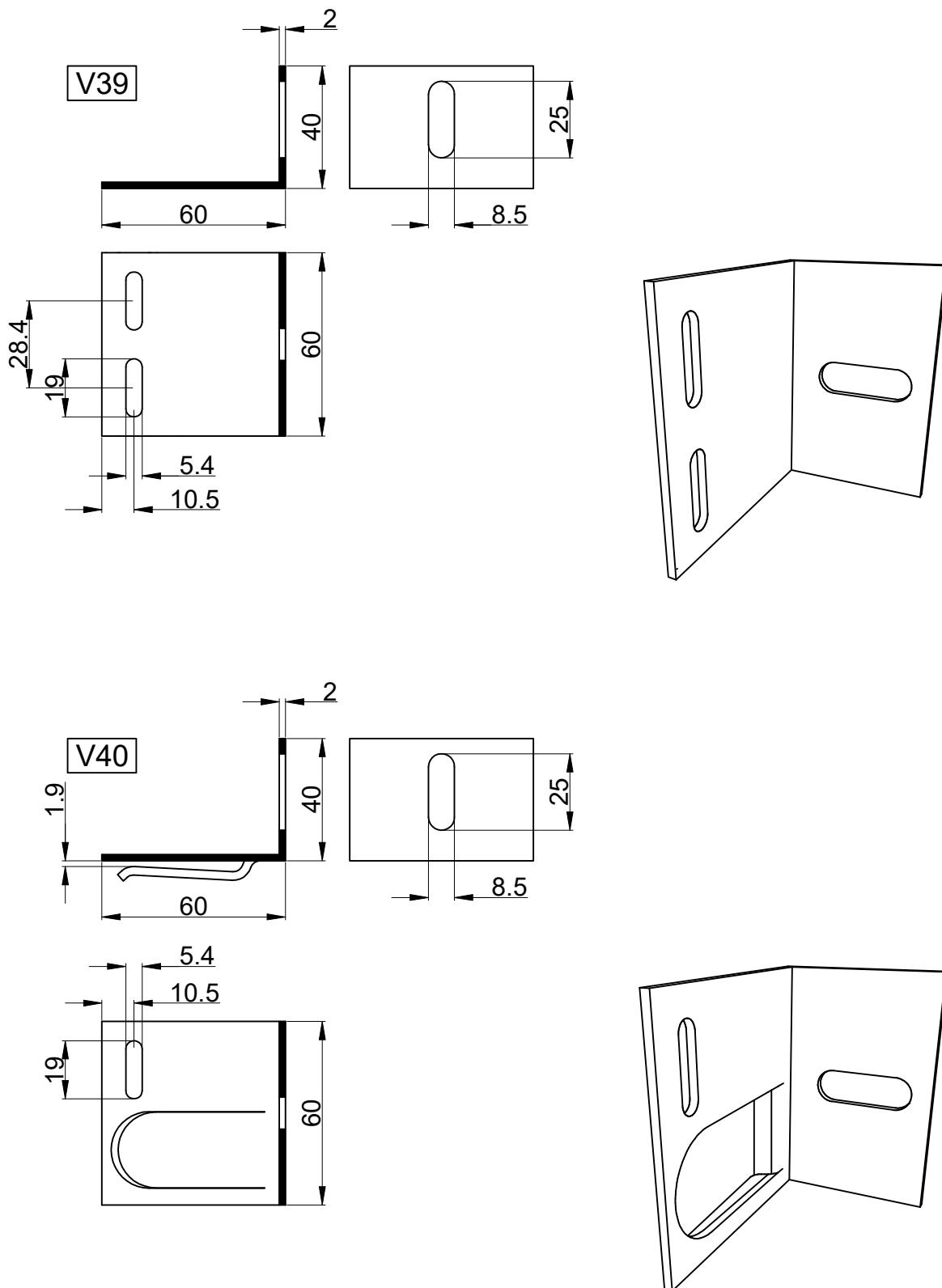


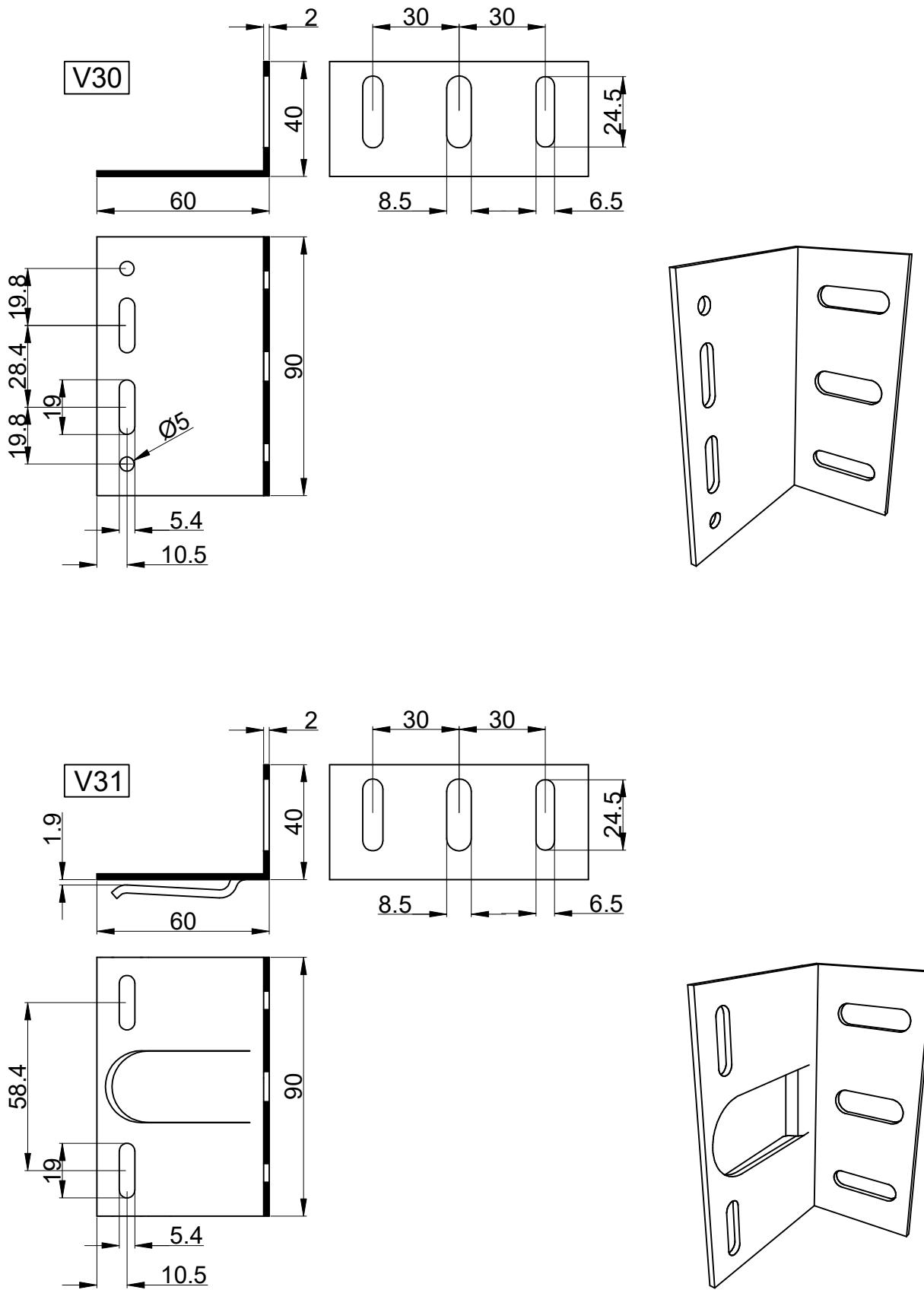
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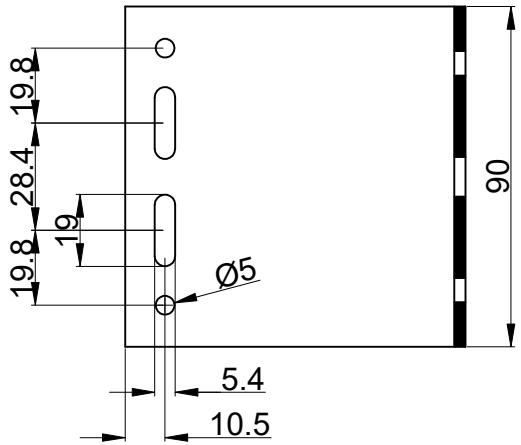
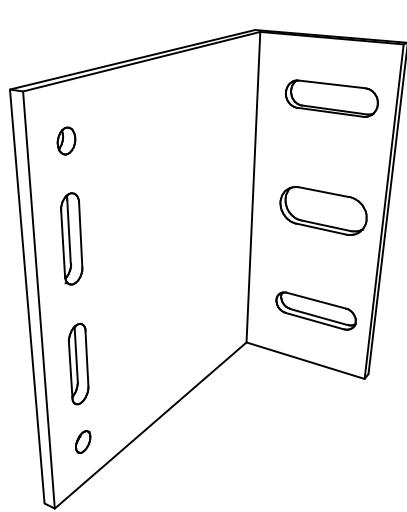
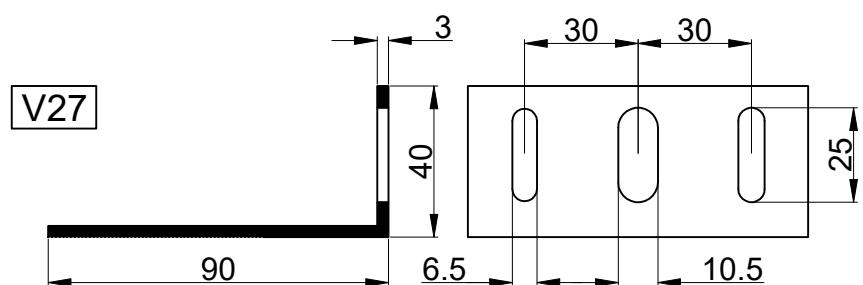
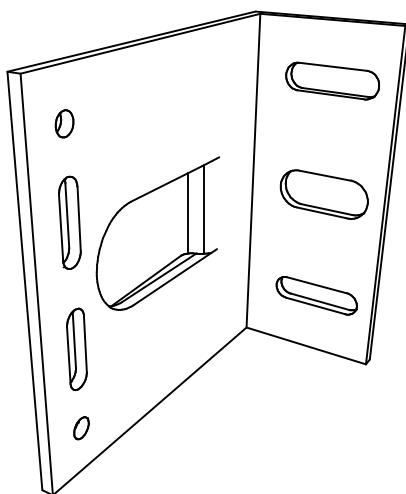
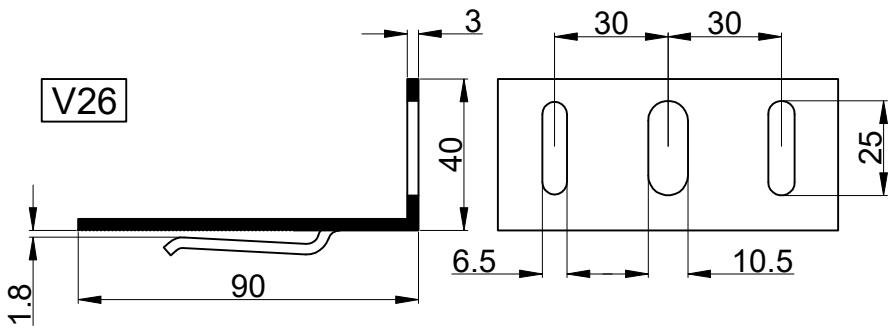


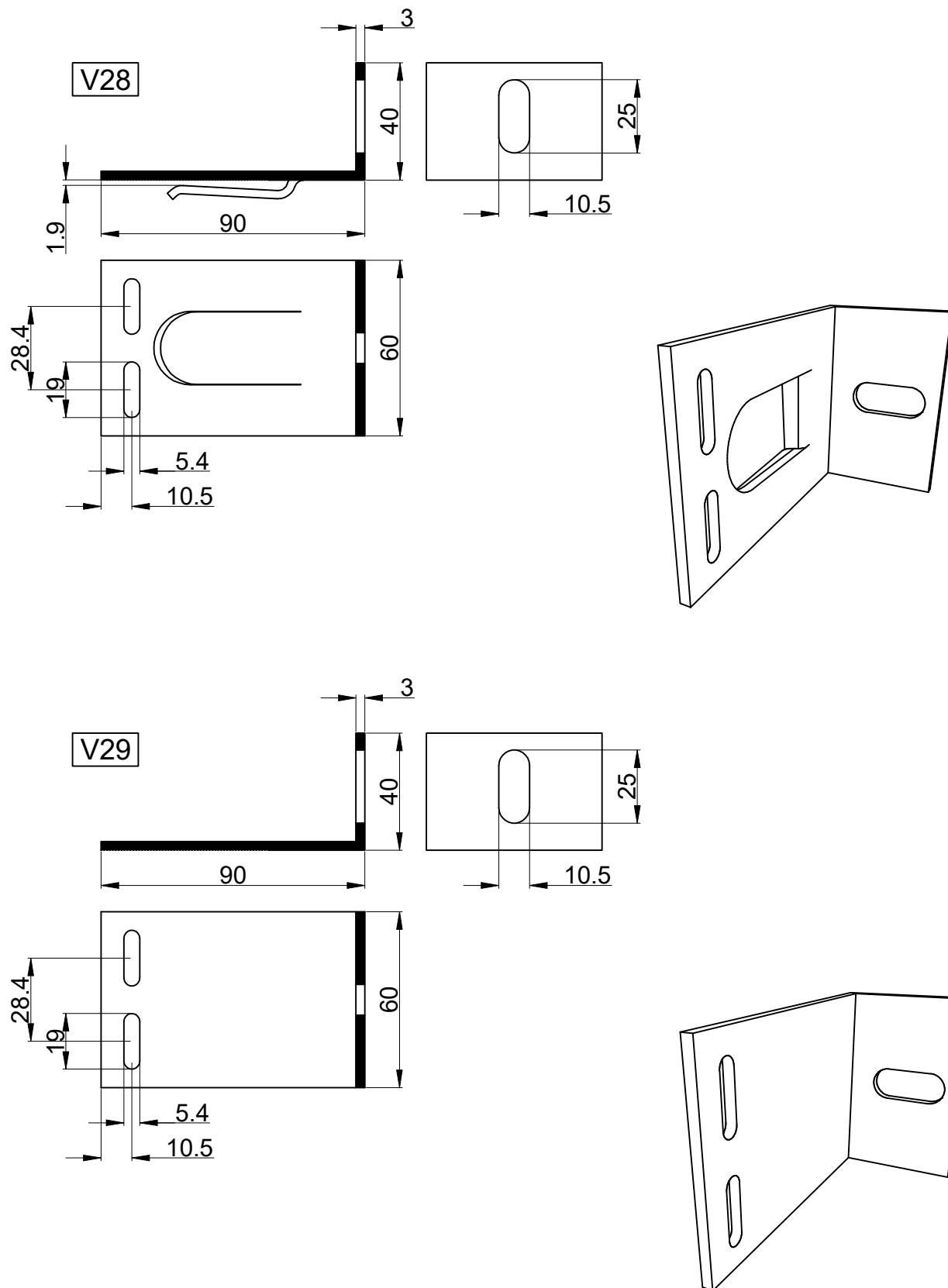


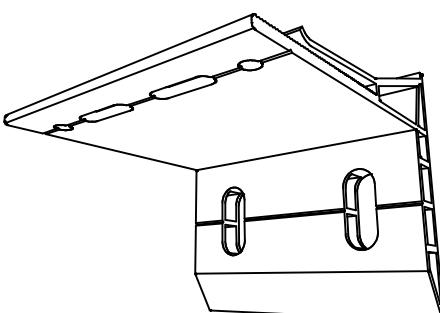
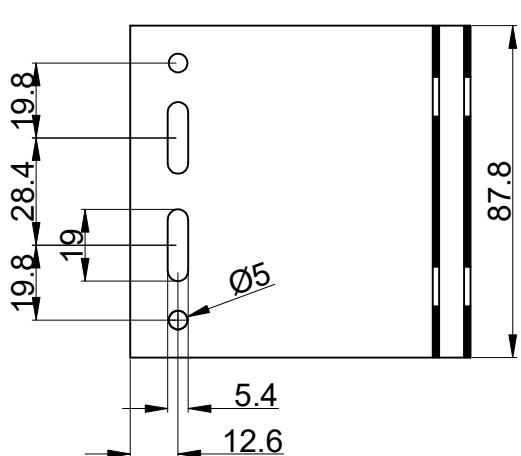
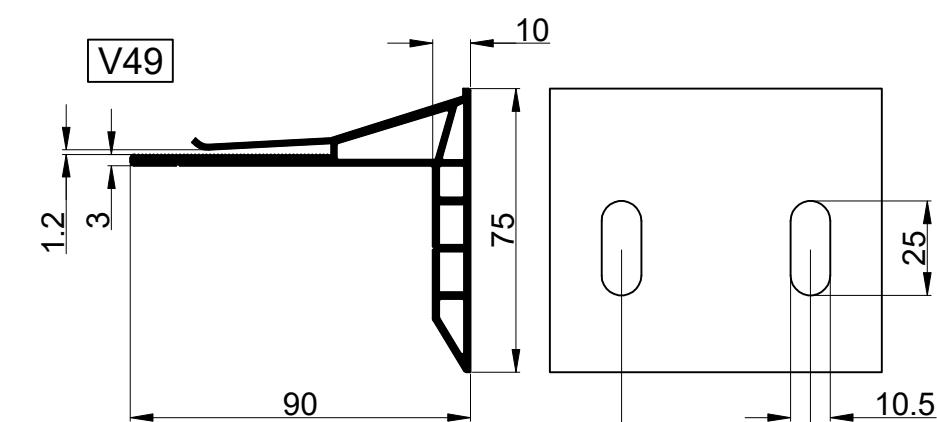
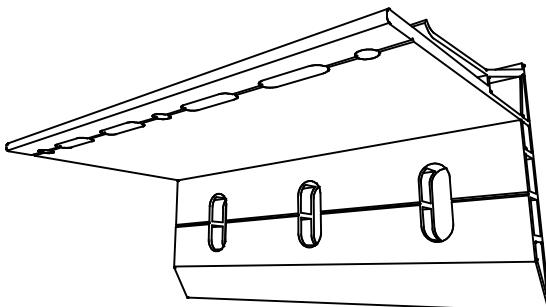
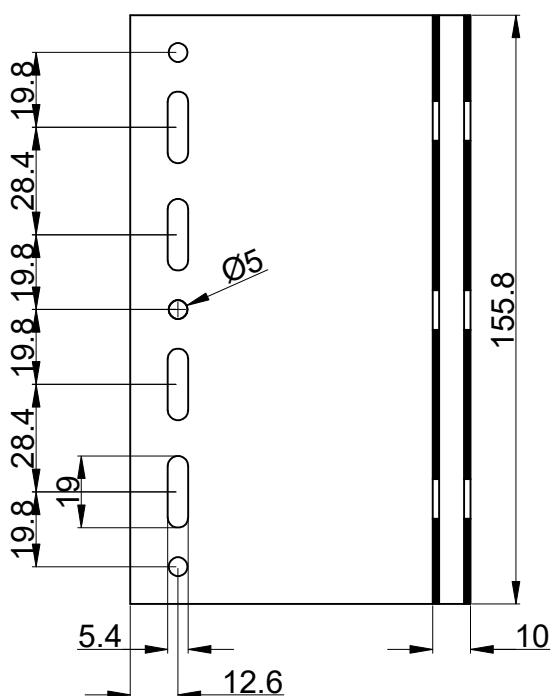
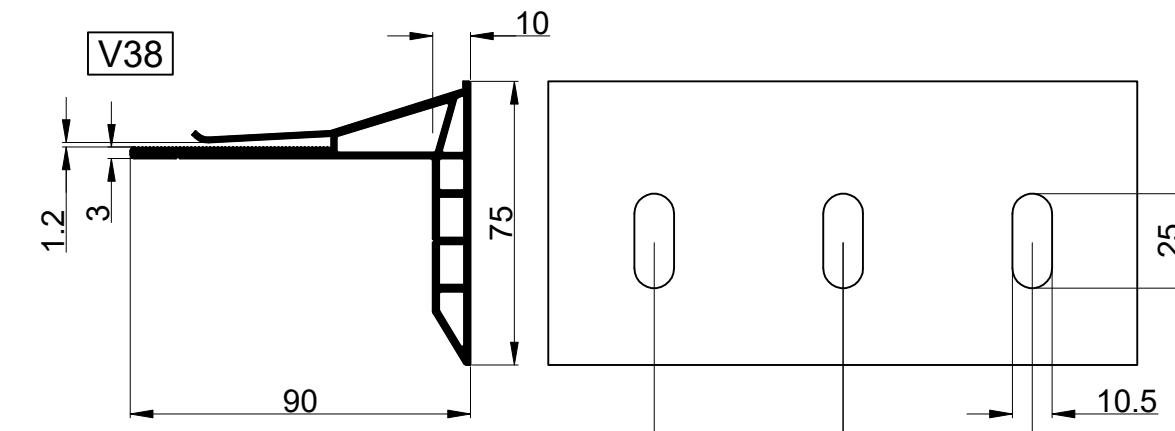


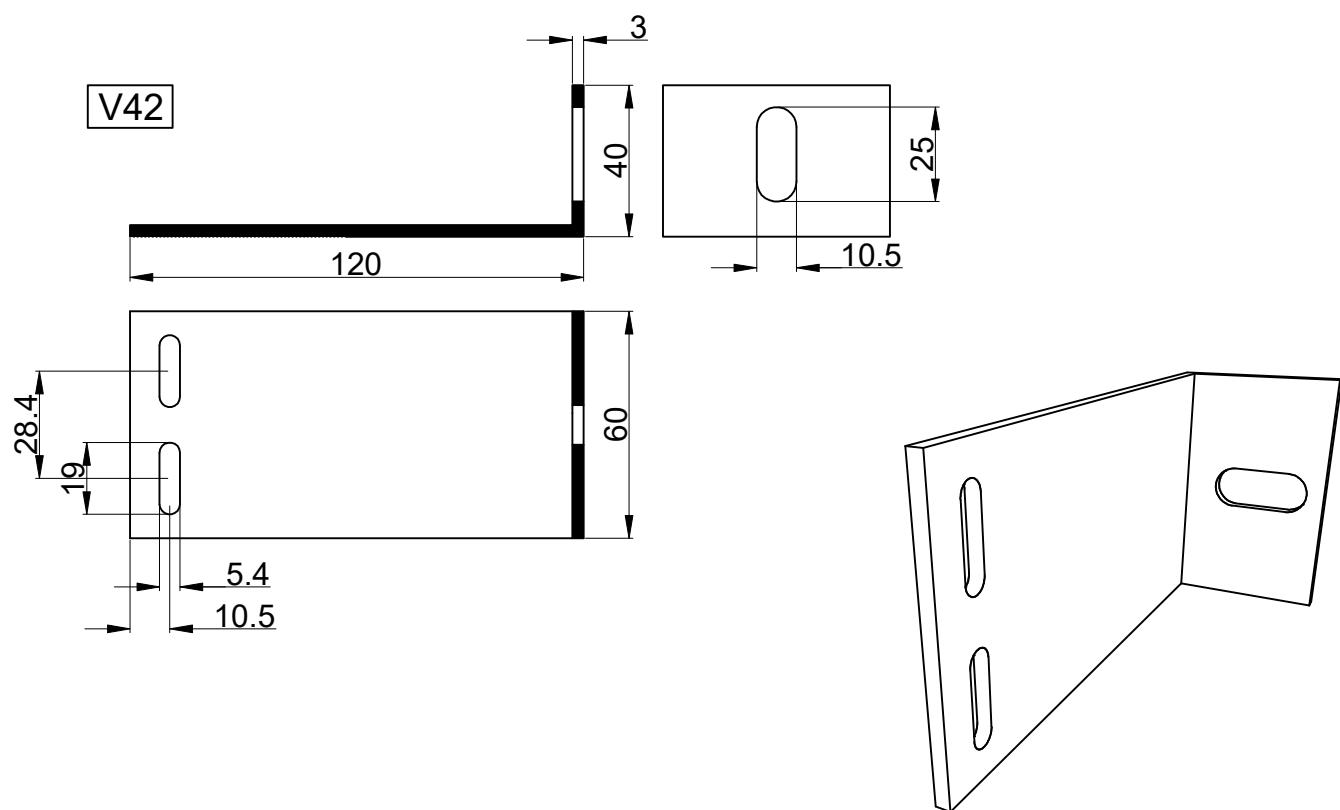
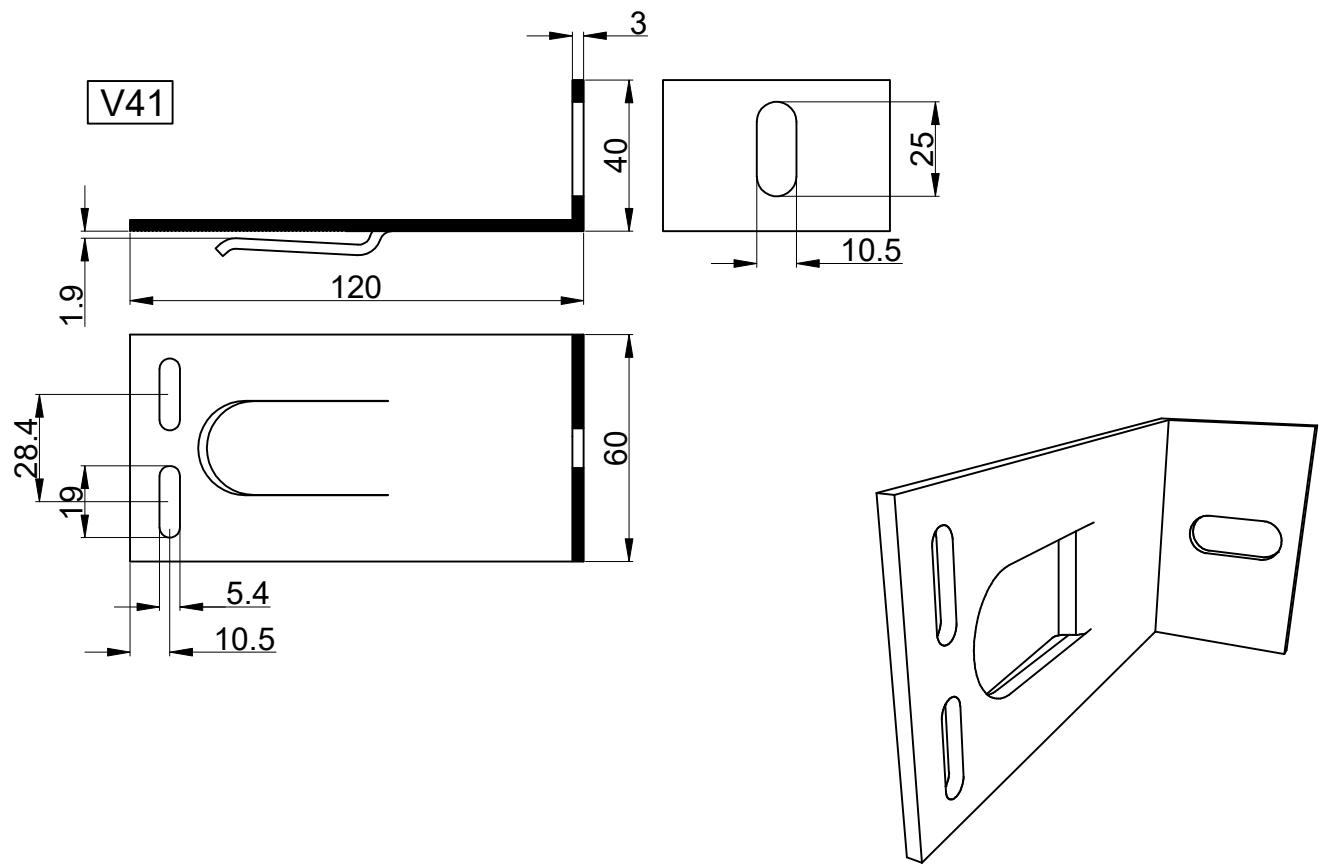


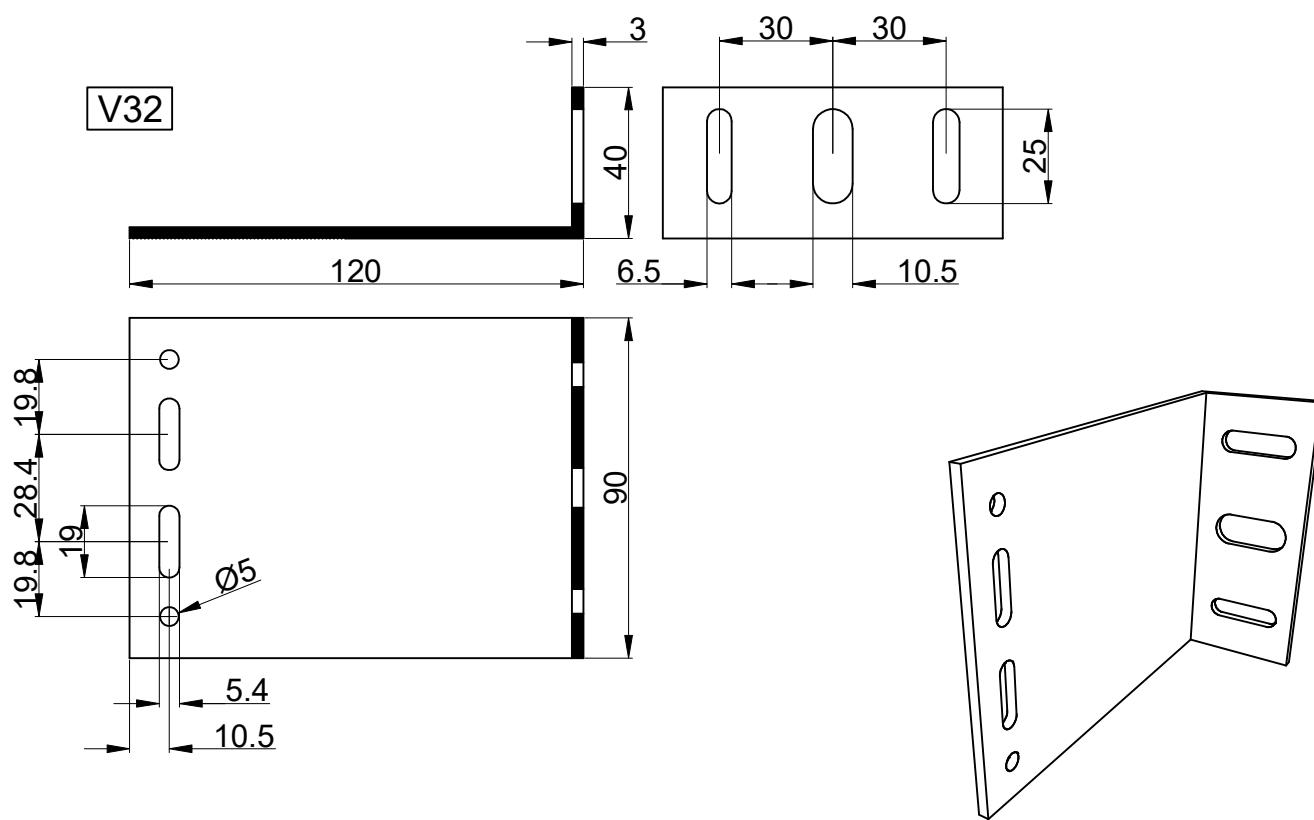
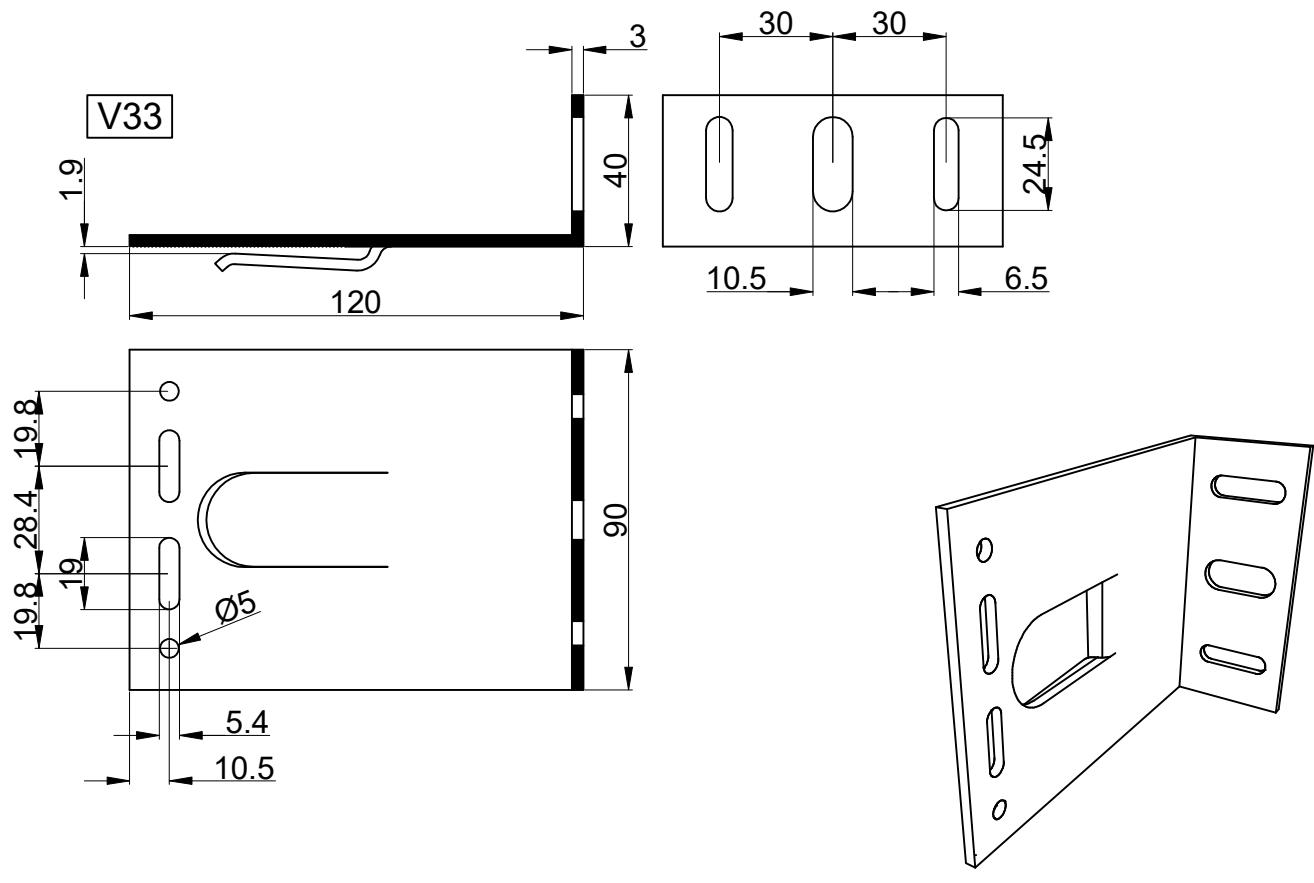


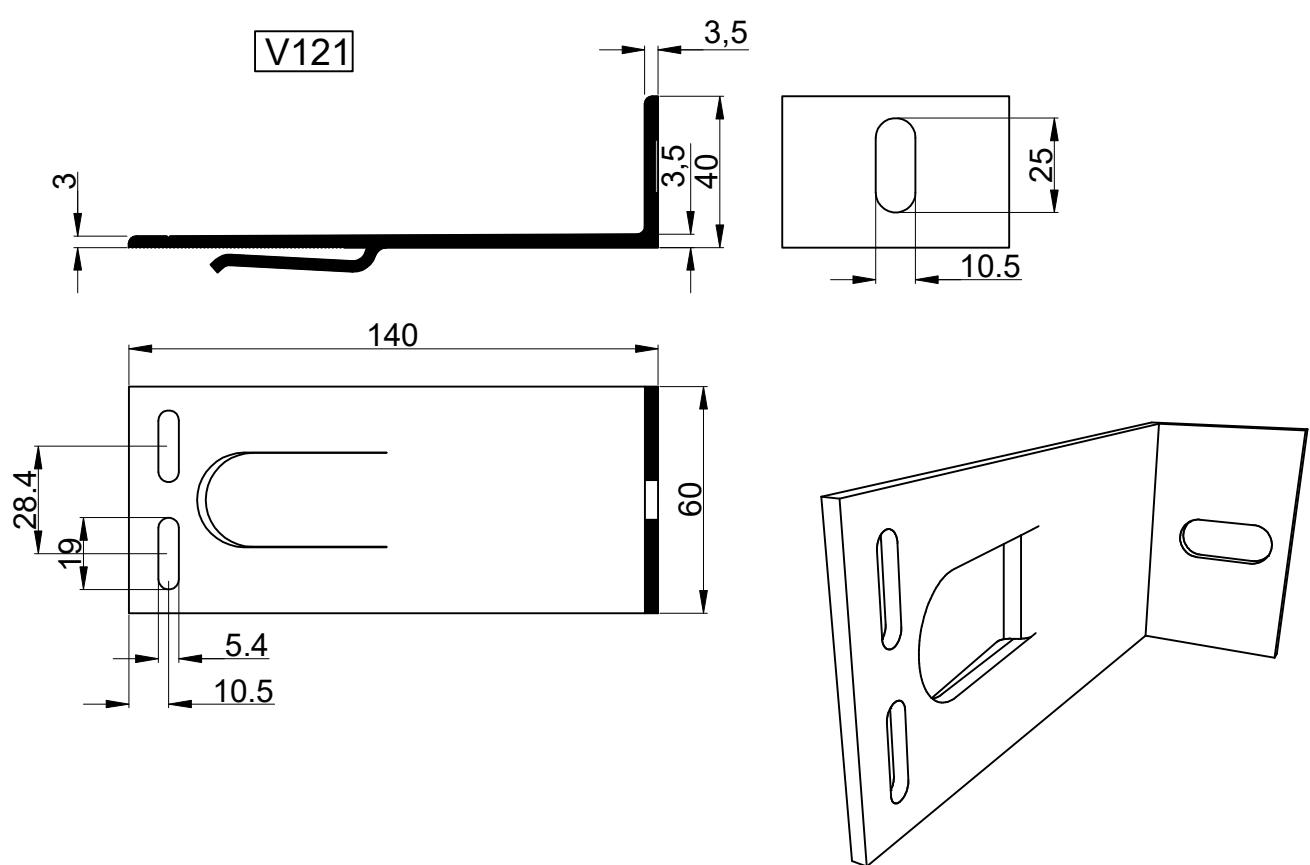
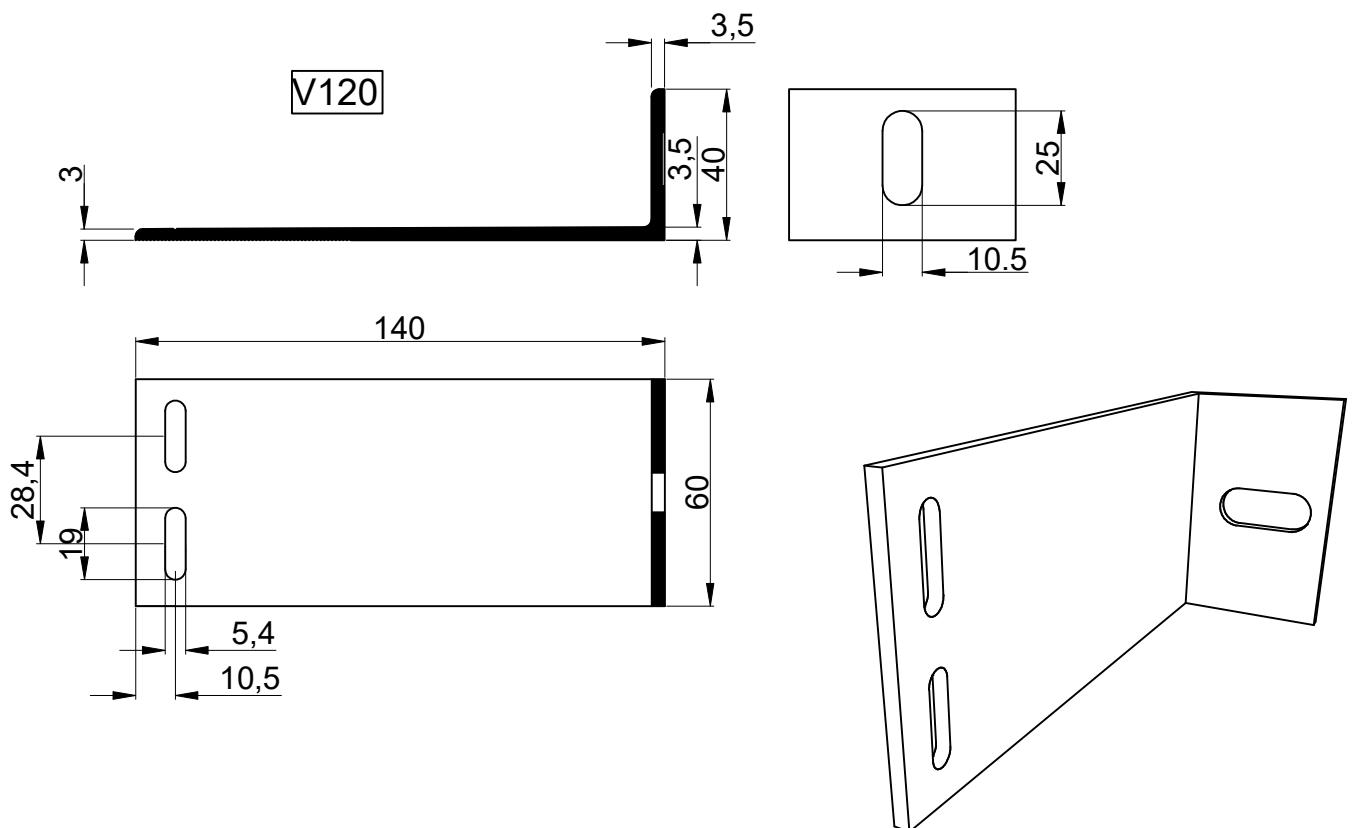


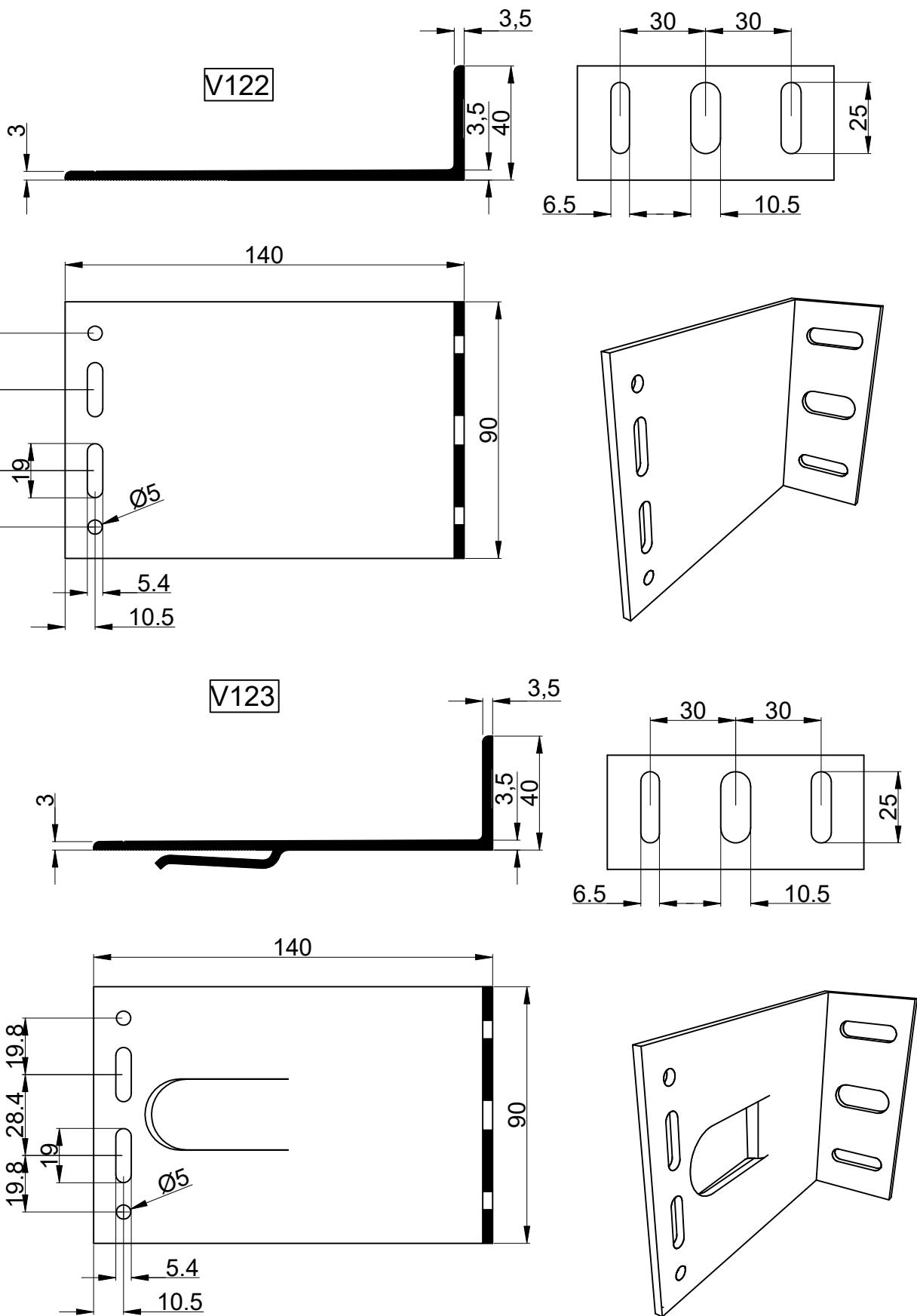




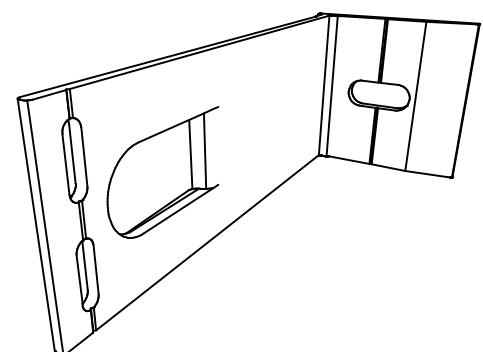
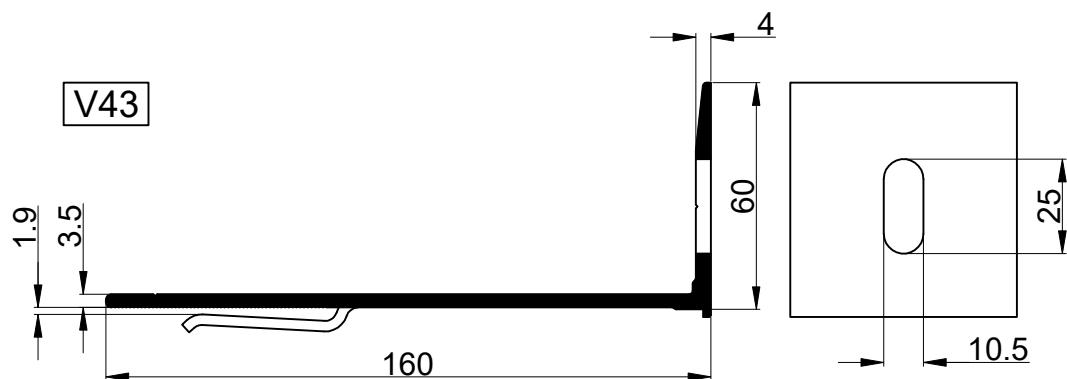




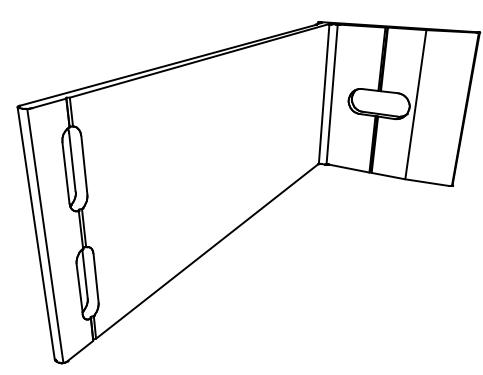
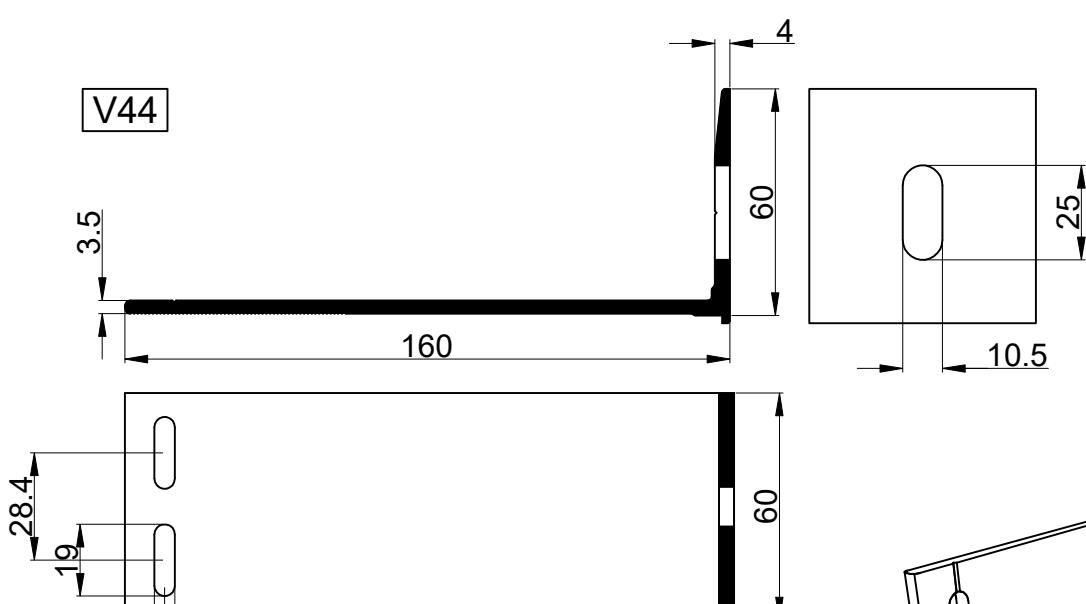




V43



V44

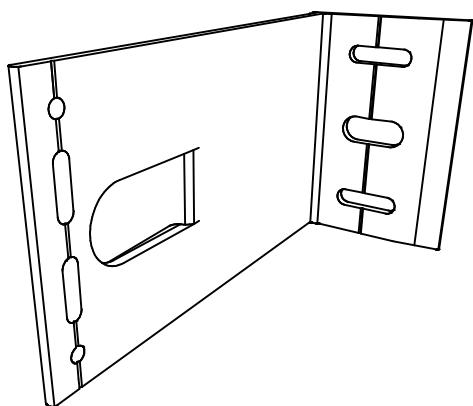
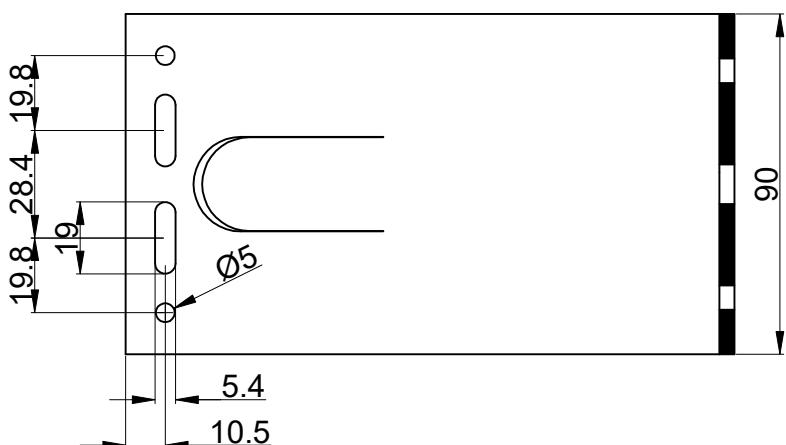
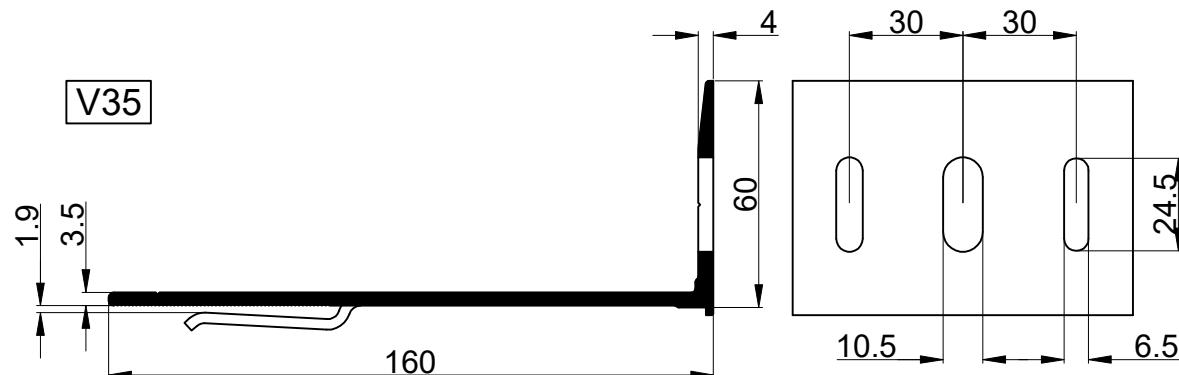




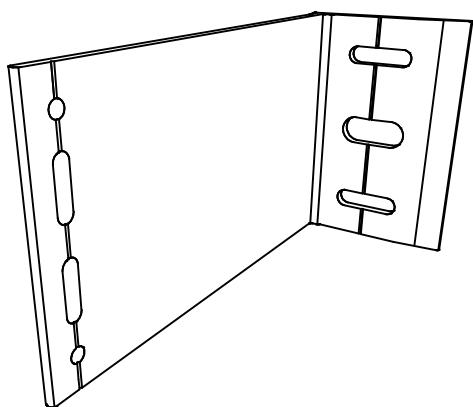
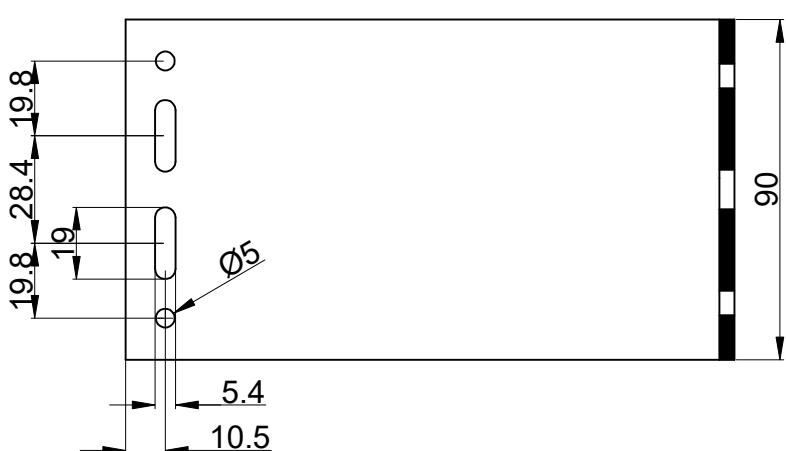
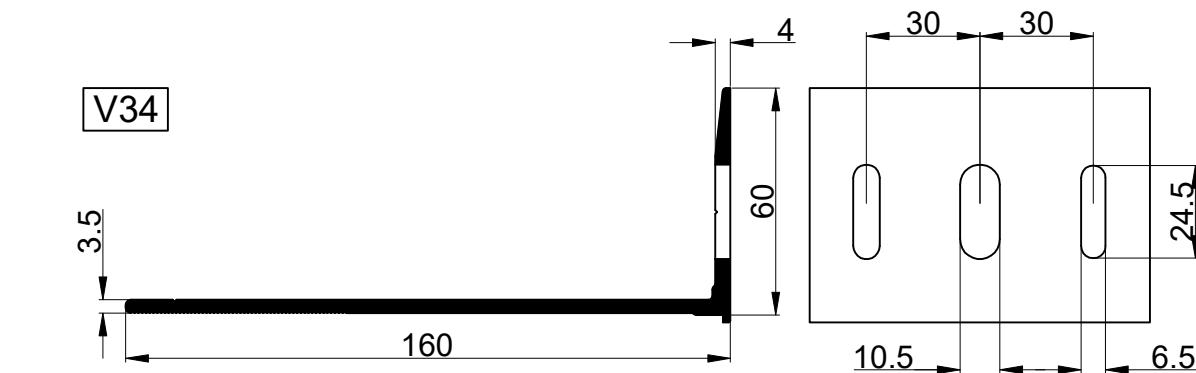
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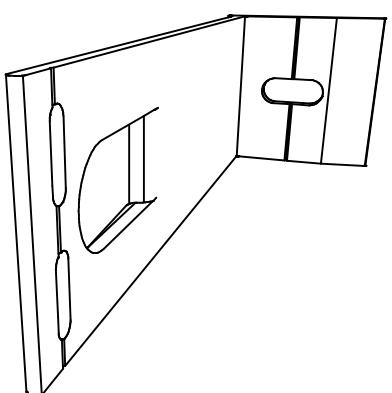
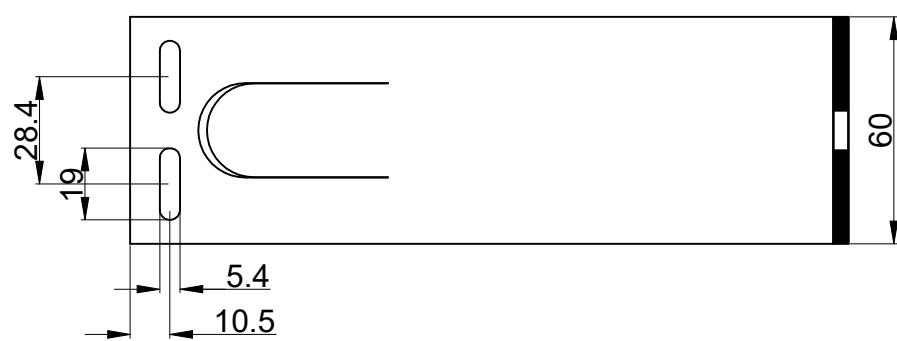
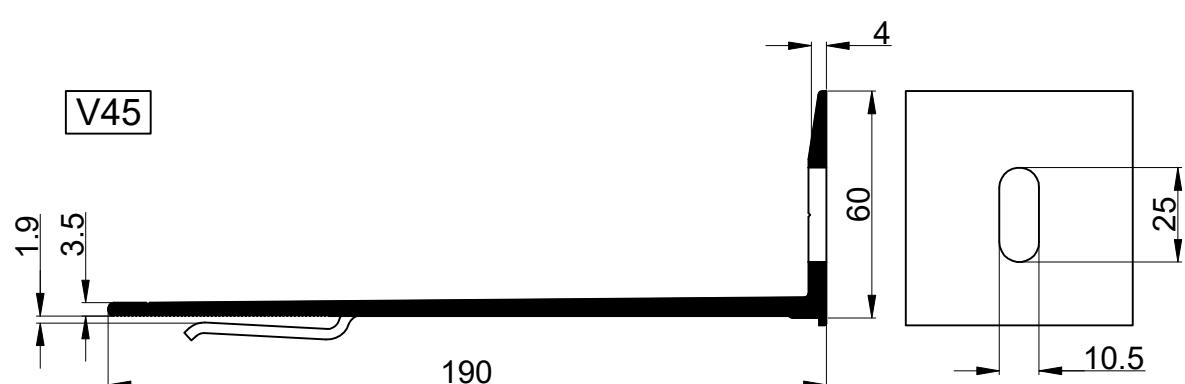
V35



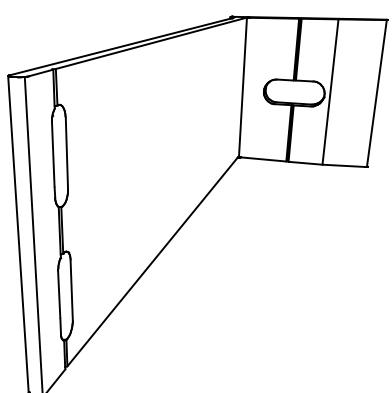
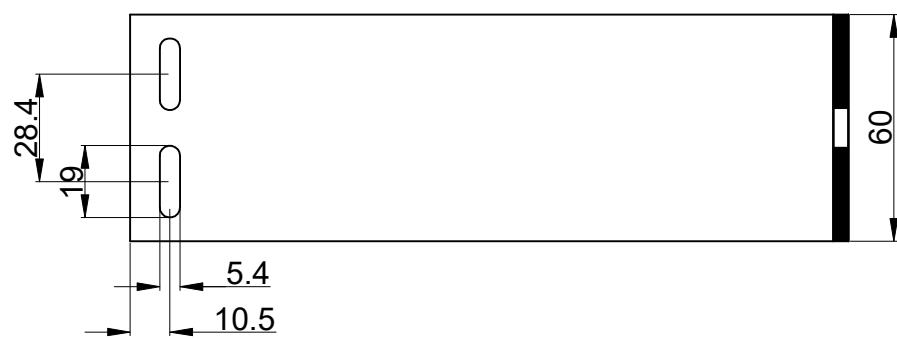
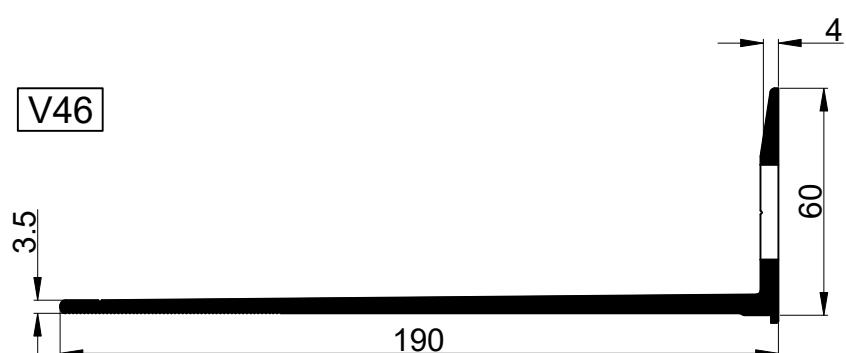
V34



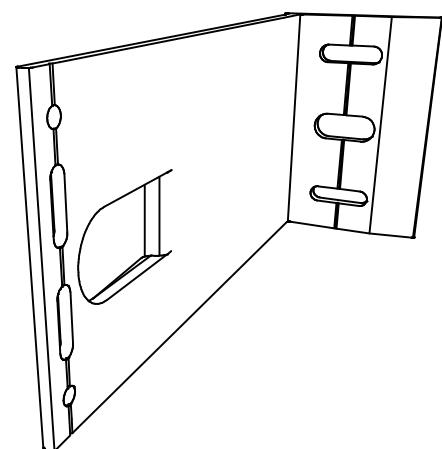
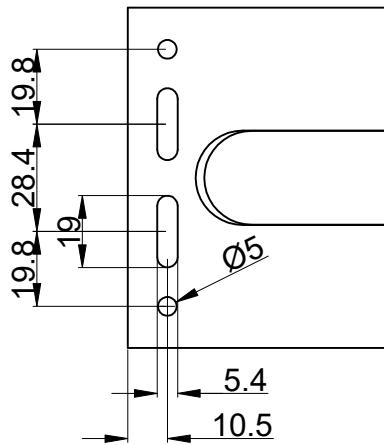
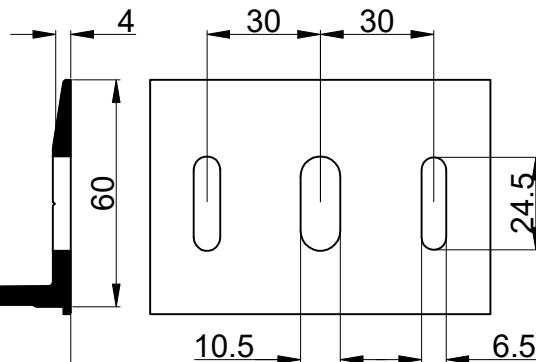
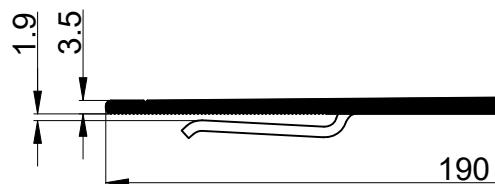
V45



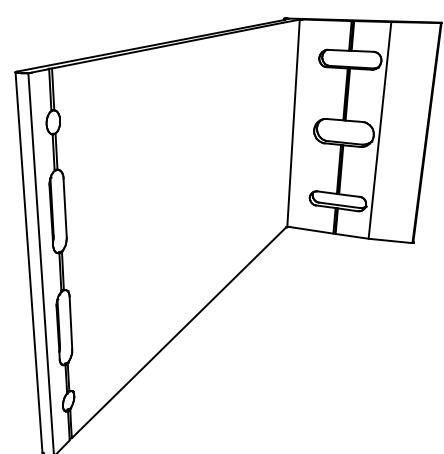
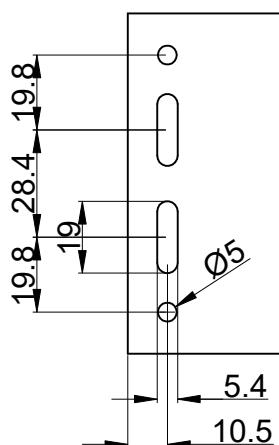
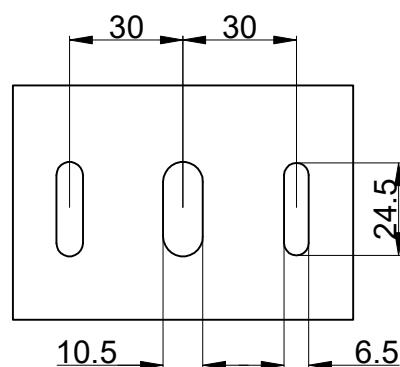
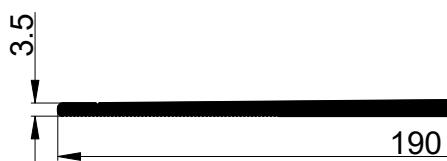
V46



V37



V36

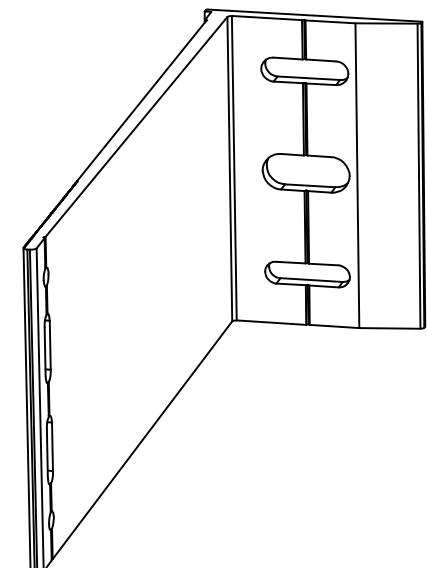
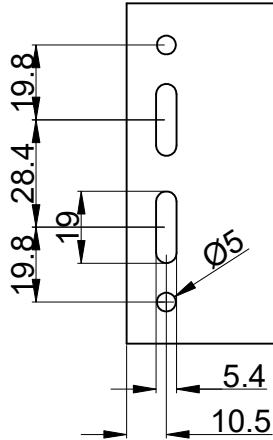
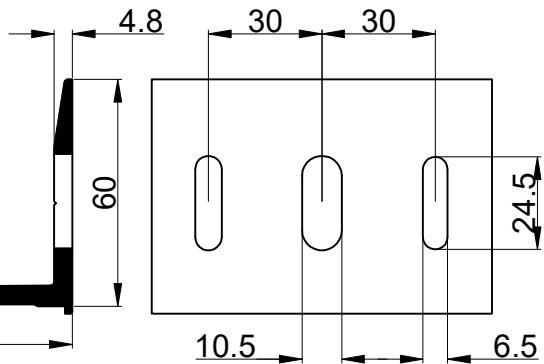




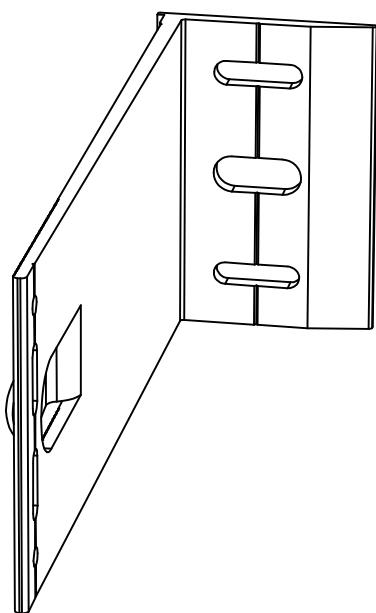
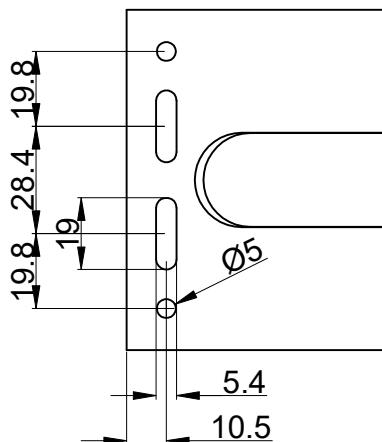
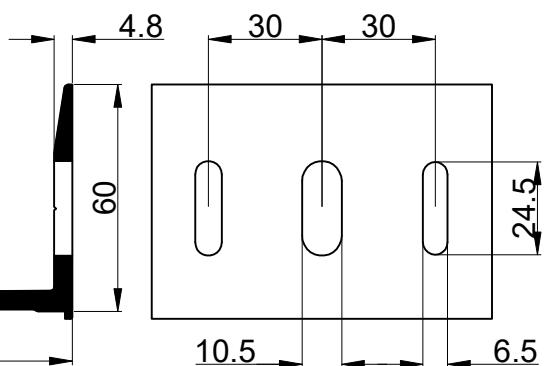
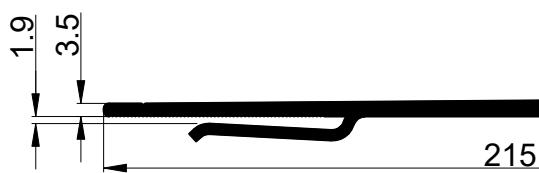
VENT

Kotve
Brackets

V127



V128

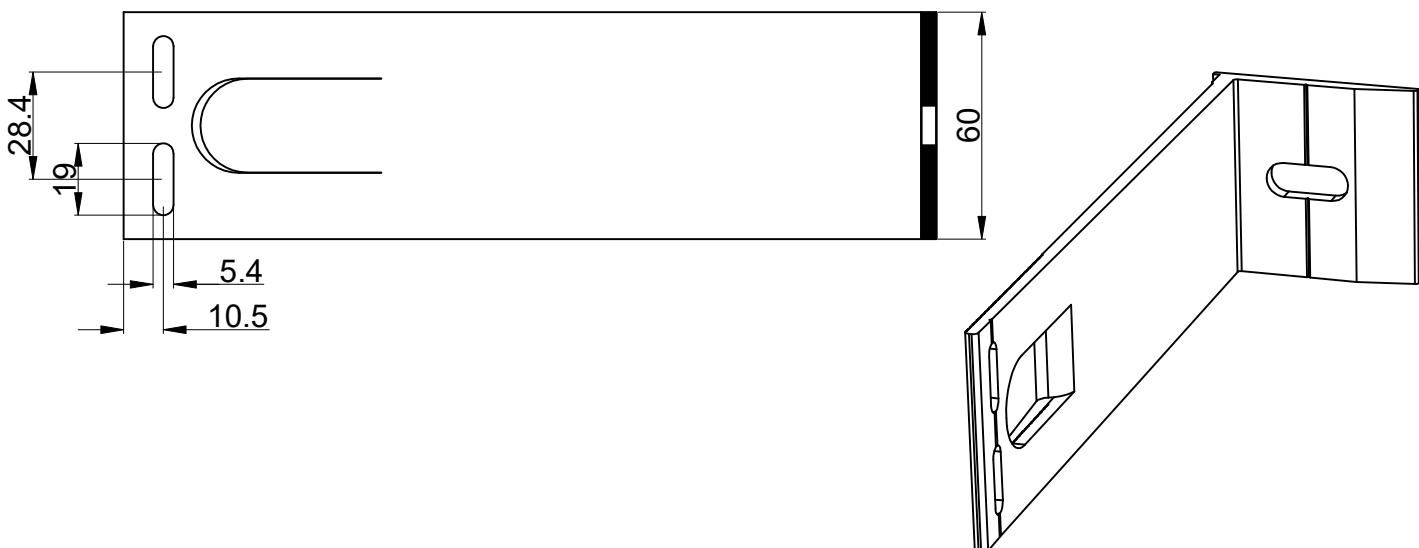
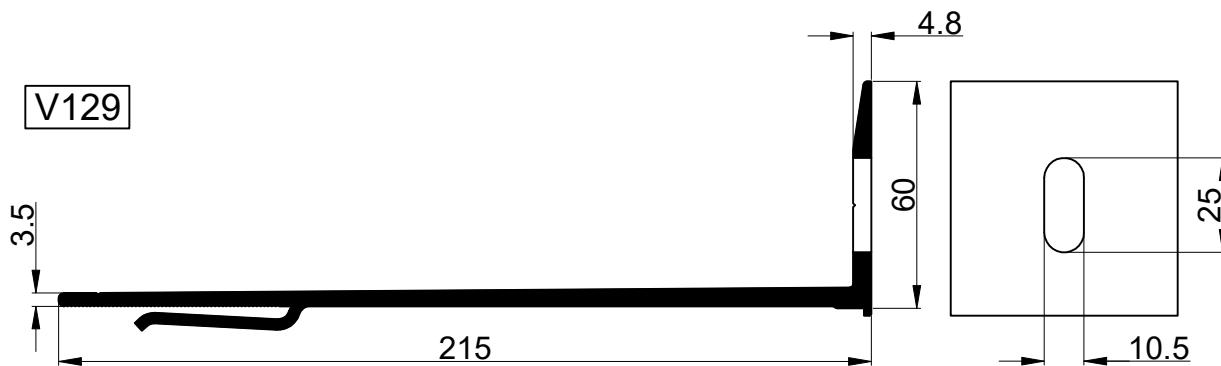




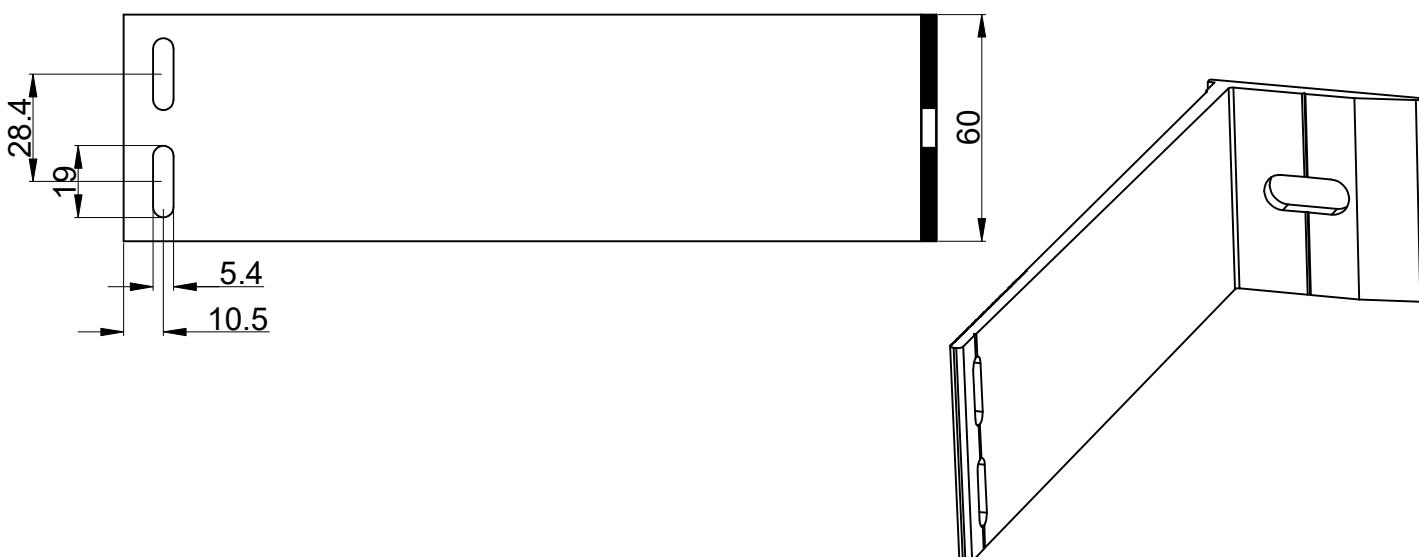
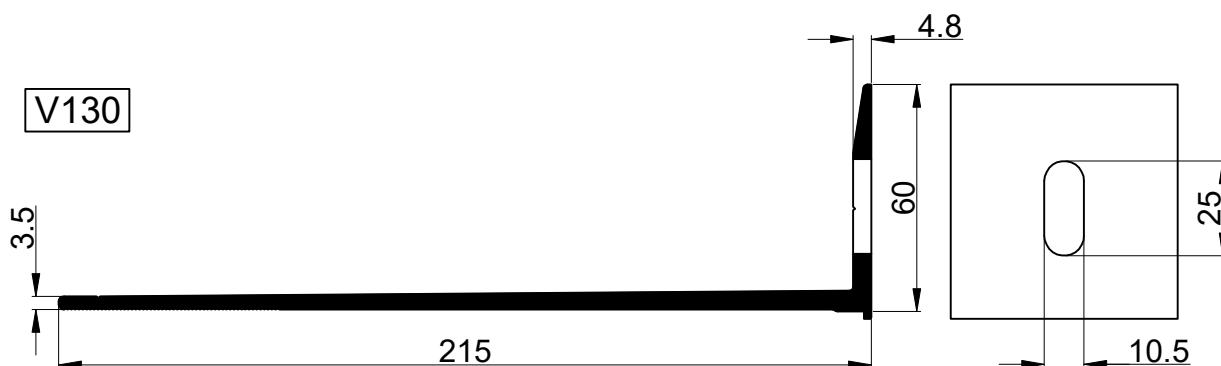
VENT

Kotve
Brackets

V129



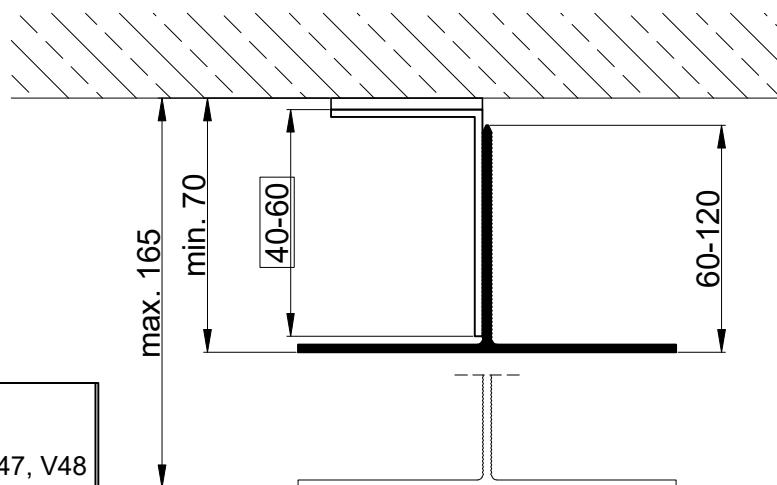
V130



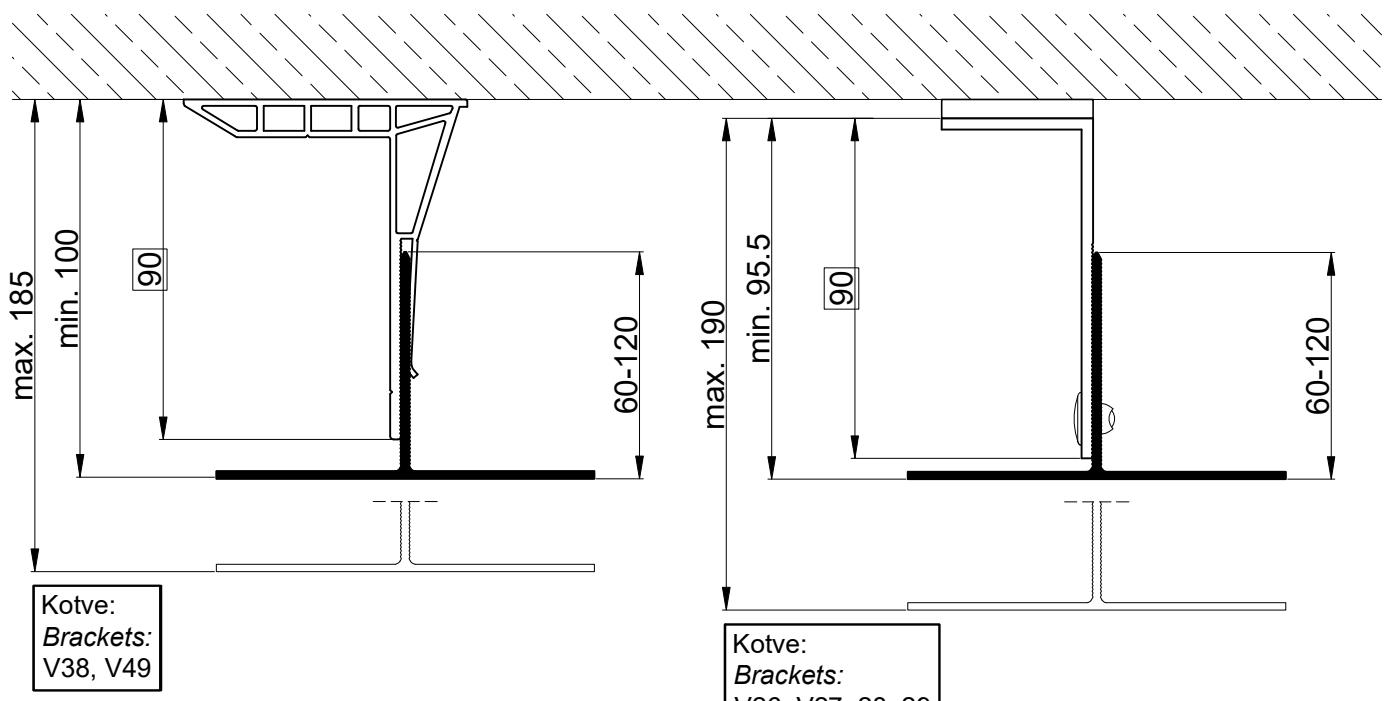
Principi
Principles



Horizontalni presek
Horizontal section

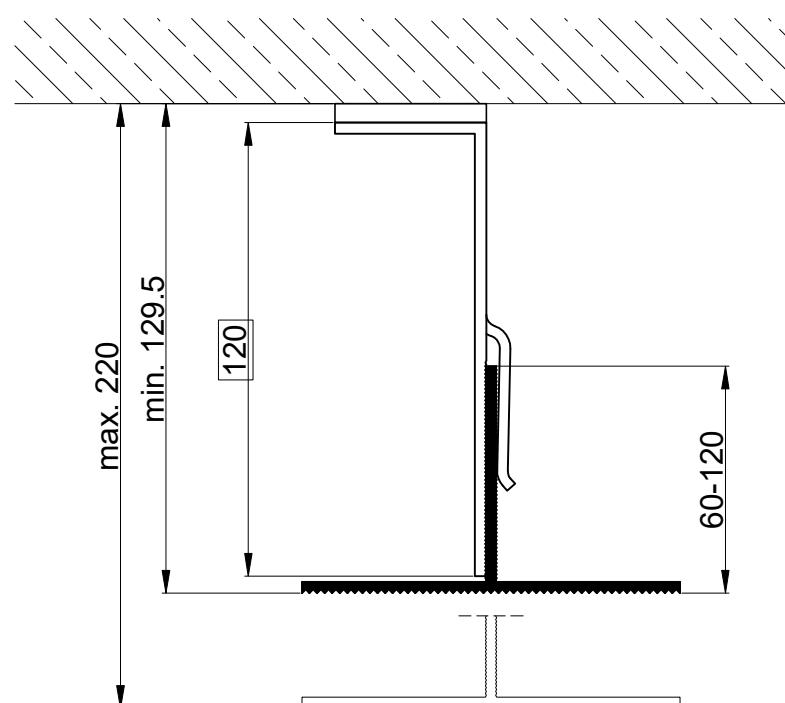


Kotve:
Brackets:
V24, V25, V30, V31, V39, V40, V47, V48

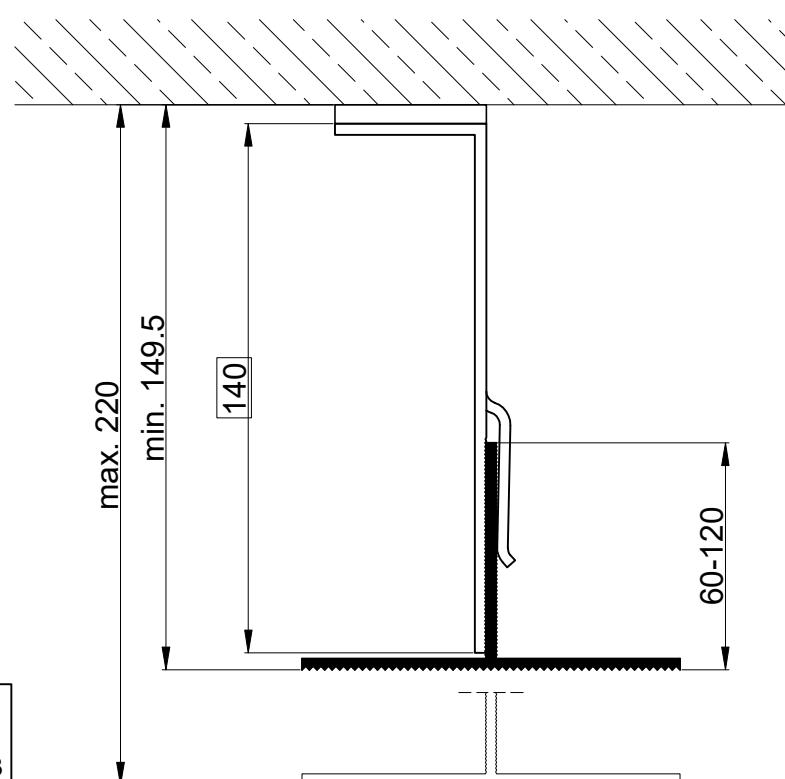


Kotve:
Brackets:
V38, V49

Kotve:
Brackets:
V26, V27, 28, 29

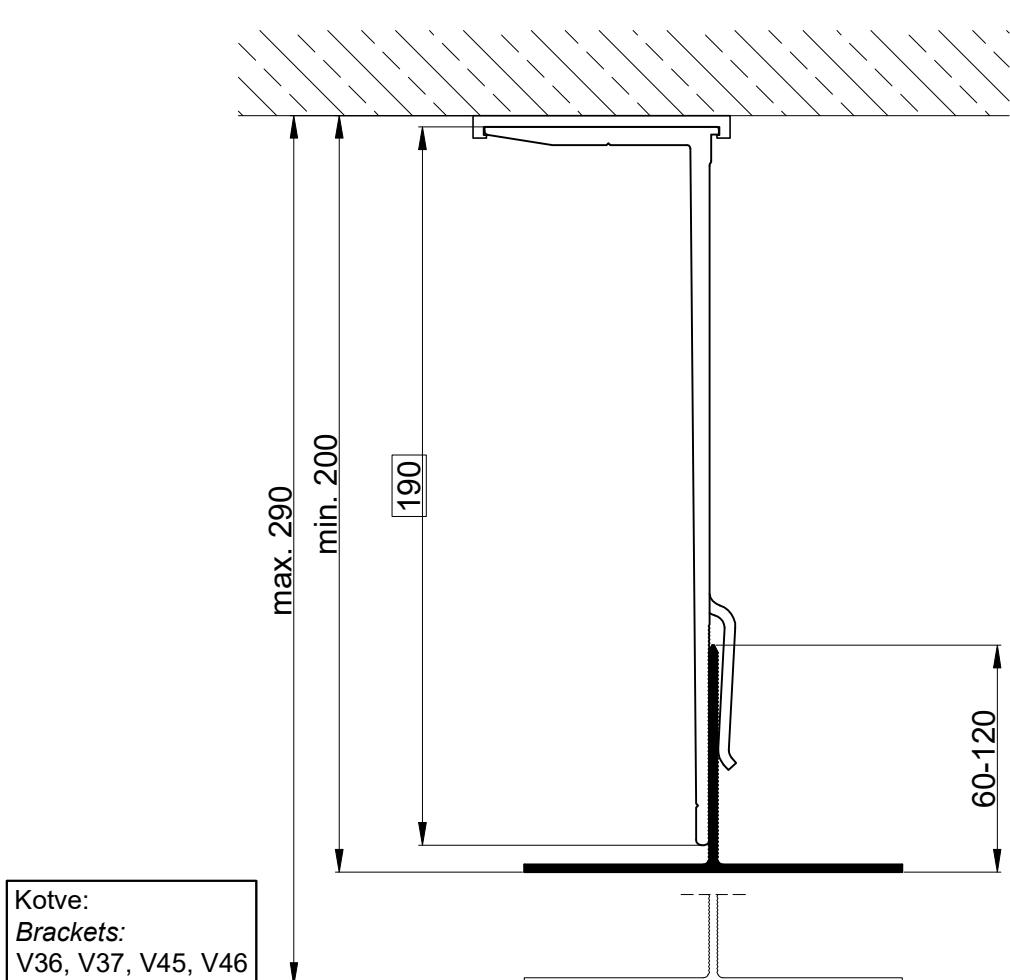
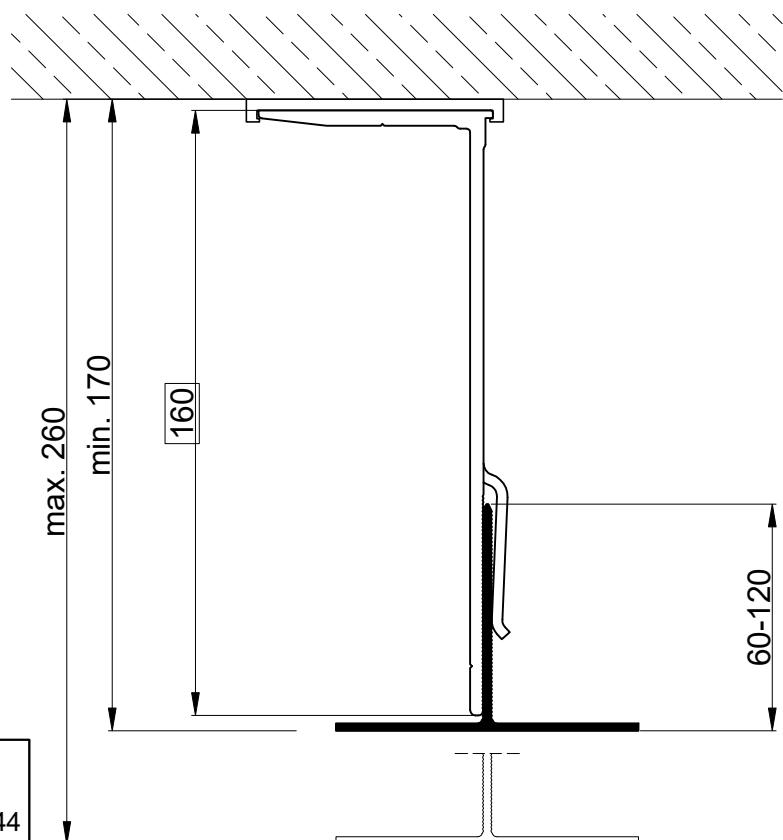


Kotve:
Brackets:
V32, V33, V41, V42

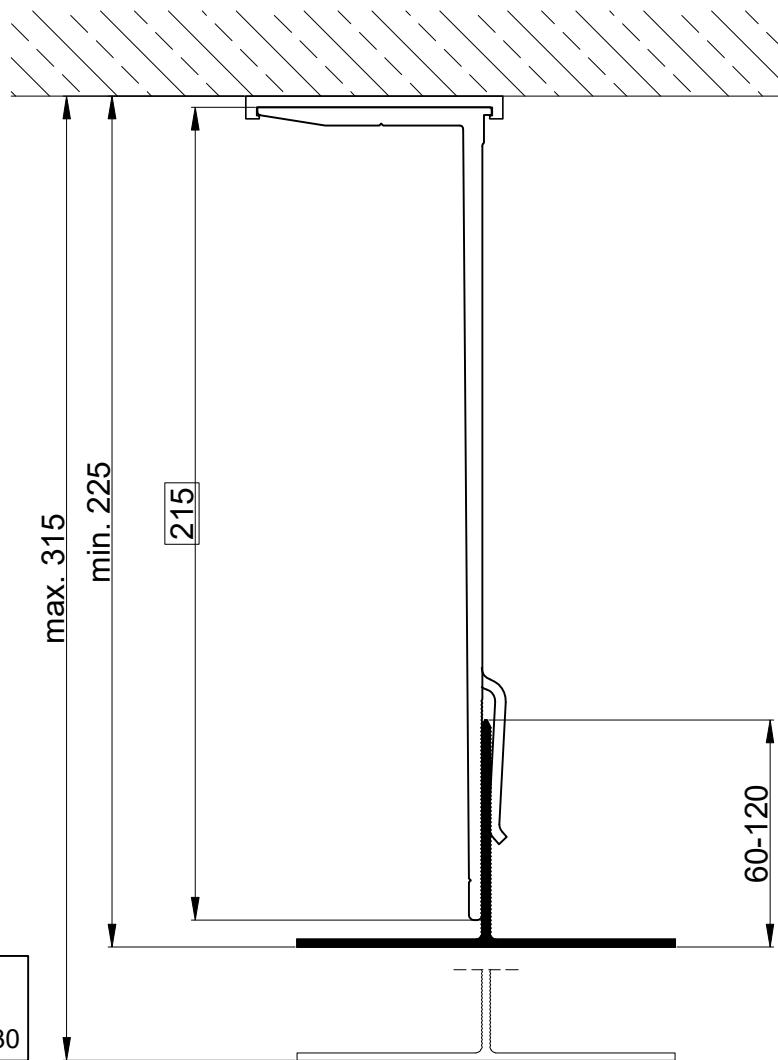


Kotve:
Brackets:
V120,V121,V122,V123

Horizontalni presek
Horizontal section

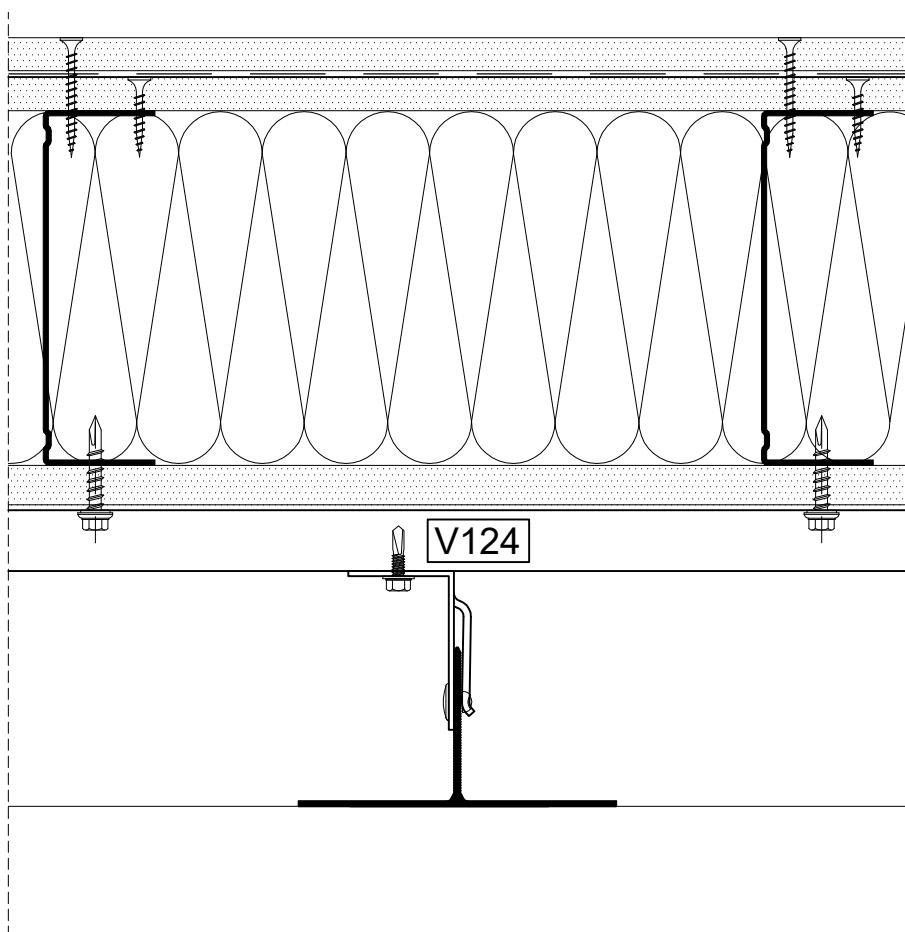


Horizontalni presek
Horizontal section

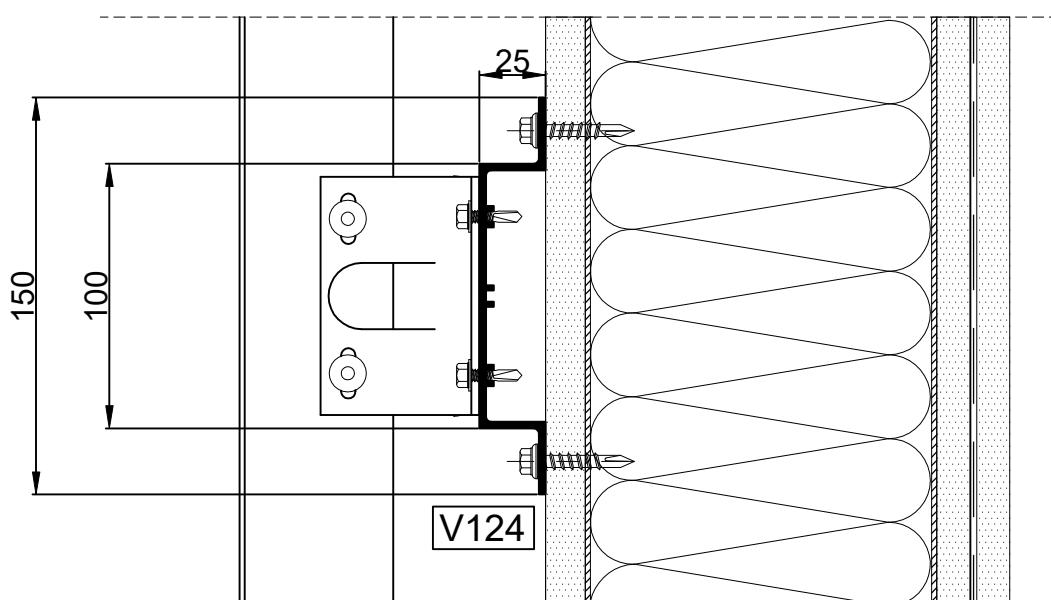


Horizontalni presek
Horizontal section

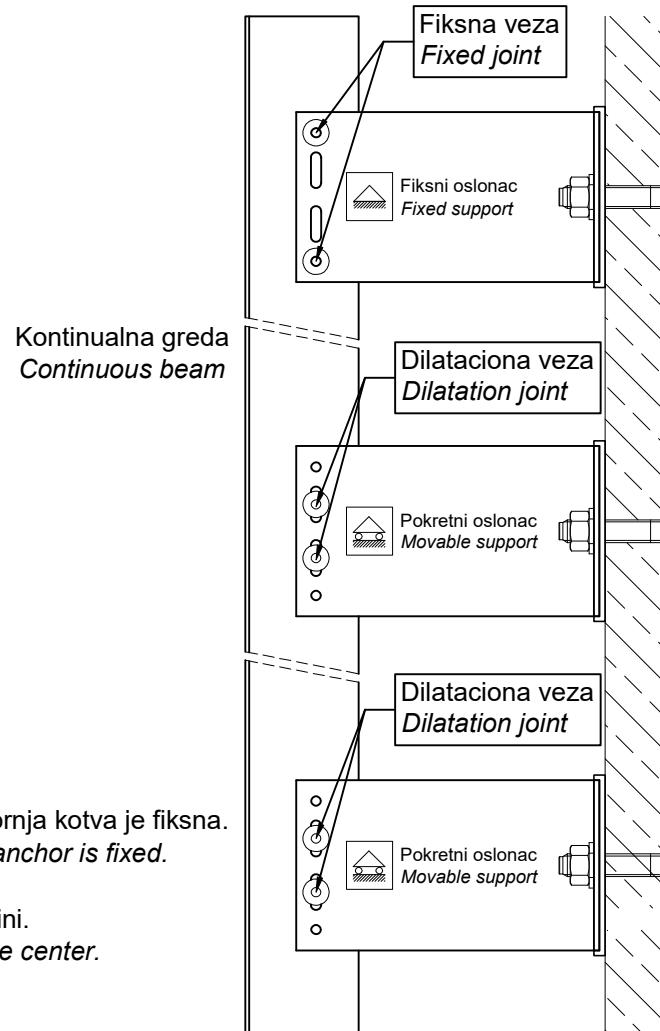
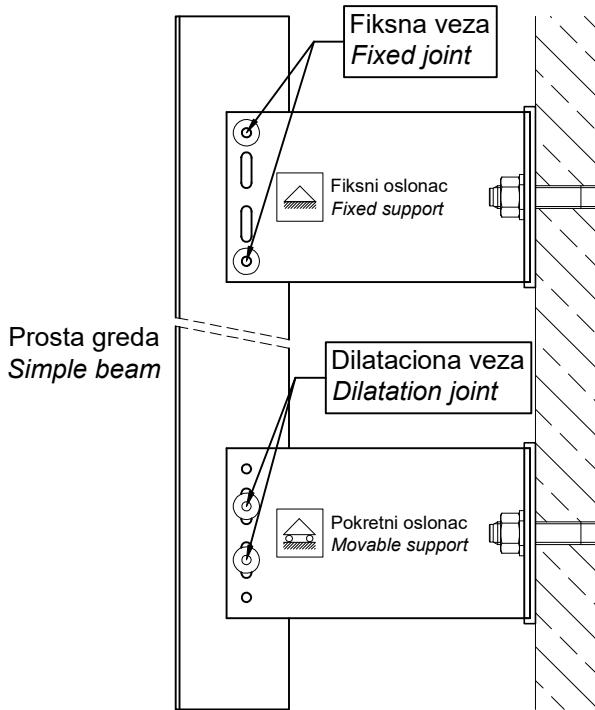
Ugradnja na suvomontažni zid
Mounting on drywall construction



Vertikalni presek
Vertical section



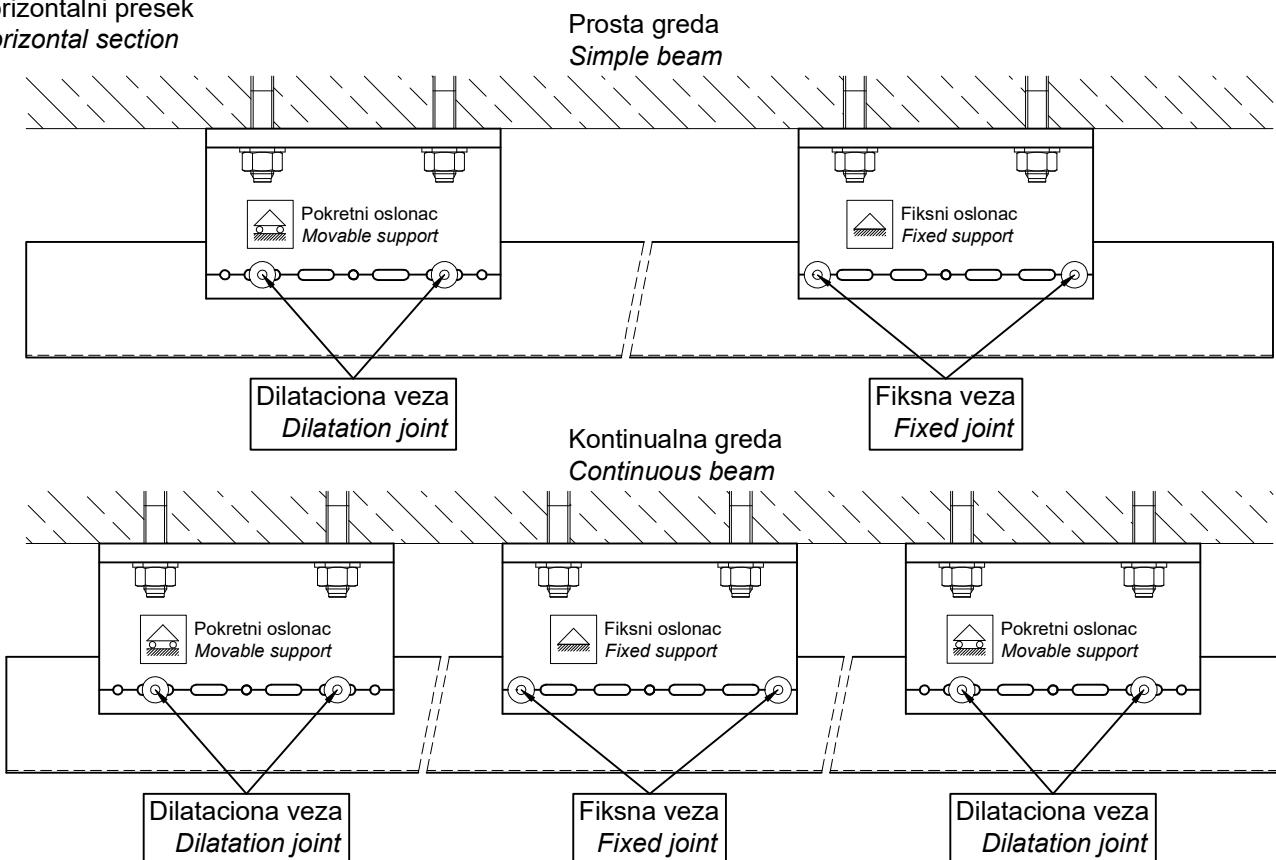
Vertikalni presek
Vertical section



*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 anchor is fixed.

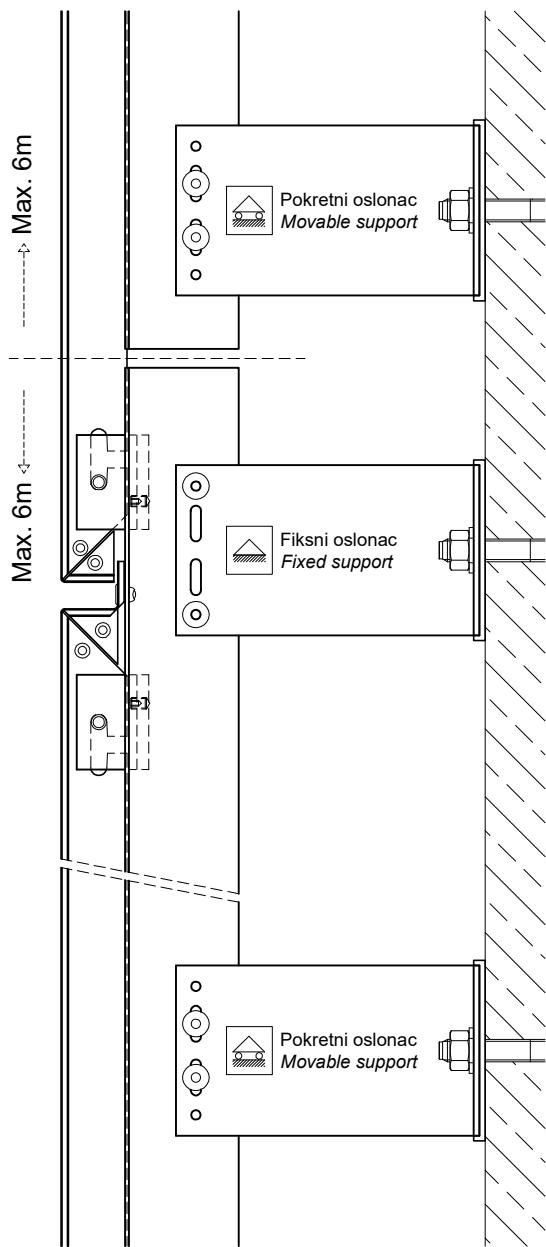
*Za dužine šipke >4,5m, pozicija fiksne kotve je u sredini.
*For bar lengths >4,5m, fixed anchor is positioned in the center.

Horizontalni presek
Horizontal section



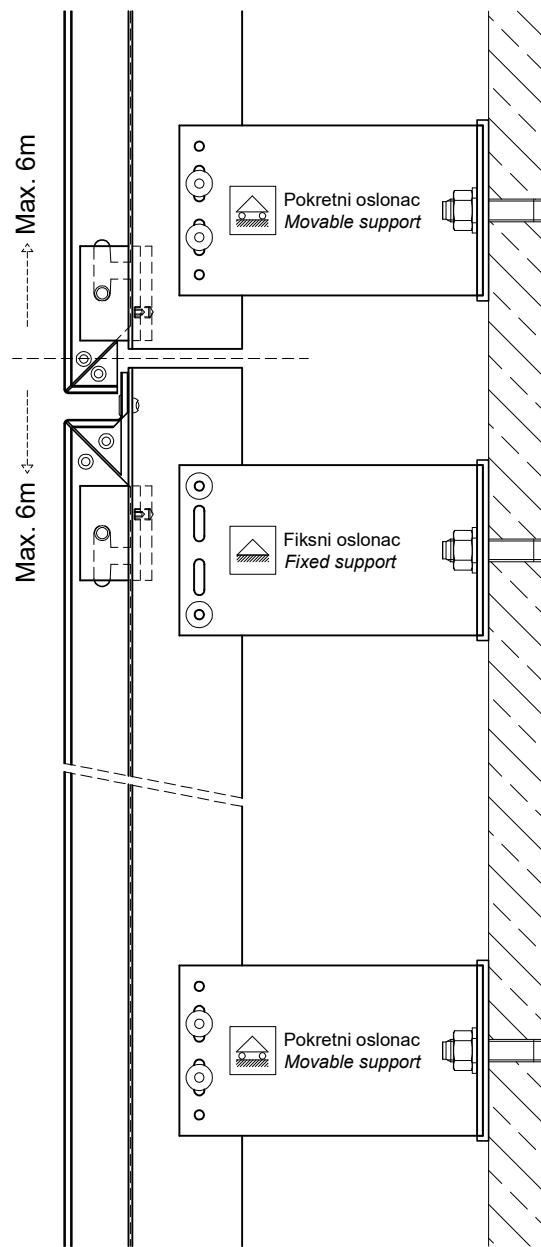
Nastavljanje vertikalnih nosećih profila
Vertical load-bearing profiles resumption

Vertikalni presek
Vertical section



Panel / kasetu 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.

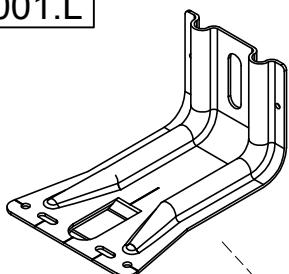
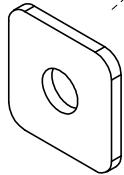
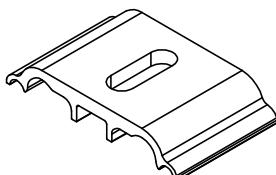
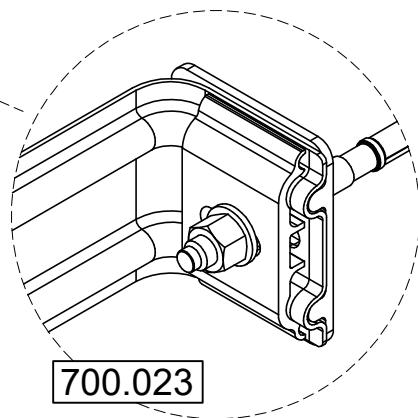
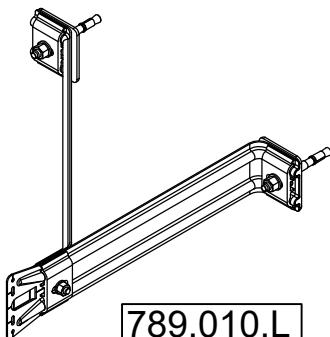
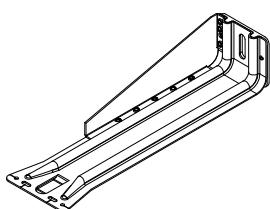
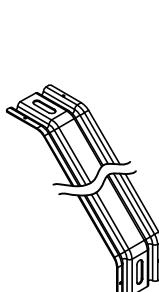
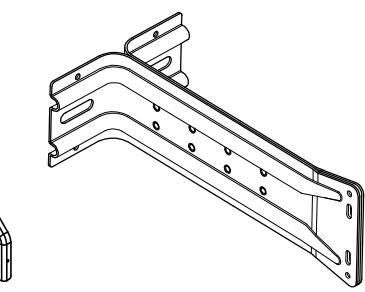
*The position of dilatation must correspond to
 the cladding fixing point.*

Dopunski program
Supplementary program



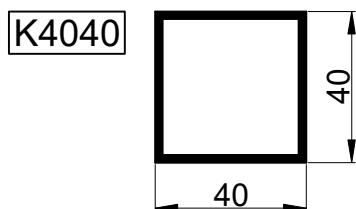
Za velike izbačaje fasade ($L=190-650\text{mm}$) i velika opterećenja.

For large facade off-sets ($L=190-650\text{mm}$) and heavy loads.

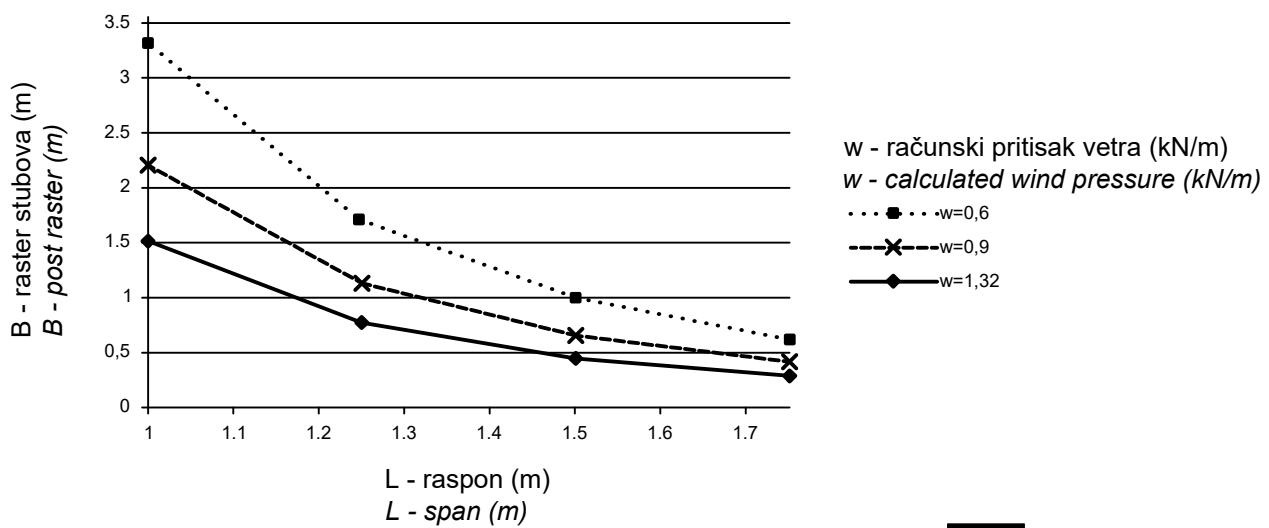
700.001.L190-650mm , korak 5mm
190-650mm, 5mm increment**600.001**Podloška kotve
Bracket padOpcije pritisne ploče
Pressure plate options**700.002**Pritisna ploča
Pressure plate**700.023**Pritisna ploča
Pressure plate**700.002****700.023****700.035.L****789.010.L****700.030.L****700.040**

Statički proračun
Structural analysis



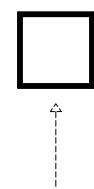


Proračun proste grede
Simple beam calculation



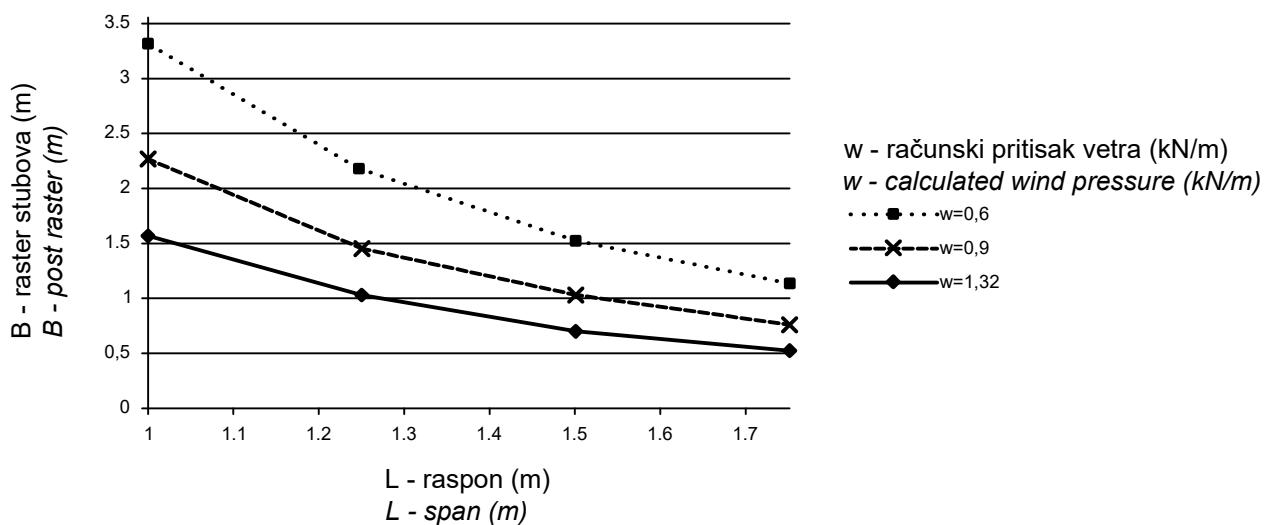
w - računski pritisak veta (kN/m)
w - calculated wind pressure (kN/m)

- w=0,6
- x- w=0,9
- ♦— w=1,32



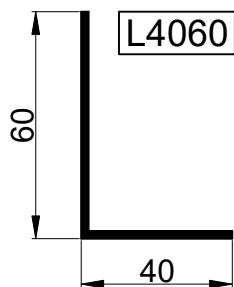
pravac delovanja sile
force impact direction

Proračun kontinualne grede
Continuous beam calculation

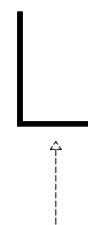
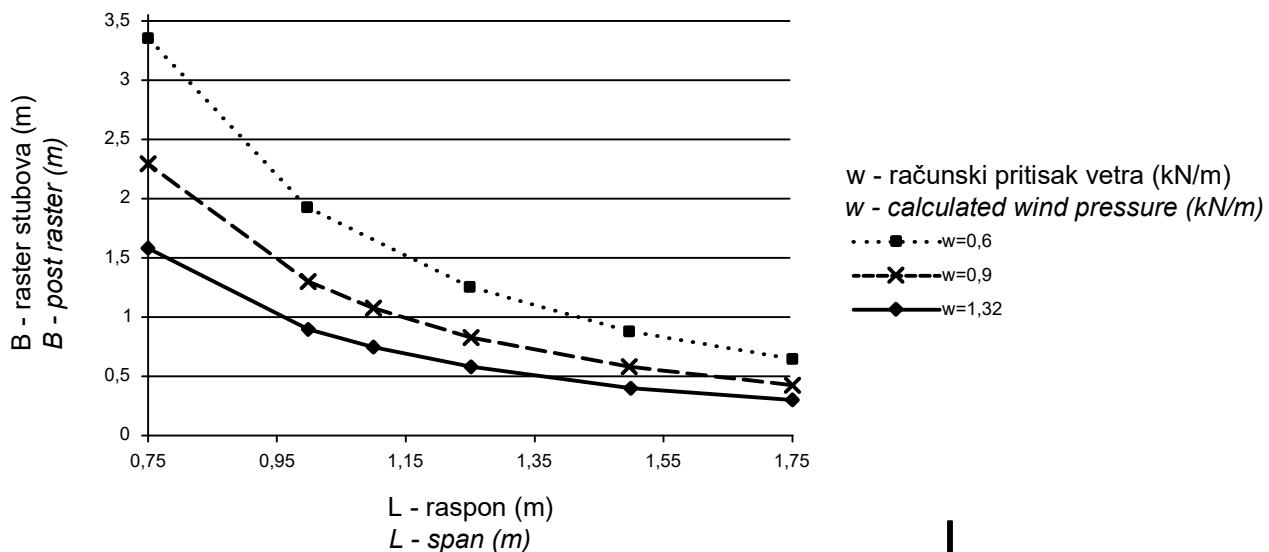


w - računski pritisak veta (kN/m)
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- w=0,6
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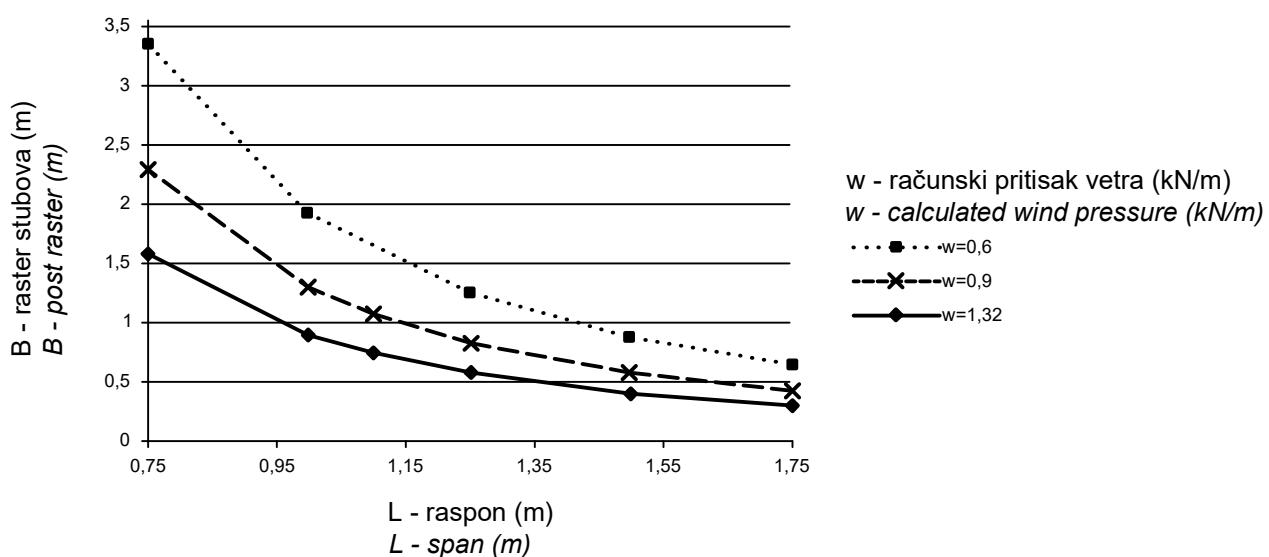


Proračun proste grede
Simple beam calculation

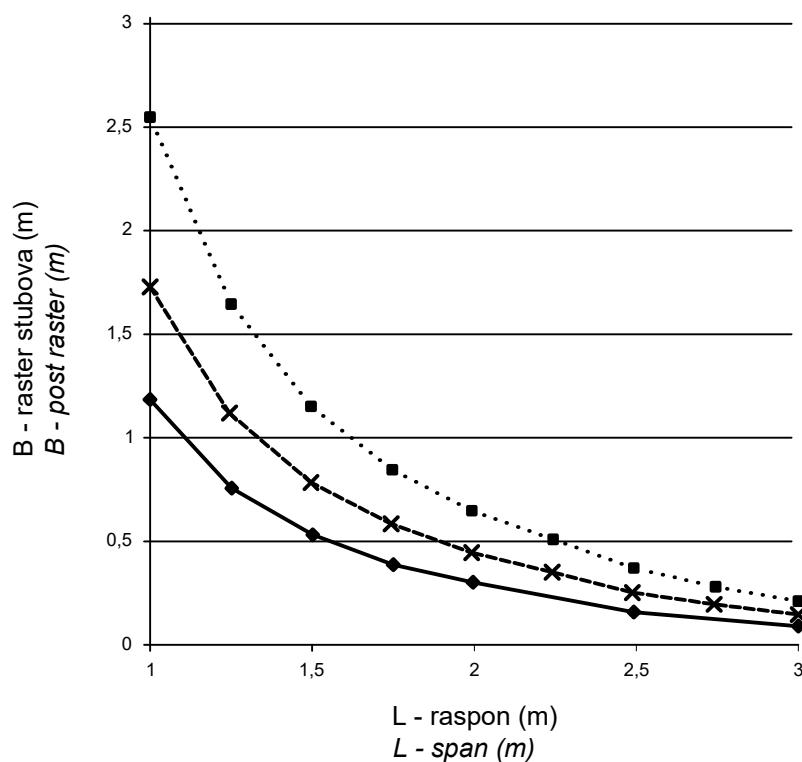
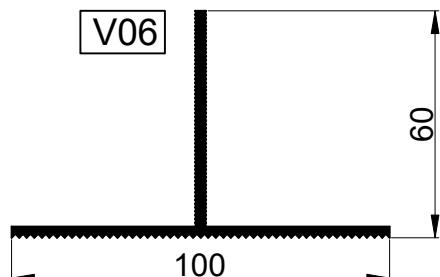


pravac delovanja sile
force impact direction

Proračun kontinualne grede
Continuous beam calculation



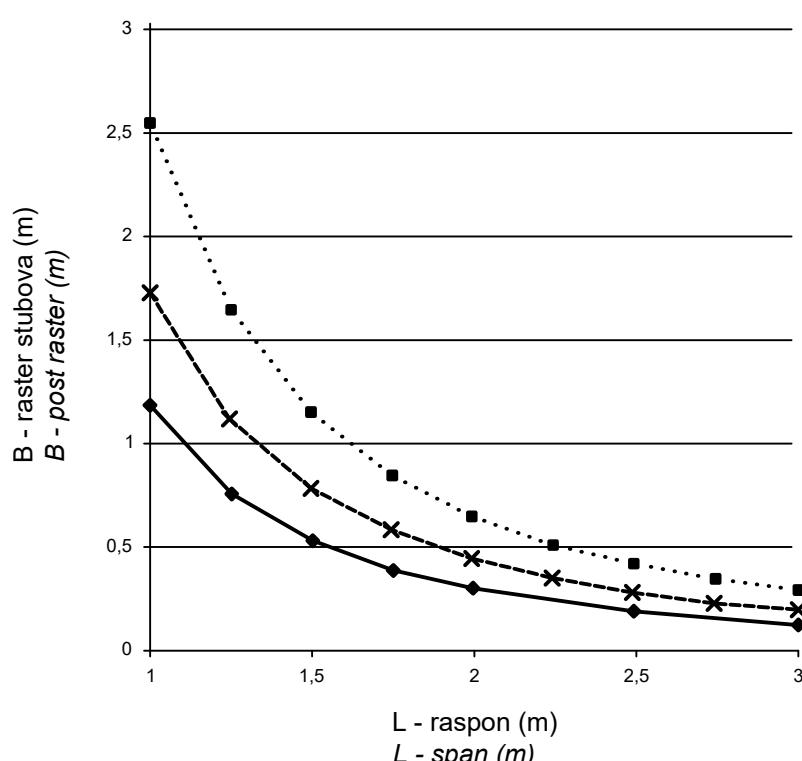
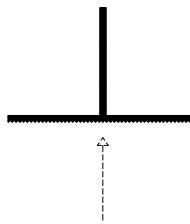
Proračun proste grede
Simple beam calculation



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

- ■ ··· w=0,6
- ×- w=0,9
- ◆— w=1,32

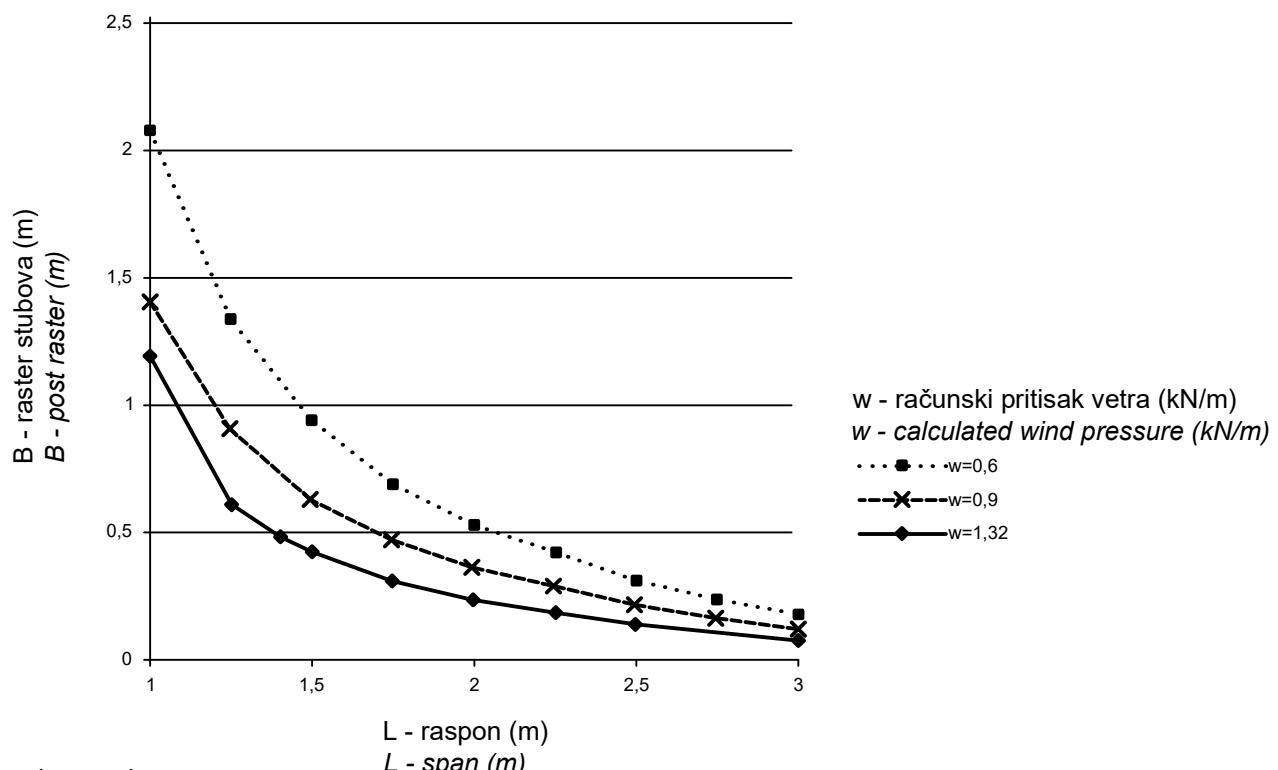
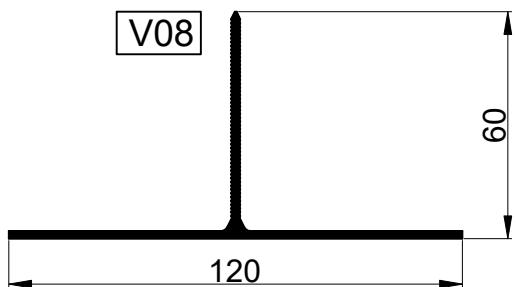
Proračun kontinualne grede
Continuous beam calculation



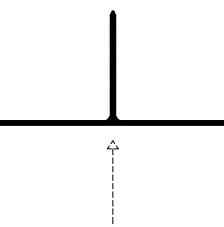
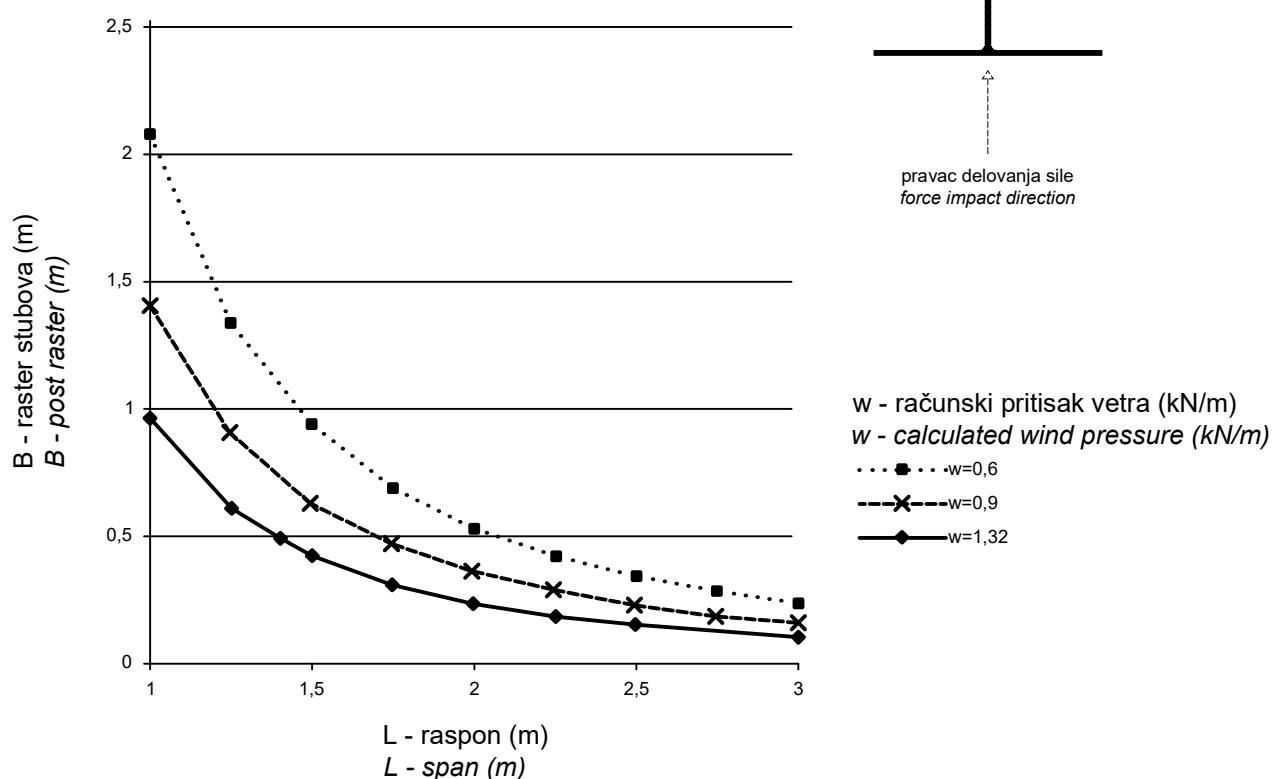
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Proračun proste grede
Simple beam calculation

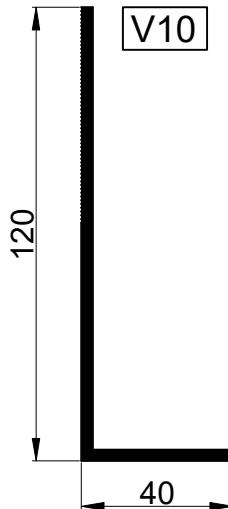
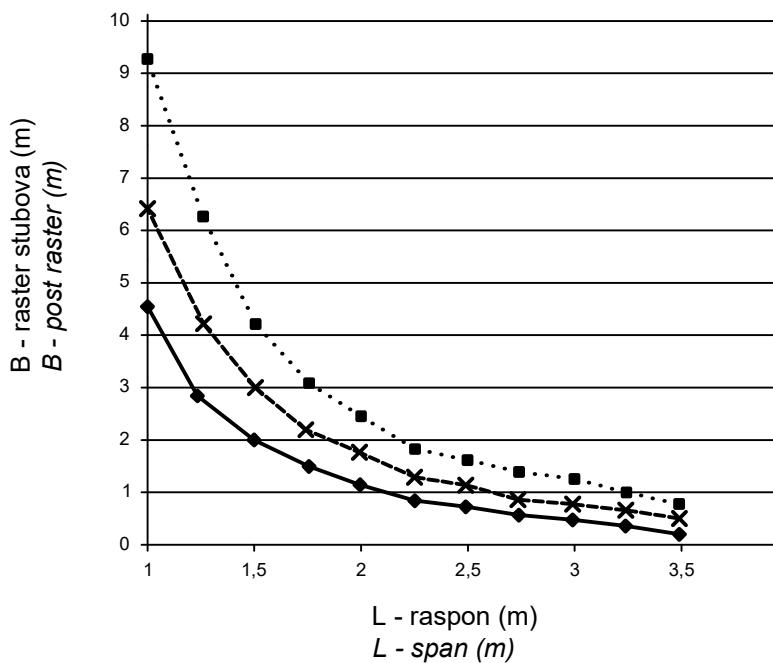


Proračun kontinualne grede
Continuous beam calculation



pravac delovanja sile
force impact direction

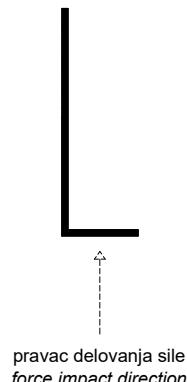
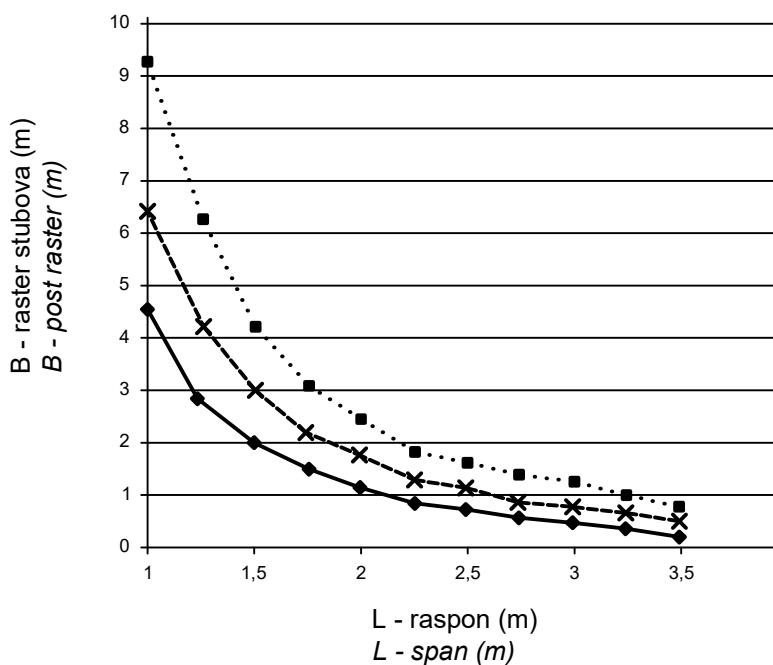
Proračun proste grede
Simple beam calculation



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Proračun kontinualne grede
Continuous beam calculation

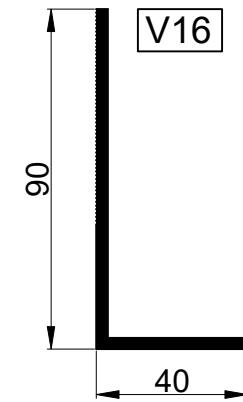
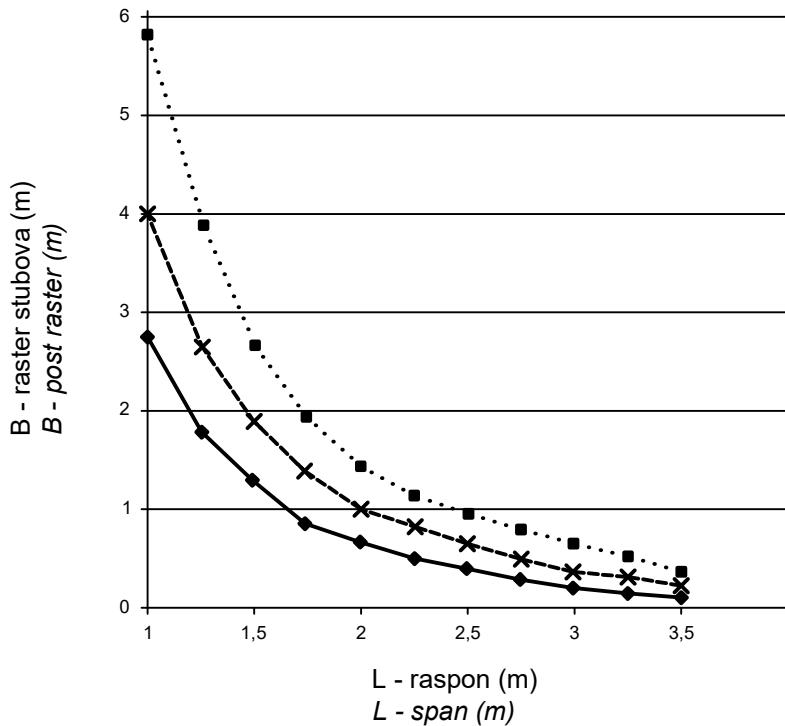


pravac delovanja sile
force impact direction

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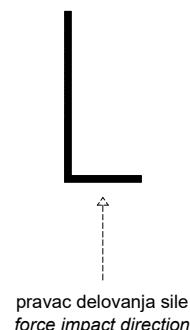
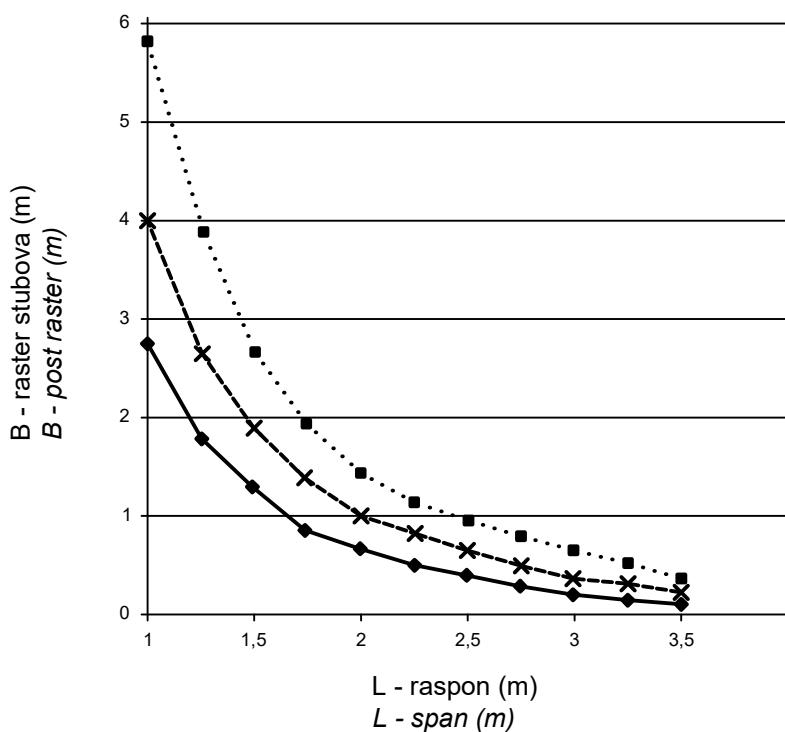
Proračun proste grede
Simple beam calculation



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- ×— w=0,9
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Proračun kontinualne grede
Continuous beam calculation

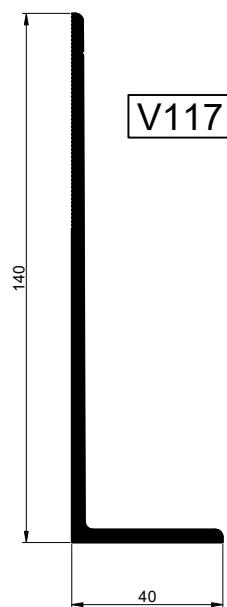
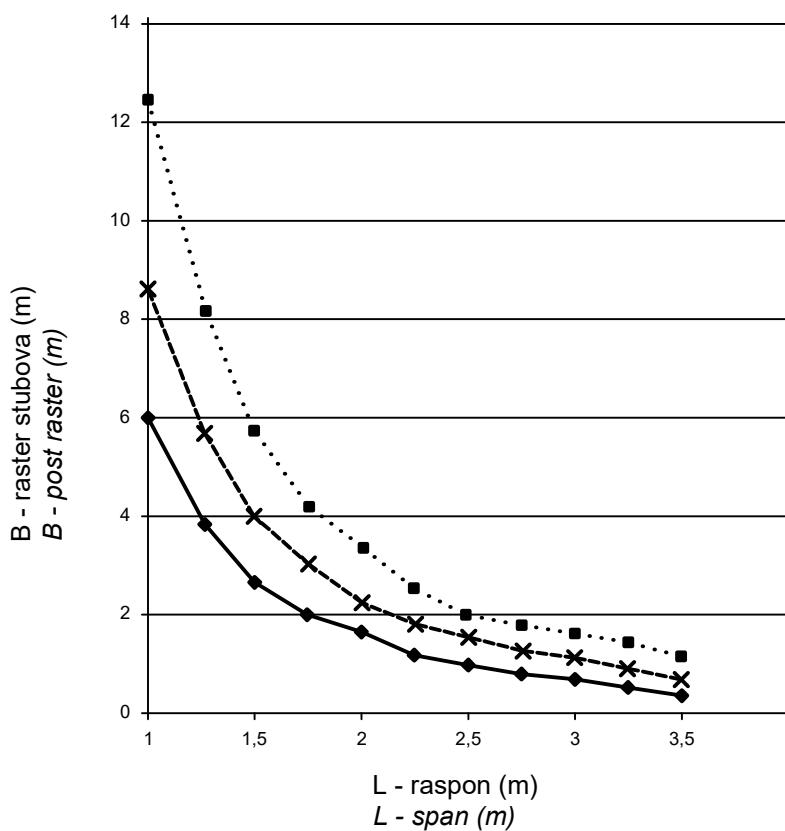


pravac delovanja sile
force impact direction

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- ×— w=0,9
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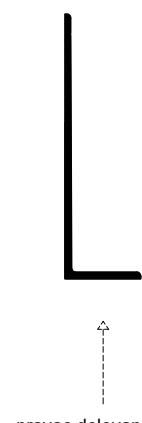
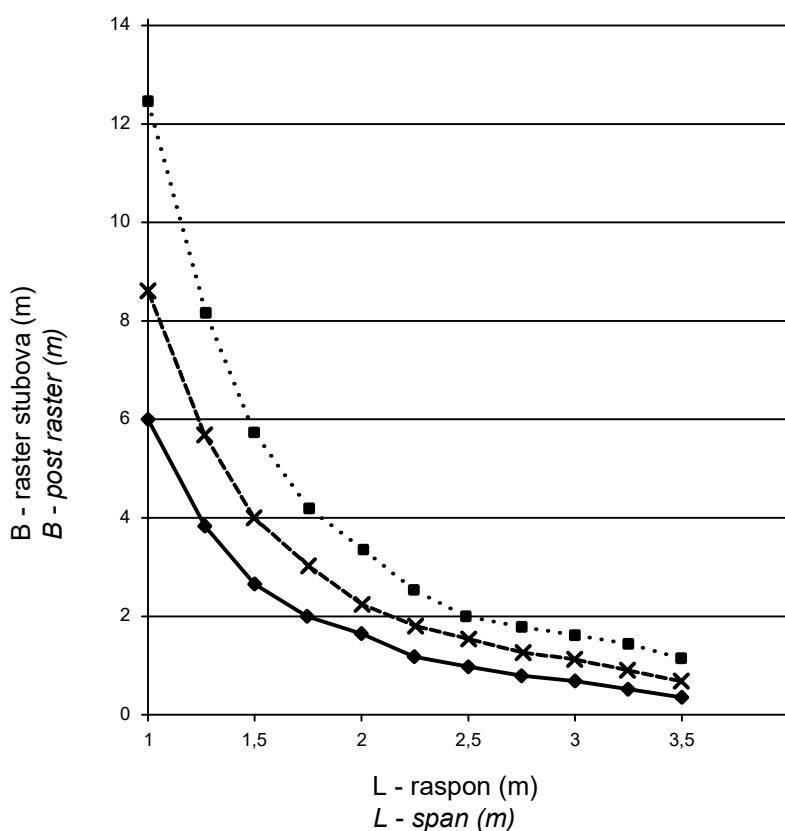
Proračun proste grede
Simple beam calculation



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

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

Proračun kontinualne grede
Continuous beam calculation

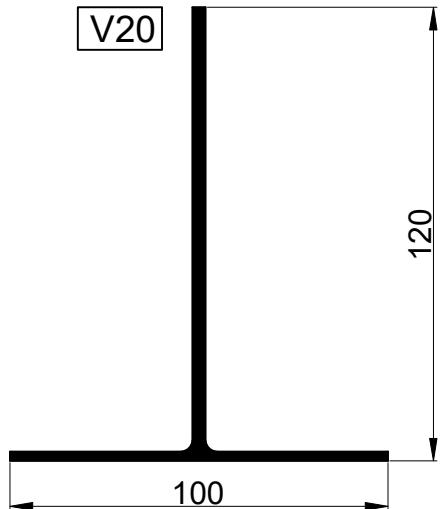
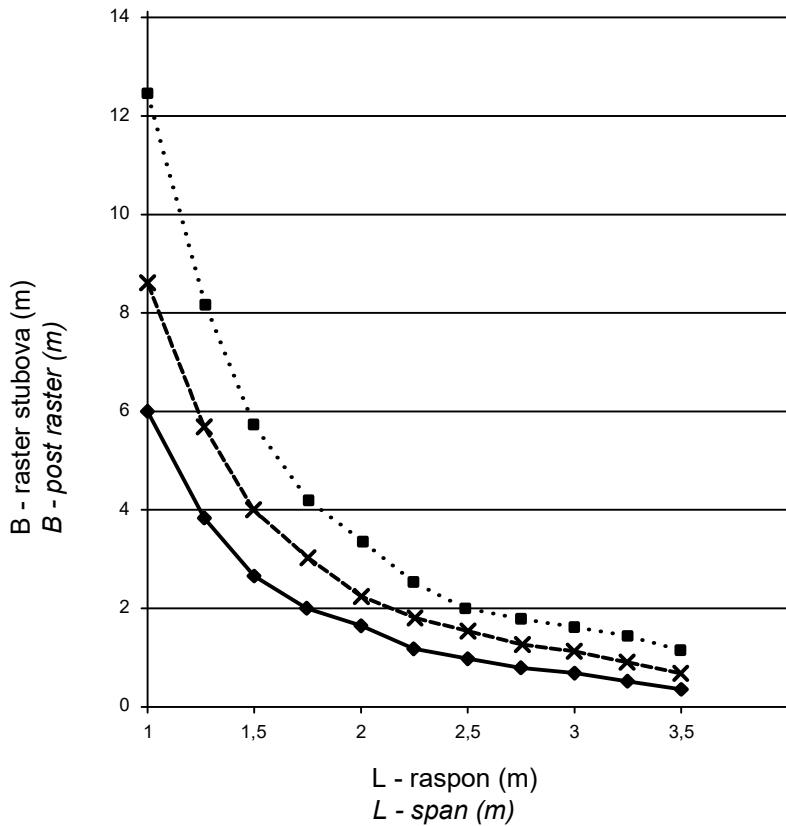


pravac delovanja sile
force impact direction

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

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

Proračun proste grede *Simple beam calculation*



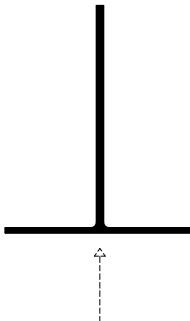
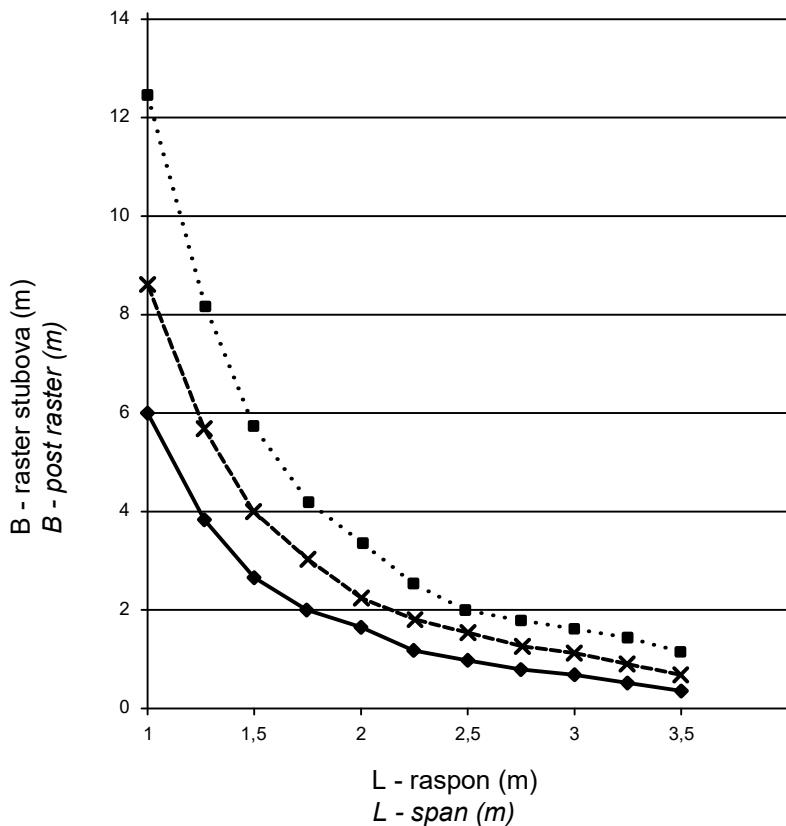
w - računski pritisak veta (kN/m)
w - calculated wind pressure (kN/m)

• • • w=0,6

---x---w=0,9

—▲—w=1,32

Proračun kontinualne grede *Continuous beam calculation*

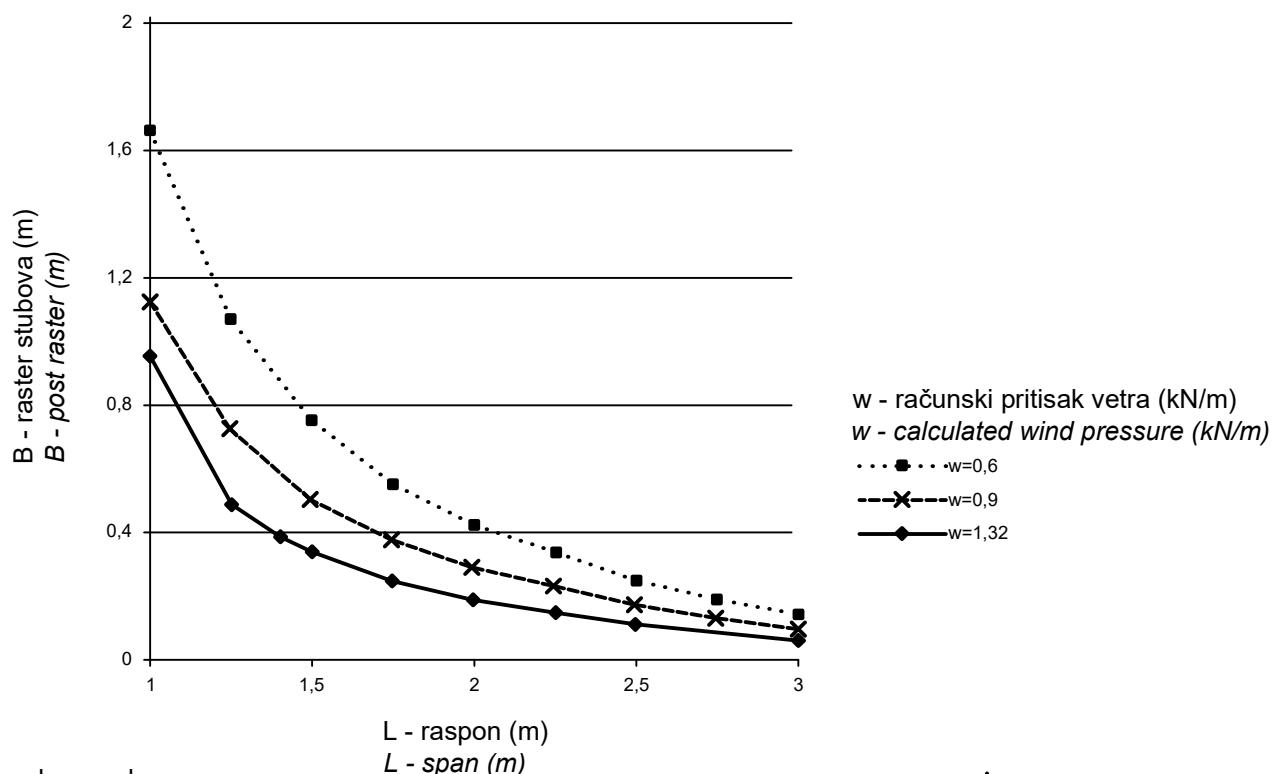
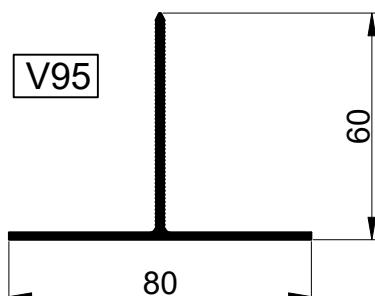


pravac delovanja sile *force impact direction*

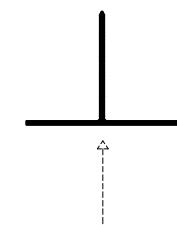
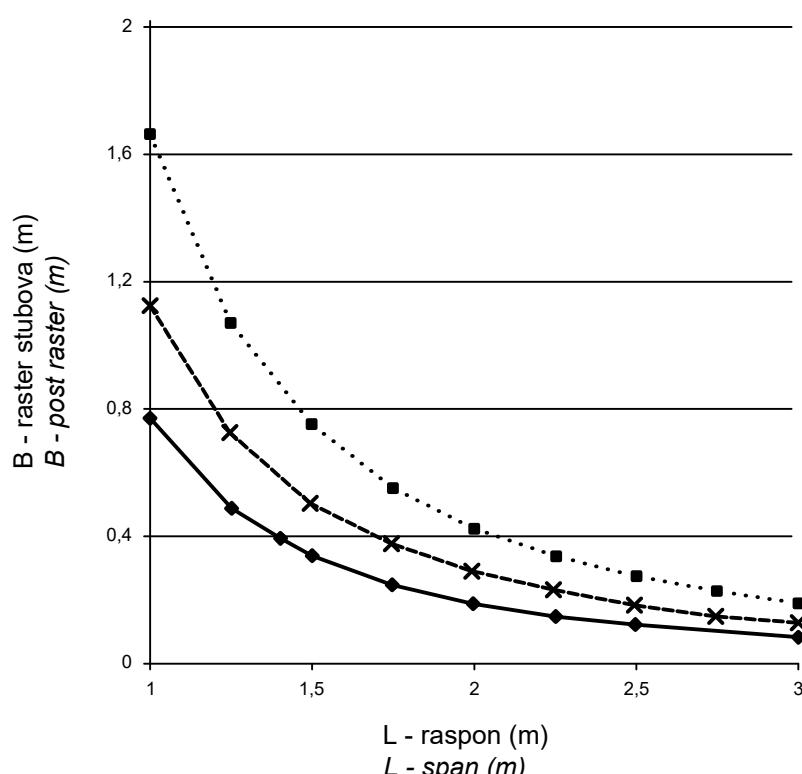
w - računski pritisak veta (kN/m)
w - calculated wind pressure (kN/m)

- • • w=0,6
- x---w=0,9
- ♦—w=1,32

Proračun proste grede
Simple beam calculation



Proračun kontinualne grede
Continuous beam calculation





VENT

Naslov
Title

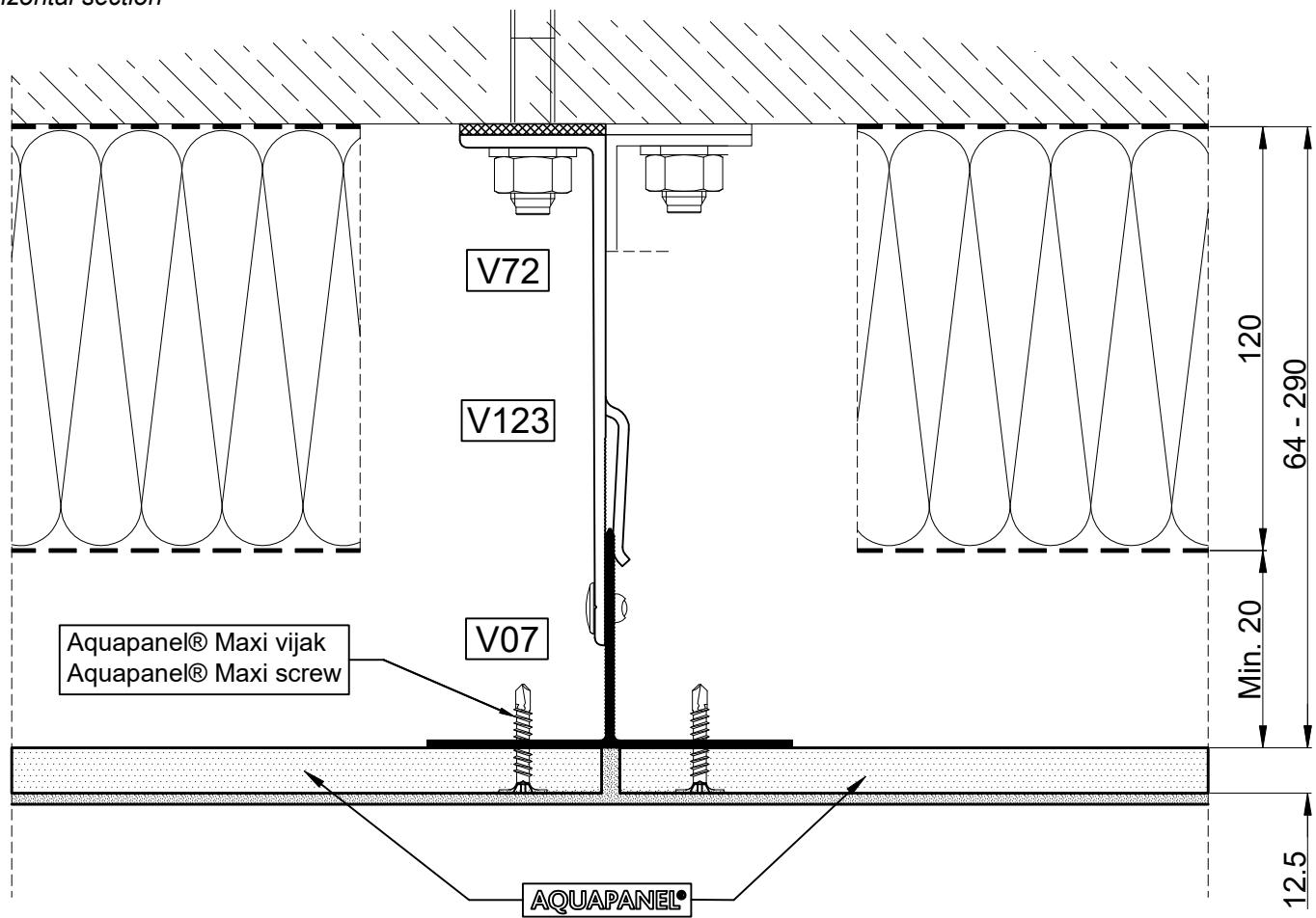
Sistem
System

VENT RIVET

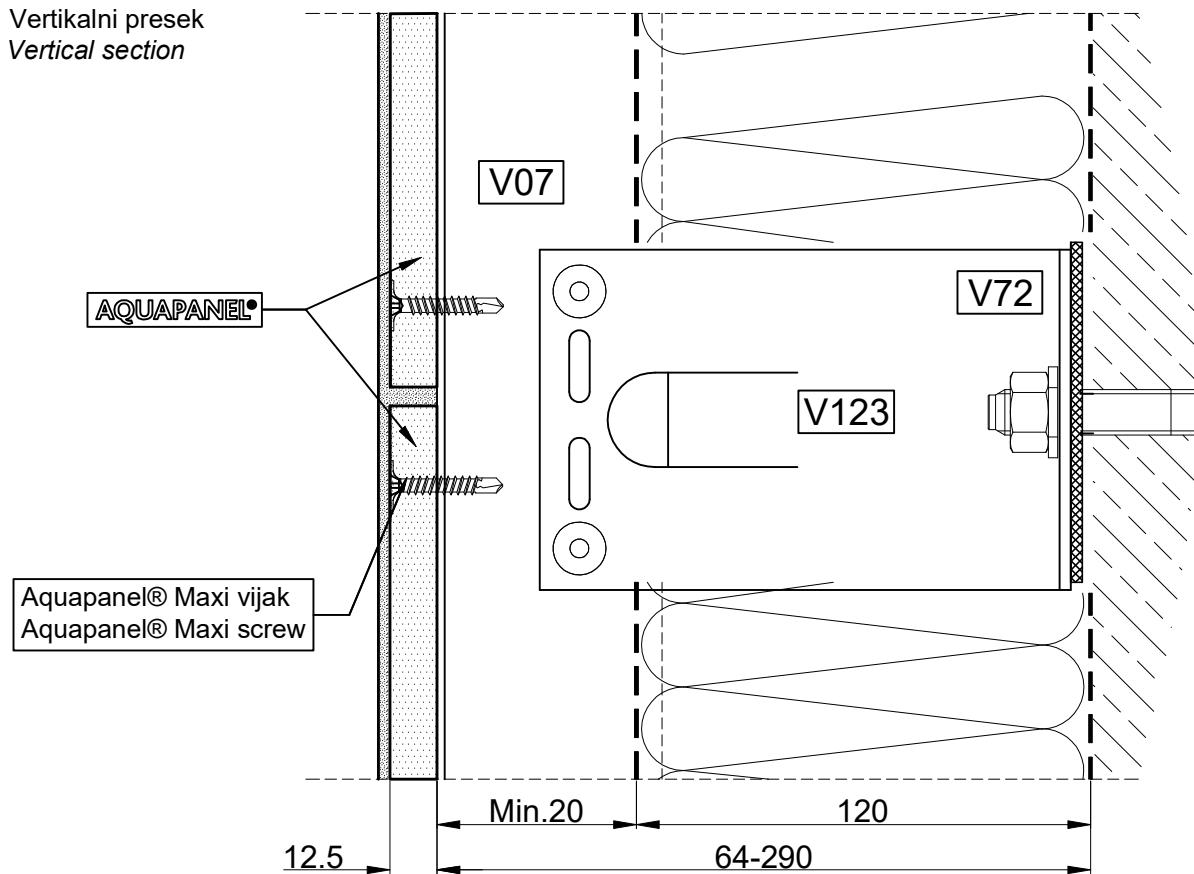
+

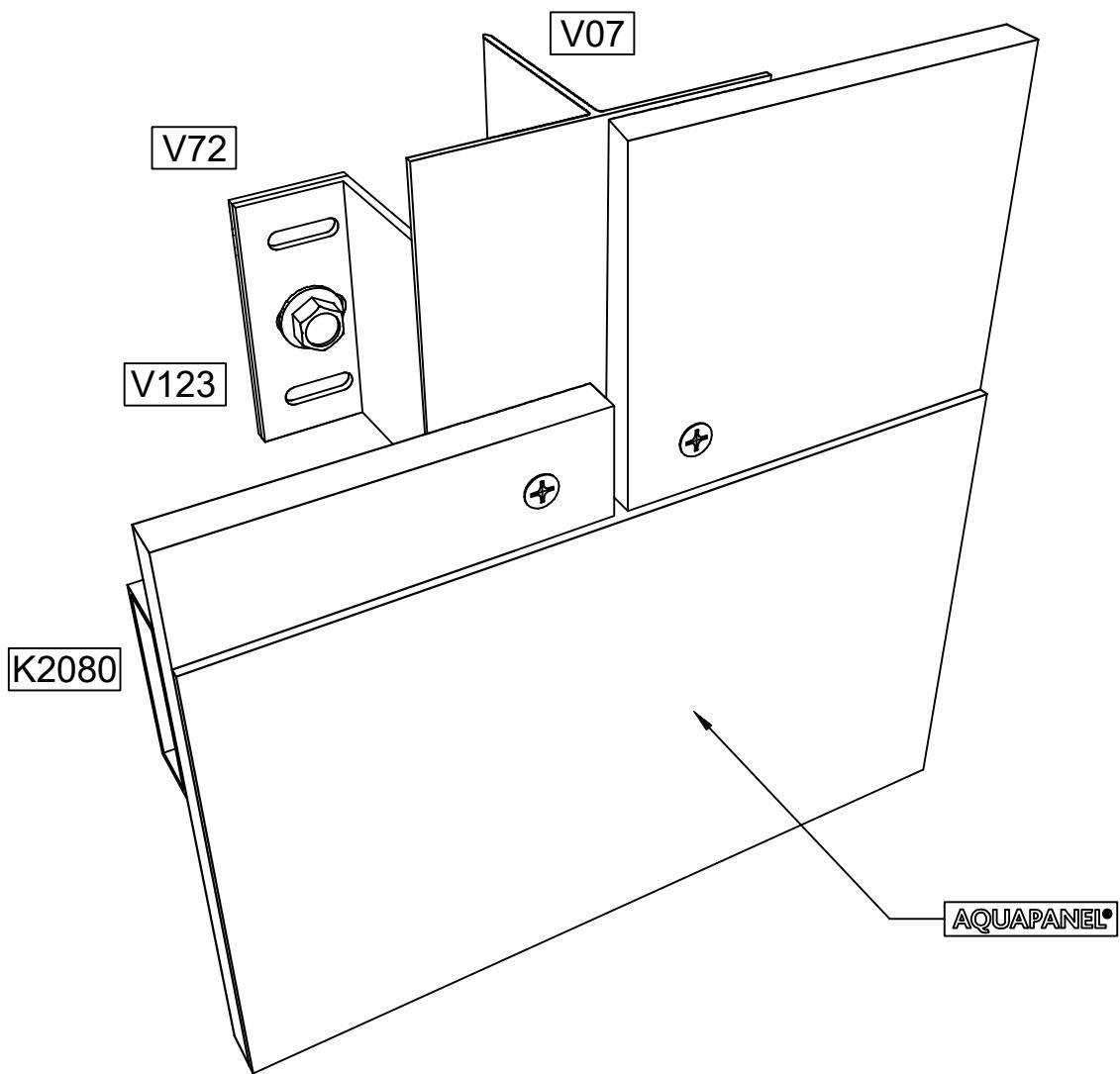
knauf aquapanel

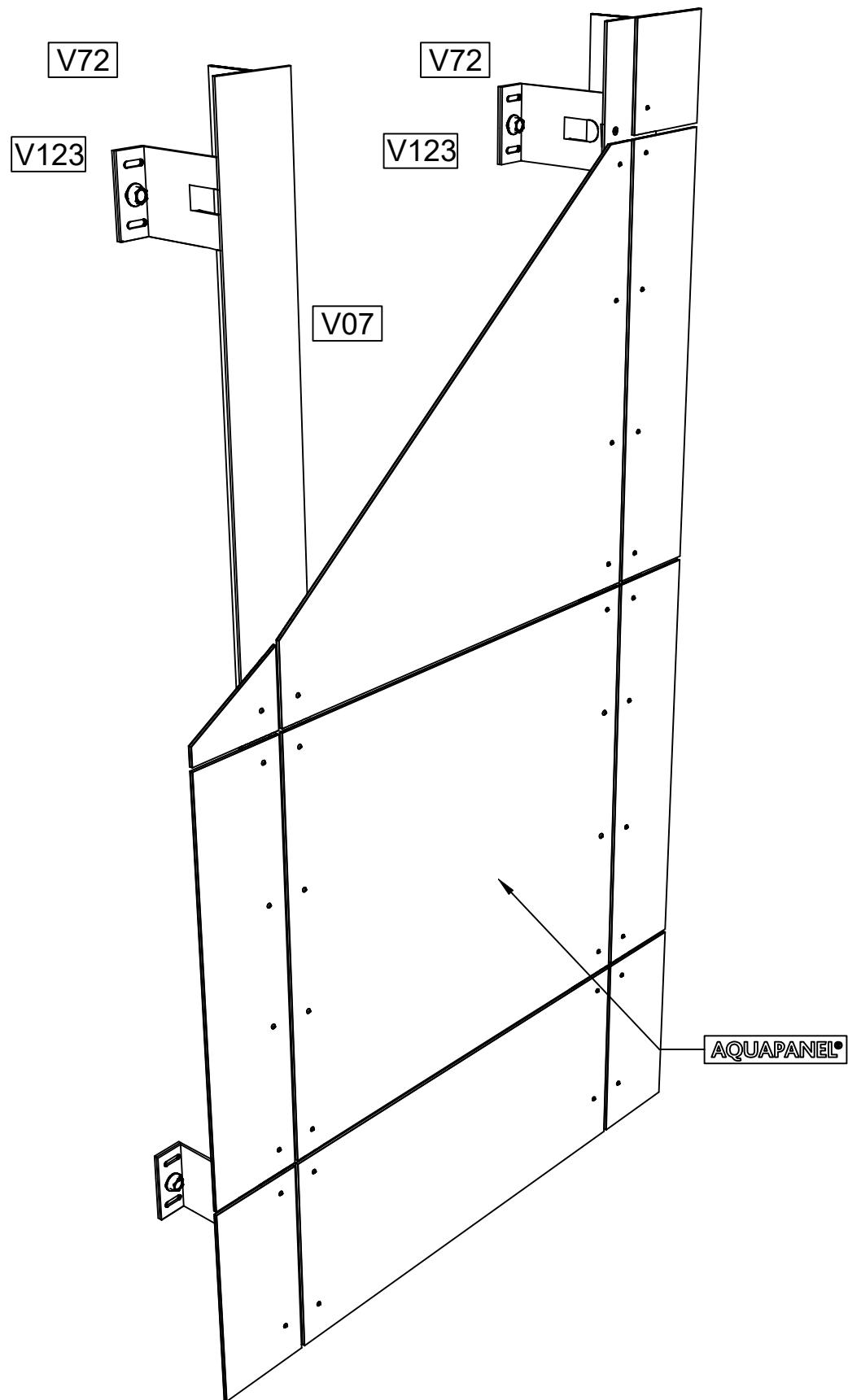
Horizontalni presek
Horizontal section

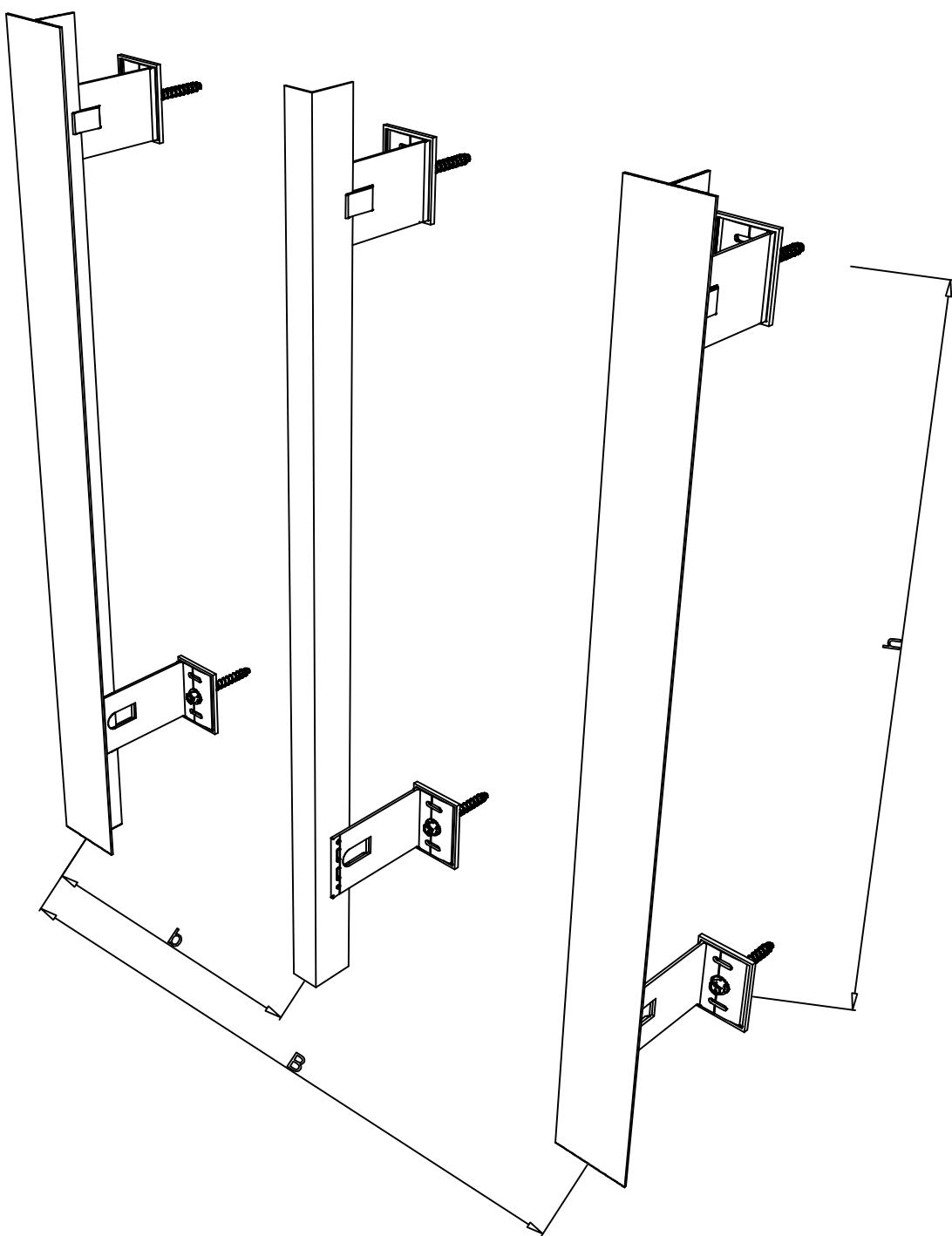


Vertikalni presek
Vertical section





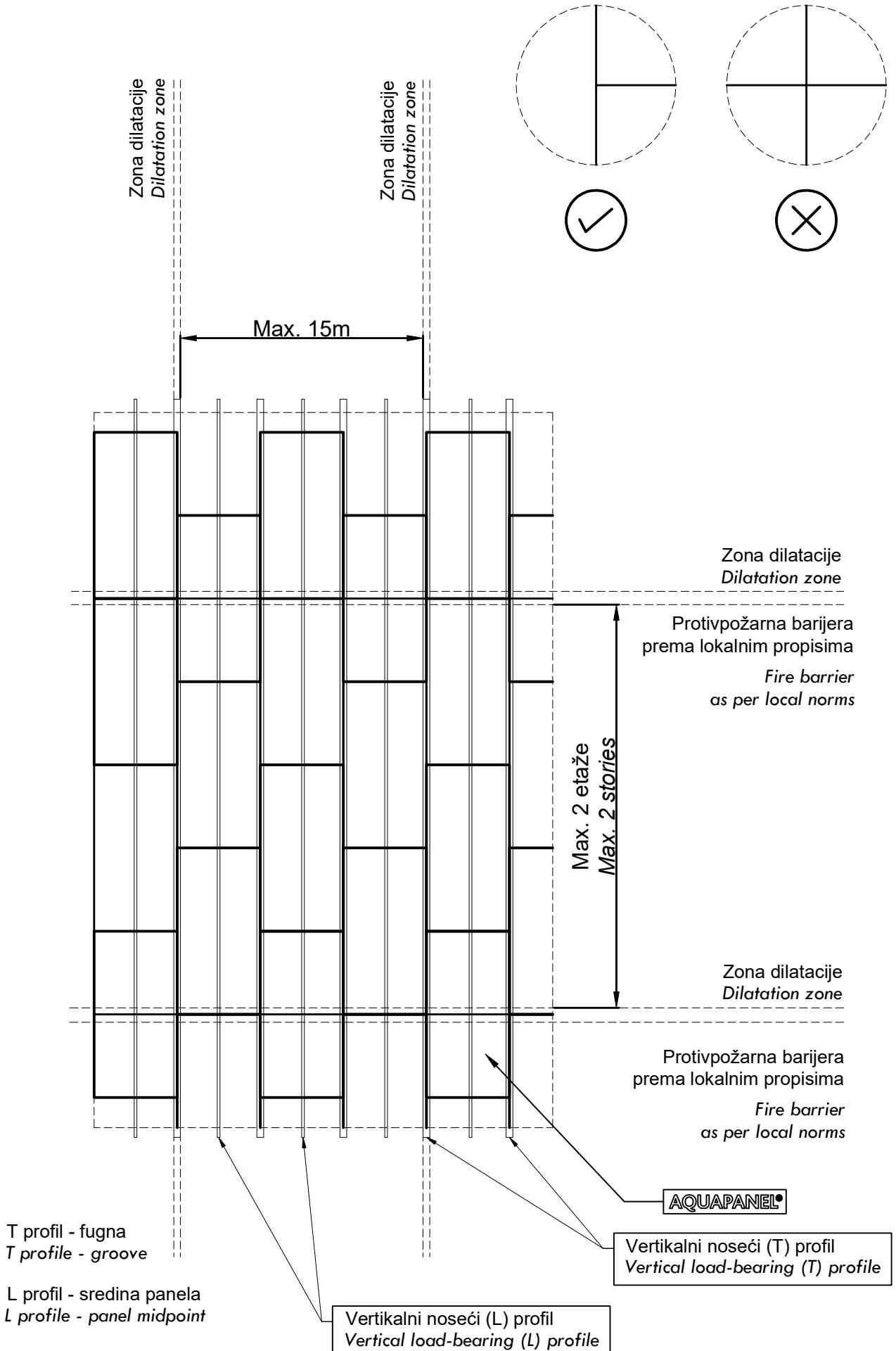


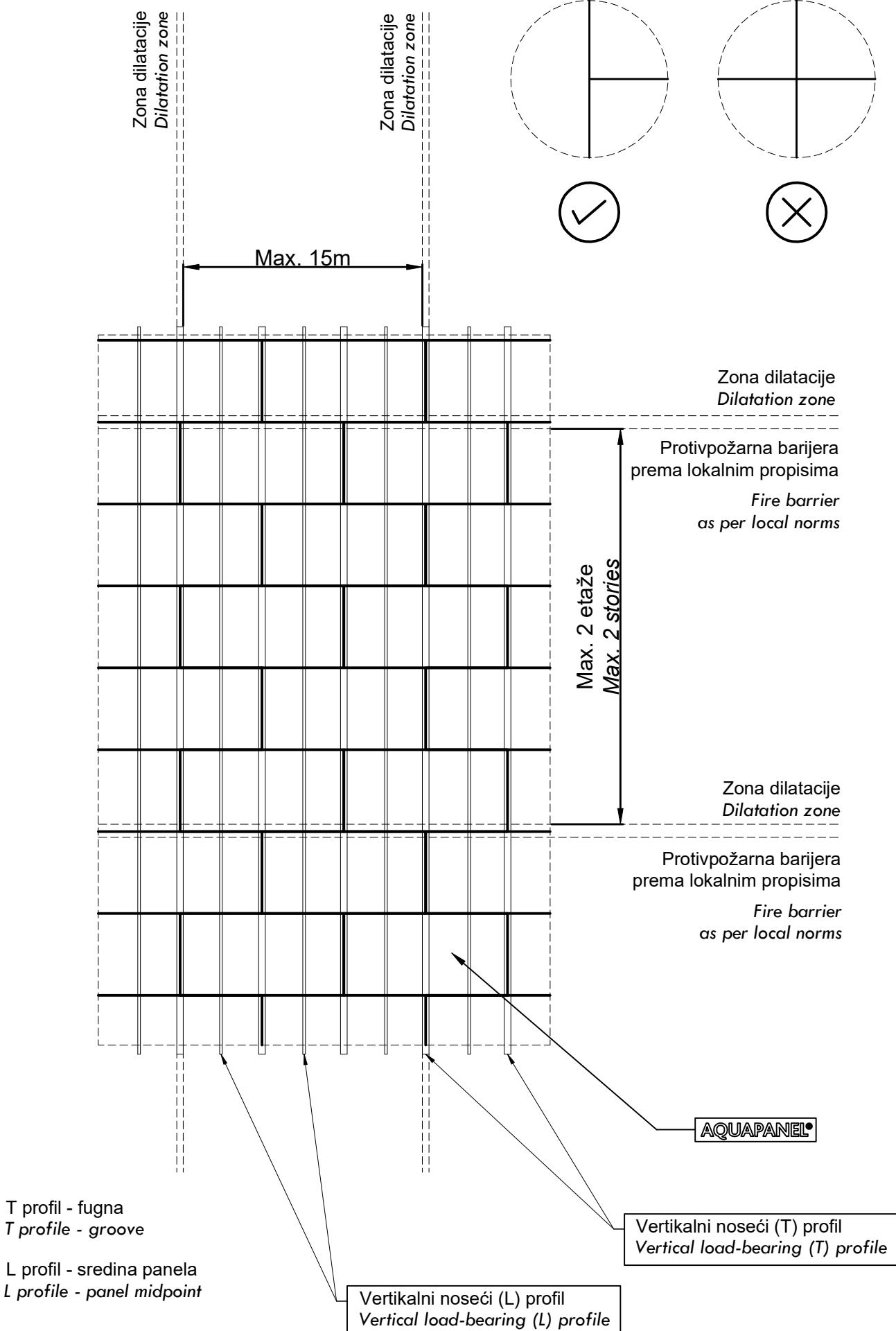


b - prema statičkom proračunu, ali ne više od 625mm
b - according to structural analysis, but no more than 625mm

h - prema statičkom proračunu i u skladu sa primjenjenom 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



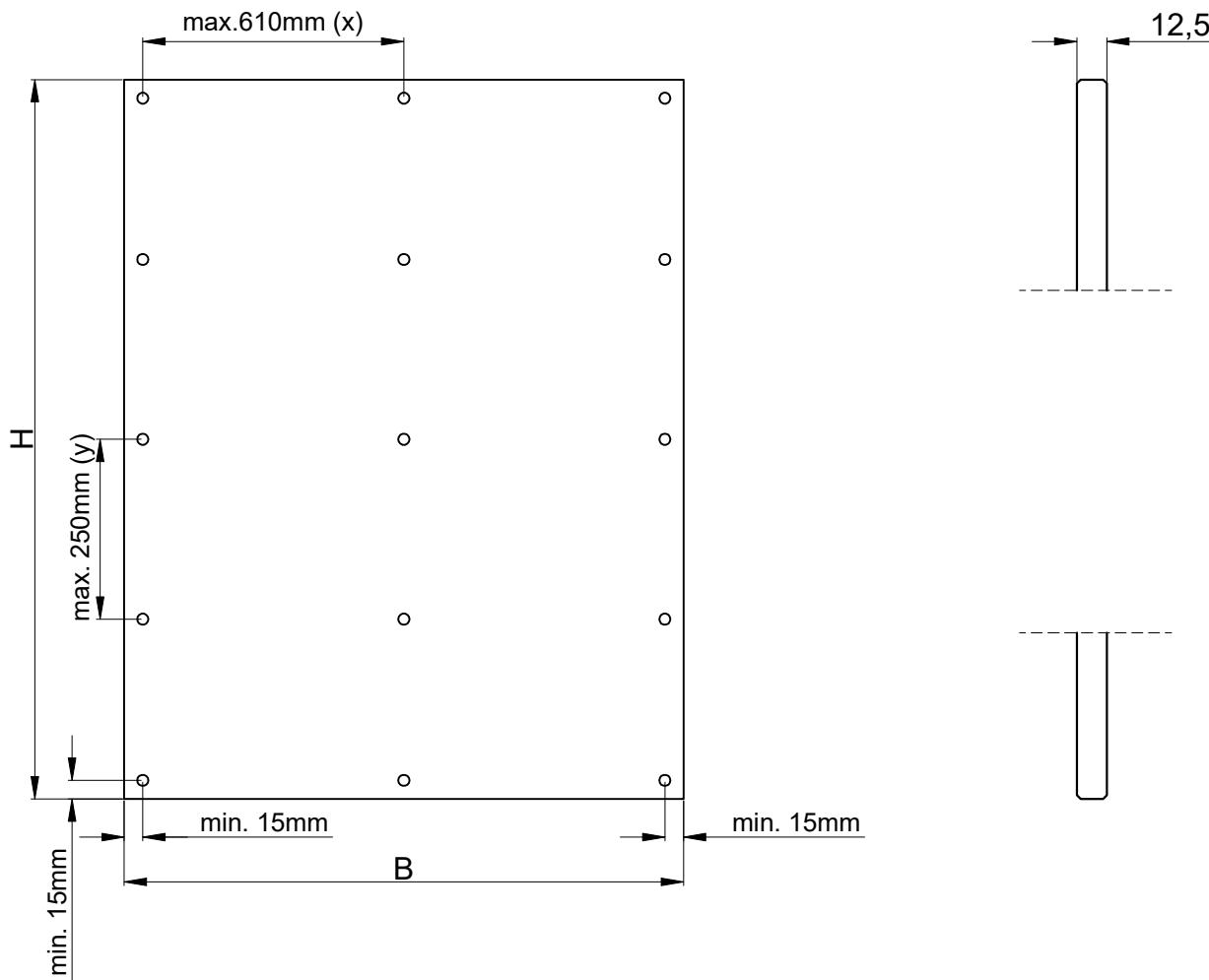


T profil - fugna
T profile - groove

L profil - sredina panela
L profile - panel midpoint

Vertikalni noseći (L) profil
Vertical load-bearing (L) profile

Vertikalni noseći (T) profil
Vertical load-bearing (T) profile

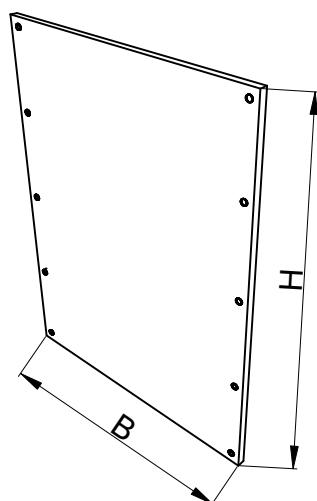


B - proizvodna širina panela Aquapanel® - 1200mm i 1250mm
B - Aquapanel® production panel width - 1200mm and 1250mm

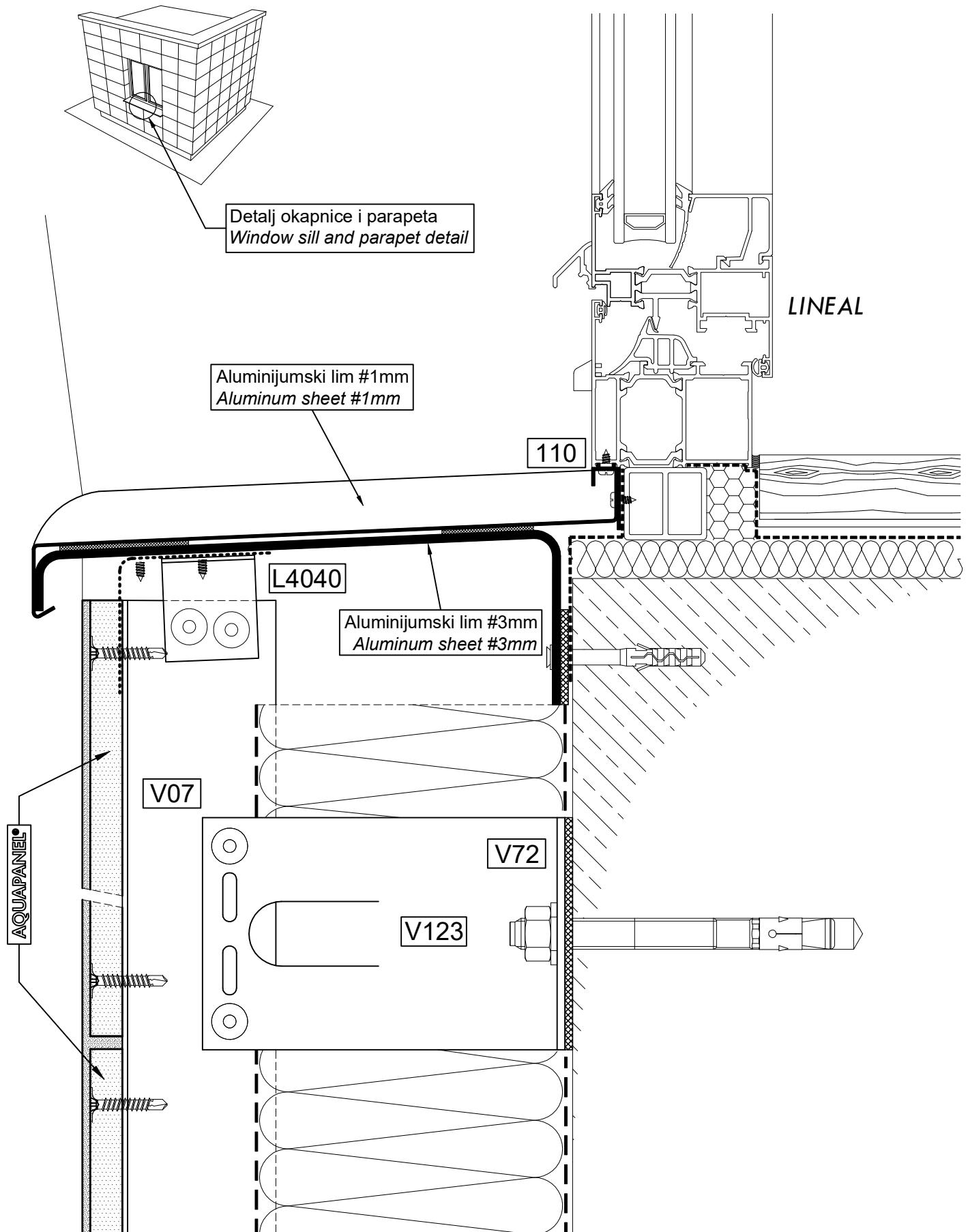
H - proizvodna visina panela Aquapanel®- 900mm, 2000mm i 2500mm
H - Aquapanel® production panel height - 900mm, 2000mm and 2500mm

x - prema uputstvu proizvođača panela Aquapanel® - Max. 610mm
x - in accordance with instructions by Aquapanel® panel producer - Max. 650mm

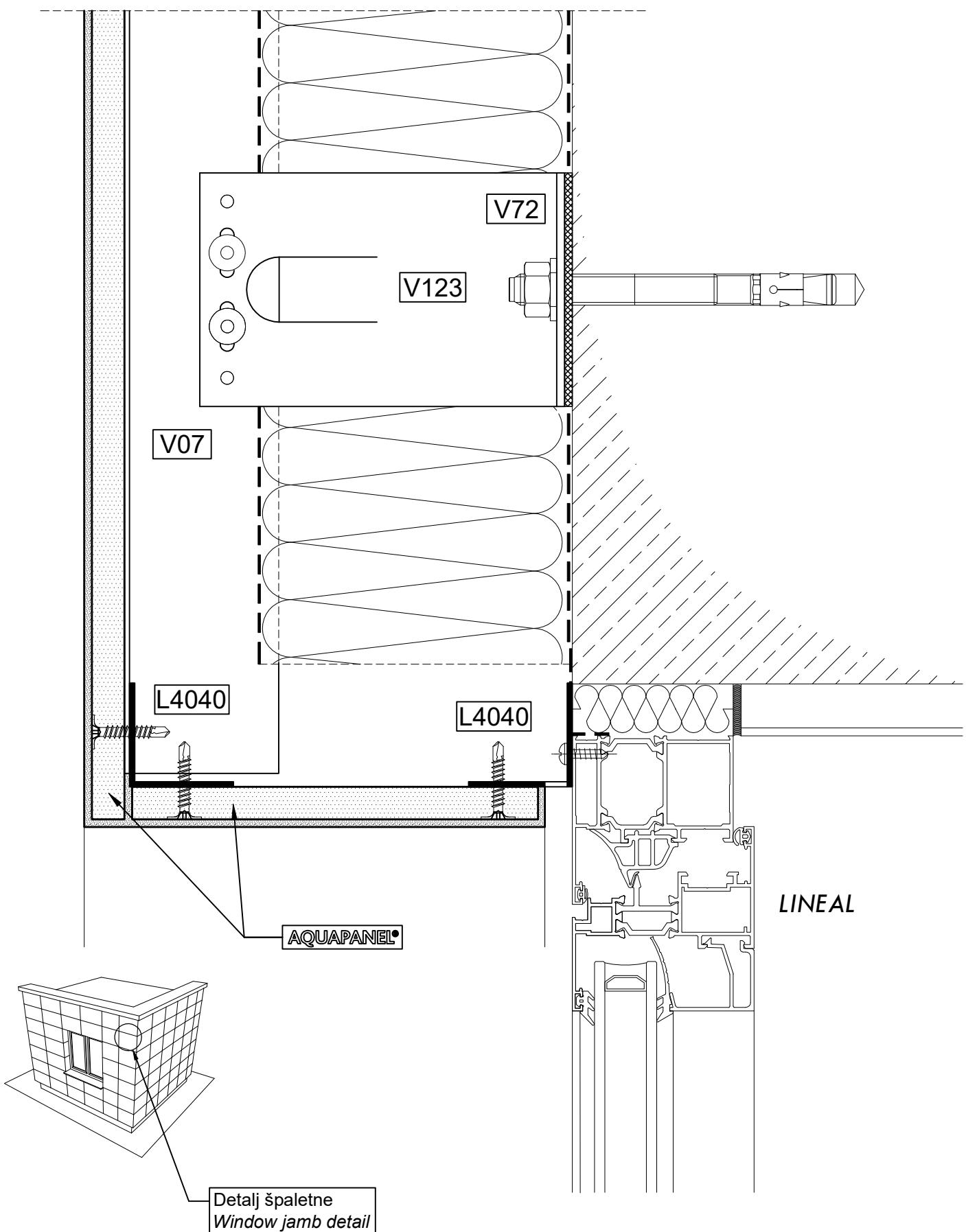
y - prema uputstvu proizvođača panela Aquapanel®- Max. 250mm
y - in accordance with instructions by Aquapanel® panel producer - Max. 250mm



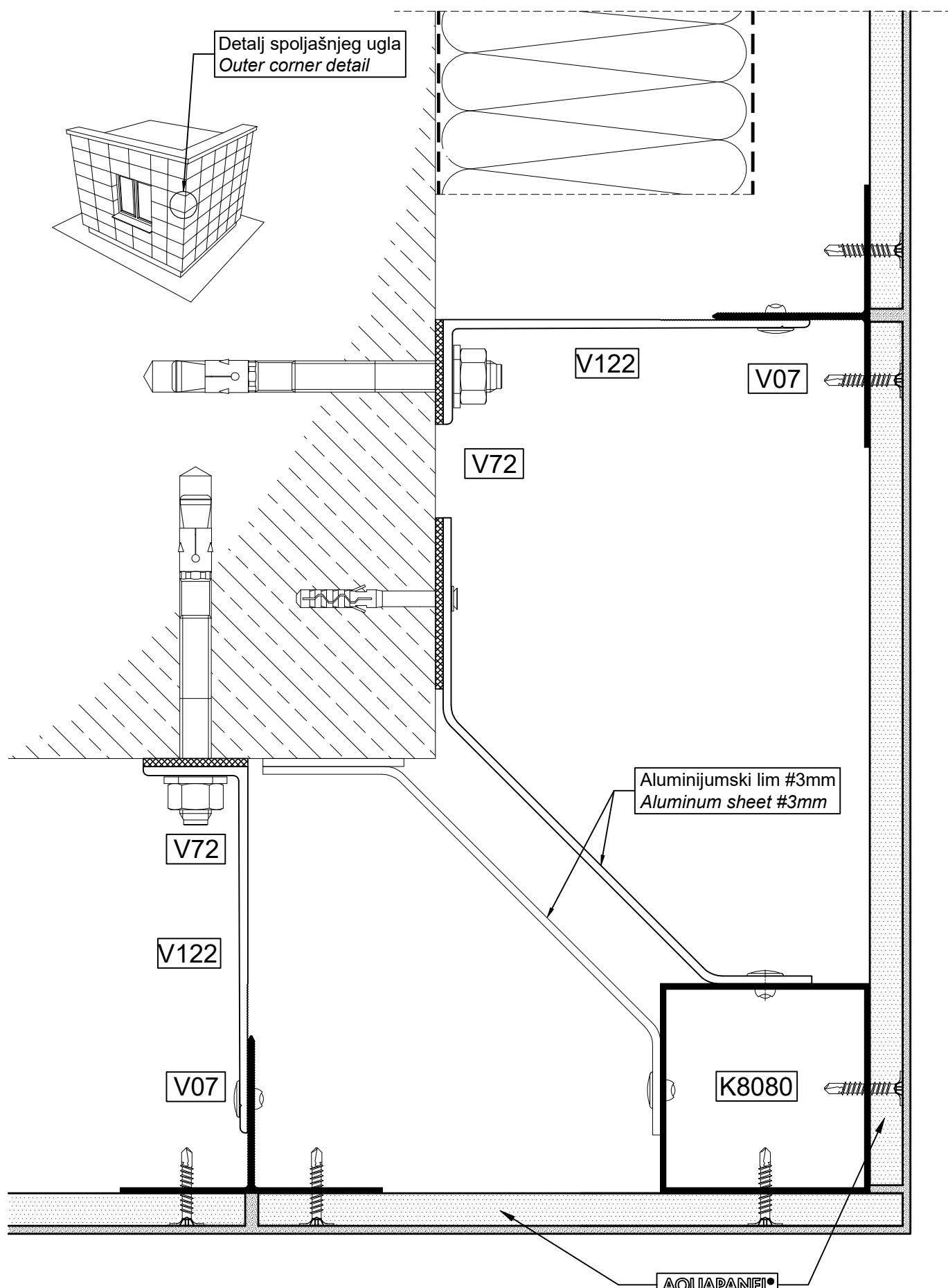
Vertikalni presek
Vertical section



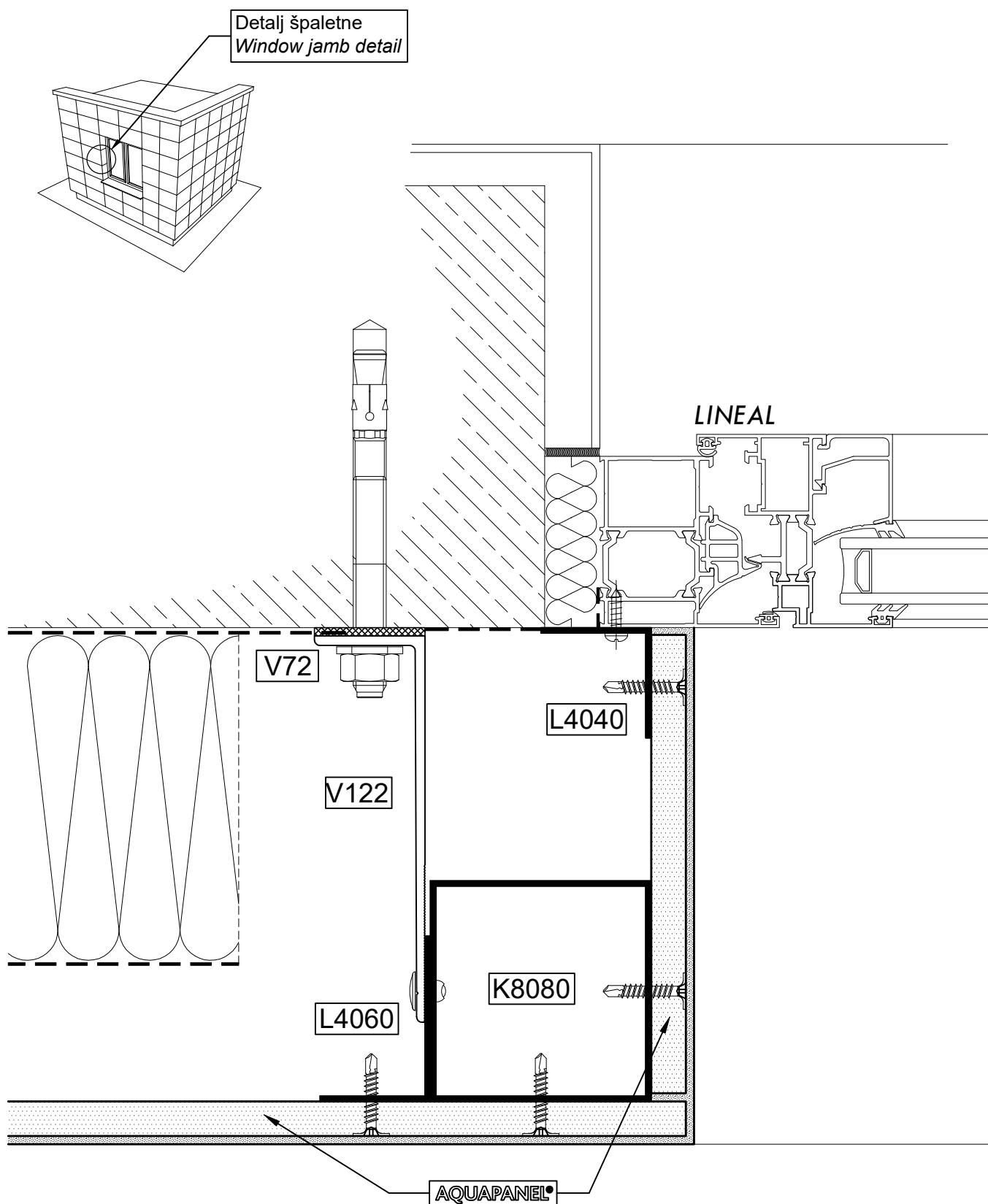
Vertikalni presek
Vertical section



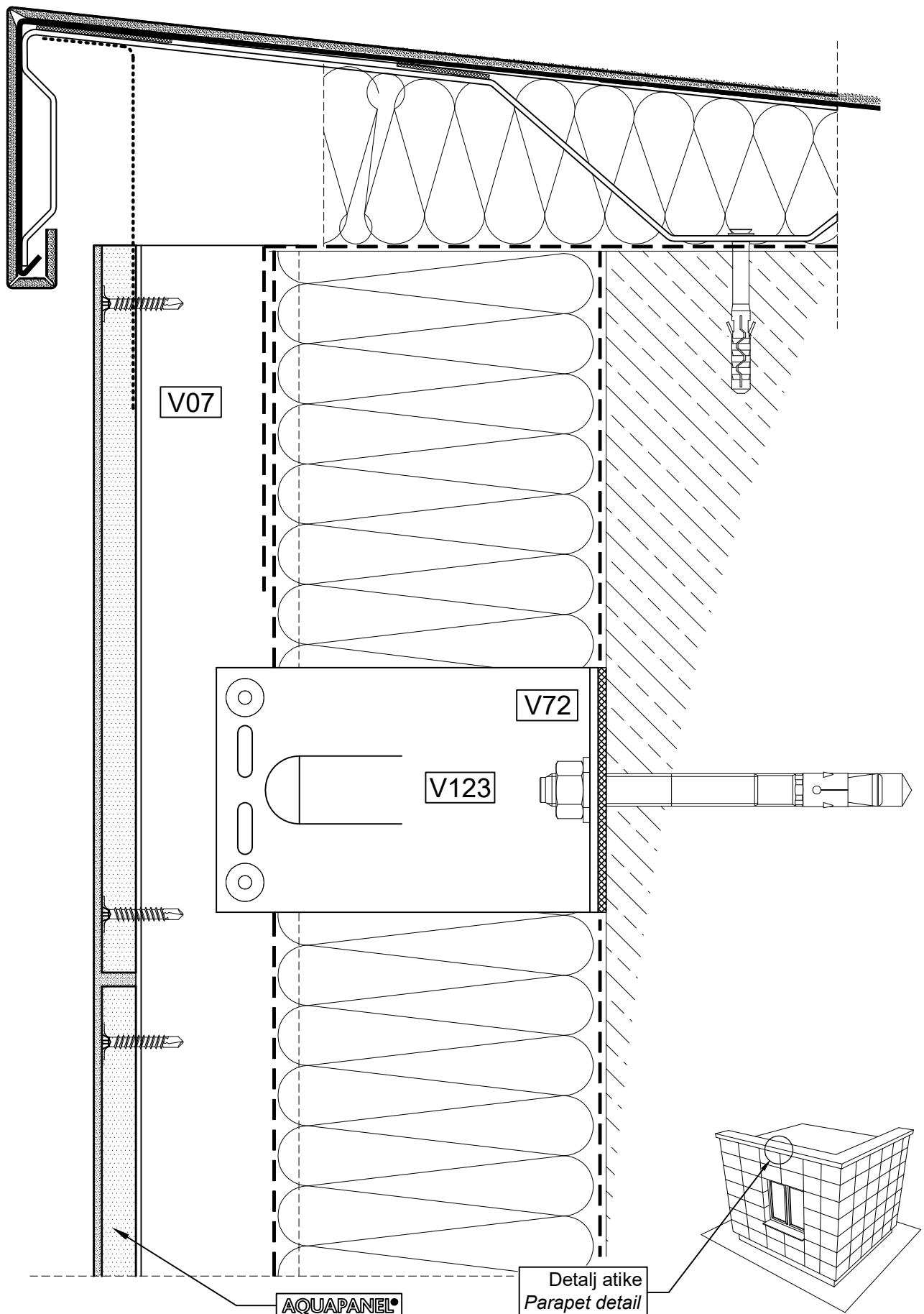
Horizontalni presek
Horizontal section



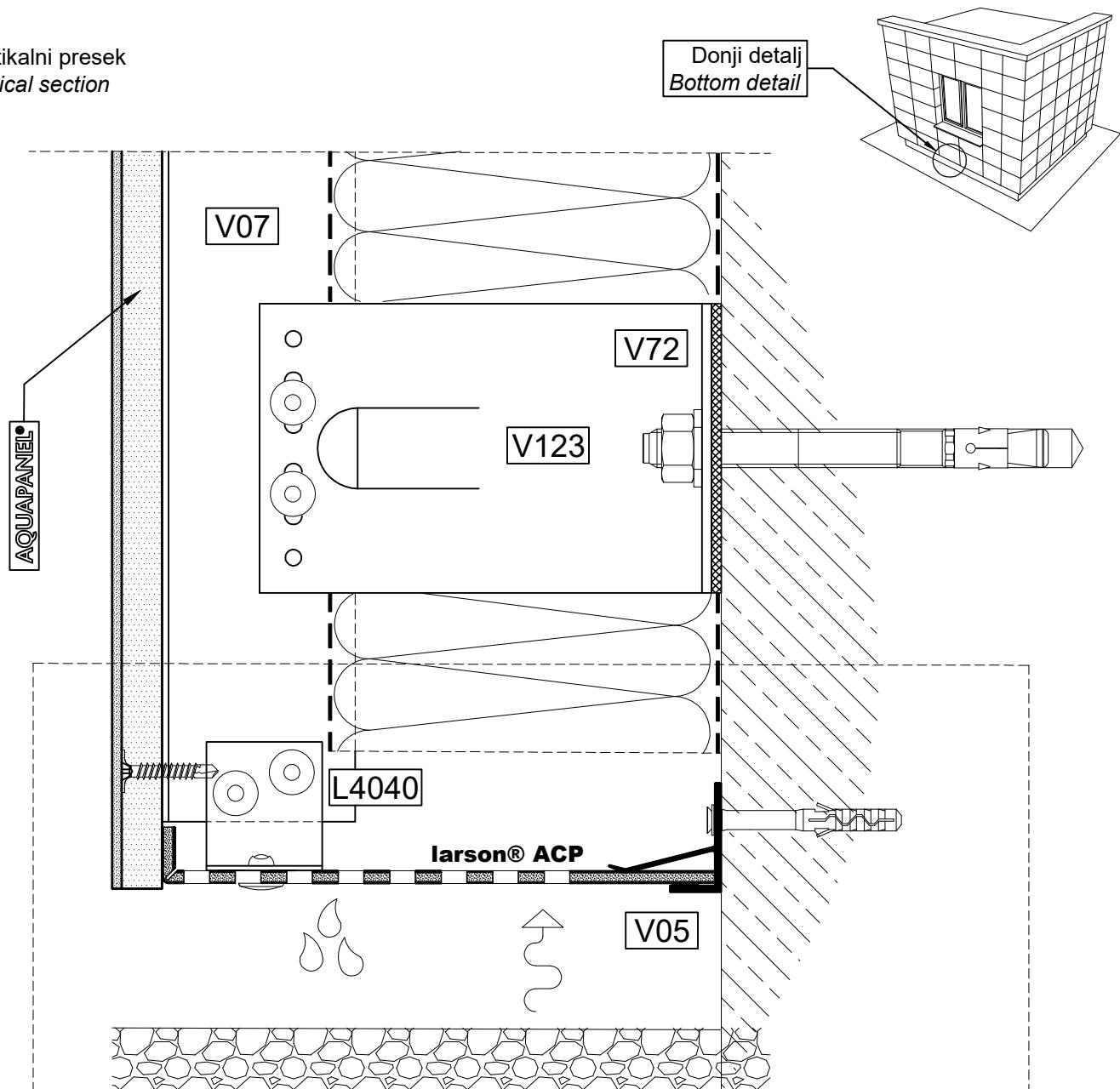
Horizontalni presek
Horizontal section



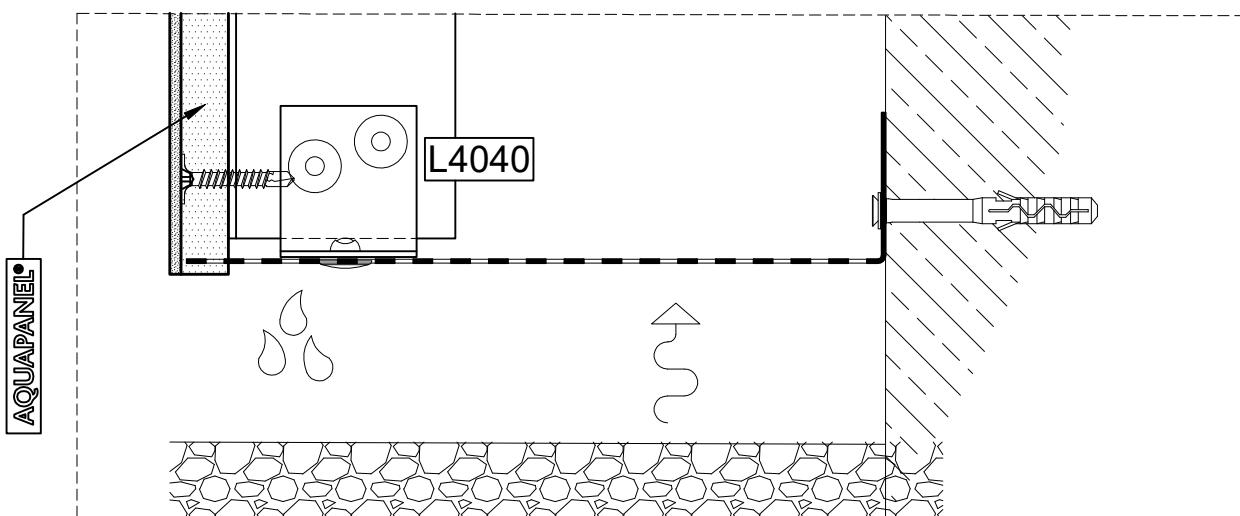
Vertikalni presek
Vertical section



Vertikalni presek
Vertical section

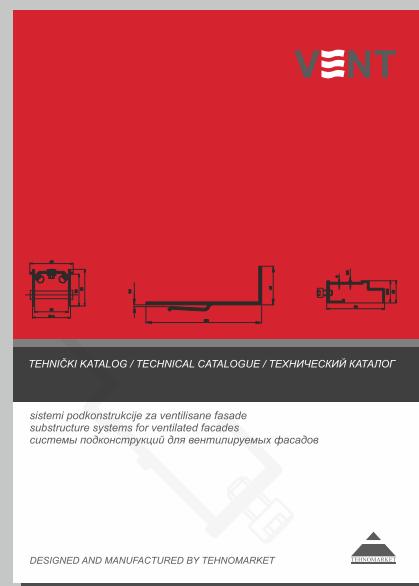
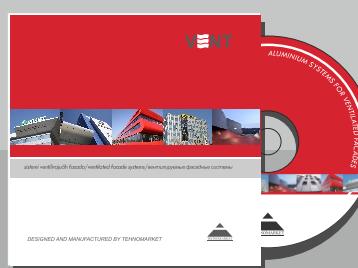


Opcija drenaže: perforirani aluminijumski kompozitni panel
Drainage option: perforated aluminium composite panel



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

VIŠE INFORMACIJA O VENT SISTEMIMA MORE INFORMATION ABOUT VENT SYSTEMS



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