

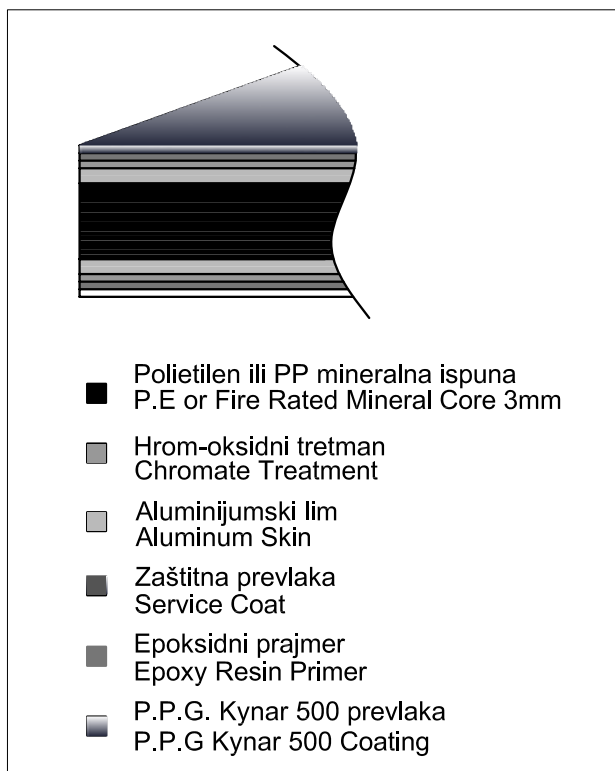
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ALUBOND U.S.A. brand name za aluminijumske kompozitne panele vlasništvo e kompanije American Building Technologies, Denver U.S.A.

Panelli su sačinjeni od obostranih aluminijumskih ploča sa polietilenskim jezgrom integrisanih u sendvič procesom kontinuirane ko-ekstruzije. Kompaktnost i postojanost sistema obezbeđeni su najnovijom tehnologijom kombinovanog mehaničkog i hemijskog spajanja. **ALUBOND U.S.A.** je jedini materijal te vrste koji je sačinjen od maksimalnih osam slojeva, što ga ubraja u najpostojaniji u ovoj grupi proizvoda. Kvalitet limova obezbeđen je vrhunskim kvalitetom koji garantuje njegov proizvođač, firma ALCAN, druga po veličini svetska korporacija za proizvodnju aluminijuma. Spoljna strana panela zaštićena je PVDF Kynar 500 fluorcarbon filmom koji poseduje izvanrednu otpornost na atmosferske uticaje, a naročita na UV zračenja.

ALUBOND U.S.A. - Struktura

Kompozicija se sastoji od osam slojeva najbrižljivije odabranih materijala i hemijskih komponenti. U proizvodnji se koriste isključivo Kynar 500 PVDF prevlake proizvod kompanije PPG U.S.A. i aluminijumske trake Alcan Aluminium, U.S.A.



Prikaz slojeva alubond panela

Product Composition

ALUBOND U.S.A. - Prednosti

- Mala težina, ravnost površine i velika čvrstoća čine ga najekonomičnijom opcijom na visokozahtevnim objektima za oblaganje fasada kao i za unutrašnje oblaganje.
- Otpornost na atmosferske uticaje u kombinaciji sa odličnim akustičnim, termičkim i vatrootpornim svojstvima.

- Izbor boje od Solida, Metalike, Granita, Artic Ice i Furnira čine ga materijalom iz snova za svakog arhitektu ili dizajnera.
- Laka mašinska obradivost i fleksibilnost oblika čine ga nezamenjivim kod kompleksnih dizajnerskih rešenja i daju mu univerzalnu primenljivost.

Fizička svojstva

Naziv	Jedinica	Debljina		
		3mm	4mm	6mm
		3mm	4mm	6mm
Gustina	g/cm ³	1.52	1.37	1.22
Težina	kg/m ²	4.55	5.48	7.34
Toplotno širenje (-20~60°C)	10-6/°C	15	25	25
Termoprovodljivost (U-Value)	w/mK	0.15~0.19		
Temperatura deformacije	°C	113		
Zvučna izolacija (100~3200HZ)	dB	24	26	27

Ova vrsta kompozitnih panela je laka za mašinsku obradu, može se krojiti i savijati u kasete različitih dimenzija i oblika, čime u potpunosti zadovoljava zahteve moderne arhitekture i dizajna. U odnosu na pločaste materijale koji su do sada imali dominantnu primenu **ALUBOND U.S.A.** je 1,6 puta lakši od aluminijuma i čak 3,4 puta lakši od čelika.

ALUBOND U.S.A. - PRIMENA

Prema navedenim karakteristikama, **ALUBOND U.S.A.** nalazi svoju najveću primenu u oblaganju fasada i krovnih površina gde su zahtevi za postojanim i otpornim materijalom najizraženiji.

Zbog svojih tehničkih karakteristika, na prvom mestu zbog lakoće, krutosti i ednostavnog oblikovanja, ovaj ACP pronalazi sve veću primenu i u dizajnu enterijera poslovnih, javnih i prodajnih objekata, u izradi svih vrsta reklamnih panoa, sajamskih štandova, zatim benzinskih pumpi, autobuskih stajališta, saobraćajne signalizacije, u nadogradnji vozila, proizvodnji mašina... Prema posebnim zahtevima zaštitni film se može raditi kao poliesterska obloga koja dozvoljava nanos boje štampom i ima dominantnu primenu u oblasti vizuelnih komunikacija i marketinga. Takođe, za objekte specijalne namene PE jezgro može biti zamenjeno posebnim nezapaljivim materijalom.

ALUBOND U.S.A. - Proizvodi

Naziv	Debljina						Zaštita	Aluminijum
	1mm	2mm	3mm	4mm	5mm	6mm		
Alubond- Eksterijer	-	-	*	*	*	*	Kaynar 500 PVDF	Alcan-U.S.A.
Alubond- Enterijer	*	*	*	*	*	*	Polyester	Alcan-U.S.A.
Alubond- Granite- Ekst	-	-	*	*	*	*	Kaynar PVDF Film	Alcan-U.S.A.
Alubond- Granite-Ent	-	*	*	*	*	*	IT- Polyester	Alcan-U.S.A.
Alubond- Veneers- Ekst	-	-	*	*	*	*	Kaynar PVDF Film	Alcan-U.S.A.
Alubond- Veneers- Ent	-	*	*	*	*	*	IT- Polyester	Alcan-U.S.A.
Alubond- Arctic Ice- Ekst	-	-	*	*	*	*	Kaynar PVDF Film	Alcan-U.S.A.
Alubond- Arctic Ice- Ent	-	*	*	*	*	*	IT- Polyester	Alcan-U.S.A.
Alubond- Chamaleon- Ekst	-	-	*	*	*	*	Kaynar PVDF Film	Alcan-U.S.A.
Alubond- Chamaleon- Ent	-	*	*	*	*	*	IT- Polyester	Alcan-U.S.A.

ALUBOND u.s.a. - OBRADA

Može se obrađivati sečenjem, usecanjem žlebova, bušenjem, štancovanjem, graviranjem, lučnim savijanjem, zatim savijanjem pod uglovima uz primenu najrazličitijih alata mašinske obrade.

ALUBOND u.s.a. - SISTEMI UGRADNJE

U slučaju ugradnje na velikim površinama fasada mogu se primenjivati različiti sistemi ugradnje od onih najjednostavnijih uz pomoć pop-nitni, preko onih sa zaptivnim gumama, umetcima od aluminijumskih profila do onih sa bolcnama za kačenje prefabrikovanih kaseti.

ALUBOND U.S.A is the brand name for new technology Aluminium Composite Panels from American Building Technologies, Denver U.S.A. The panel is a composite consisting of two layers of aluminium skin sandwiching a thermoplastic core in a continuous co-extrusion process. This new generation technology of mechanical and chemical bonding gives Alubond Panels an exceptional bond integrity.

ALUBOND STRUCTURE

ALUBOND panels shall be exterior grade, 4mm thick composed of a low density Polyethylene Core sandwiched between two sheets of Aluminium of 0,5mm thickness. The outer top skin is coated with PVDF KYNARN 500 (more than 70% PVDF resin) Fluorocarbon coating from P.P.G U.S.A. There is a protective coating on the back skin. The lower aluminium skin is chromate treated.

ALUBOND PRODUCTS ADVANTAGES

- Lightweight, extreme rigidity and flatness resulting in an economical option for high quality building facades and interior claddings
- Weather resistance combined with high acoustics, Thermal and Fire rated values
- Choice of Solid, Metallic, Granite, Veneer, Artic Ice and Chameleon colours makes ALUBOND an Architect's dream for choice of interior and exterior facade's treatment.
- Kynar 500 PVDF Coatings from P.P.G U.S.A used on all ALUBOND panels provides for 10-15 years warranty
- Easy machinability gives the flexibility of shapes making it a versatile panel to achieve complex designer solutions.

ALUBOND APPLICATIONS

ALUBOND's array of colours and finishes combined with the inherent capability of forming into different shapes and contours with durability and weather resistance makes ALUBOND an Architect's Dream.

Some of the commonly used ALUBOND applications are:

- Circular Columns
- Building Facades
- Wall Panelling Concepts
- Soffits and Beams
- Metal Ceilings and Partitions
- Exhibition and Display Stands
- Shopfronts and Signages
- Window Surrounds
- Door Panels and Frame.

ALUBOND Panels Dimensions

Standard Width: 1220mm
 available Widths: 1000mm, 1250mm, 1500mm, 1550mm
 available Lengths: Any length up to 2000mm
 available Thickness: 1 mm, 2 mm, 3 mm, 4 mm, 5 mm, 6 mm

ALUBOND Performance

Panels should be installed as per fixing details and accessories recommended by the Manufacturer and shall carry a 10 years Warranty on weather durability, U colour fading, corrosion, chalking, fading, weather damage and manufacturing defects. Also, panels shall be extensively tested in compliance to ASTM, BS standards and AAMA 605.2 requirements.

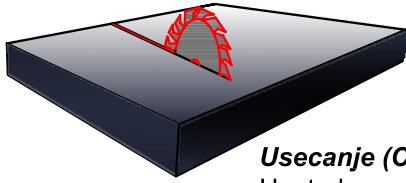
ALUBOND - Physical Properties

Item	Unit	Thickness		
		3mm	4mm	6mm
Density	g/cm ³	1.52	1.37	1.22
Weight	kg/m ²	4.55	5.48	7.34
Thermal Expansion (-20~60°C)	10-6/°C	15	25	25
Thermal Conductivity (U-Value)	w/mK	0.15~0.19		
Temperature for Thermal deformation	°C	113		
Acoustic Insulation (100~3200HZ)	dB	24	26	27

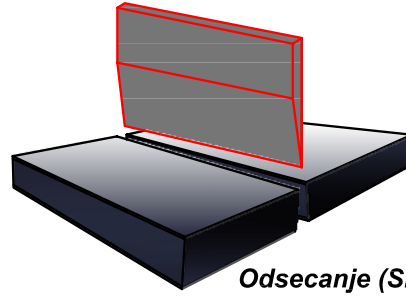


ALUBOND U.S.A. Product Range

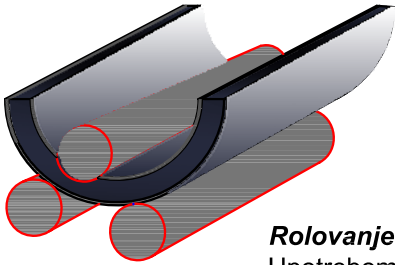
Product Range	Alubond ACP Available Thickness						Coating/ Finish	Aluminum
	1mm	2mm	3mm	4mm	5mm	6mm		
Alubond- Exterior	-	-	*	*	*	*	Kaynar 500 PVDF	Alcan- U.S.A.
Alubond- Interior	*	*	*	*	*	*	Polyester	Alcan- U.S.A.
Alubond- Granite-Ext	-	-	*	*	*	*	Kaynar PVDF Film	Alcan- U.S.A.
Alubond- Granite-Int	-	*	*	*	*	*	IT- Polyester	Alcan- U.S.A.
Alubond- Veneers- Ext	-	-	*	*	*	*	Kaynar PVDF Film	Alcan- U.S.A.
Alubond- Veneers- Int	-	*	*	*	*	*	IT- Polyester	Alcan- U.S.A.
Alubond- Arctic Ice- Ext	-	-	*	*	*	*	Kaynar PVDF Film	Alcan- U.S.A.
Alubond- Arctic Ice- Int	-	*	*	*	*	*	IT- Polyester	Alcan- U.S.A.
Alubond- Chamaleon- Ext	-	-	*	*	*	*	Kaynar PVDF Film	Alcan- U.S.A.
Alubond- Chamaleon- Int	-	*	*	*	*	*	IT- Polyester	Alcan- U.S.A.



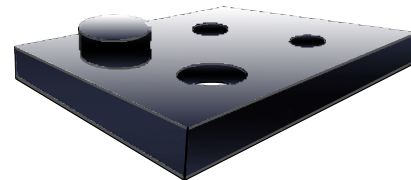
Usecanje (Cutting)
Upotrebom standardnog cirkulara.
(Done by using circular.)



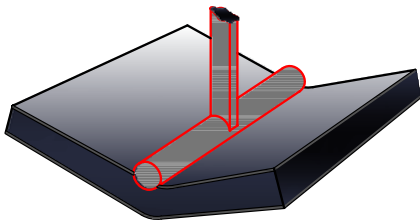
Odsecanje (Slicing)
Upotrebom klasične giljotine.
(Using classical guillotine.)



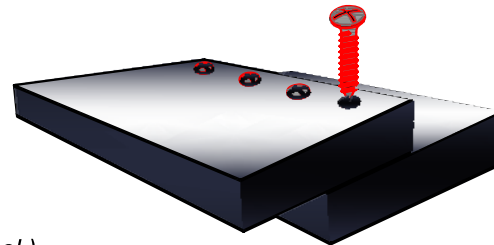
Rolovanje (Rolling)
Upotrebom valjaka.
(Using folding cylinders.)



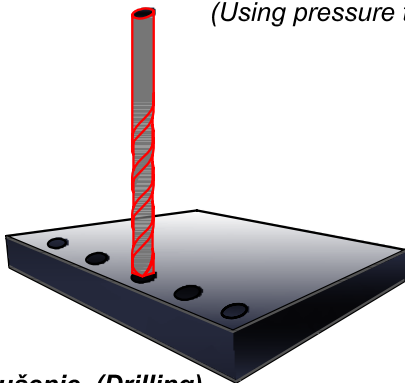
ravljenje otvora (Making Hole)
Upotrebom standardnih alata za bušenje ili CNC obr. centra.
(Using classical drilling tools or CNC machine.)



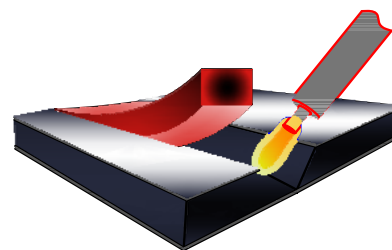
Savijanje (Bending)
Pritiskom alata na panel.
(Using pressure tool or using a folding panel.)



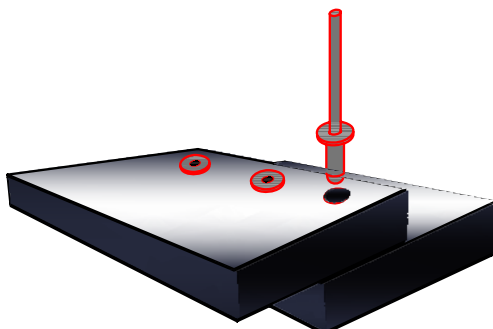
Spajanje vijcima (Screwing)
Upotrebom klasičnih metalnih vijaka.
(Using classical metal screws.)



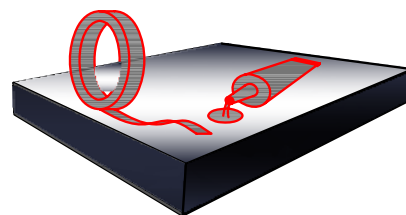
Bušenje (Drilling)
Upotrebom klasičnih spiralnih svrdla ili CNC obradnim centrom.
(Using classical spiral drill winch is using or CNC machine.)



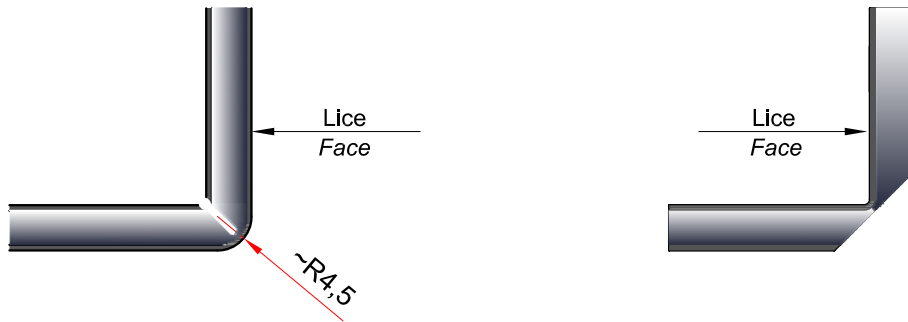
Zavarivanje (Welding)
Upotrebom standardne opreme za zavarivanje plastik
(Using electricity warm tool and welding tool.)



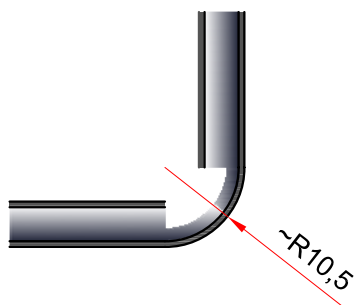
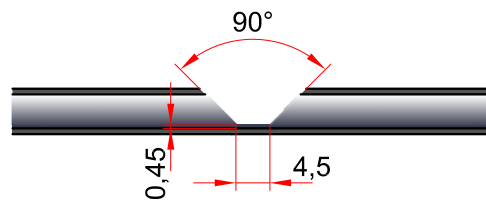
Spajanje pop zakovicama (Riveting)
Upotrebom zakovica u boji ili kapastim zakovicama.
(Using sample or colorful rivet application on panels.)



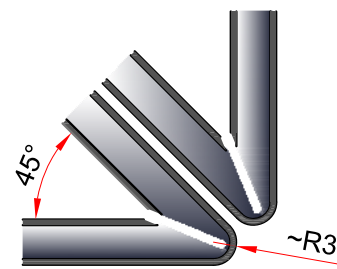
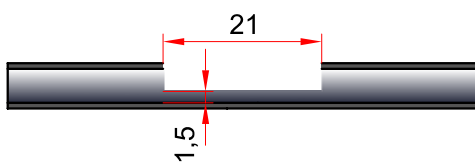
Lepjenje (Attaching)
Upotrebom dvostruke lepljive trake ili lepka za metal.
(Using two side tapes or metal glues.)



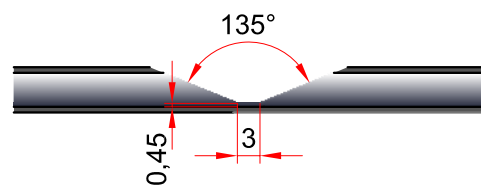
Izrada žljeba za savijanje pod uglom 90°
V- Shaped Groove for 90° folding

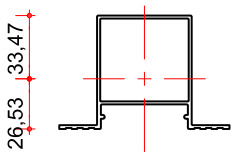
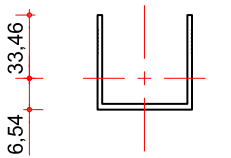


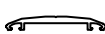
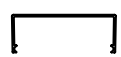
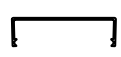

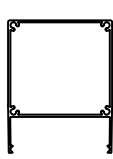


Savijanje alubond panela pod uglom 150°
Bull nosed groove for folding up to 150°



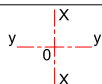
Izrada žljeba za savijanje pod uglom 45°
V- Shaped Groove for 45° folding



OZNAKA Code	PROFIL Section	MASA Weight $\text{Kg/m}'$	OPIS Description
TMAB1	 <p> $S=26,90 \text{ cm}^2$ $J_x=15,0 \text{ cm}^4$ $J_y=81,6 \text{ cm}^4$ </p>	1,184	Vertikalni "Ω" profil Vertical "Ω" profile
U5050	 <p> $S=23,98 \text{ cm}^2$ $J_x=75,5 \text{ cm}^4$ $J_y=72,0 \text{ cm}^4$ </p>	1,188	"U" profil "U" profile
TMAB4		0,986	Profil klizača Slide profile
TMAB5		0,385	Štipaljka Clip profile
TMF3		0,430	Potkapa Curved undercap
TMF4		0,264	Kapa veća Cap bigger
TMF5		0,238	Kapa manja Cap smaller
TMF15		0,931	Eliptična kapa Elliptic cap
TMF20		0,848	Pravougaona kapa Rectangle cap




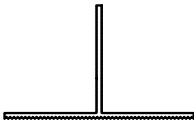
OZNAKA
Code

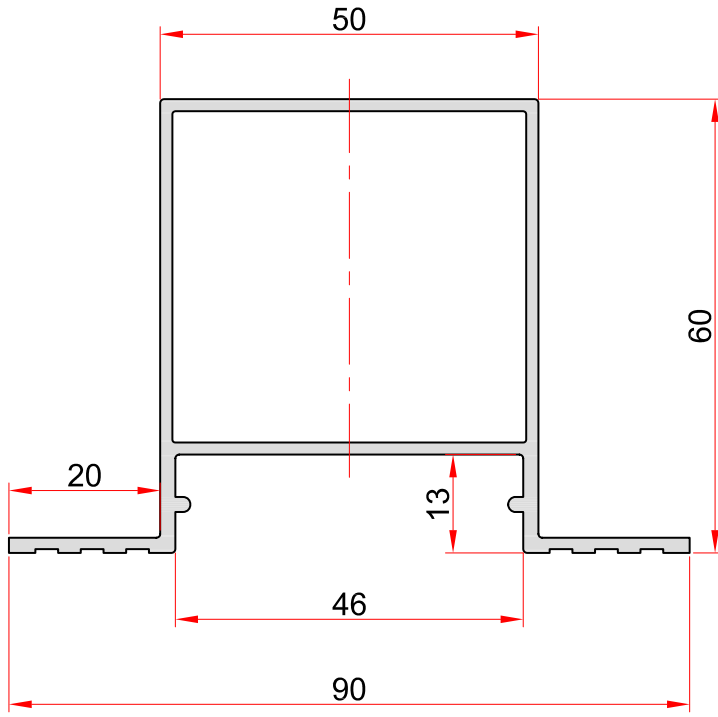
PROFIL
Section



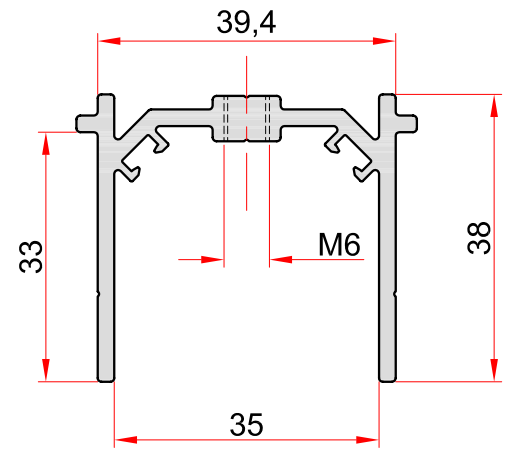
MASA
Weight Kg/m'

OPIS
Description

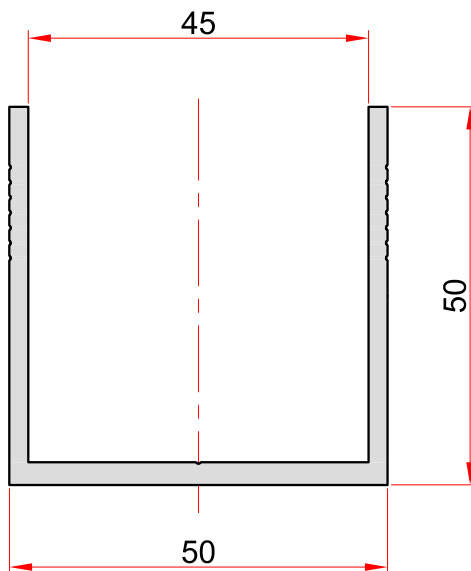
OZNAKA Code	PROFIL Section	MASA Weight Kg/m'	OPIS Description
TMF17		0,216	Spojnica Joint profile
TM39		0,266	Potkapa Undercap
TM40		0,230	Kapa Cap
TMGK1		1,119	"T" profil "T" profile



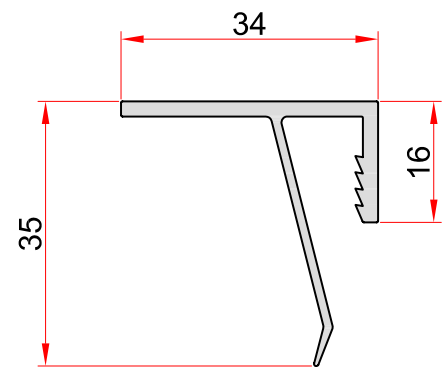
TMAB1
1,184 kg/m



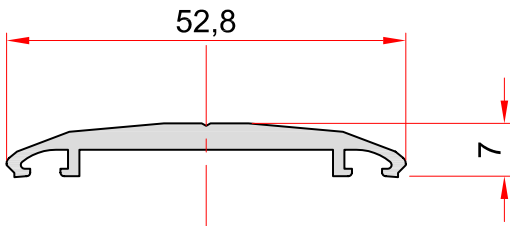
TMAB4
0,867 kg/m



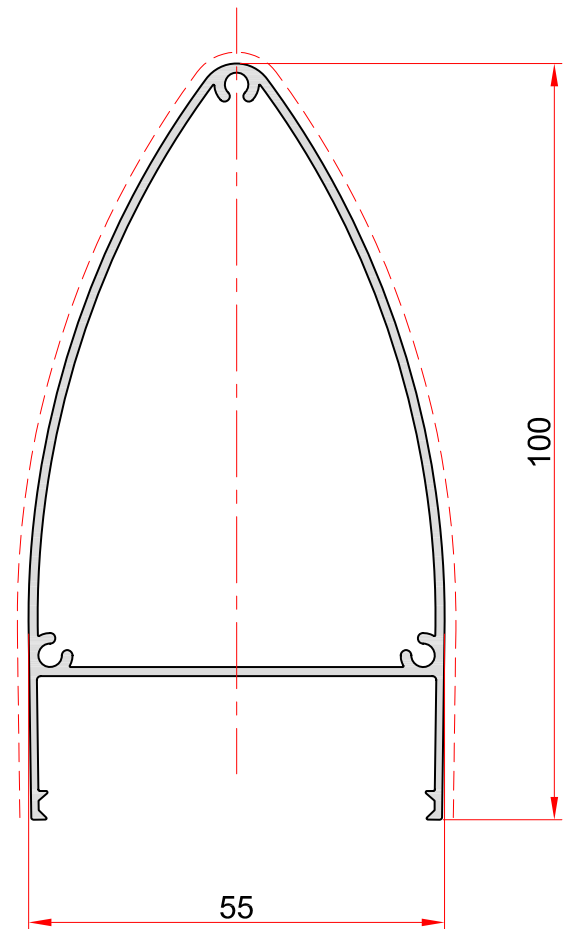
U5050
1,188 kg/m



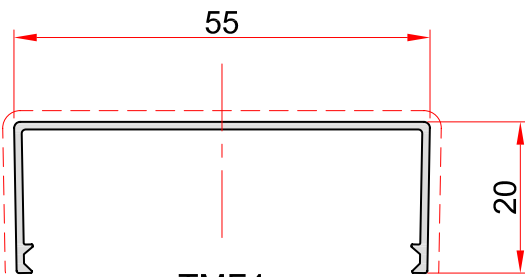
TMAB5
0,385 kg/m



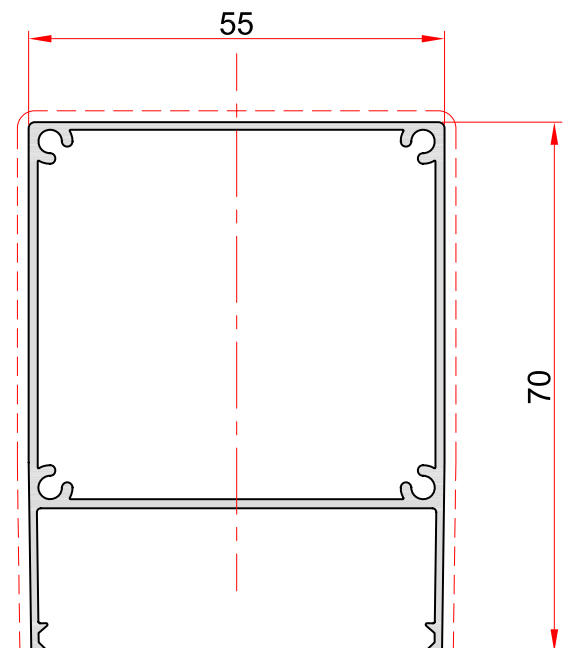
TMF3
0,430 kg/m'



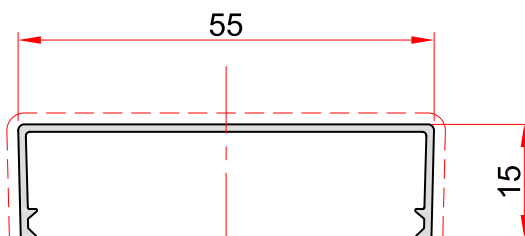
TMF15
0,931 kg/m



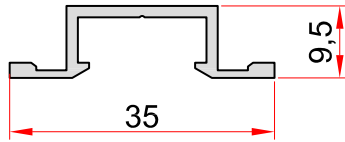
TMF4
0,264 kg/m'



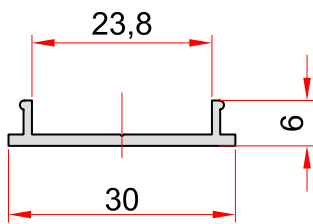
TMF20
0,848 kg/m



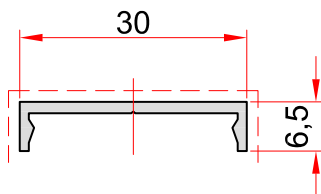
TMF5
0,238 kg/m'



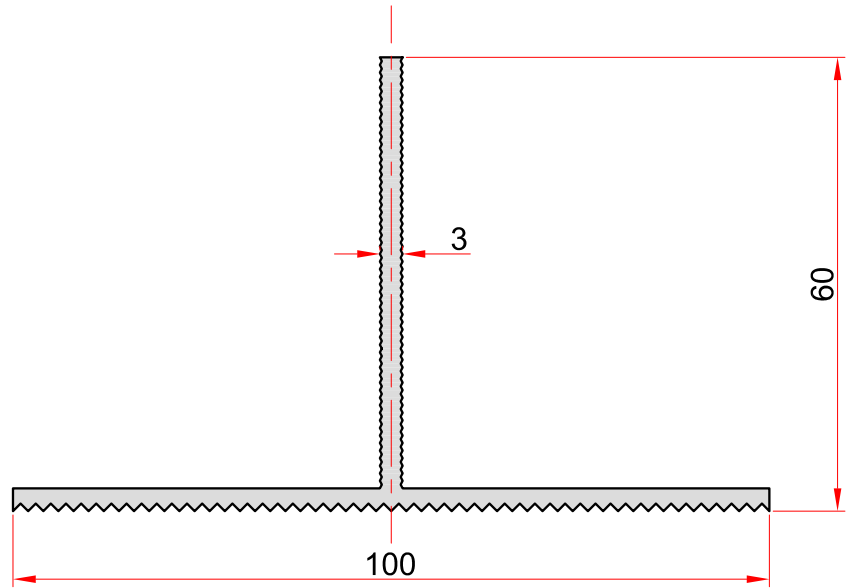
TMF17
0,216 kg/m



TM39
0,266 kg/m



TM40
0,230 kg/m

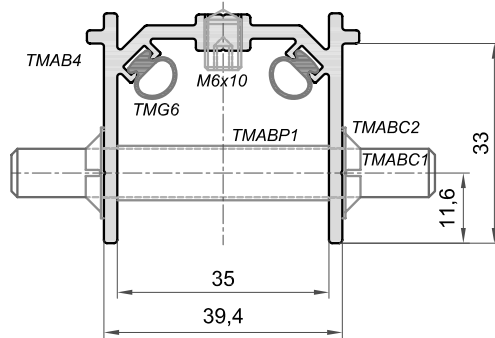


TMGK1
1,119 kg/m

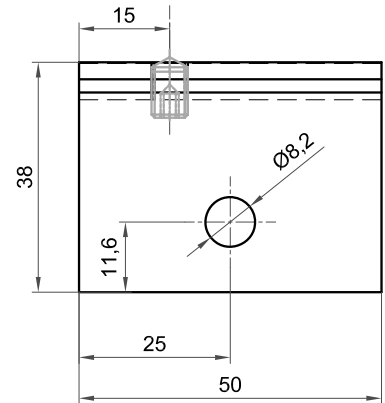
TMABA1

Sklop za vešanje panela sistem SLIDER

Sliding cleat for system SLIDER



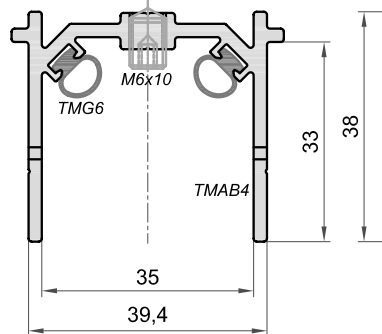
artikal : TMABA1



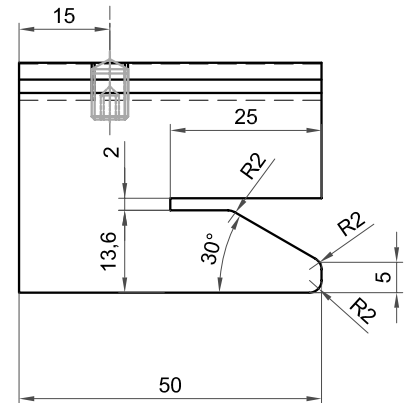
TMABA2

Sklop za vešanje panela sistem BOX

Sliding cleat for system BOX



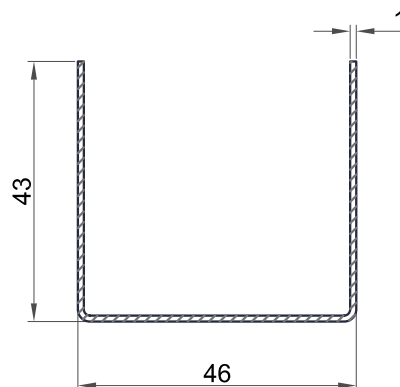
artikal : TMABA2



U4346

Dilataciona spojnica za TMAB1

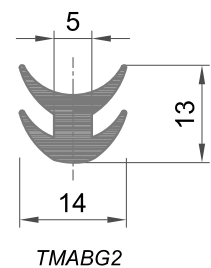
Sliding holder for TMAB1



Materijal : INOX

EPDM zaptivka
EPDM gasket

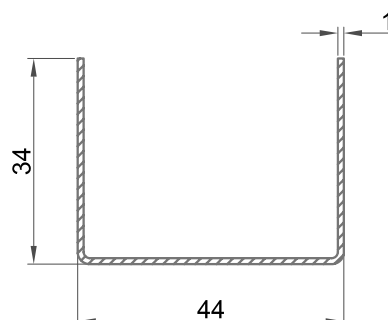
TMABG2



U4344

Dilataciona spojnica za K4050 i U5050

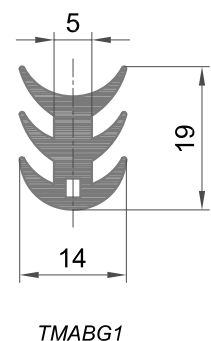
Sliding holder for K4050 and U5050



Materijal : INOX

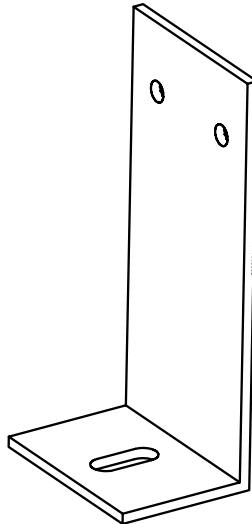
EPDM zaptivka
EPDM gasket

TMABG1



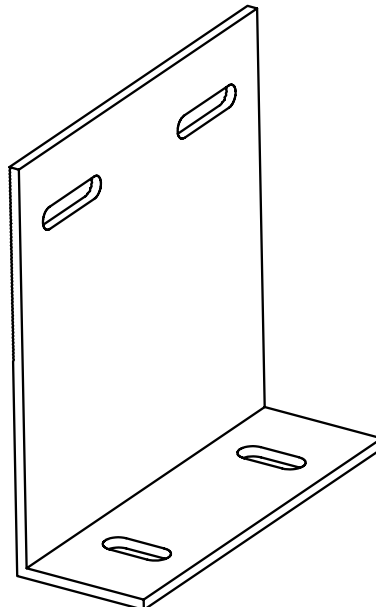
TMGKA1
Fiksni anker
Fixed anchor

Materijal : aluminijum



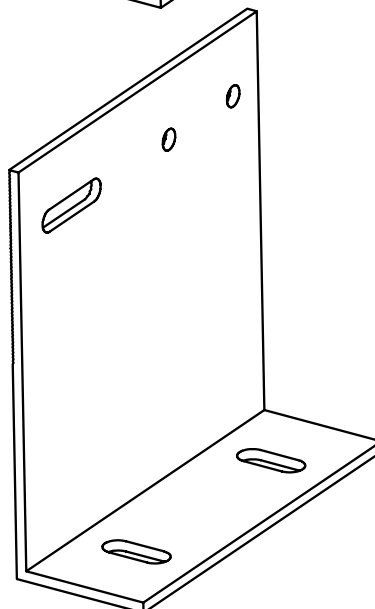
TMGKA2
Dilatacioni anker
Expansion anchor

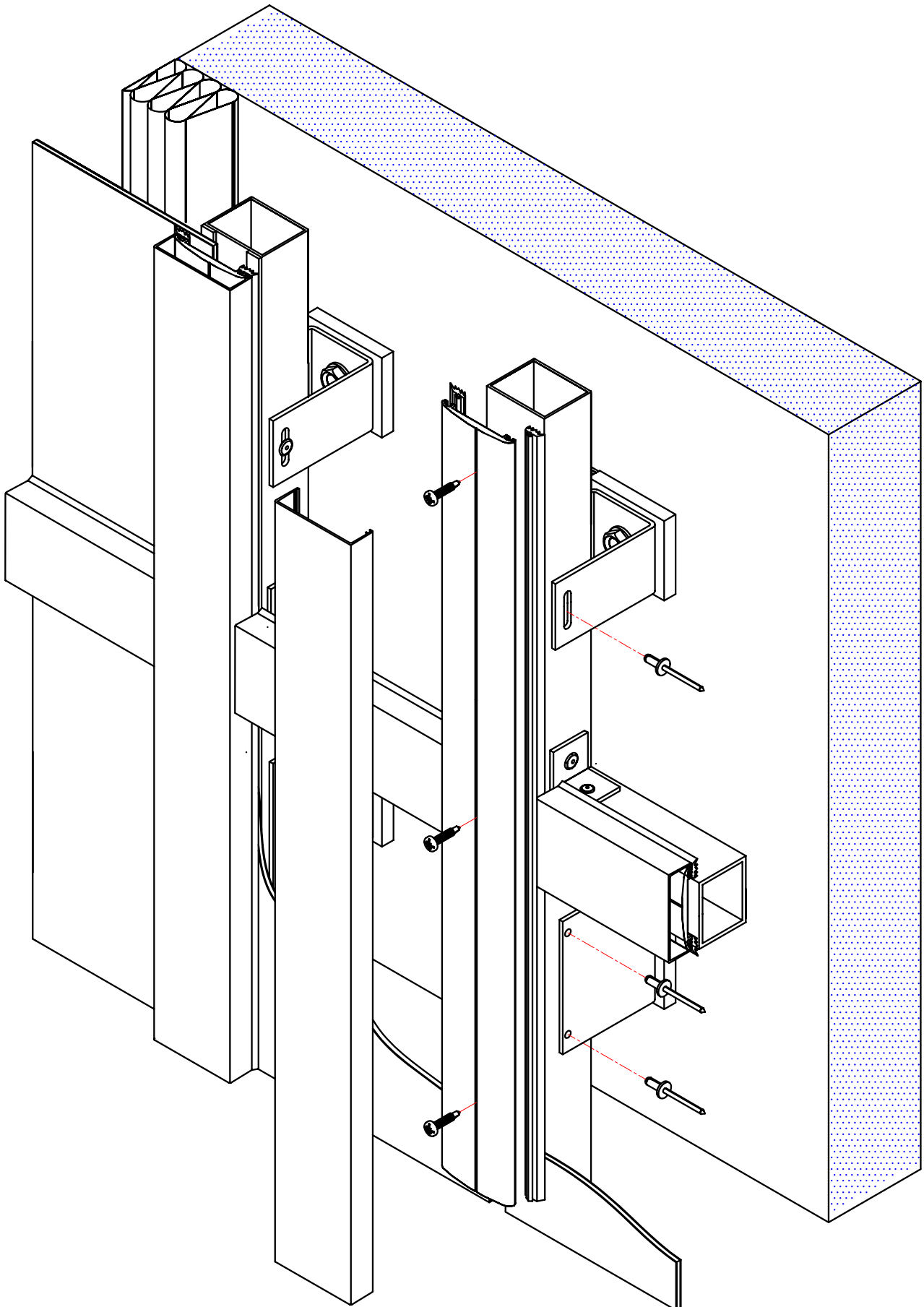
Materijal : aluminijum

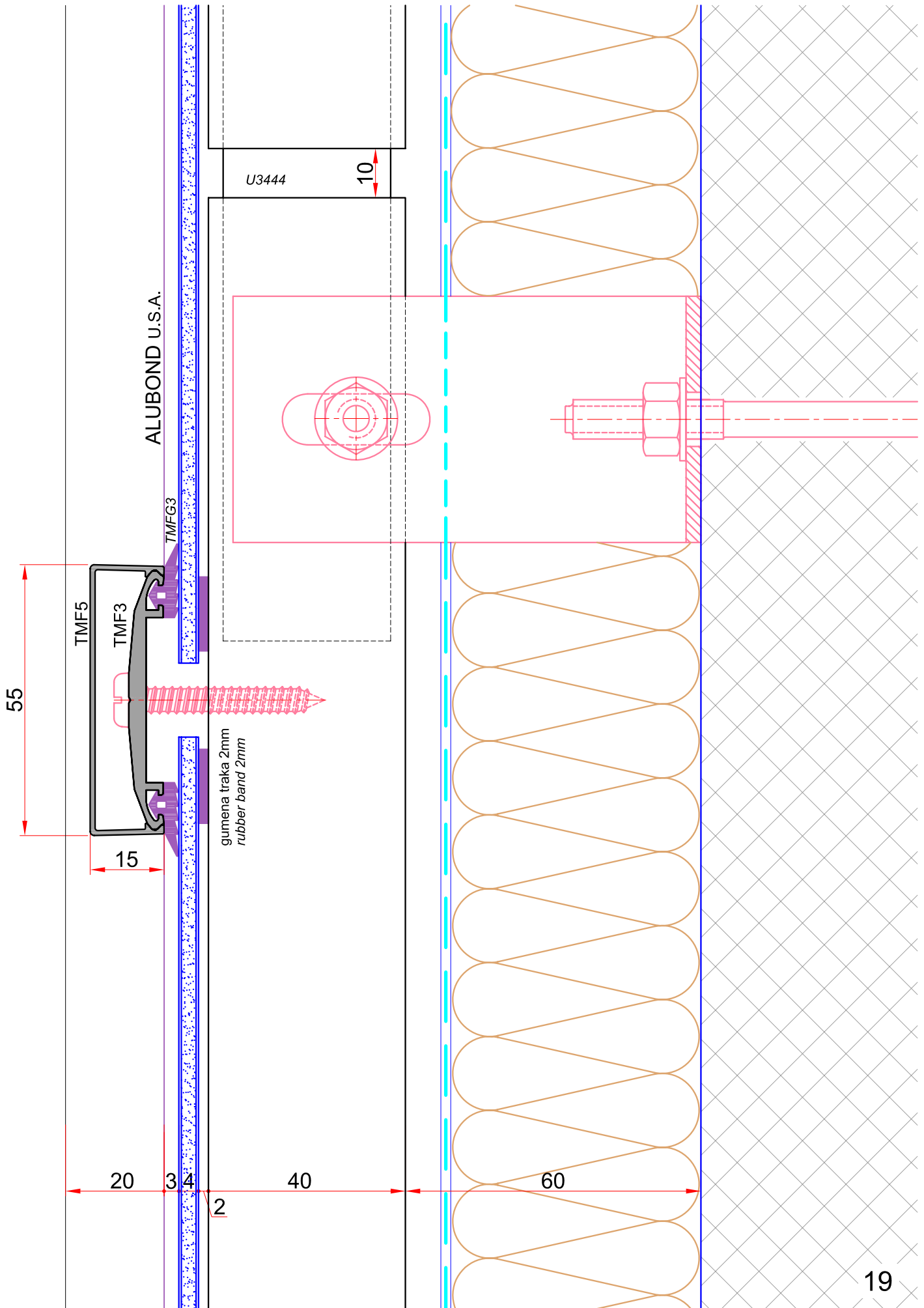


TMGKA3
Dilatacioni anker
Expansion anchor

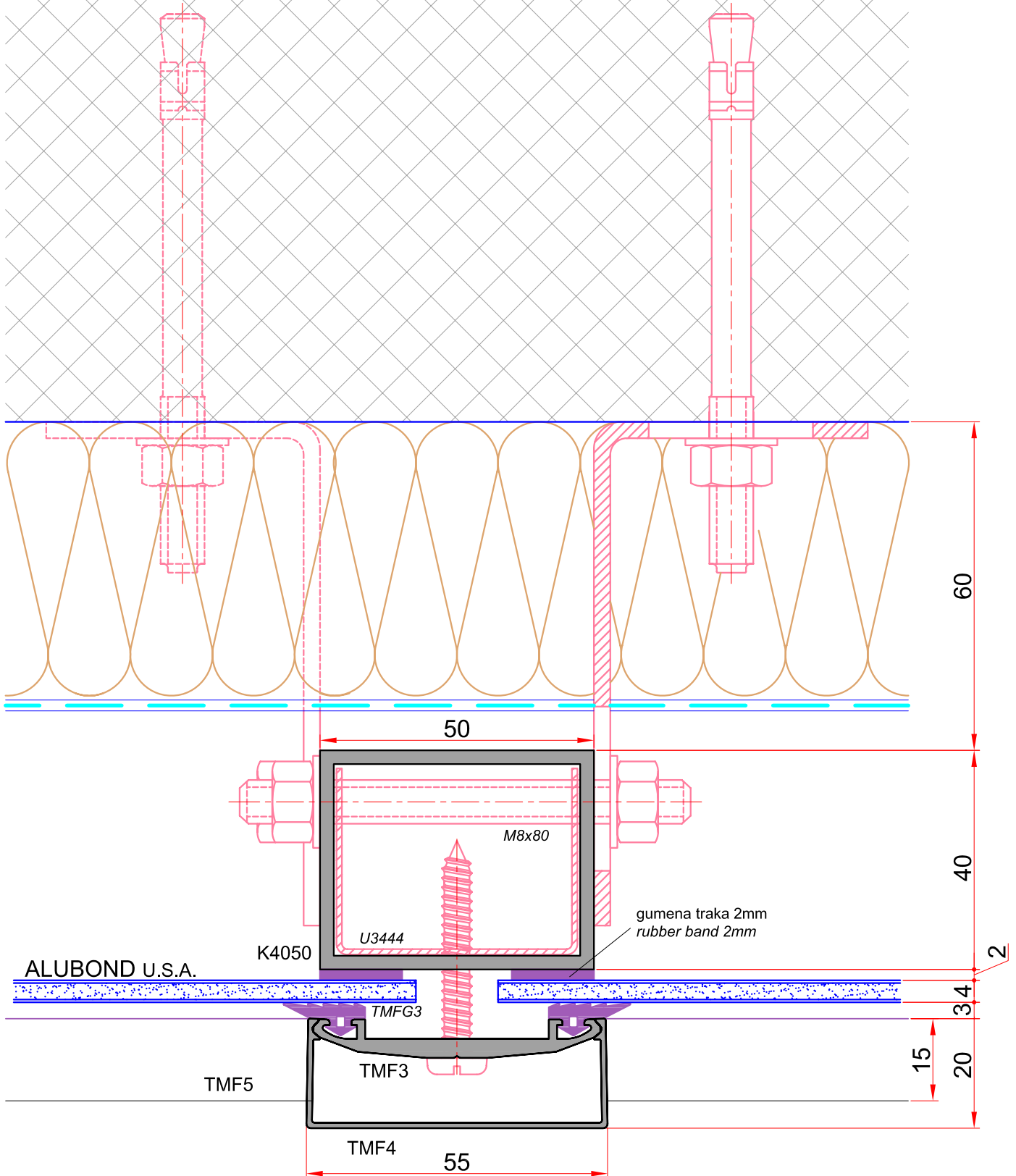
Materijal : aluminijum



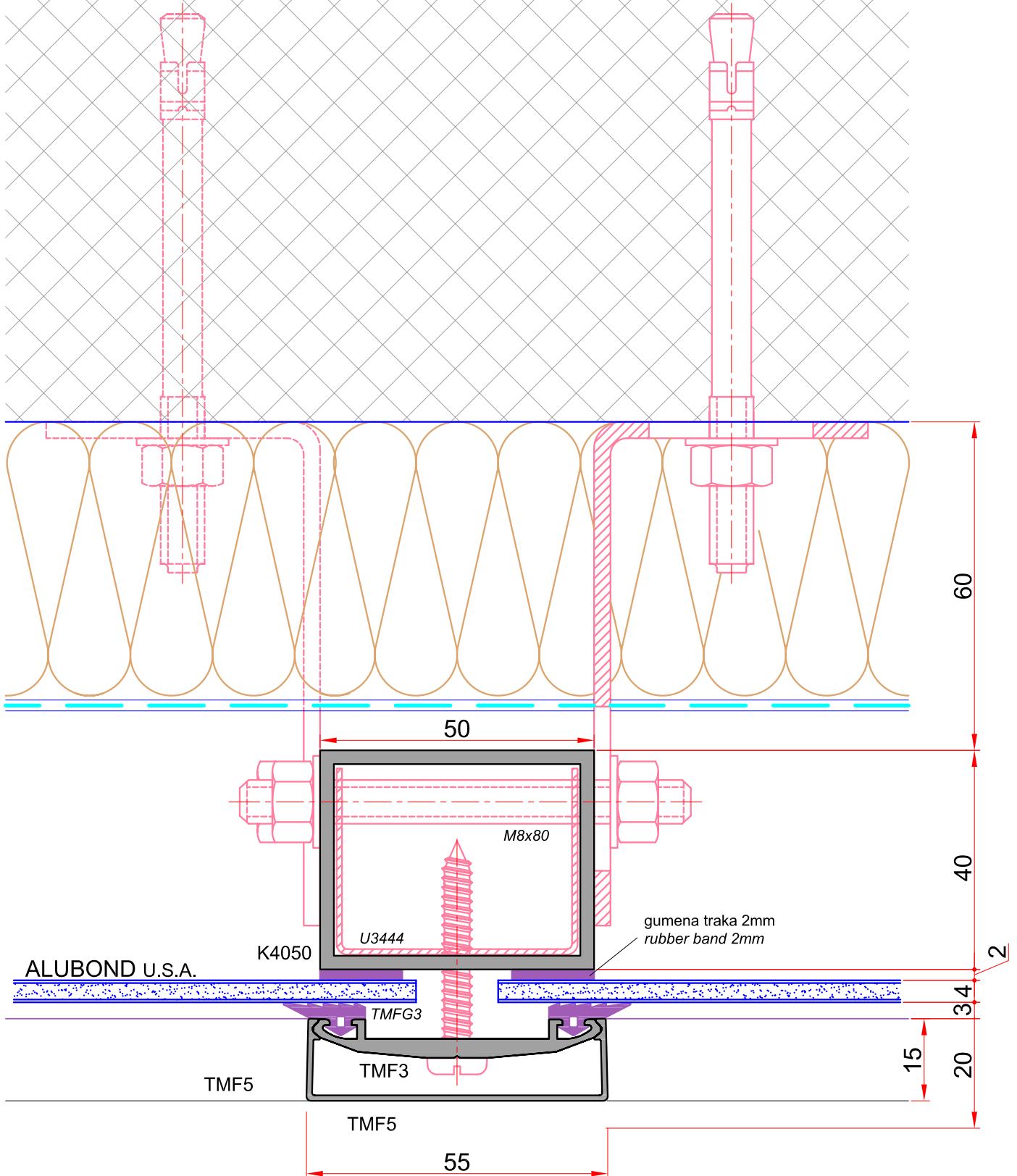




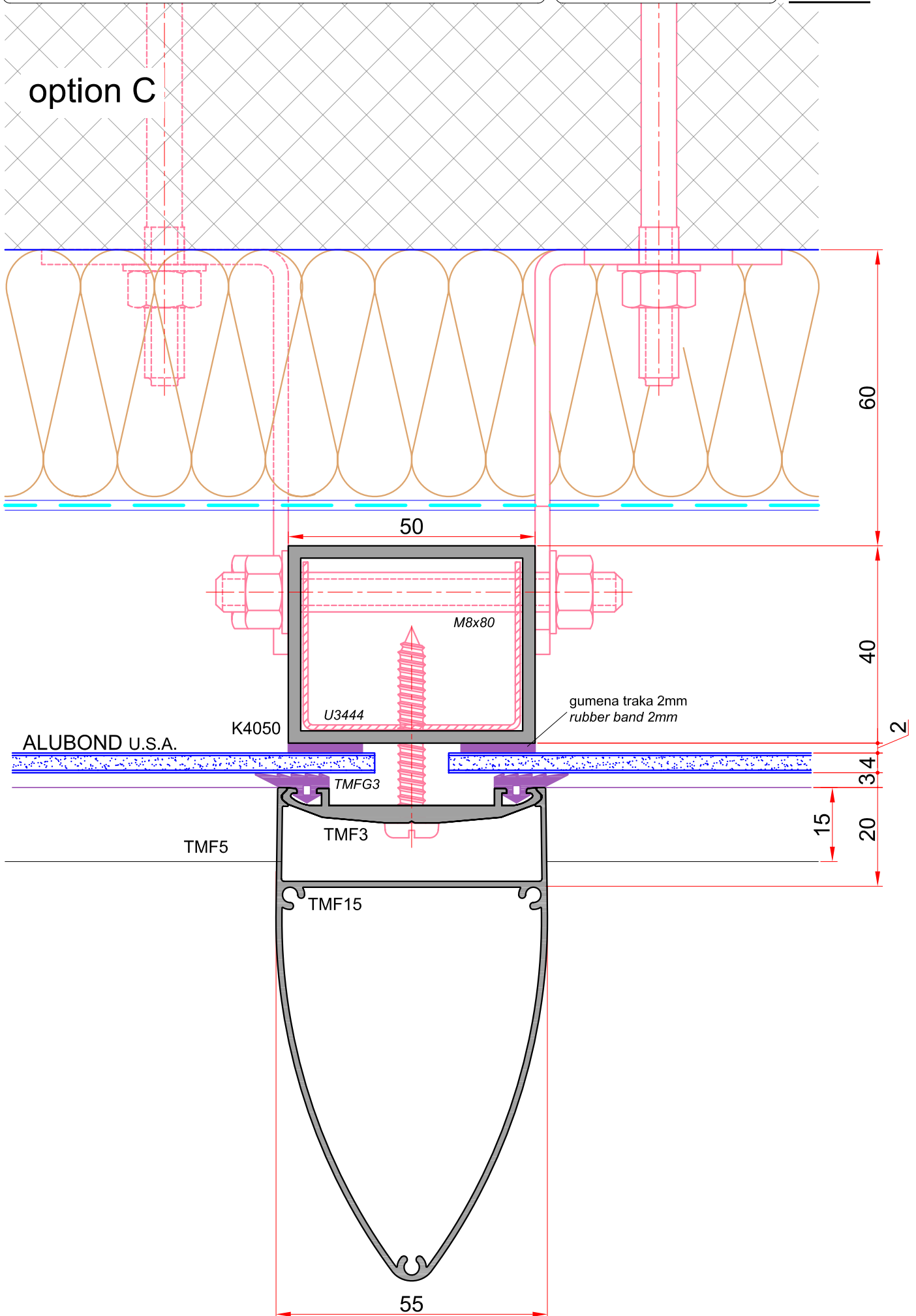
option A

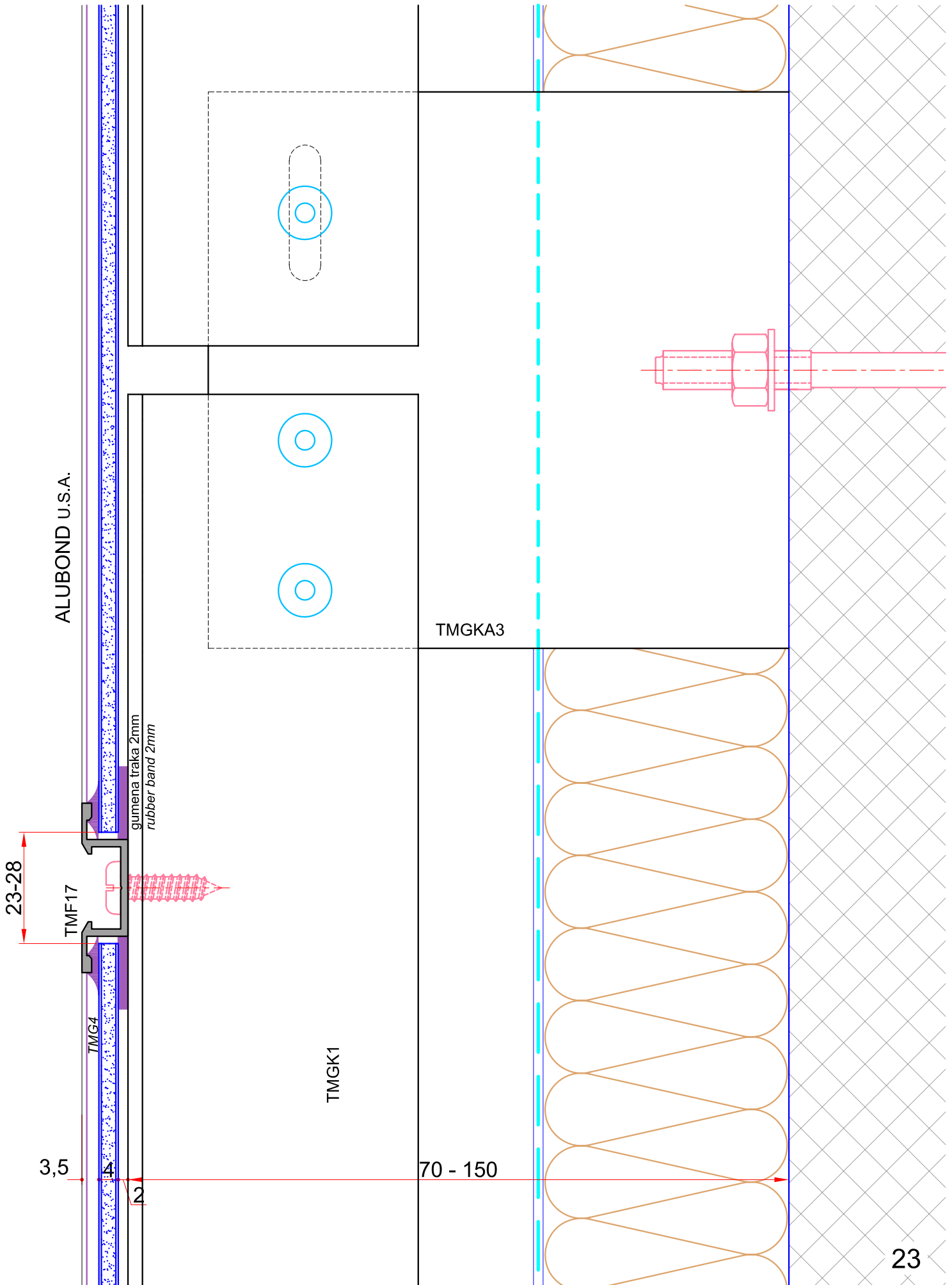


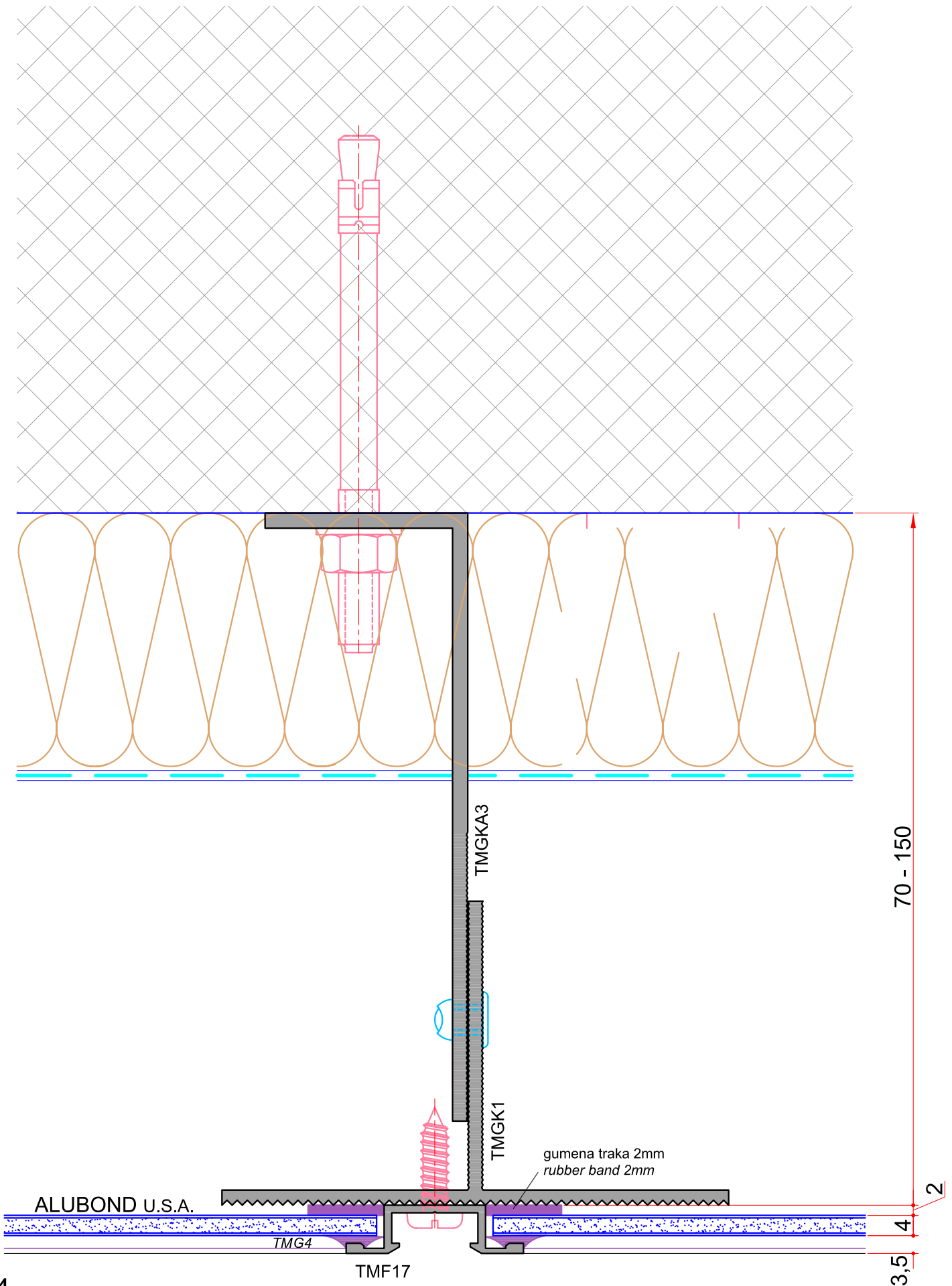
option B

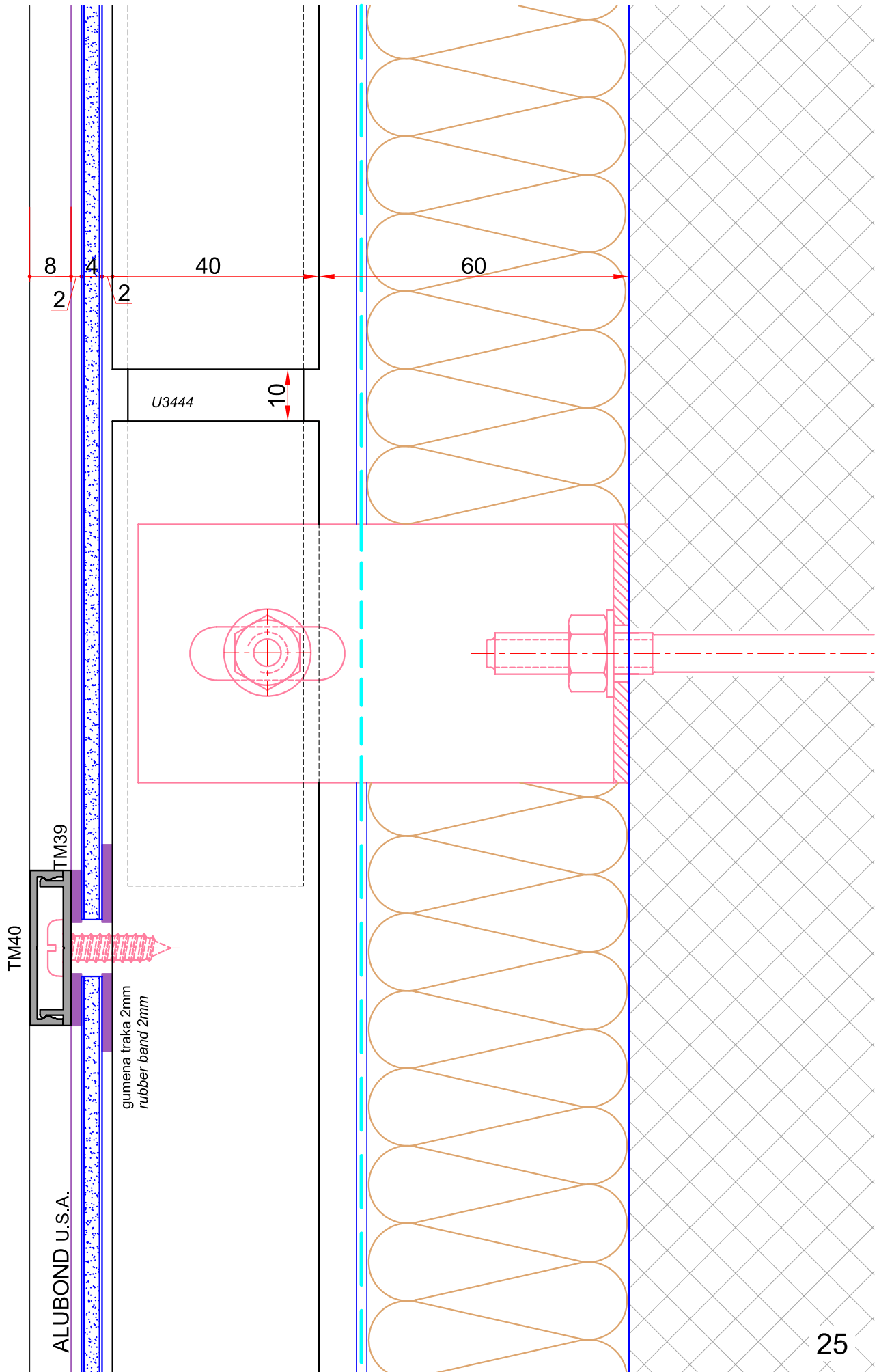


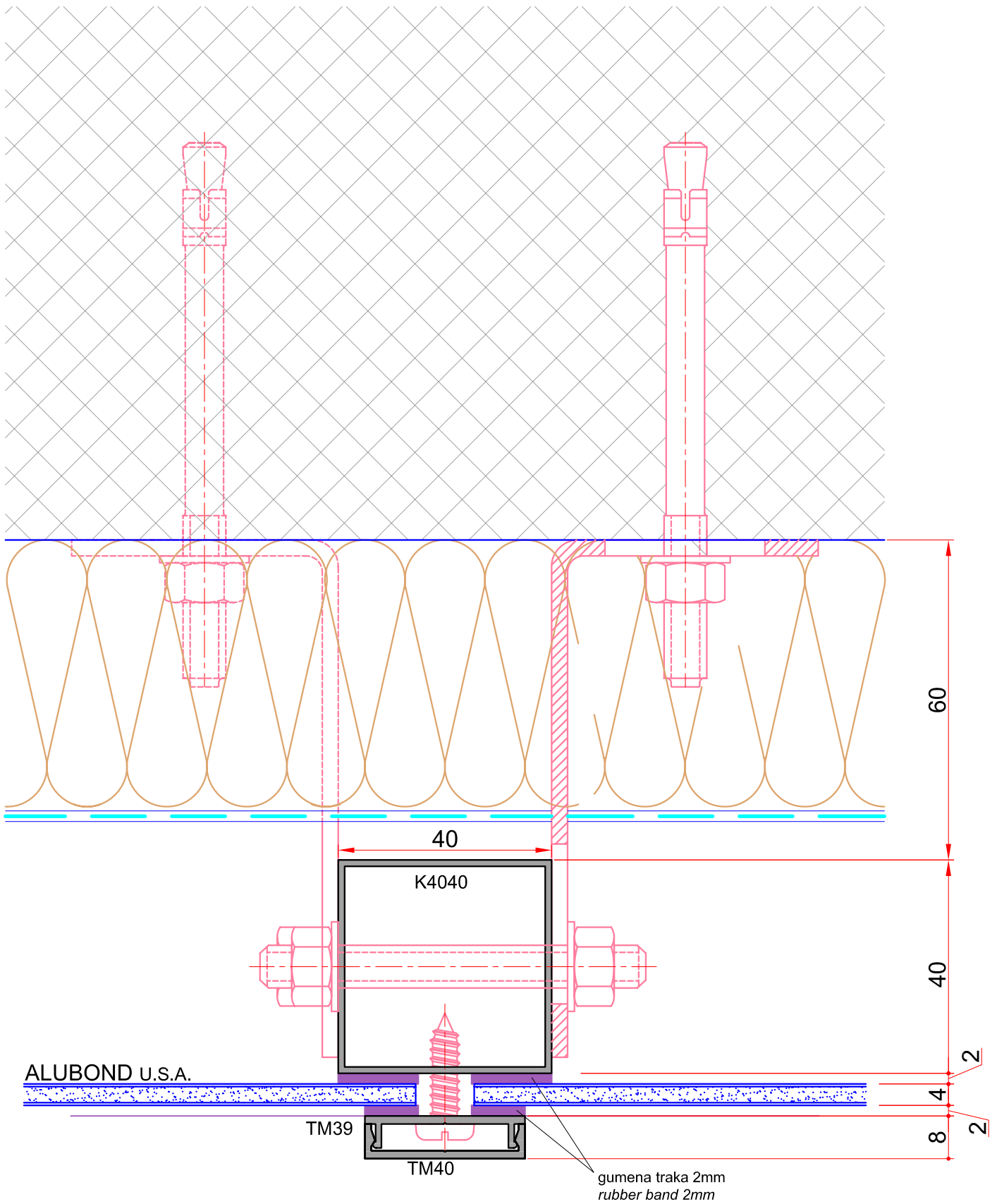
option C

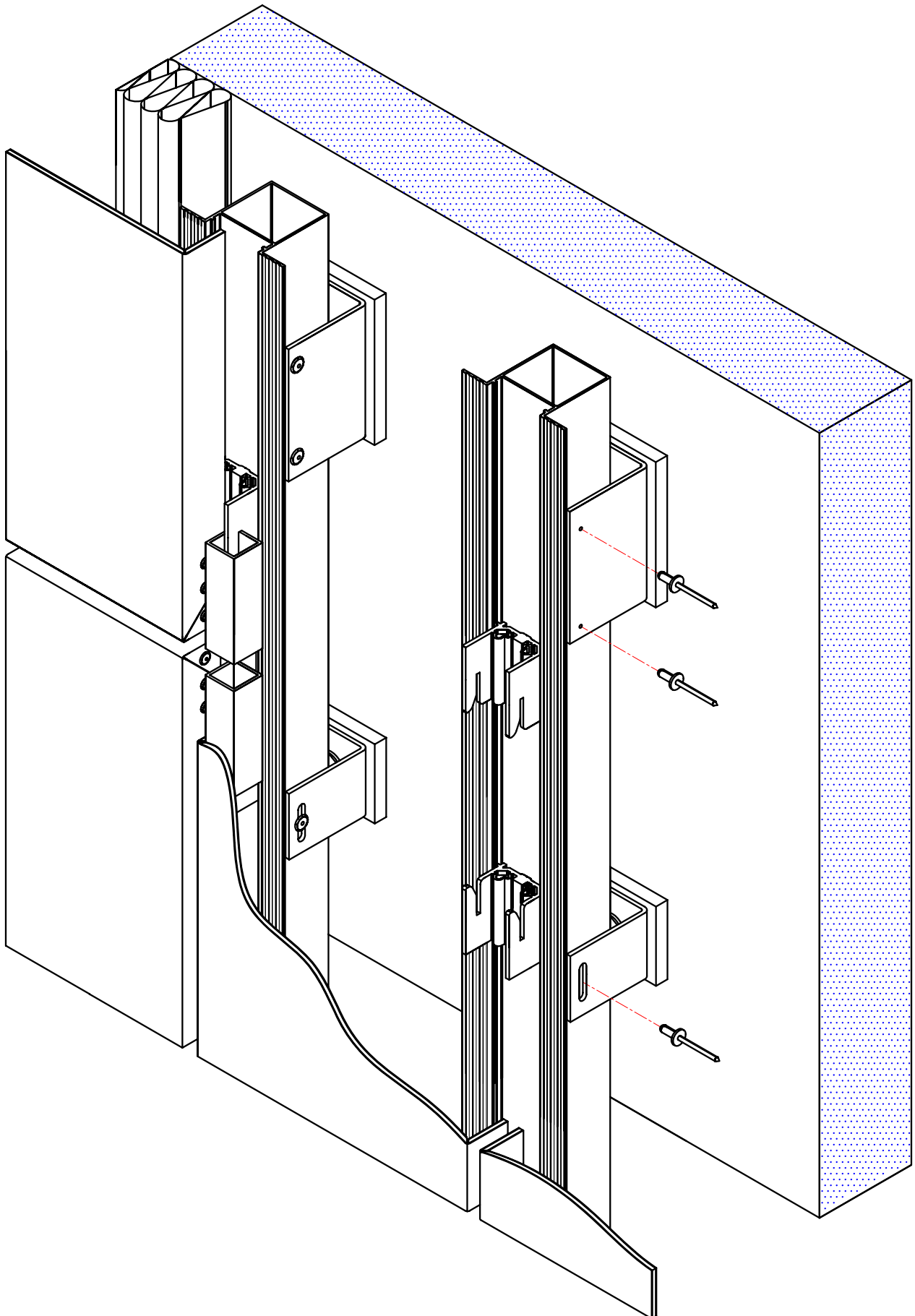


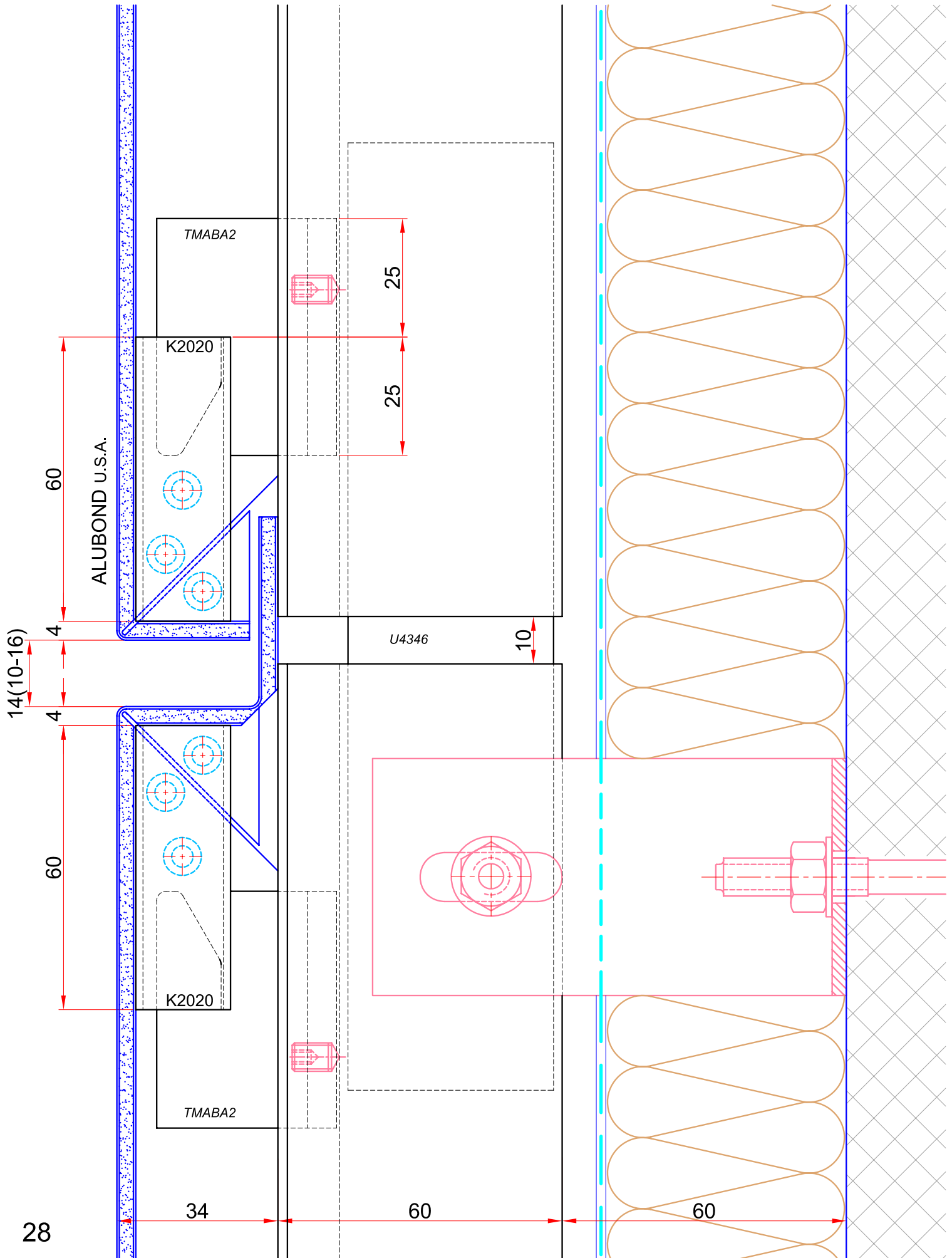


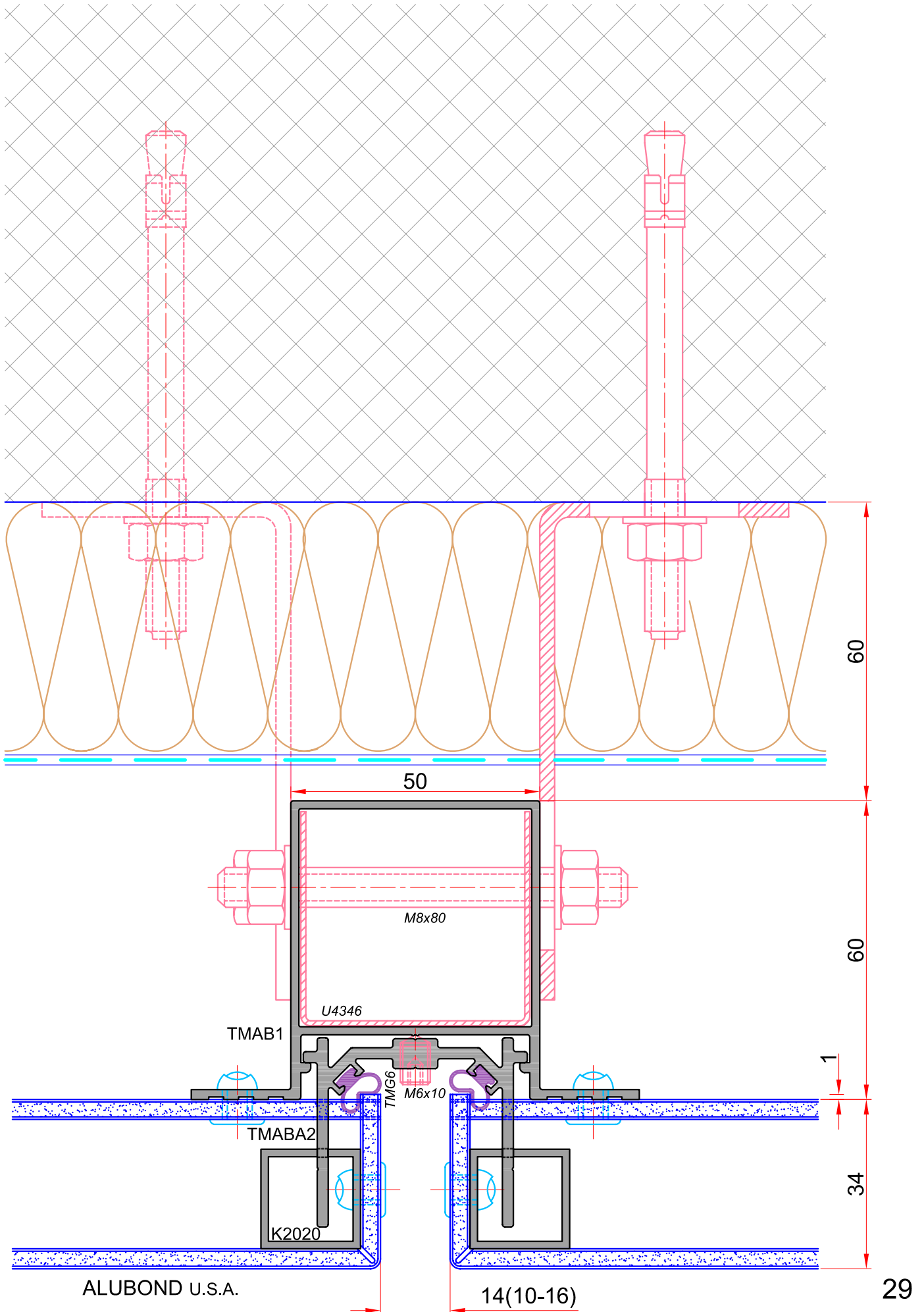


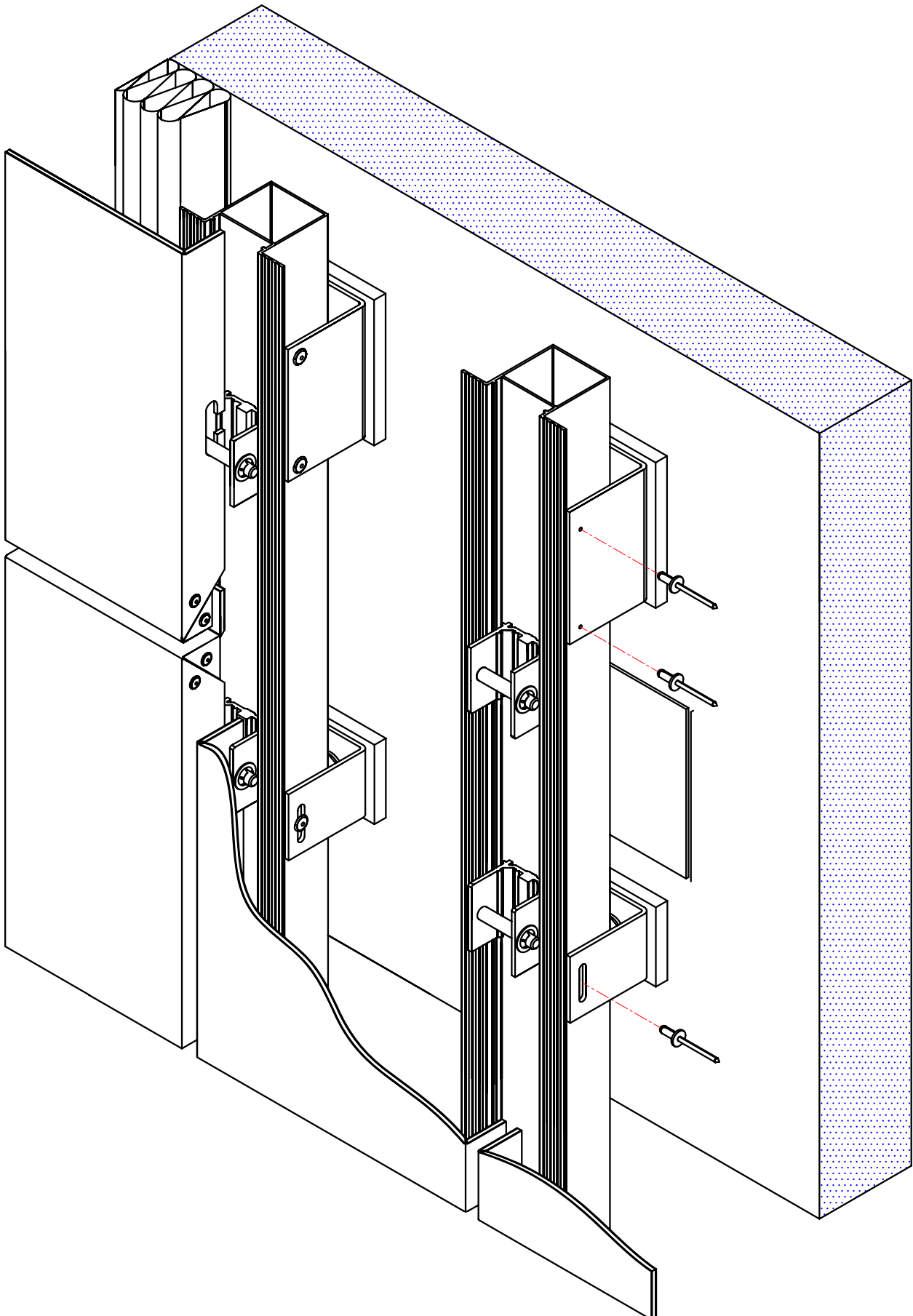


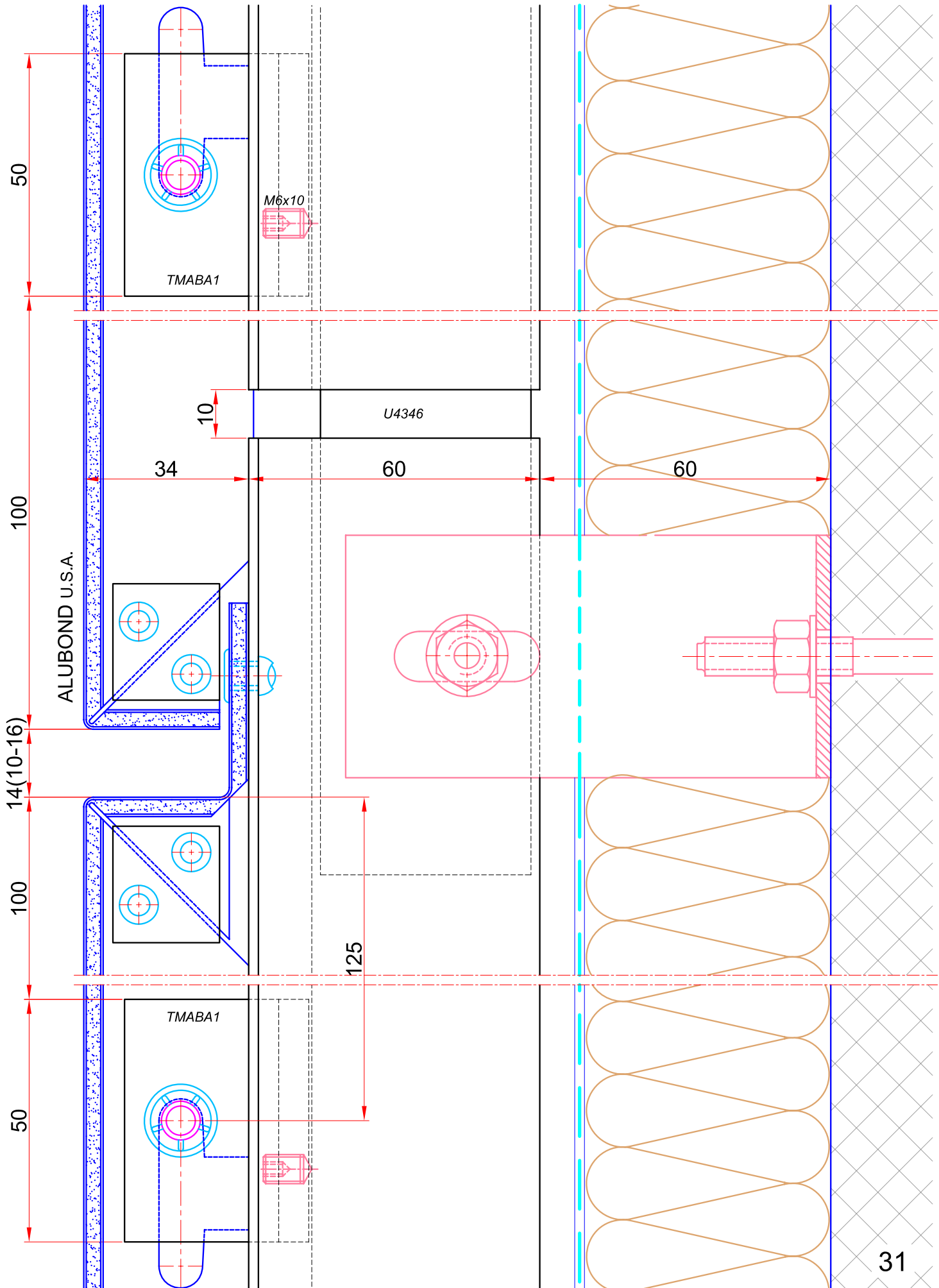


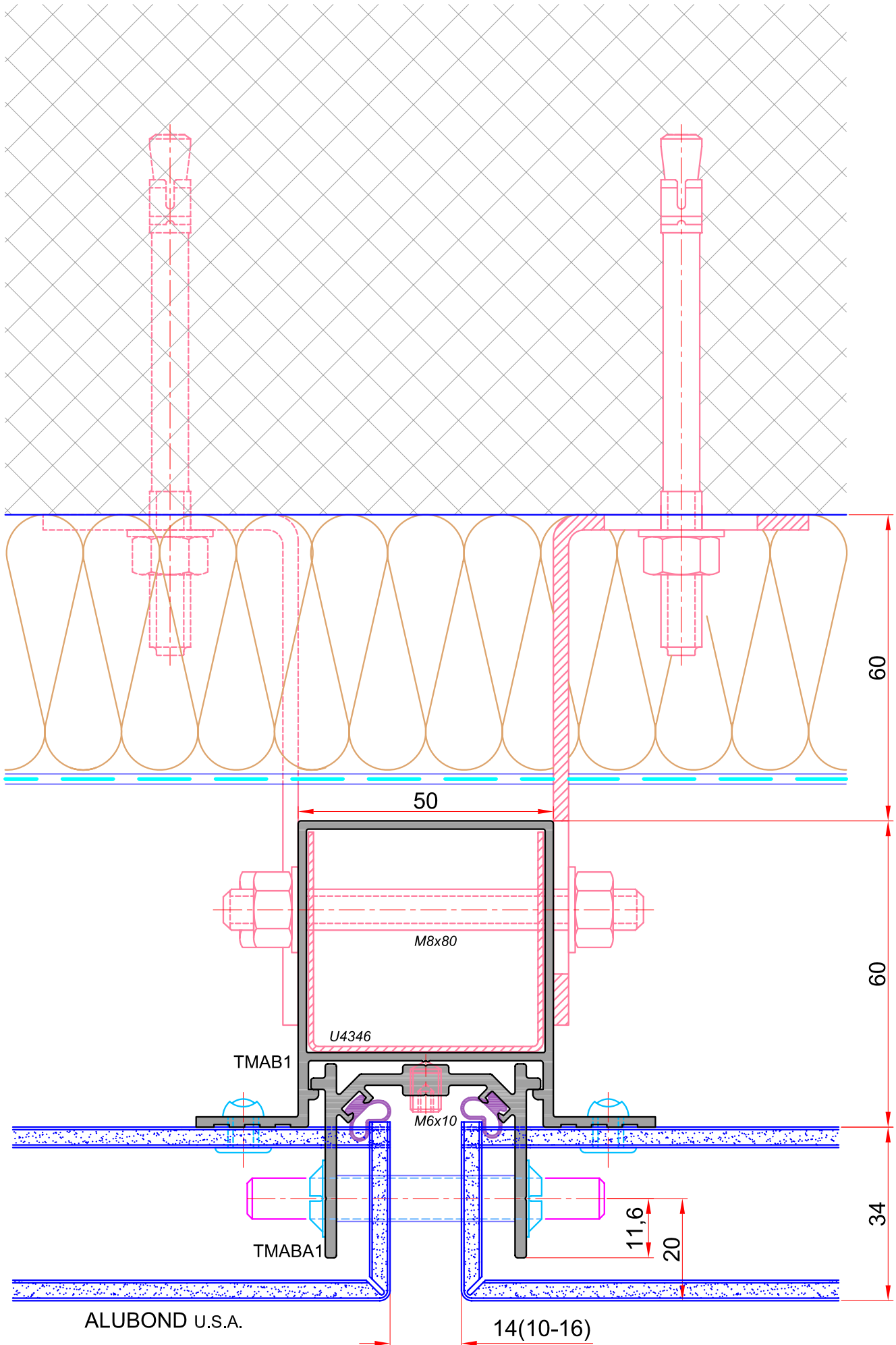


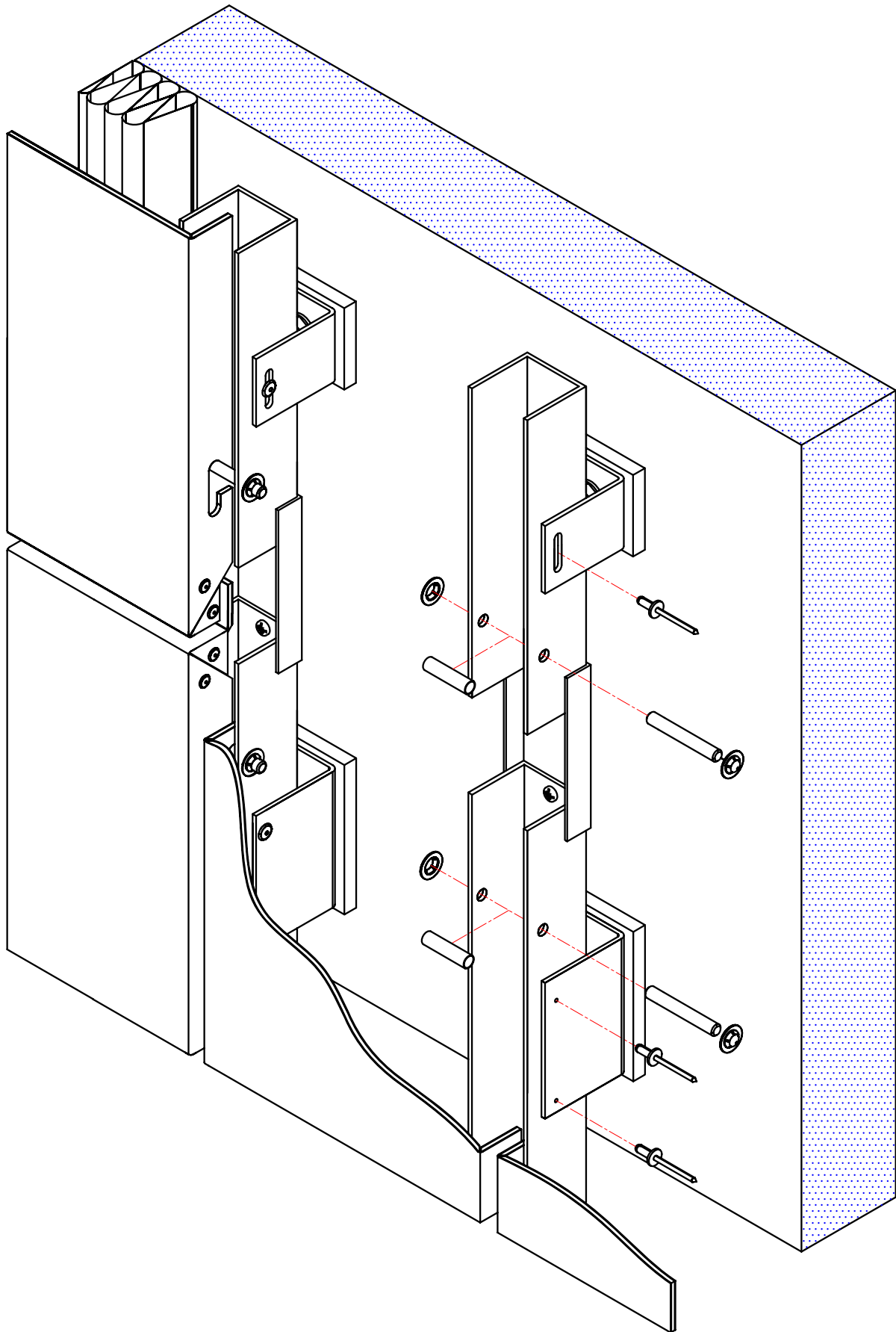


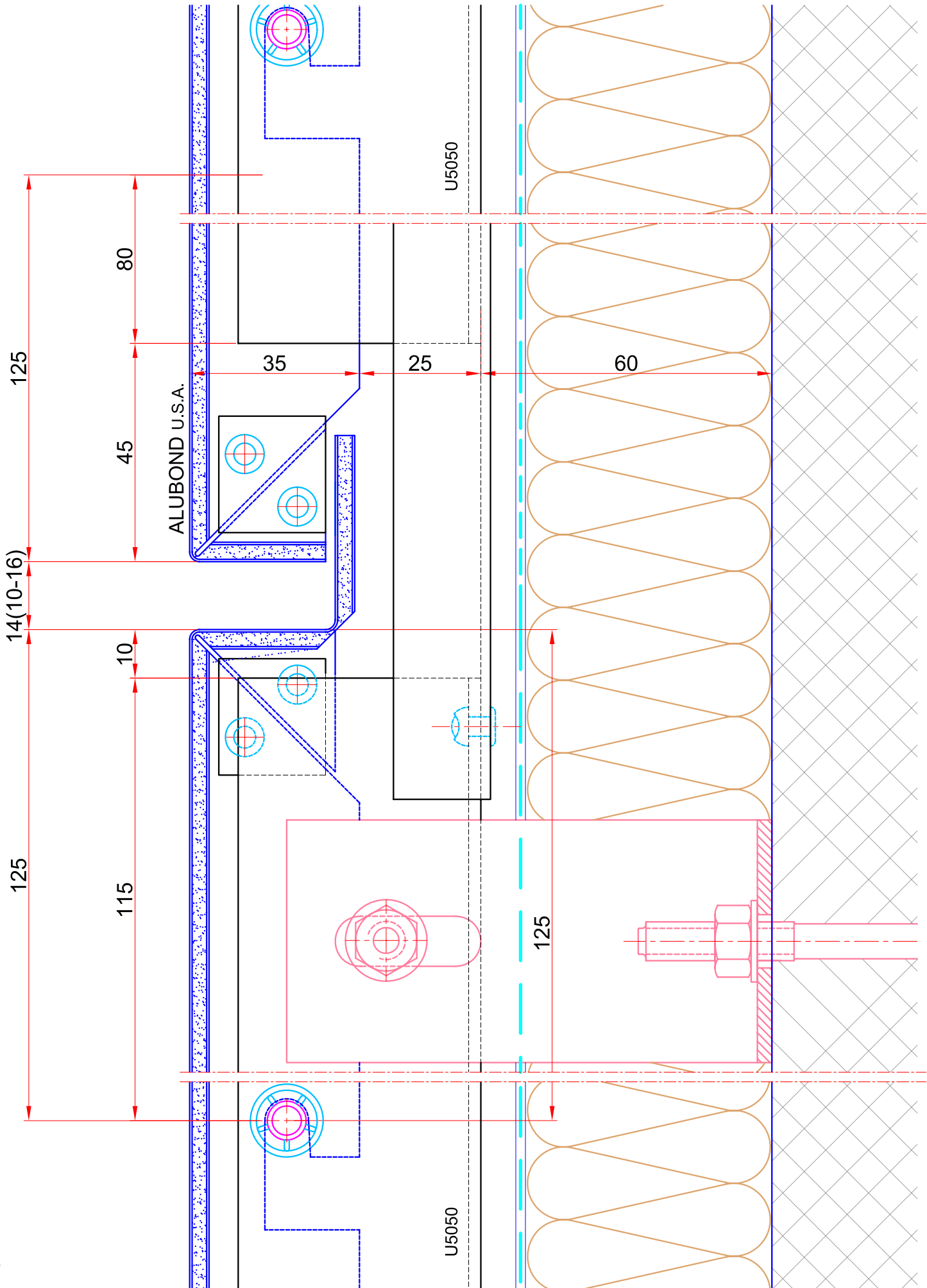


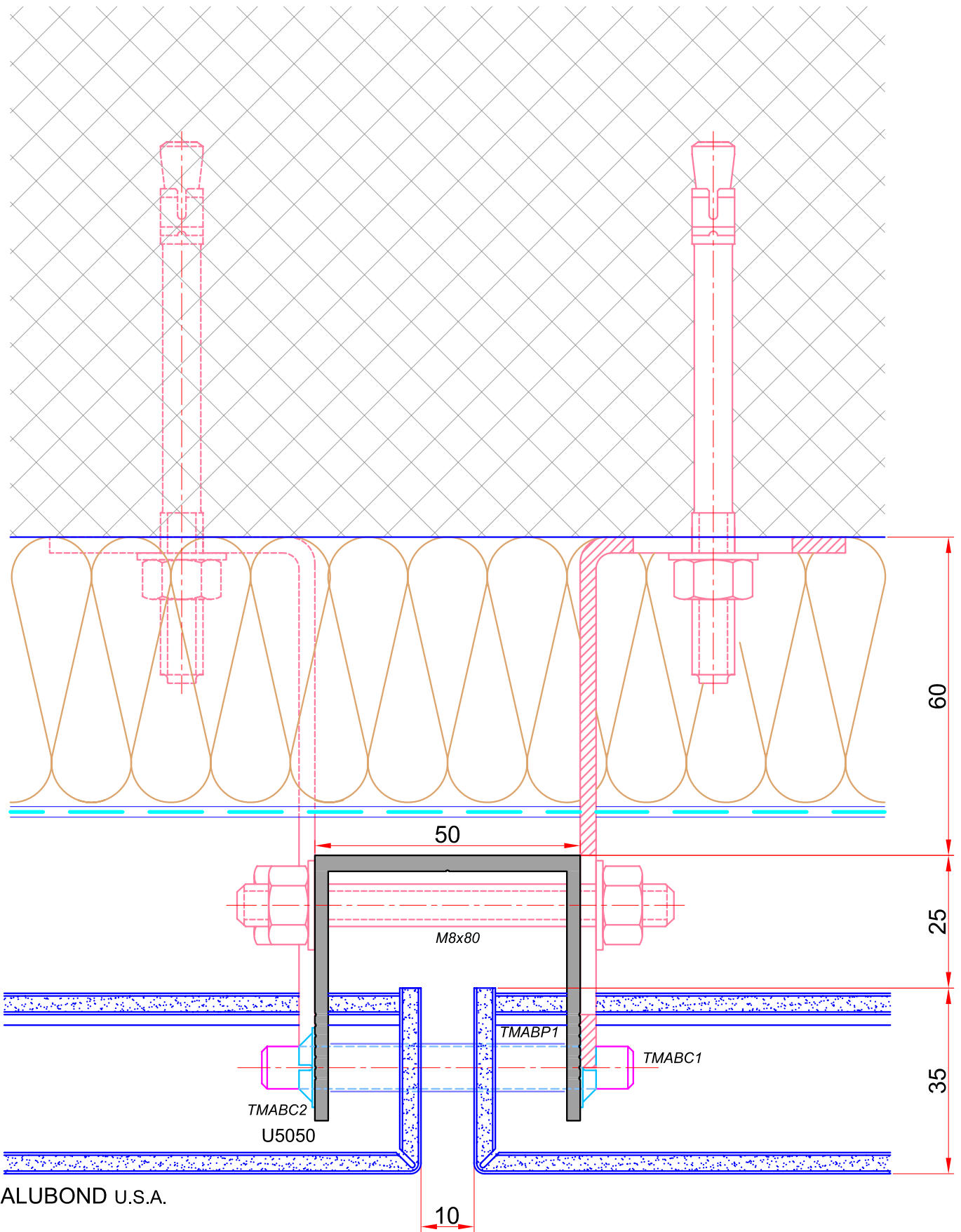




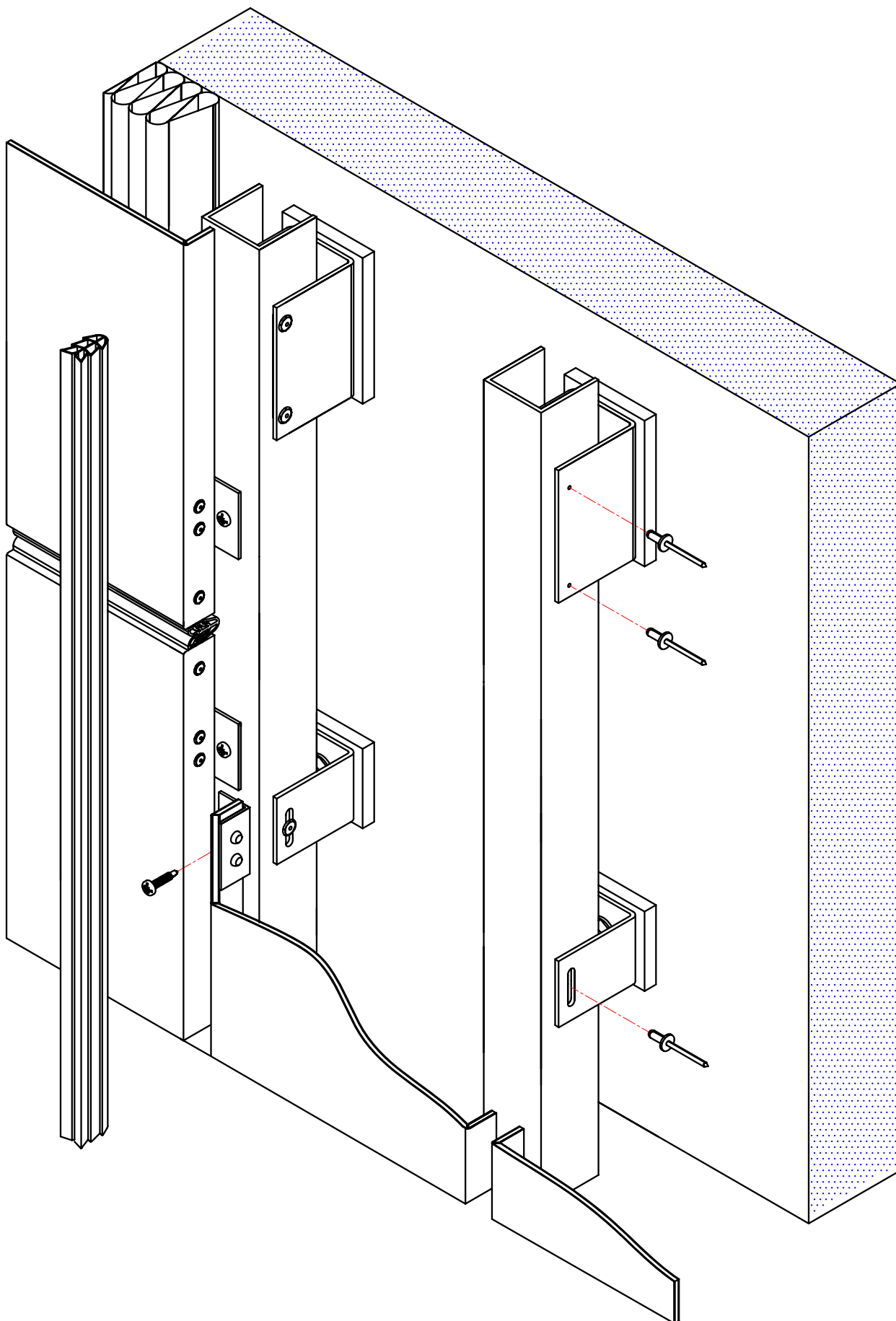


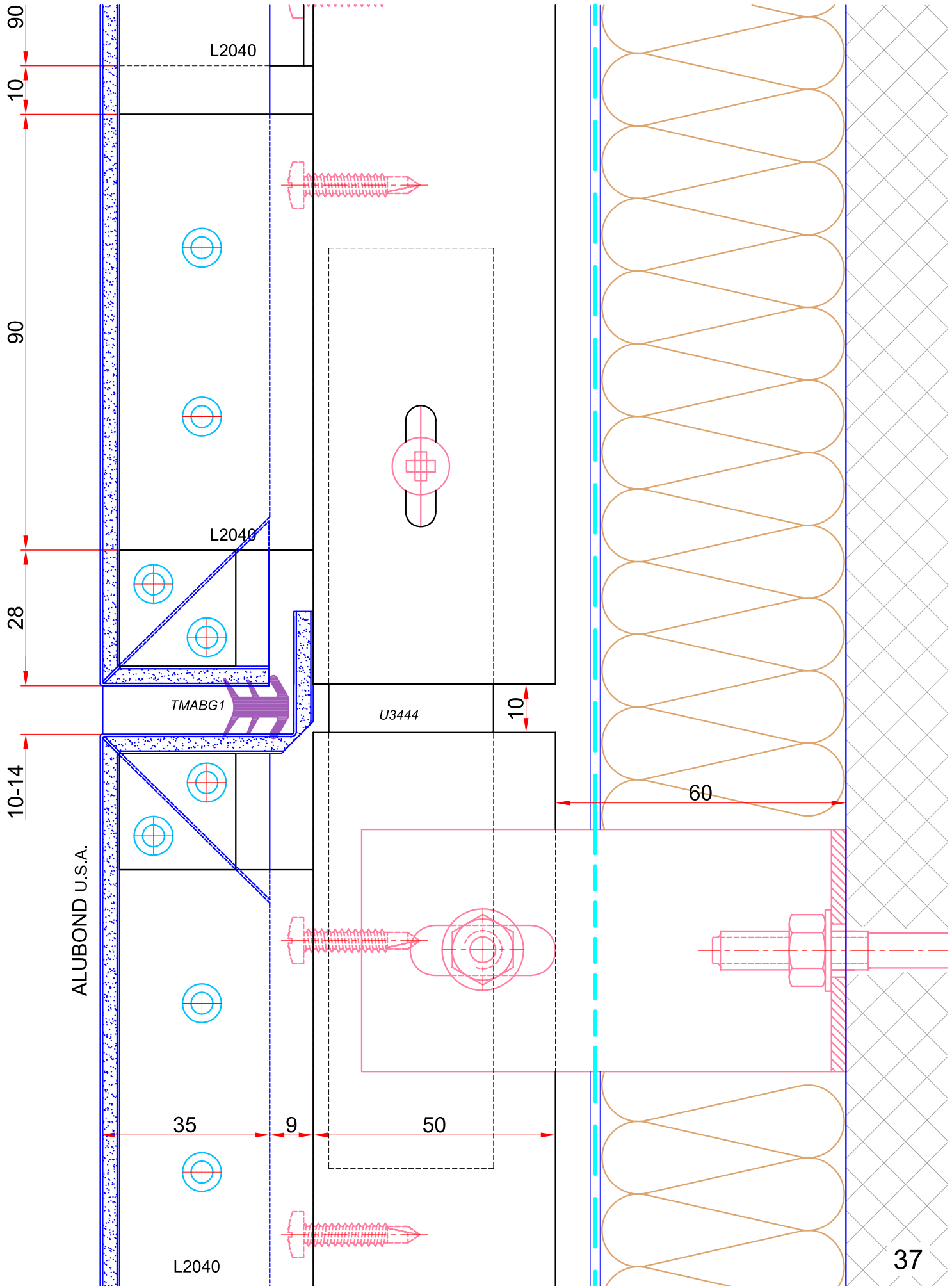


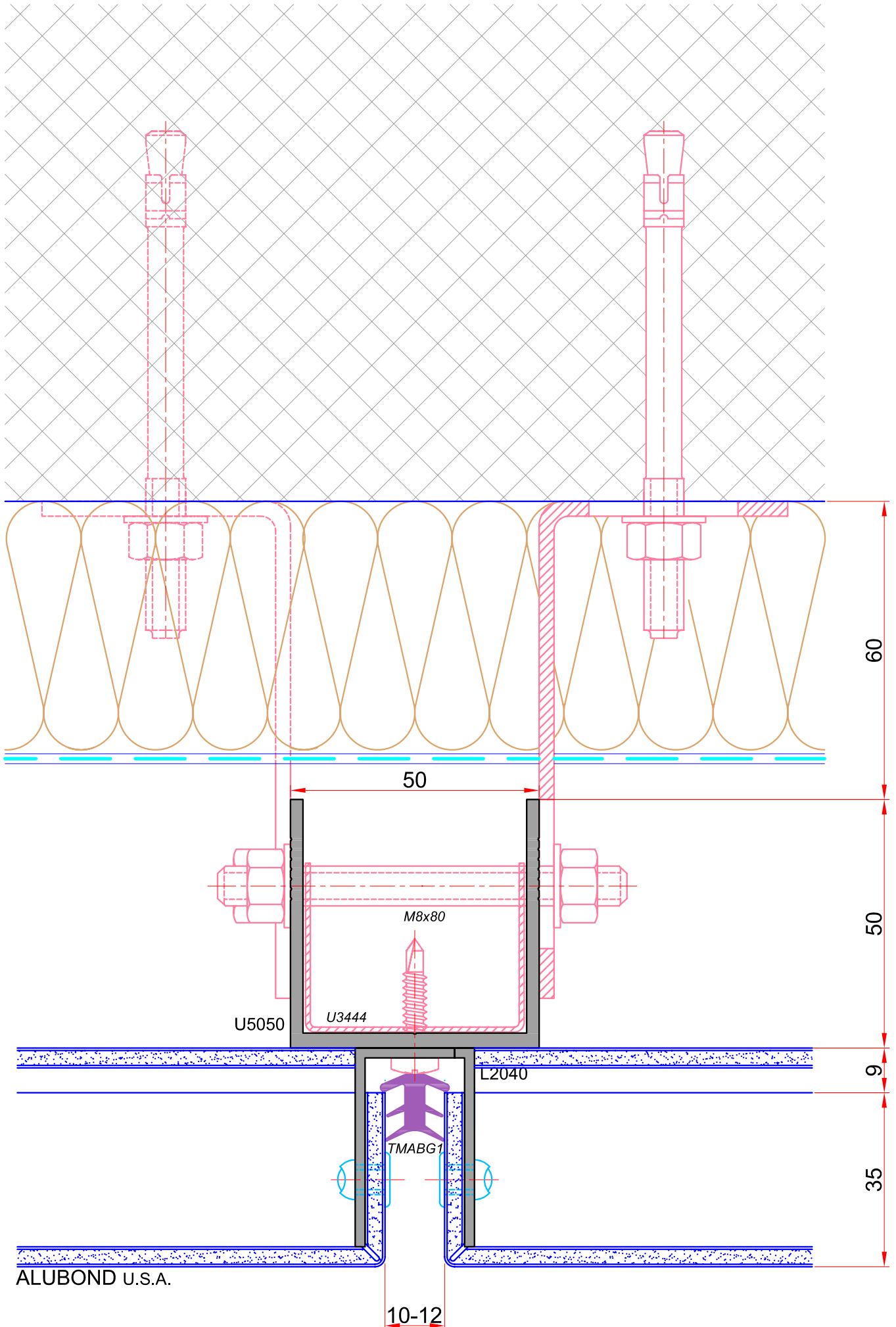


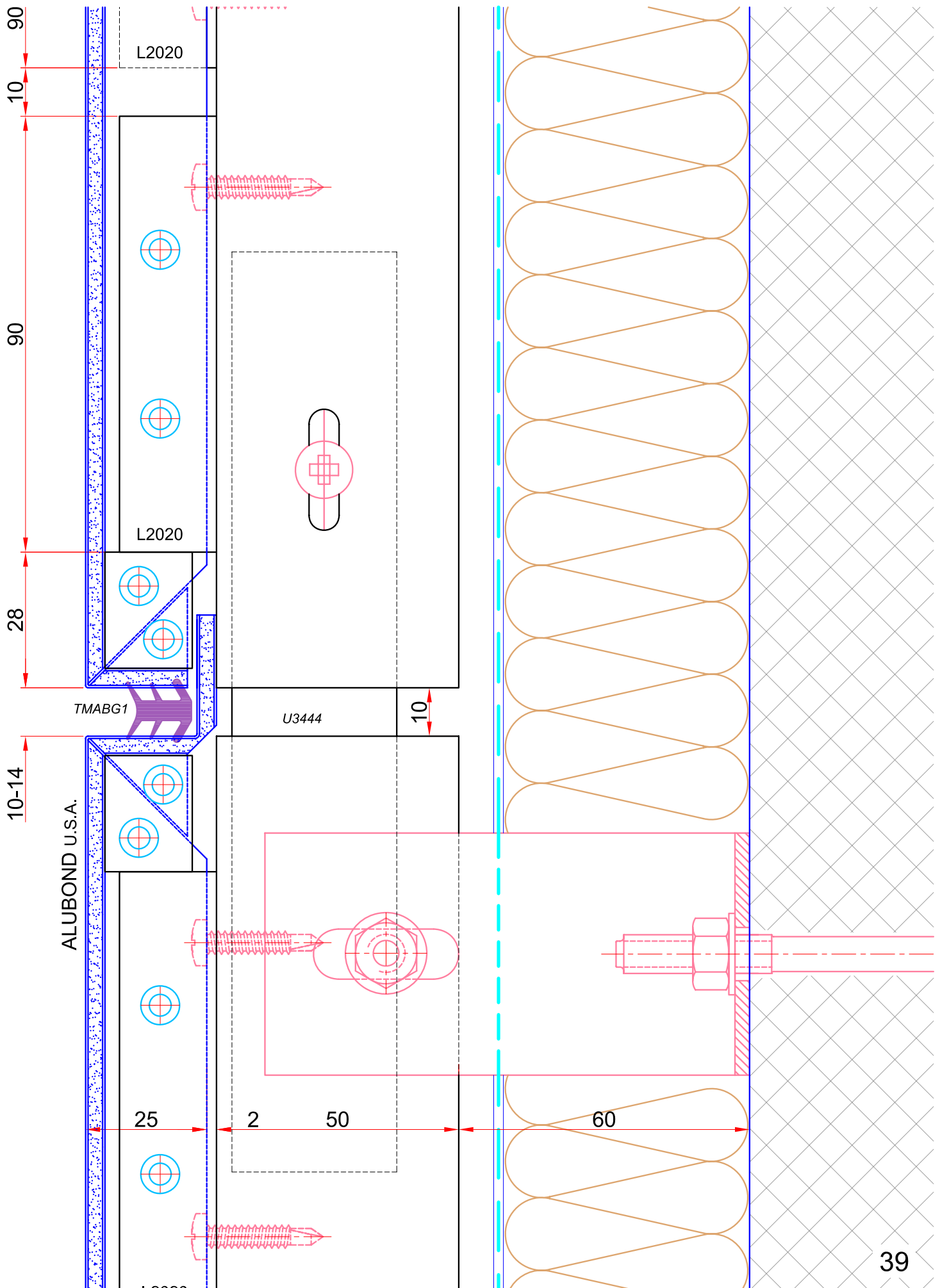


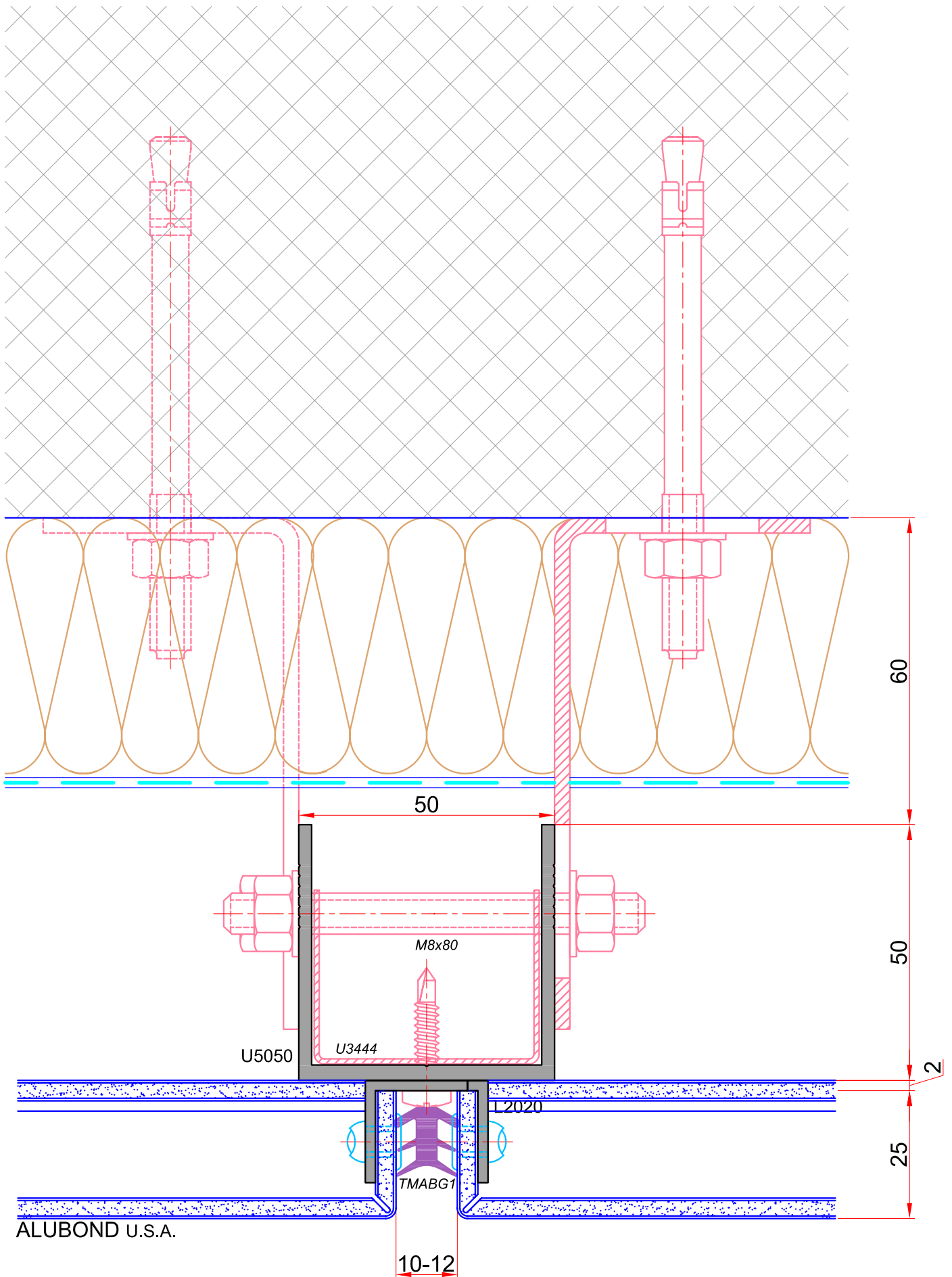
ALUBOND U.S.A.

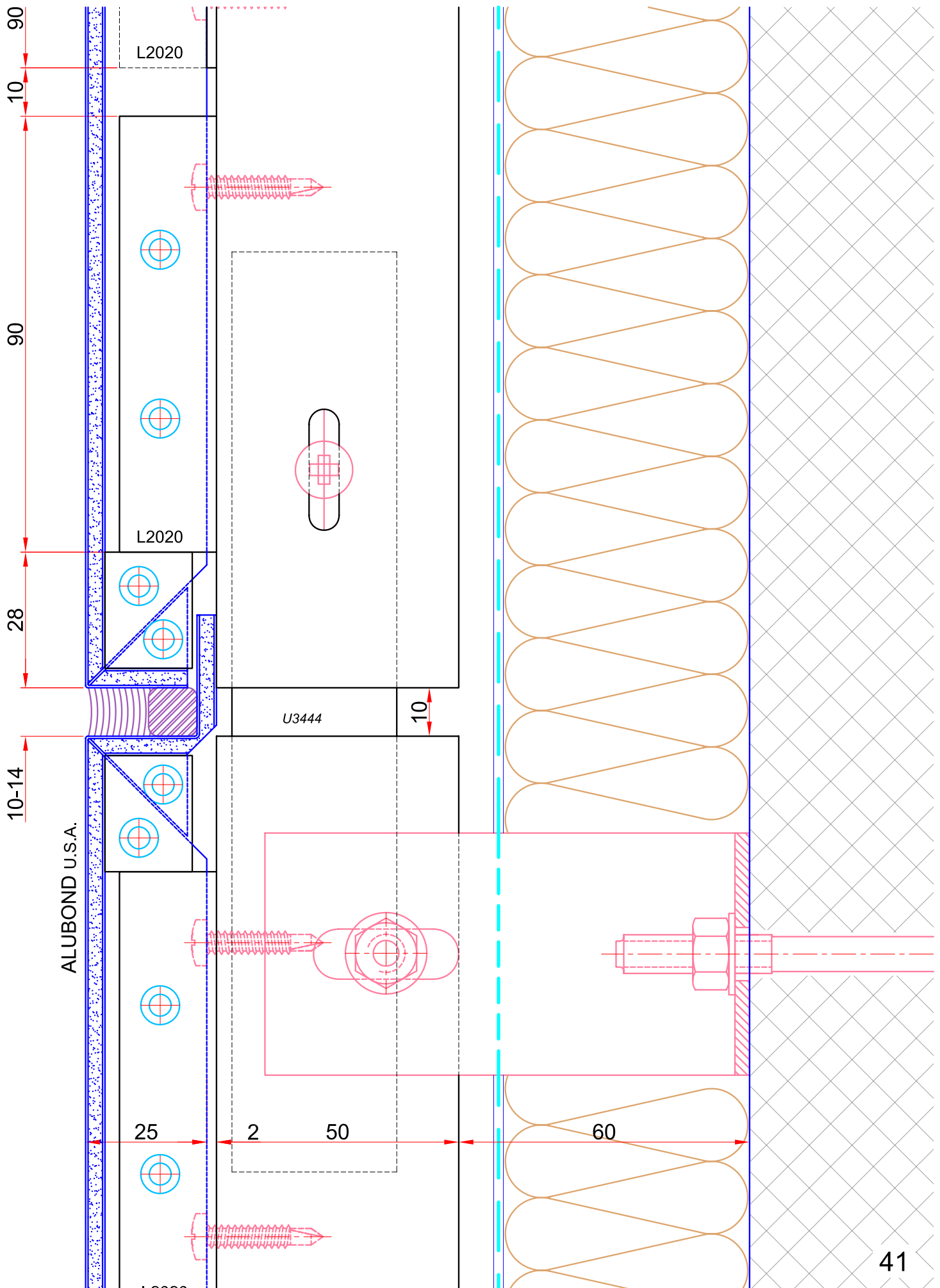


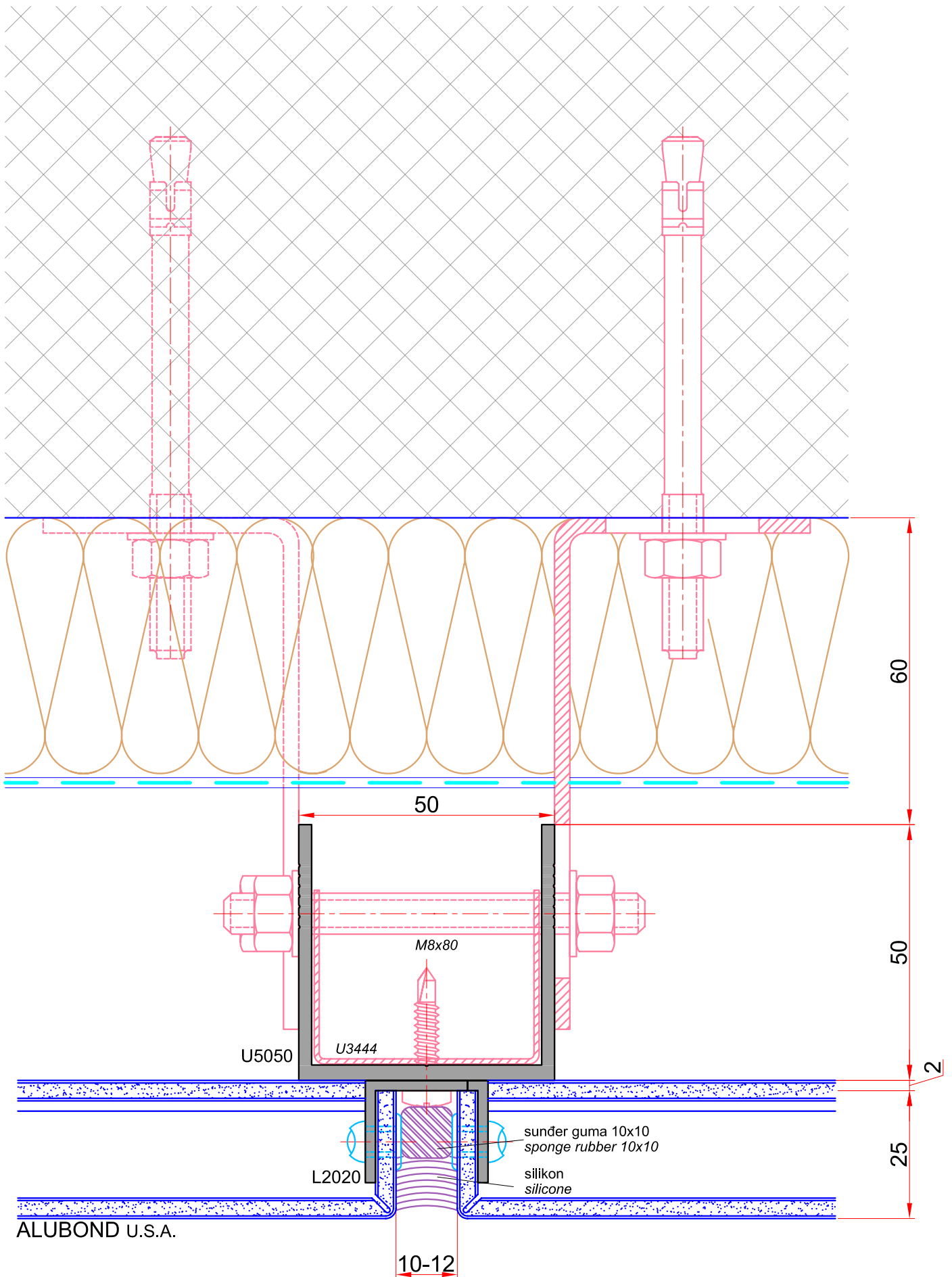


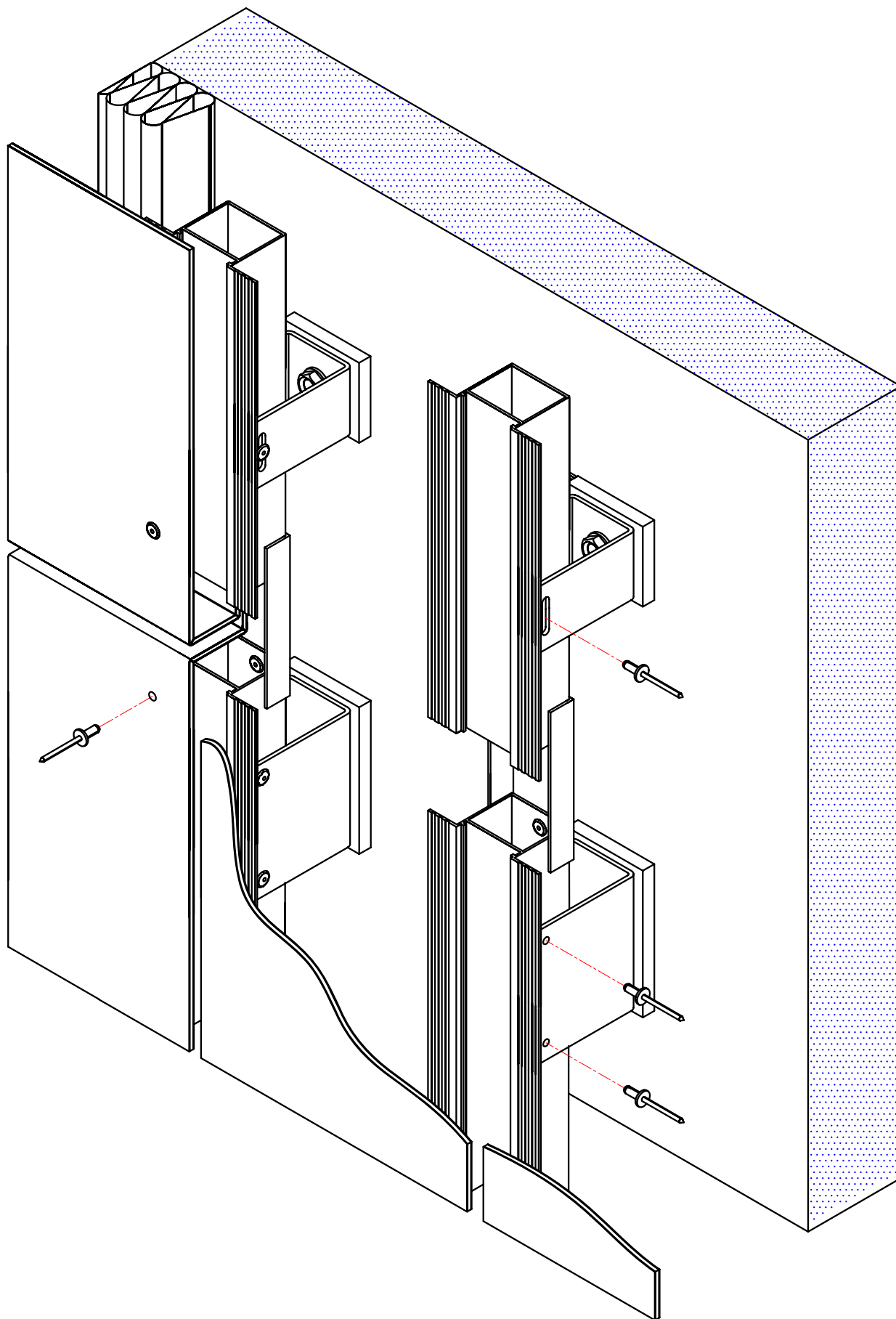


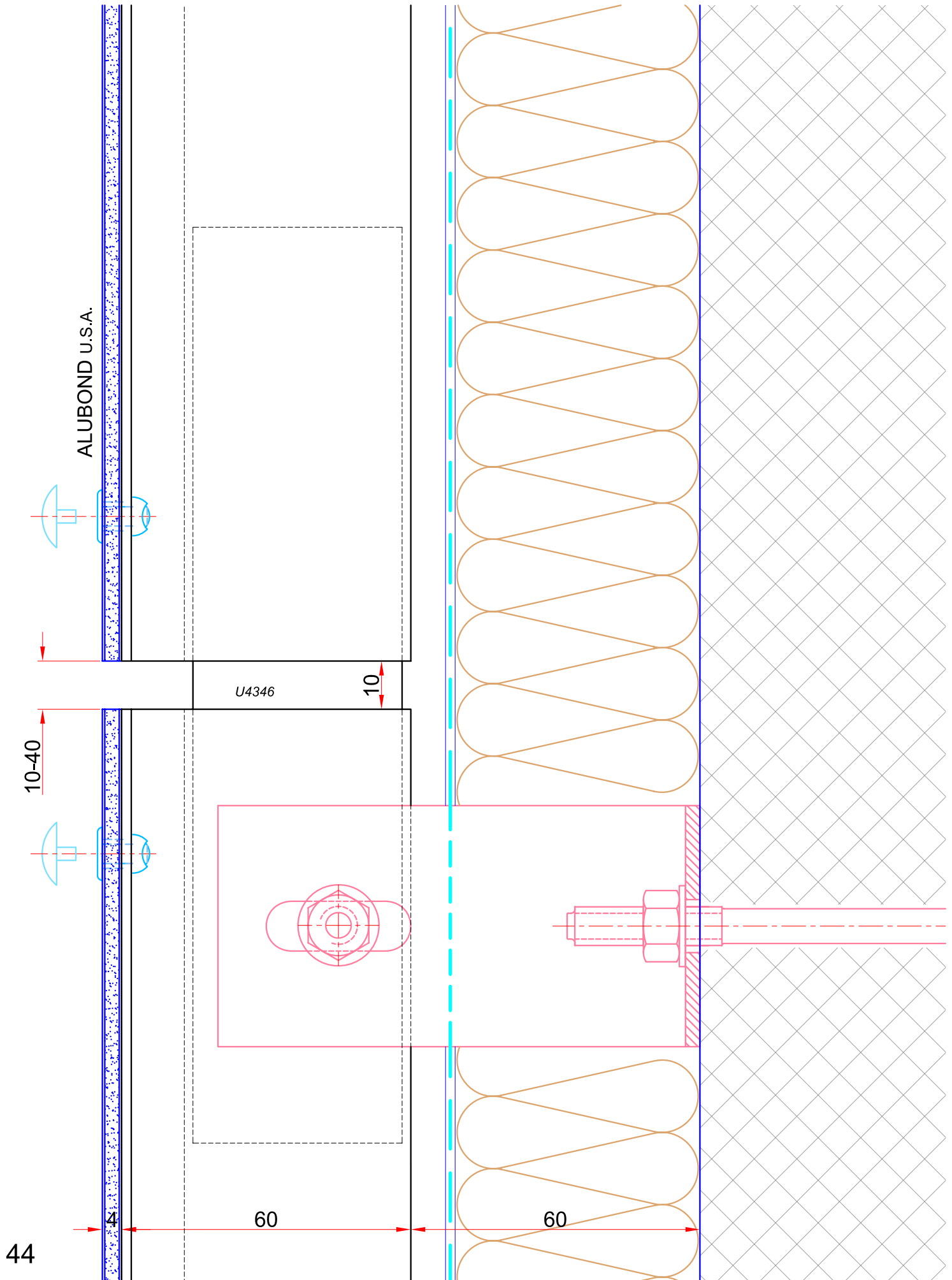


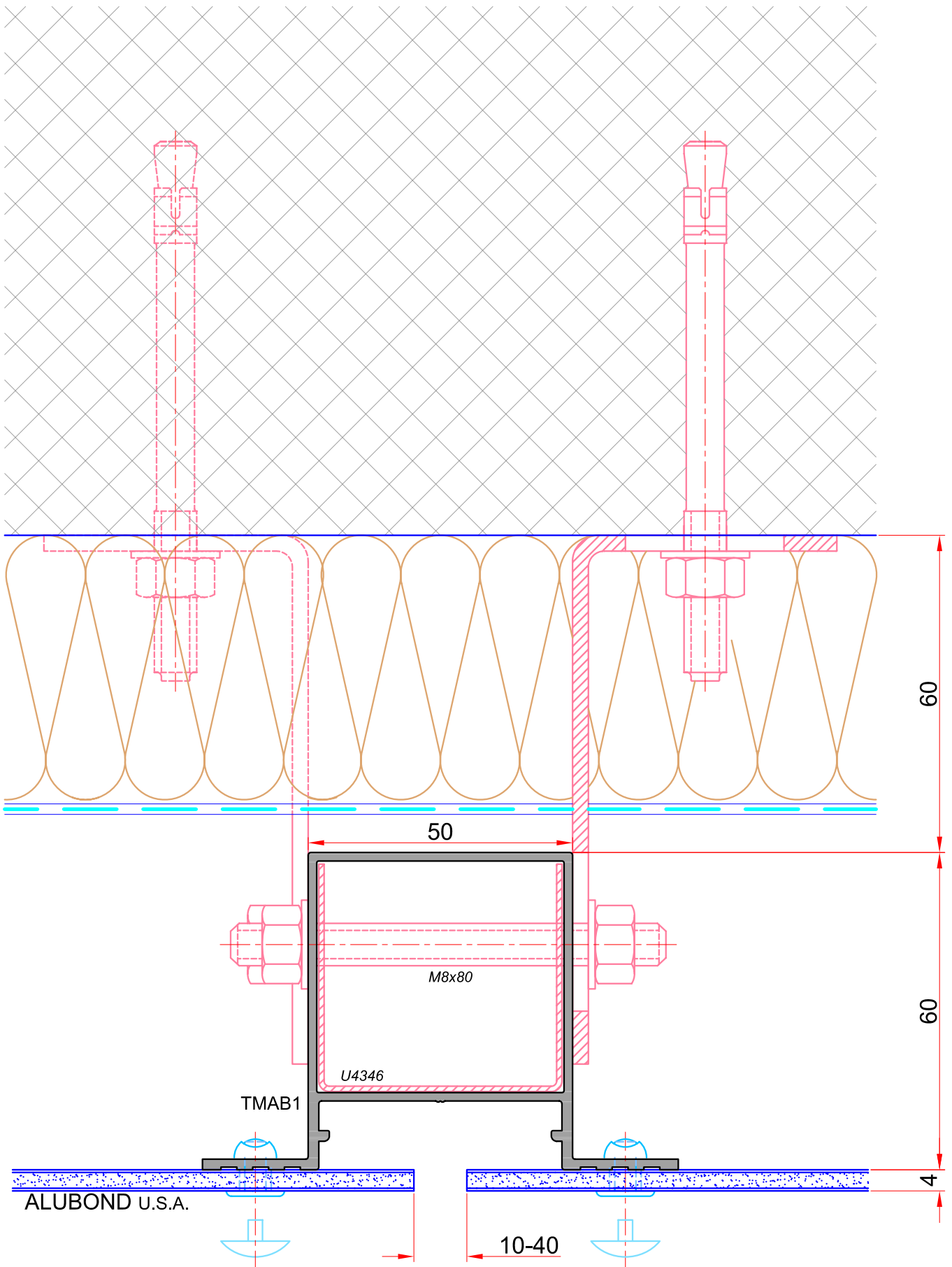




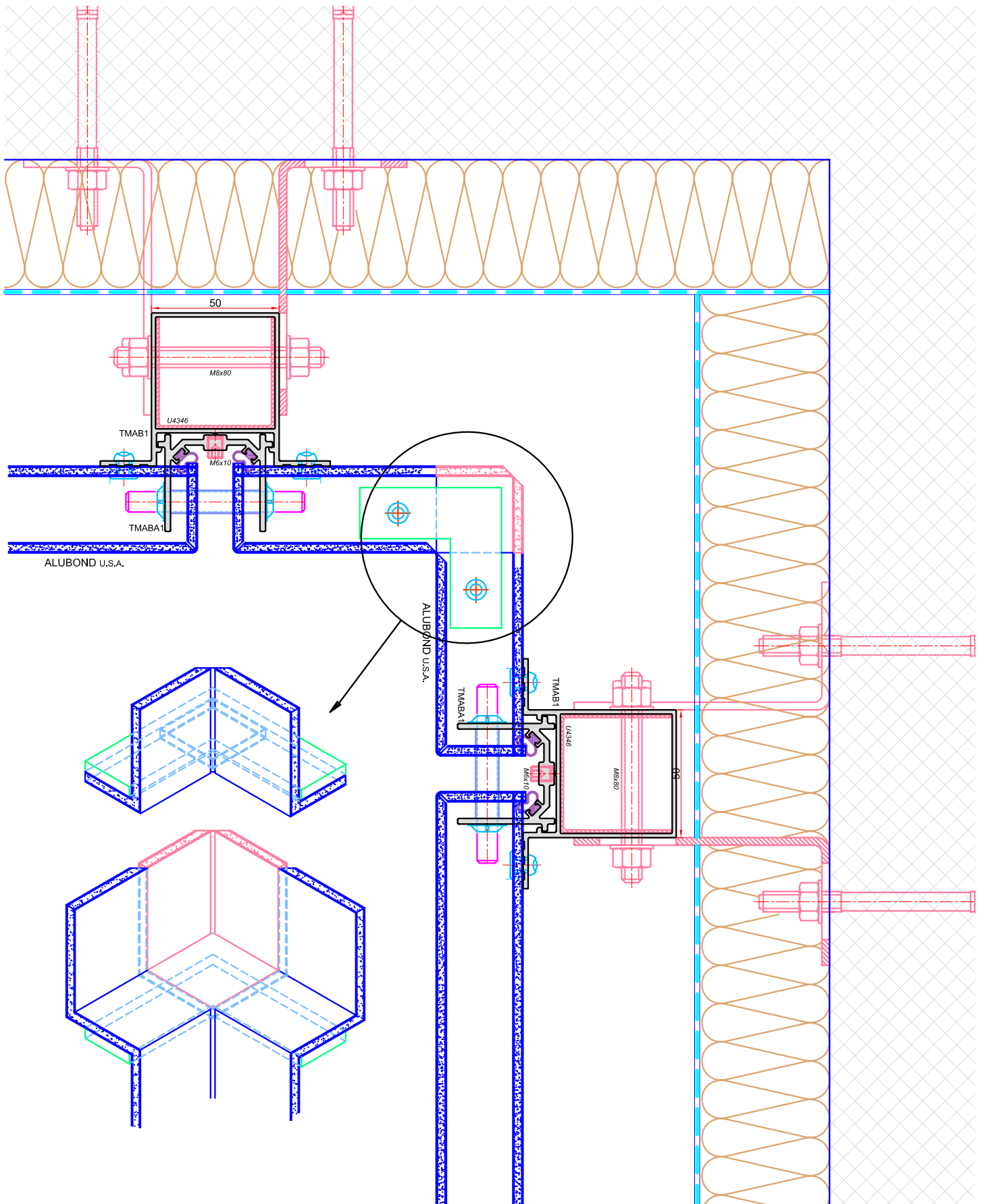




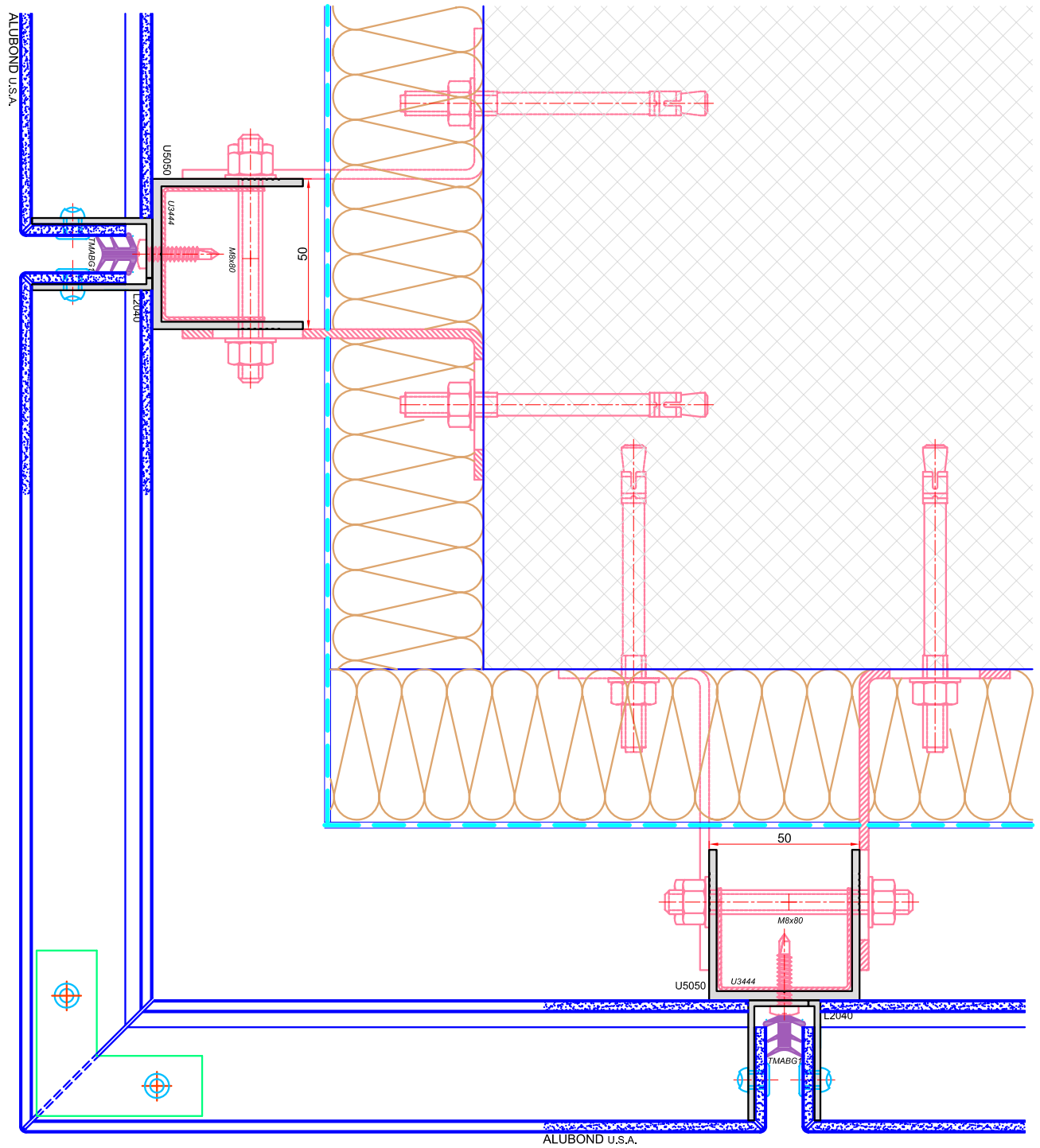




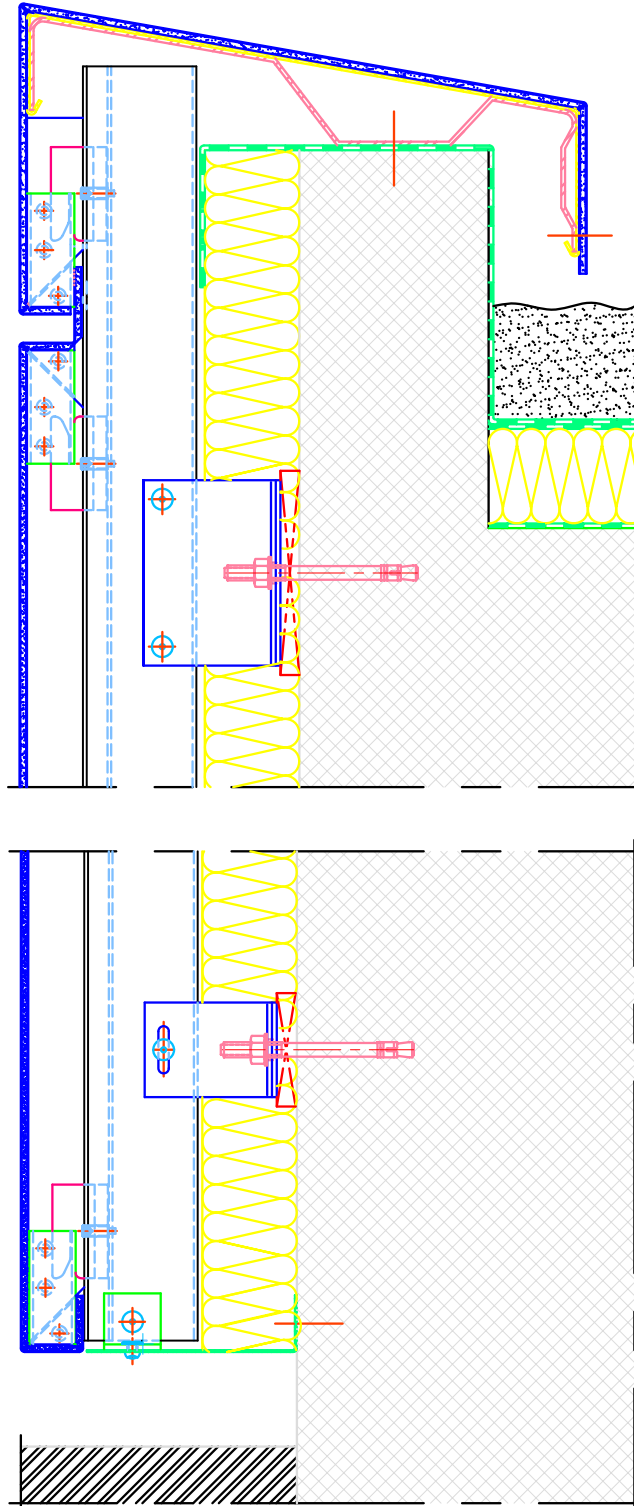
Detalj rešavanja ugla - horizontalni presek



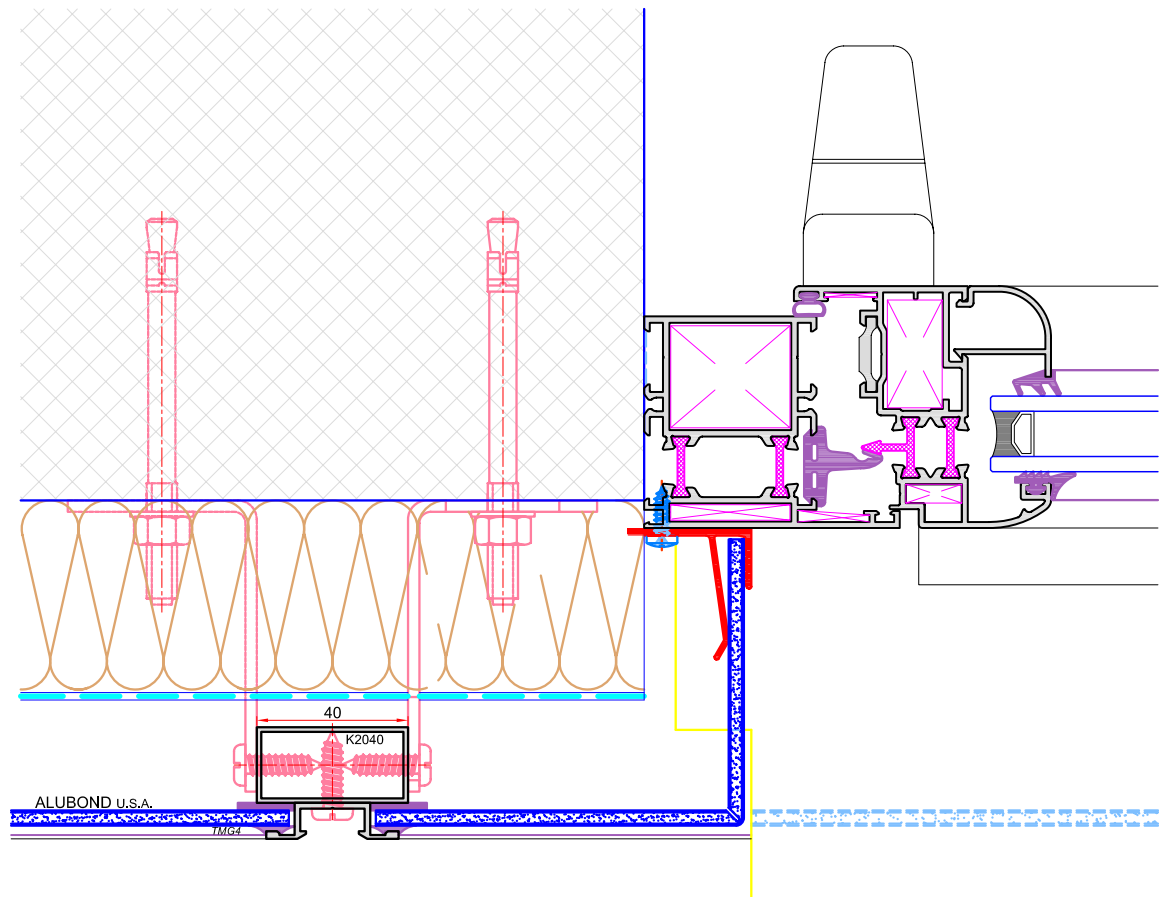
Detalj rešavanja ugla - horizontalni presek



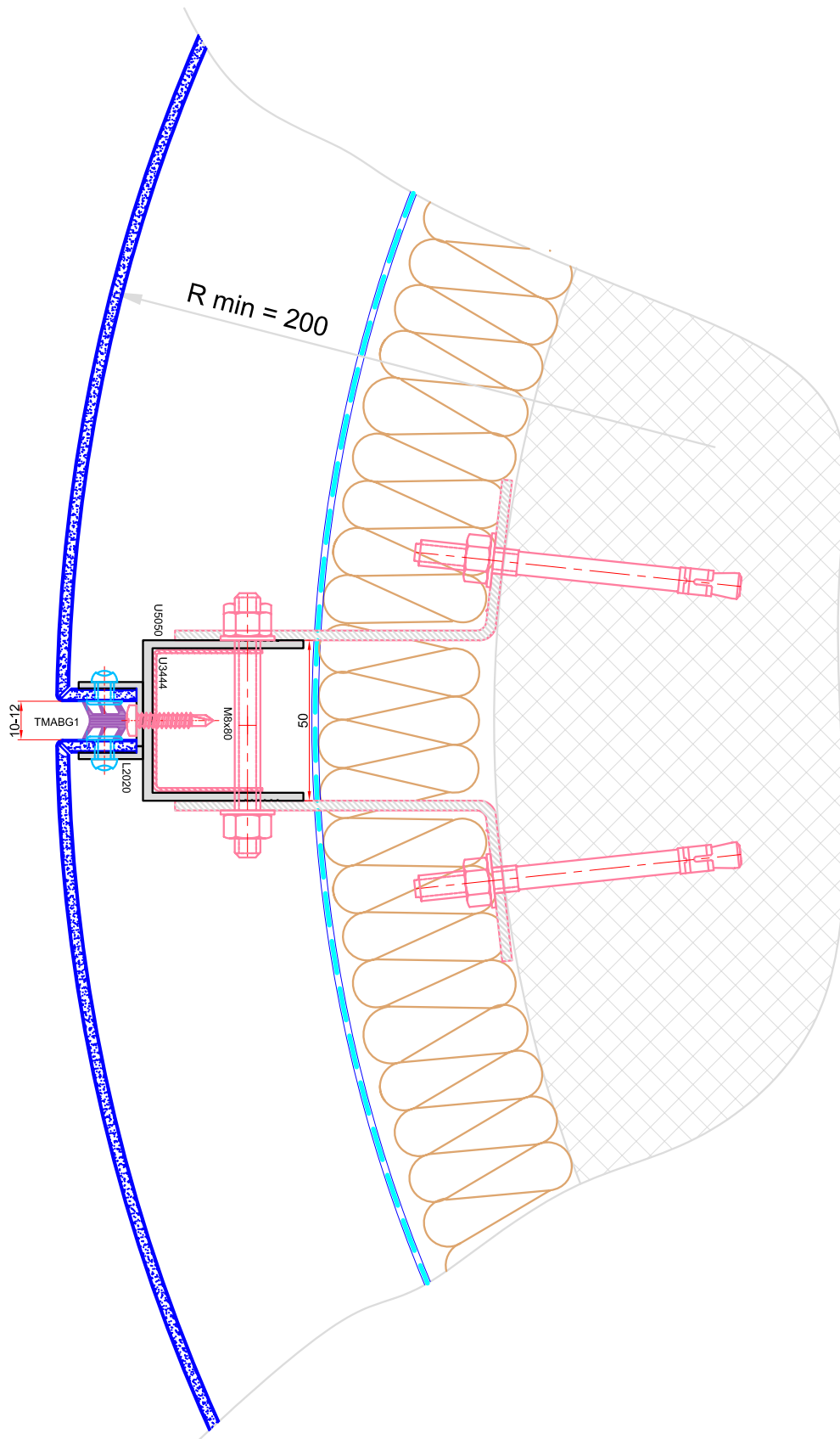
Detalj rešavanja gornjeg i donjeg završetka fasade - vertikalni presek



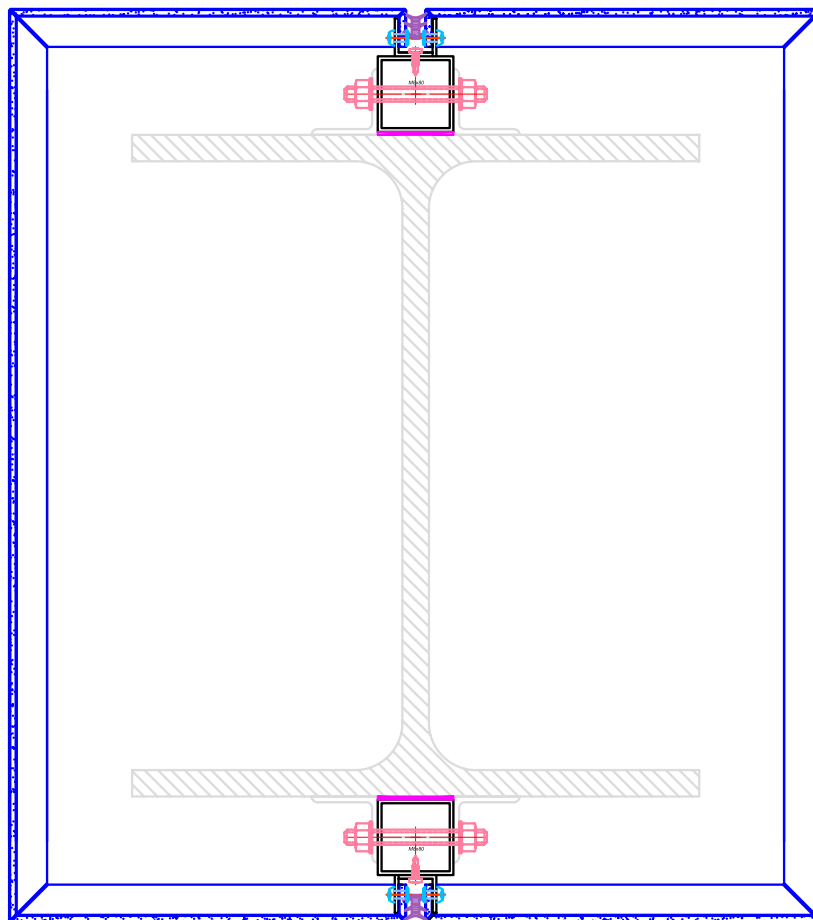
Detalj rešavanja spoja prozora i fasade - horizontalni presek



Detalj oblaganja stuba kružnog preseka - horizontalni presek



Detalj oblaganja čeličnog profila - horizontalni presek



Detalj spoja zida i plafona - vertikalni presek

