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MEMBER OF EOTA



European Technical Assessment ETA-25/1190 of 2026/05/12

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Denmark A/S

Trade name of the construction product:

HAZ HMP-ALU-P

Product family to which the above construction product belongs:

Subframe metallic brackets for cladding kits

Manufacturer:

HAZ Metal Deutschland GmbH
Alfred-Zippe-Straße 1
DE-97877 Wertheim
Telephone: +49 9342 93590
Internet: www.haz.eu

Manufacturing plant:

HAZ Metal AS,
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Akçay Sanayi Bölgesi
TR-31200 İskenderun/Hatay

This European Technical Assessment contains:

26 pages including 15 annexes which form an integral part of the document

This European Technical Assessment is issued in accordance with Article 95(4) of Regulation (EU) 2024/3110, on the basis of:

EAD 090034-01-0404 Kit composed by subframe and fixings for fastening cladding and external wall elements

This version replaces:

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II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product

The façade system „HMP-ALU-P“ is a subframe and fixing kit consisting of various individual components.

The wall brackets (HCSP3-AL-3; HCSP5-AL-5; HCRS3) are subframe brackets of Group 1 composed of purely metallic brackets (stainless steel grade 1.4301). They are attached to the load-bearing substrate using a suitable anchor with sufficient load-bearing capacity.

Vertical T-profiles and L-profiles (aluminium alloy EN AW 6063 T66) are connected to the wall brackets using two or three fasteners (EJOT JT9 6-5,5x35) made of stainless steel A4.

The horizontal support agraffe-profile (HMP-ALU-P; aluminium alloy EN AW 6063 T66) are then connected to the vertical T-/L-profiles using two of the fasteners (EJOT JT9 6-5,5x35).

The cladding-fixing type 2 (kerf system HM-AG-L bottom/middle/top; aluminium alloy EN AW 6063 T66) or the cladding-fixing type 5 (undercut anchor system HM-AG-P; aluminium alloy EN AW 6063 T66) are attached to the support agraffe-profile using a positive fit in accordance with the manufacturer's specifications. At least four cladding-fixings are needed to support one cladding element. Finally, the cladding element is installed. The cladding element is not part of this assessment.

All components of the subframe and fixing kit for external wall claddings are listed in the following table 1. The components have the geometrical characteristics and materials defined in Annex A. The kit is made of components mechanically assembled. The ETA holder is ultimately responsible for the kit.

The fixing kit is composed of extruded aluminium alloys (AW-6082-T6; AW-6063-T66) according to EN 754-2 and metallic fasteners. The ATK 107 FLH vertical profile has a nominal material thickness of 2.00 mm $\pm$ 0.15 mm for the webs and 2.50 mm $\pm$ 0.15 mm for the front flanges. The ATK 107 FLH bolt has a nominal diameter of 10 mm with a tolerance of $\pm$ 0.10 mm. There are two different types of fasteners.

In the first type, the profile and the bolt are connected with the blind rivet OPTO and in the second type, the connection is made with a SFS self-drilling screw.

	Type	Name	Characteristics	Details
Wall-brackets	Fixed-point 3 mm Fixed-point 5 mm Gliding-point 3 mm	HCSP3-AL-3 HCSP5-AL-5 HCRS3	Projection 55 – 305 mm; grade 1.4301 Projection 155 – 305 mm; grade 1.4301 Projection 55 – 305 mm; grade 1.4301	Annex 1-15
Substructure	L-profile T-profile Agraffe-profile	T-2,5x40x100 L-2,5x80x60 HMP-ALU-P	Black anodised; EN AW 6063 T66 Black anodised; EN AW 6063 T66 Black anodised; EN AW 6063 T66	
Fastening façade elements	Cladding-fixing type 2	HM-AG-L Bottom HM-AG-L Middle HM-AG-L Top	Type: support fixed; EN AW 6063 T66 Type: support fixed; EN AW 6063 T66 Type: restraint; EN AW 6063 T66	
	Cladding-fixing type 5	HM-AG-P	Type: support fixed; support non-fixed; restraint; EN AW 6063 T66	
Additional components	For fixed-point 3 mm For fixed-point 5 mm For cladding-fixing type 5 For cladding-fixing type 2	Plain washer M10 Plain washer M12 Elastic Shim Plastic sleeve	HPW-263411(M10); grade 1.4301 HPW-263411(M12); grade 1.4301 Small component; Nitril Small component; PVC	
Fastener	Self-drilling screw	EJOT JT9 6-5,5x35	Stainless steel A4	ETA 10/0200

Table 1:

Overview of components for the façade system HMP-ALU-P

The two types of the described façade system „HMP-ALU-P“ are illustrated in the following figures 1 to 4. Detailed drawings of the individual components are shown in Annex A. The measured dimensions of the tested specimens correspond to the specifications in the manufacturer's drawings and are within the given tolerances.

Figure 1: Overview of façade system „HMP-ALU-P“ type 5 – undercut anchor system

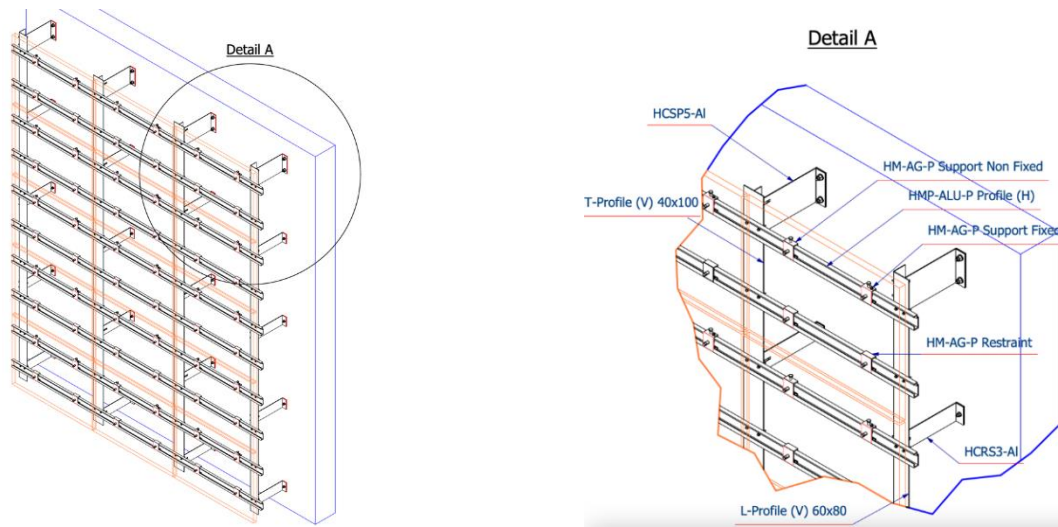


Figure 1: Overview of façade system „HMP-ALU-P“ type 5 – undercut anchor system

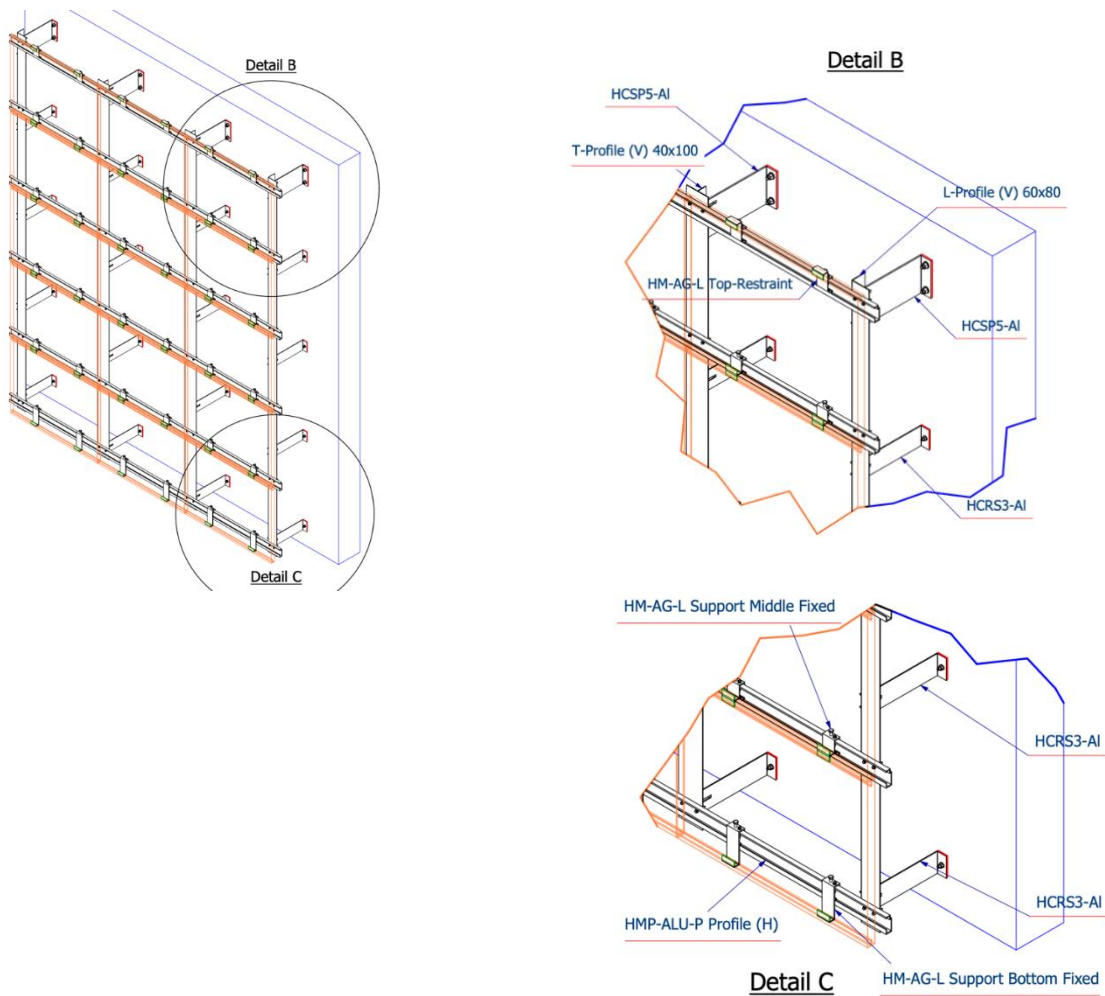


Figure 2: Overview of façade system “HMP-ALU-P” type 5 – kerf system

2 Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

The façade system „HMP-ALU-P“ is intended to be used as a subframe and fixing kit type 2 & type 5 according to EAD 090034-01-0404 for façades with an air space, ventilated or not, and intended to be anchored to the supporting structures of new or existing buildings.

The supporting structure is made of masonry (clay, concrete or stone), concrete (cast on site or as prefabricated panels), timber or metal frame and meets the requirements of Clause 1.3.4 of the EAD.

The façade system „HMP-ALU-P“ does not contribute to the stability of the structure on which it is anchored but it can contribute to the durability of the works by providing enhanced protection from the effect of weathering.

The façade system „HMP-ALU-P“ is in general a non-combustible system made of stainless steel and alloy, designed to minimise thermal losses through the building envelope and to transfer horizontal (wind load) and/or vertical (dead weight) loads from fixed skin elements to the substrate. Both horizontal and vertical loads are transferred at the same time.

The provisions made in this European Technical Assessment are based on an assumed intended working life of the wall brackets of 25 years when installed in the works, provided that the conditions laid down for the installation, packaging, transport and storage as well as appropriate use, maintenance and repair are met.

The indications given on the working life cannot be interpreted as a guarantee given by the manufacturer or the Assessment Body but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

Characteristic	Assessment of characteristic																													
3.2 Safety in case of fire (BWR 2)																														
Reaction to fire	The wall brackets and optional inlay washer are made from stainless-steel classified as performance class A1 of the characteristic reaction to fire, in accordance with EN 13501-1 and the provisions of Commission Delegated Regulation 2016/364 and EC decision 96/603/EC, amended by EC Decision 2000/605/EC. The nitril-pad and the small plastic sleeves can be classified as small components according to EOTA TR 021 whose influence can be neglected when considering the reaction to fire performance of the cladding fixing kit.																													
3.3 Hygiene, health and the environment (BWR 3)																														
Leachable substances	No performance assessed																													
Content of cadmium	No performance assessed																													
3.4 Safety and accessibility in use (BWR 4)																														
Resistance to horizontal load of assembled kit	Characteristic value of resistance to horizontal load: Qk -5,57 kPa System limit of wind load test device; no failure of the test specimen Maximum permanent deformation $\Delta d_{\max}$ after recovery: 1,6 mm Maximum deflection $d_{\max}$ under load: 10,4 mm $G_{k,1mm,fix}$: 2,48 kN/m²																													
Resistance to vertical load of assembled kit	$G_{k,1mm,hor}$: 2,66 kN/m² $G_{k,1mm,br}$: 2,42 kN/m² Deformations typical of the load were recognisable, no significant damage Components used for test is listed in Chapter 1, of the ETA.																													
Resistance to vertical load of fixing of skin element	<table><tr><th rowspan="2">Cladding-fixing</th><th colspan="2">Mean values [N]</th><th colspan="2">Characteristic values [N]</th></tr><tr><th>$F_{m,V,1\text{ mm}}$</th><th>$F_{m,V,S}$</th><th>$F_{k,V,1mm}$</th><th>$F_{k,V,S}$</th></tr><tr><td>HM-AG-P (Type 5: Undercut anchor)</td><td>2.493</td><td>4.270</td><td>1.867</td><td>3.862</td></tr><tr><td>HM-AG-L Bottom (Type 2: Kerf system)</td><td>3.560</td><td>4.479</td><td>3.331</td><td>4.279</td></tr><tr><td>HM-AG-L Middle (Type 2: Kerf system)</td><td>1.659</td><td>2.200</td><td>1.658</td><td>1.984</td></tr></table>	Cladding-fixing	Mean values [N]		Characteristic values [N]		$F_{m,V,1\text{ mm}}$	$F_{m,V,S}$	$F_{k,V,1mm}$	$F_{k,V,S}$	HM-AG-P (Type 5: Undercut anchor)	2.493	4.270	1.867	3.862	HM-AG-L Bottom (Type 2: Kerf system)	3.560	4.479	3.331	4.279	HM-AG-L Middle (Type 2: Kerf system)	1.659	2.200	1.658	1.984					
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Characteristic	Assessment of characteristic					
Resistance to pulsating horizontal load of fixing of skin element	Cladding-fixing	load levels [%]	$\delta_{m,fat}$ [-]			
	HM-AG-P (Type 5: Undercut anchor)	10% - 50%	0,93			
	HM-AG-L Middle (Type 2: Kerf system)	10% - 35%	0,95			
	HM-AG-L Top (Type 2: Kerf system)	10% - 20%	0,91			
Pull-through resistance of fastener	Connection	Mean values [N]	Characteristic values [N]			
		$P_{m,thr/out}$	$P_{k,thr/out}$			
Pull-out resistance of fastener	T-profile (T-2,5x100x40) Agraffe-profile (HMP-ALU-P) 2x Self-drilling screw (EJOT JT9 6-5,5x35)	6.157	5.444			
	L-profile (L-2,5x80x60) Agraffe-profile (HMP-ALU-P) 2x Self-drilling screw (EJOT JT9 6-5,5x35)	3.769	3.184			
Bending resistance of profile	Profile	Mean values [N]			Characteristic values [N]	
		$M_{m,1mm}$	$M_{m,3mm}$	$M_{m,S}$	$M_{k,1mm}$	$M_{k,S}$
	Agraffe-profile HMP-ALU-P (Load direction: wind suction)	48	159	1.774	45	149
	Agraffe-profile HMP-ALU-P (Load direction: wind pressure)	47	154	1.767	45	146
	Agraffe-profile HMP-ALU-P (Load direction: dead load)	177	856	3.617	152	774
	T-profile T-2,5x100x40 (Load direction: wind suction)	127	371	1.709	117	341
	T-profile T-2,5x100x40 (Load direction: wind pressure)	128	384	2.082	113	349
	L-profile L-2,5x80x60 (Load direction: wind suction)	192	631	1.509	179	578
	L-profile L-2,5x80x60 (Load direction: wind pressure)	193	661	3.781	166	604

Characteristic**Assessment of characteristic**

Dimensions and moment
of inertia of profile

Character- istics Profiles	Profile height	Profile depth	Thickness1 of profile	Thickness2 of profile	Thickness3 of profile	Moment of inertia	Moment of inertia
	[mm]	[mm]	[mm]	[mm]	[mm]	Bending I_y [mm ⁴]	Bending I_z [mm ⁴]
Agraffe-profile (HMP-ALU-P)	61,8	22,8	2,35	3,80	2,36	166.626	20.281
T-profile (T-2,5x40x100)	99,8	39,8	2,71	-	-	38.389	208.382
L-profile (L-2,5x60x80)	79,8	59,8	2,69	-	-	287.213	60.096

Resistance to vertical load

HCSP3-AL-3 wall bracket	Mean values [N]				Characteristic values [N]			
	$R_{m,V,r}$	$R_{m,V,1mm}$	$R_{m,V,3mm}$	$R_{m,V,S}$	$R_{k,V,r}$	$R_{k,V,1mm}$	$R_{k,V,3mm}$	$R_{k,V,S}$
HCSP3-AL-3-55	6.144	6.342	12.823	23.096	4.185	5.568	10.105	22.413
HCSP3-AL-3-65	5.684	5.679	11.728	21.463	3.914	5.002	9.301	20.631
HCSP3-AL-3-75	5.223	5.016	10.633	19.829	3.643	4.437	8.497	18.849
HCSP3-AL-3-95	4.302	3.690	8.444	16.561	3.100	3.306	6.890	15.284
HCSP3-AL-3-125	2.921	1.700	5.159	11.660	2.286	1.609	4.480	9.937
HCSP3-AL-3-155	2.388	1.310	3.959	9.355	1.828	1.241	3.476	8.068
HCSP3-AL-3-185	1.855	920	2.758	7.051	1.369	873	2.473	6.199
HCSP3-AL-3-215	1.321	530	1.557	4.746	911	505	1.470	4.331
HCSP3-AL-3-245	1.420	461	1.370	4.215	1.055	439	1.276	3.911
HCSP3-AL-3-275	1.518	391	1.183	3.685	1.199	372	1.082	3.492
HCSP3-AL-3-305	1.616	322	996	3.154	1.343	305	888	3.072

HCSP5-AL-5 wall bracket	Mean values [N]				Characteristic values [N]			
	$R_{m,V,r}$	$R_{m,V,1mm}$	$R_{m,V,3mm}$	$R_{m,V,S}$	$R_{k,V,r}$	$R_{k,V,1mm}$	$R_{k,V,3mm}$	$R_{k,V,S}$
HCSP5-AL-5-155	6.615	3.070	8.473	18.430	5.231	3.002	7.931	16.770
HCSP5-AL-5-185	5.658	2.429	6.788	14.874	4.829	2.319	6.372	13.847
HCSP5-AL-5-215	4.701	1.788	5.103	11.318	4.428	1.635	4.814	10.925
HCSP5-AL-5-245	4.313	1.511	4.352	9.776	4.003	1.368	4.109	9.439
HCSP5-AL-5-275	3.924	1.235	3.601	8.234	3.579	1.100	3.405	7.954
HCSP5-AL-5-305	3.536	958	2.850	6.692	3.154	833	2.700	6.469

Characteristic**Assessment of characteristic**

Resistance to horizontal load

HCSP3-AL-3 Wall bracket	Mean values [N]			Characteristic values [N]		
	R_{m,H,Ig1}	R_{m,H,1mm}	R_{m,H,S}	R_{k,H,Ig1}	R_{k,H,1mm}	R_{k,H,S}
HCSP3-AL-3-55	7.818	4.282	13.710	7.381	4.043	13.169
HCSP3-AL-3-65						
HCSP3-AL-3-75						
HCSP3-AL-3-95						
HCSP3-AL-3-125						
HCSP3-AL-3-155						
HCSP3-AL-3-185						
HCSP3-AL-3-215						
HCSP3-AL-3-245						
HCSP3-AL-3-275						
HCSP3-AL-3-305						

HCSP3-AL-3 Wall bracket	Mean values [N]			Characteristic values [N]		
	R_{m,H,Ig1}	R_{m,H,1mm}	R_{m,H,S}	R_{k,H,Ig1}	R_{k,H,1mm}	R_{k,H,S}
HCRS3-55	3.944	2.226	6.955	3.704	2.135	6.691
HCRS3-65						
HCRS3-75						
HCRS3-95						
HCRS3-125						
HCRS3-155						
HCRS3-185						
HCRS3-215						
HCRS3-245						
HCRS3-275						
HCRS3-305						

HCSP5-AL-5 Wall bracket	Mean values [N]			Characteristic values [N]		
	R_{m,H,Ig1}	R_{m,H,1mm}	R_{m,H,S}	R_{k,H,Ig1}	R_{k,H,1mm}	R_{k,H,S}
HCSP5-AL-5-155	20.366	9.088	32.939	16.538	7.912	30.362
HCSP5-AL-5-185						
HCSP5-AL-5-215						
HCSP5-AL-5-245						
HCSP5-AL-5-275						
HCSP5-AL-5-305						

Resistance to horizontal pulsating load

Resistance to sustained vertical load

No performance assessed

No performance assessed

Characteristic	Assessment of characteristic																																							
Resistance to freeze-thaw cycles	No performance assessed																																							
Resistance to immersion in water	No performance assessed																																							
Resistance to thermal ageing	No performance assessed																																							
Resistance to soft body impact	<table><tr><td> Order of tests Wall bracket </td><td>1st test series</td><td colspan="2">2nd test series</td><td colspan="2">Classified impact category</td></tr><tr><td>HCSP3-AL-3-305</td><td>Impact Level S2: no deterioration</td><td colspan="2">Impact Level S4: no deterioration</td><td colspan="2">Cat. I</td></tr><tr><td>HCRS3-305</td><td>Impact Level S2: no deterioration</td><td colspan="2">Impact Level S4: minor deterioration that do not affect the load-bearing capacity and safety of the overall system</td><td colspan="2">Cat. I</td></tr></table>						Order of tests Wall bracket	1st test series	2nd test series		Classified impact category		HCSP3-AL-3-305	Impact Level S2: no deterioration	Impact Level S4: no deterioration		Cat. I		HCRS3-305	Impact Level S2: no deterioration	Impact Level S4: minor deterioration that do not affect the load-bearing capacity and safety of the overall system		Cat. I																	
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Dimensions and moment of inertia of bracket	<table><tr><td rowspan="2"> Character-istics Wall brackets </td><td>Length of wing</td><td>Width of flange</td><td>Height of bracket</td><td>Thickness of bracket</td><td>Moment of inertia</td><td>Moment of inertia</td></tr><tr><td>[mm]</td><td>[mm]</td><td>[mm]</td><td>[mm]</td><td>Bending I_y [mm⁴]</td><td>Bending I_z [mm⁴]</td></tr><tr><td>HCSP3-AL-3</td><td>305,0</td><td>50,2</td><td>150,1</td><td>2,97</td><td>843.750</td><td>337</td></tr><tr><td>HCSP5-AL-5</td><td>305,1</td><td>50,1</td><td>150,1</td><td>4,99</td><td>1.406.250</td><td>1.562</td></tr><tr><td>HCRS3-AL</td><td>305,0</td><td>40,4</td><td>80,0</td><td>2,95</td><td>128.000</td><td>180</td></tr></table>						Character-istics Wall brackets	Length of wing	Width of flange	Height of bracket	Thickness of bracket	Moment of inertia	Moment of inertia	[mm]	[mm]	[mm]	[mm]	Bending I _y [mm ⁴]	Bending I _z [mm ⁴]	HCSP3-AL-3	305,0	50,2	150,1	2,97	843.750	337	HCSP5-AL-5	305,1	50,1	150,1	4,99	1.406.250	1.562	HCRS3-AL	305,0	40,4	80,0	2,95	128.000	180
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	HCSP5-AL-5	305,1	50,1	150,1	4,99	1.406.250	1.562																																	
HCRS3-AL	305,0	40,4	80,0	2,95	128.000	180																																		
Fibre content by weight in composite material	No performance assessed																																							
Vicat softening temperature (VST)	No performance assessed																																							
Modulus of elasticity in tension of composite bracket	No performance assessed																																							
Shear resistance to vertical load	<table><tr><th rowspan="2">Connection</th><th>Mean values [N]</th><th>Characteristic values [N]</th></tr><tr><th>V_{m,V}</th><th>V_{k,V}</th></tr><tr><td>T-profile (T-2,5x100x40) HCSP5-AL-5 2x Self-drilling screw (EJOT JT9 6-5,5x35)</td><td>12.082</td><td>11.020</td></tr><tr><td>T-profile (T-2,5x100x40) HCSP3-AL-3 2x Self-drilling screw (EJOT JT9 6-5,5x35)</td><td>12.387</td><td>11.534</td></tr><tr><td>T-profile (T-2,5x100x40) Agraffe-profile (HMP-ALU-P) 2x Self-drilling screw (EJOT JT9 6-5,5x35)</td><td>15.406</td><td>13.882</td></tr></table>						Connection	Mean values [N]	Characteristic values [N]	V _{m,V}	V _{k,V}	T-profile (T-2,5x100x40) HCSP5-AL-5 2x Self-drilling screw (EJOT JT9 6-5,5x35)	12.082	11.020	T-profile (T-2,5x100x40) HCSP3-AL-3 2x Self-drilling screw (EJOT JT9 6-5,5x35)	12.387	11.534	T-profile (T-2,5x100x40) Agraffe-profile (HMP-ALU-P) 2x Self-drilling screw (EJOT JT9 6-5,5x35)	15.406	13.882																				
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Characteristic	Assessment of characteristic		
Shear resistance to horizontal load	Connection	Mean values [N]	Characteristic values [N]
		V_{m,H}	V_{k,H}
	T-profile (T-2,5x100x40) HCSP5-AL-5 2x Self-drilling screw (EJOT JT9 6-5,5x35)	13.099	11.457
	T-profile (T-2,5x100x40) HCSP3-AL-3 2x Self-drilling screw (EJOT JT9 6-5,5x35)	13.725	11.570
	T-profile (T-2,5x100x40) HCRS3-AL 2x Self-drilling screw (EJOT JT9 6-5,5x35)	13.008	12.198
Resistance of metallic parts, based on choice of material	Wall brackets, corrosion resistance class: CRC II		
Resistance of metallic parts, based on their additional coating	Fasteners, corrosion resistance class: CRC III		
	Cladding fixings and profiles, corrosion resistance: Durability Class B		
	No performance assessed		
3.6 Energy economy and heat retention (BWR 6)			
Point thermal transmittance χ	No performance assessed		
Linear thermal transmittance ψ	No performance assessed		

3.8 Methods of verification

The assessment of the performance of „HMP-ALU-P“ is intended to be used as a subframe and fixing kit type 2 & type 5 in relation to the applicable BWR's has been made in accordance with the European Assessment Document (EAD) no. EAD 090034-01-0404 Kit composed by subframe and fixings for fastening cladding and external wall elements, chapter 1.1.

The „HMP-ALU-P“ cladding fixing kit is manufactured in accordance with the provisions of this European Technical Assessment using the manufacturing processes as identified in the inspection of the plant by the notified inspection body and laid down in the technical documentation.

3.9 General aspects related to the fitness for use of the product.

The European Technical Assessment is issued for the product based on agreed data/information, deposited with ETA-Danmark, which identifies the product that has been assessed and judged. Changes to the product or production process, which could result in this deposited data/information being incorrect, should be notified to ETA-Danmark before the changes are introduced. ETA-Danmark will decide if such changes affect the ETA and consequently the validity of the CE marking based on the ETA and if so whether further assessment or alterations to the ETA, shall be necessary.

4 Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base

4.1 AVCP system

According to the decision 2003/640/EC of the European Commission, as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 2+.

In addition, with regard to reaction to fire for products covered by this EAD the applicable European legal act is Decision 2003/640/EC.

The reaction to fire classifications covered by this ETA does not result in AVCP level 1.

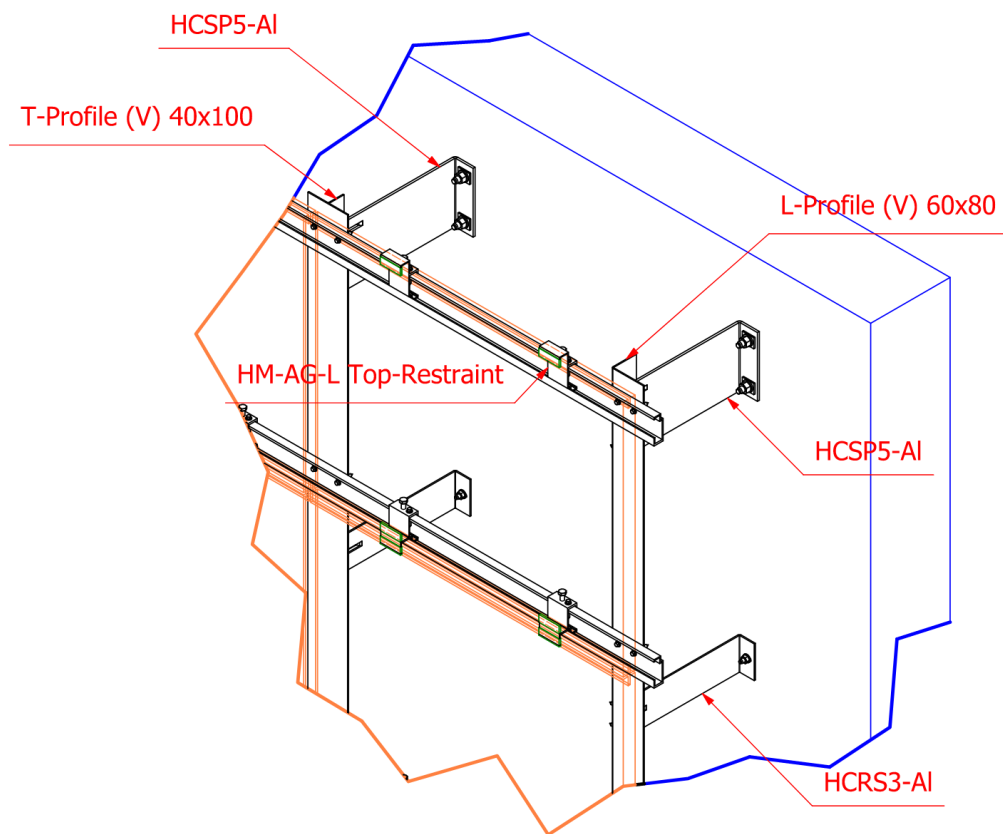
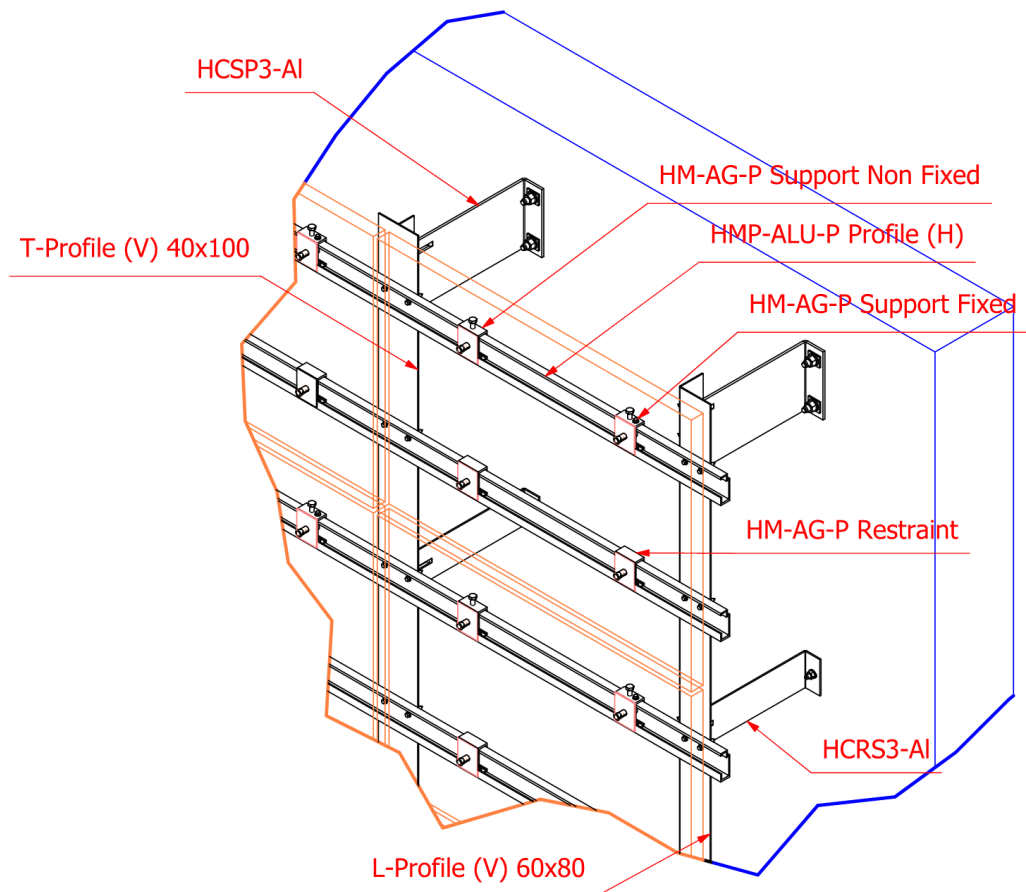
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

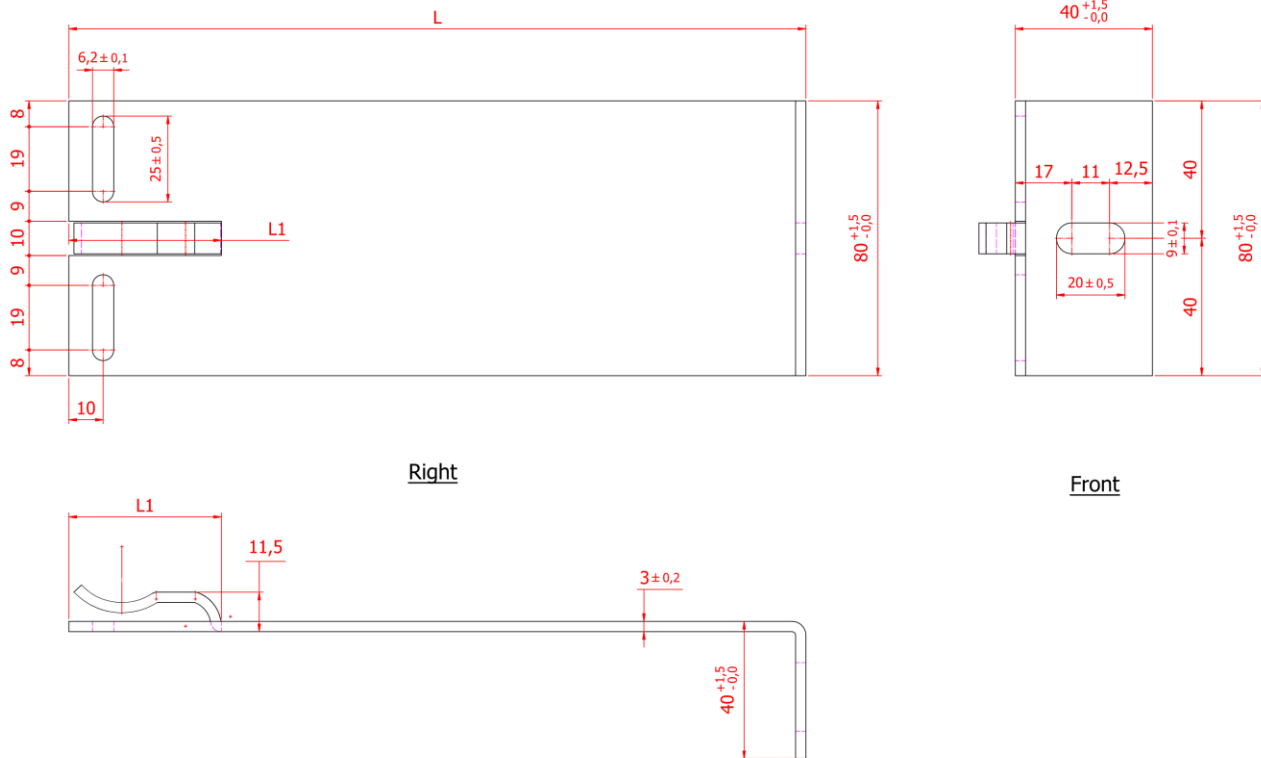
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark prior to CE-marking.

Issued in Copenhagen on 2026-05-12 by

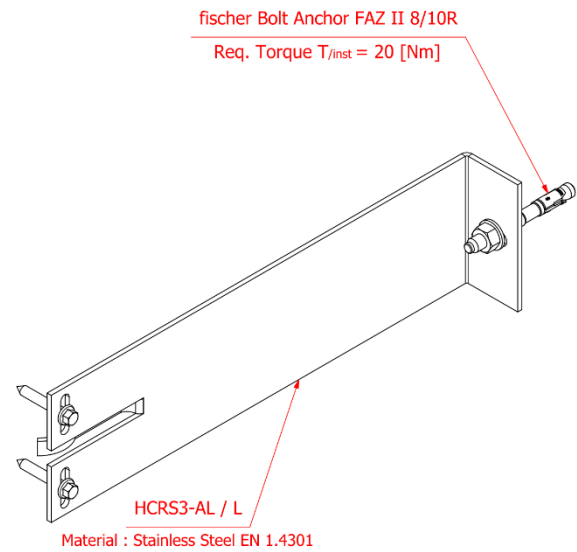


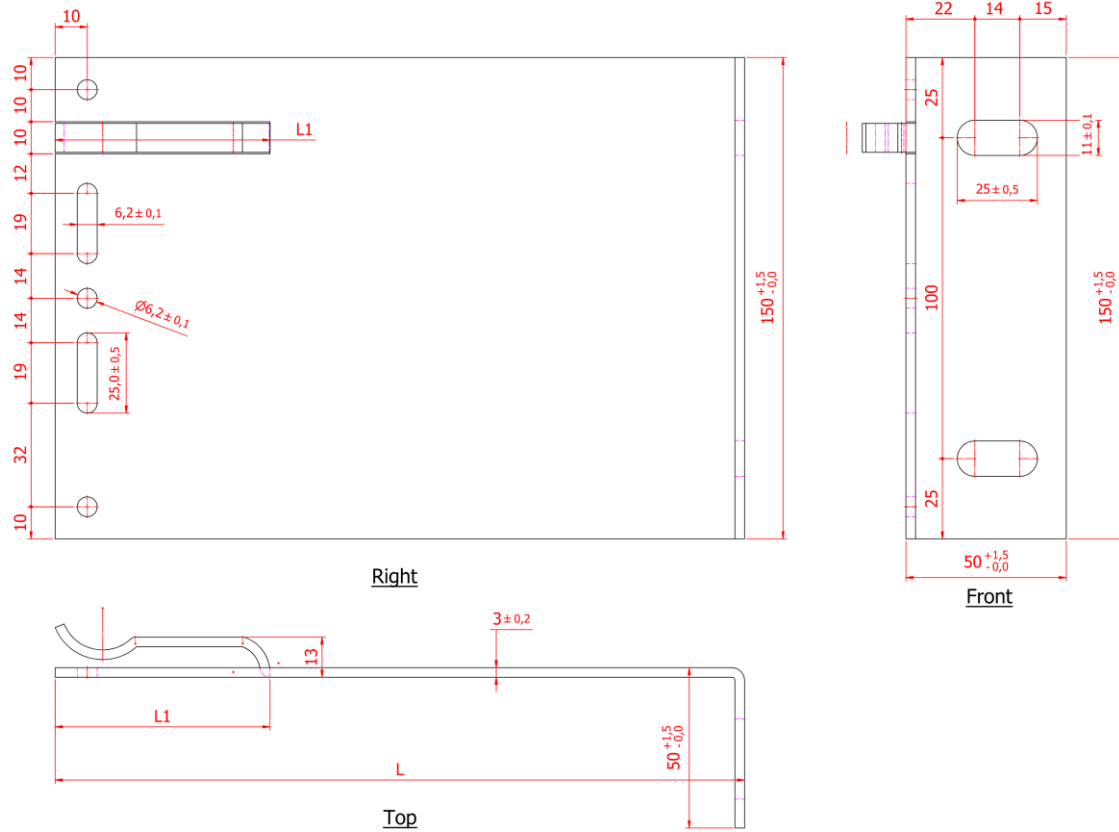
Thomas Bruun
Managing Director, ETA-Danmark



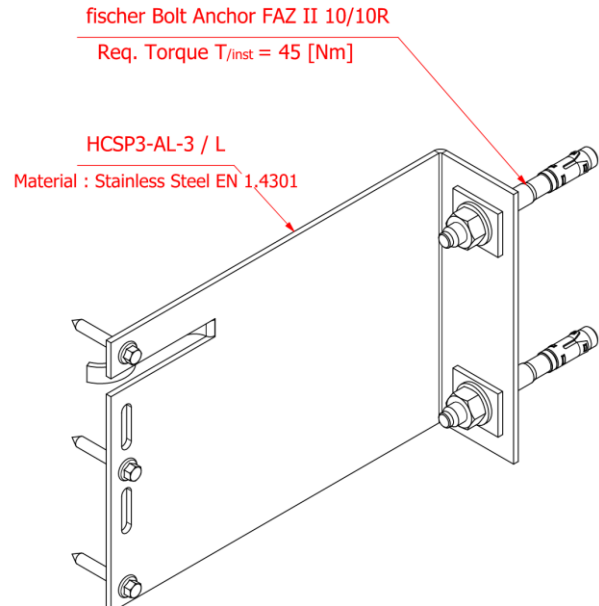


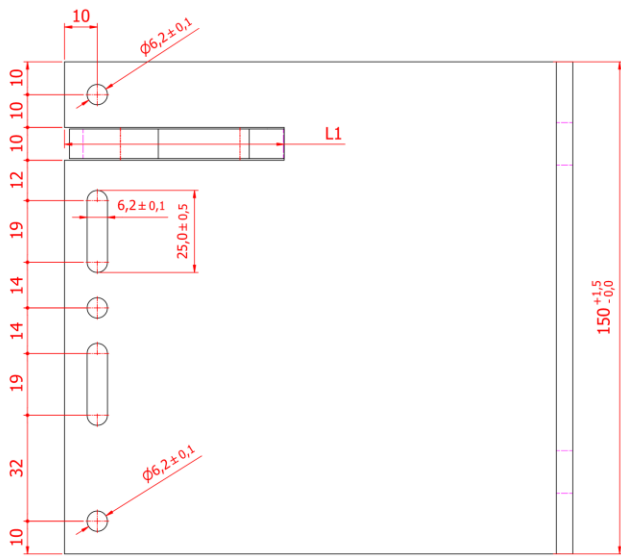
HCRS3-AL		
Type	L	L1
Wall bracket HCRS3-AL-55	55	44.5
Wall bracket HCRS3-AL-65	65	44.5
Wall bracket HCRS3-AL-75	75	67
Wall bracket HCRS3-AL-95	95	67
Wall bracket HCRS3-AL-125	125	67
Wall bracket HCRS3-AL-155	155	67
Wall bracket HCRS3-AL-185	185	67
Wall bracket HCRS3-AL-215	215	67
Wall bracket HCRS3-AL-245	245	67
Wall bracket HCRS3-AL-275	275	67
Wall bracket HCRS3-AL-305	305	67



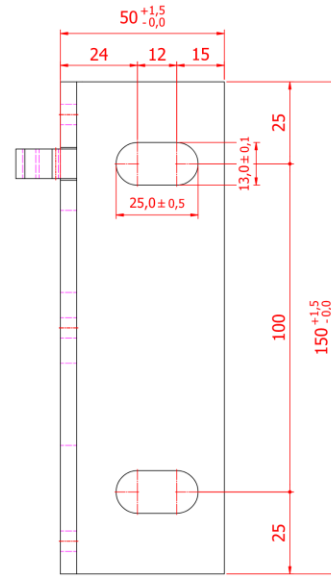


HCSP3-AL-3		
Type	L	L1
HCSP3-AL-3 /55	55	44.5
HCSP3-AL-3 /65	65	44.5
HCSP3-AL-3 /75	75	67
HCSP3-AL-3 /95	95	67
HCSP3-AL-3 /125	125	67
HCSP3-AL-3 /155	155	67
HCSP3-AL-3 /185	185	67
HCSP3-AL-3 /215	215	67
HCSP3-AL-3 /245	245	67
HCSP3-AL-3 /275	275	67
HCSP3-AL-3 /305	305	67

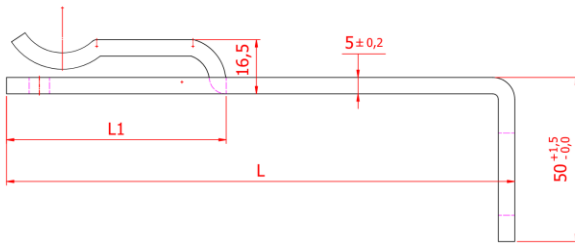




Right



Front



Top

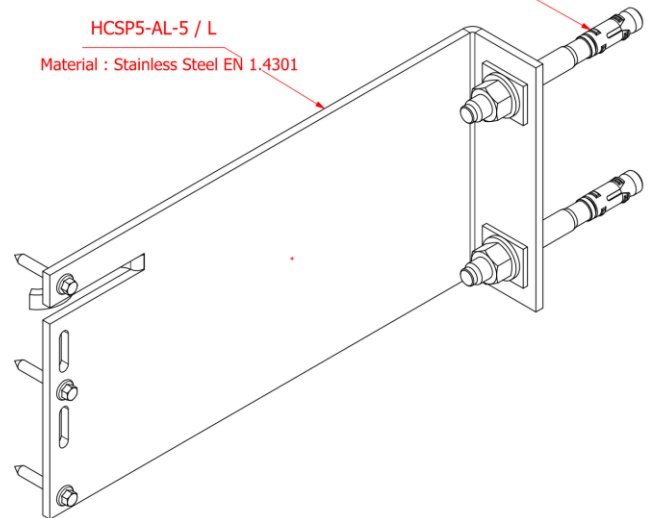
HCSP5-AL-5		
Type	L	L1
HCSP5-AL-5 / 155	155	67
HCSP5-AL-5 / 185	185	67
HCSP5-AL-5 / 215	215	67
HCSP5-AL-5 / 245	245	67
HCSP5-AL-5 / 275	275	67
HCSP5-AL-5 / 305	305	67

fischer Bolt Anchor FAZ II 12/10R

Req. Torque $T_{inst} = 60$ [Nm]

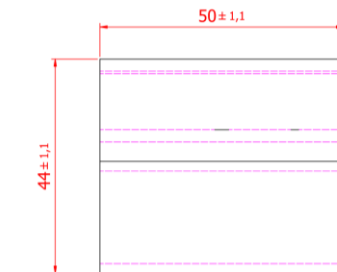
HCSP5-AL-5 / L

Material : Stainless Steel EN 1.4301

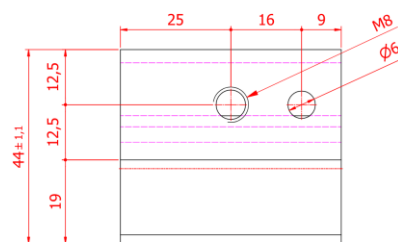


Annex 6 – Standard System Components – HM-AG-L Aluminium Kerf Bracket

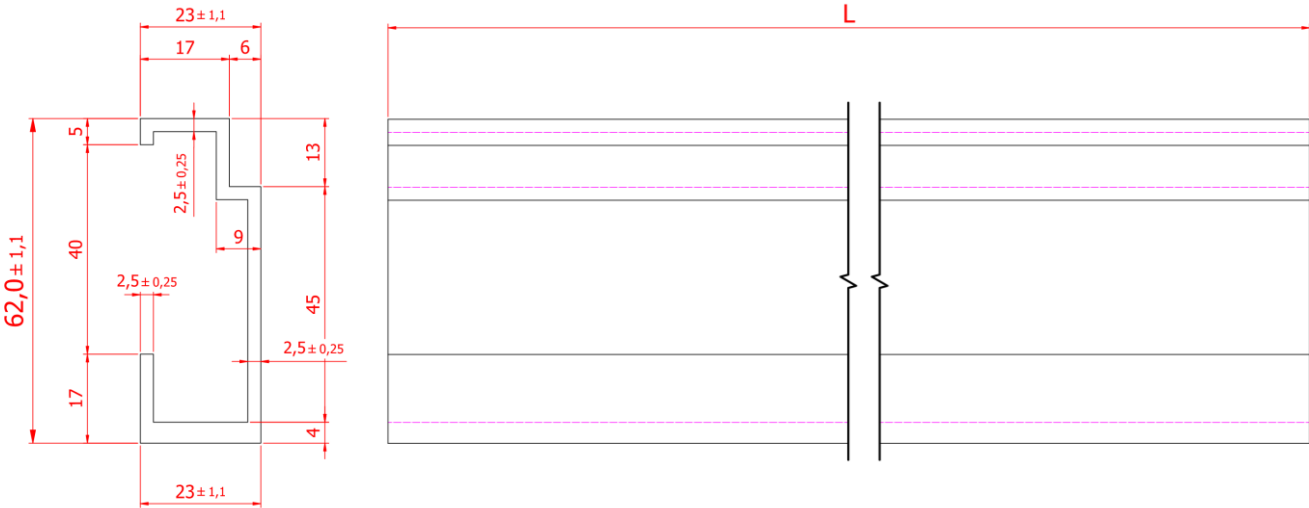
Front



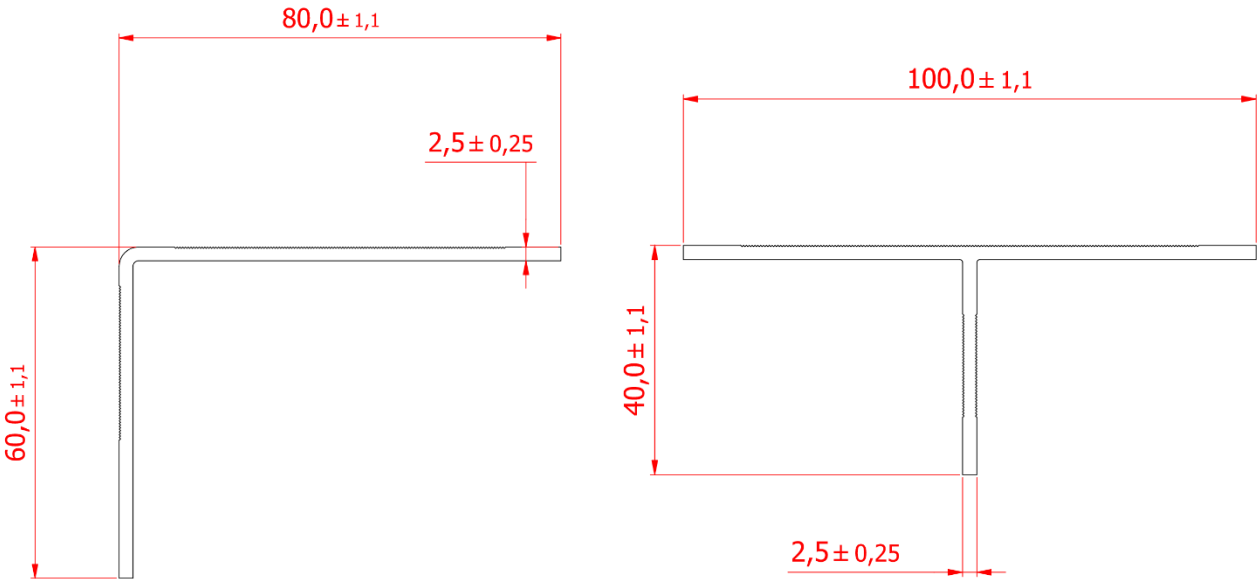
Front



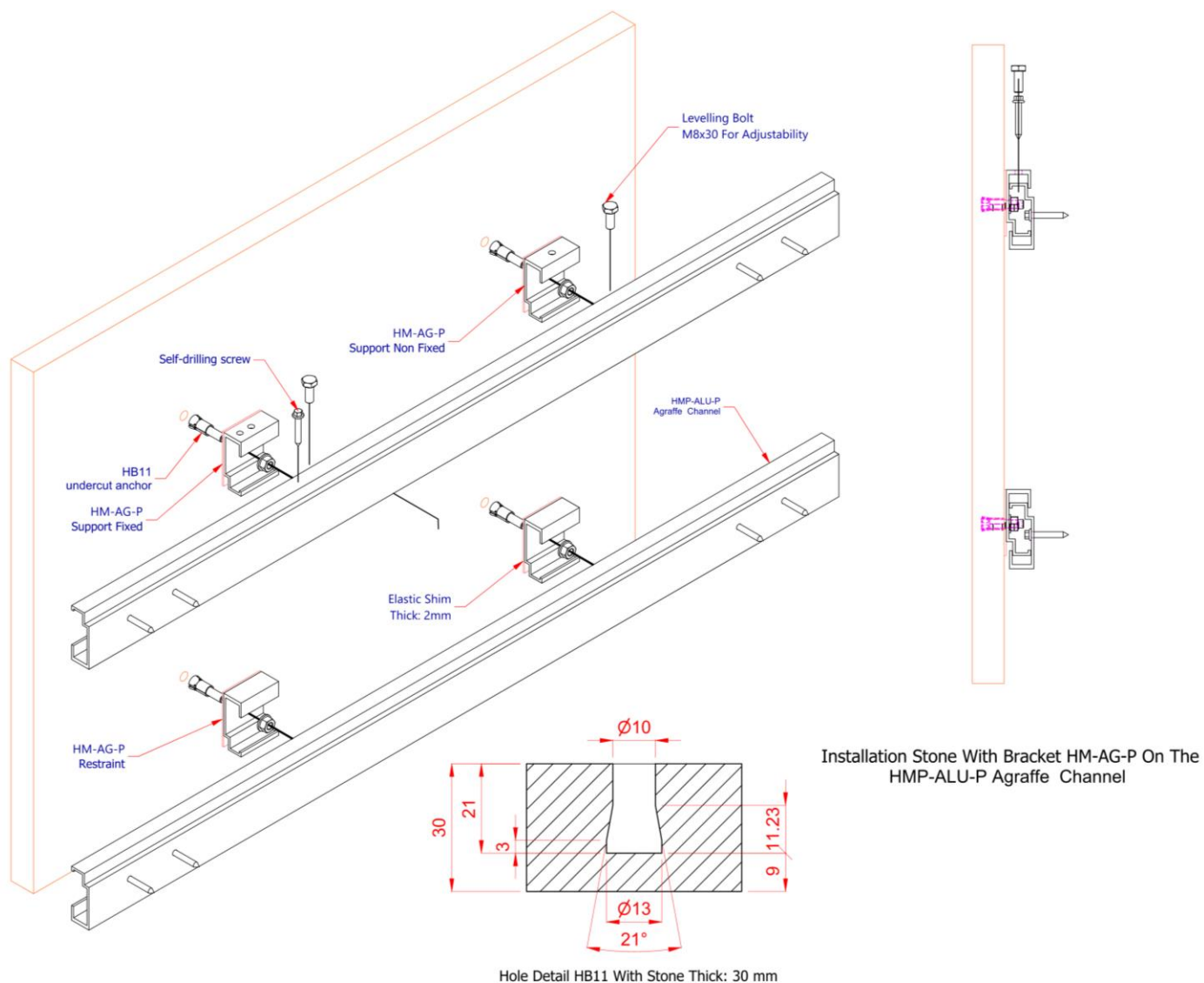
Annex 7 – Standard System Components – HM-AG-L Aluminium Top and Bottom of Wall Kerf Brackets

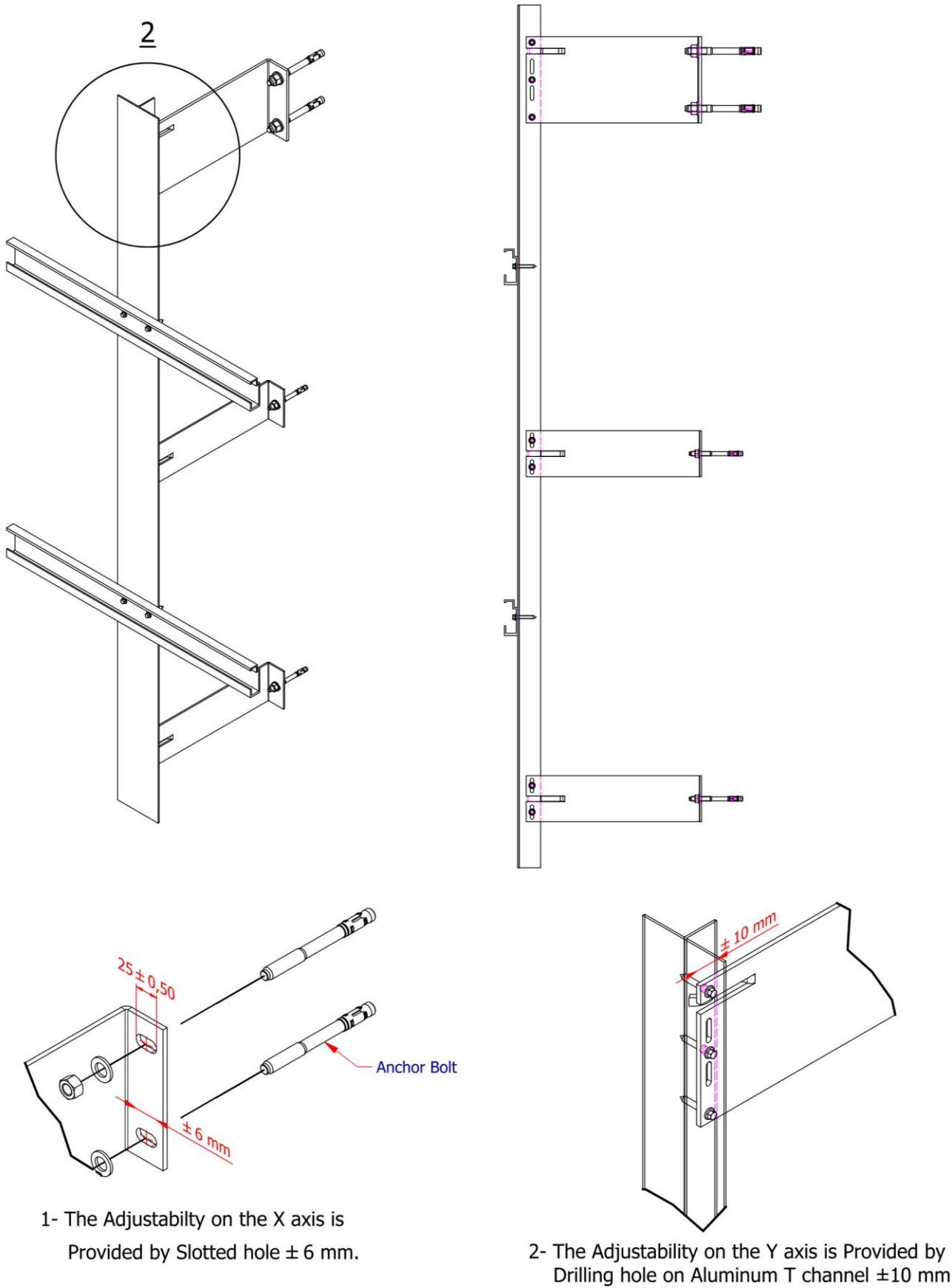


Annex 8 – Standard System Components – HMP-ALU-P Aluminium Horizontal Rail Profile

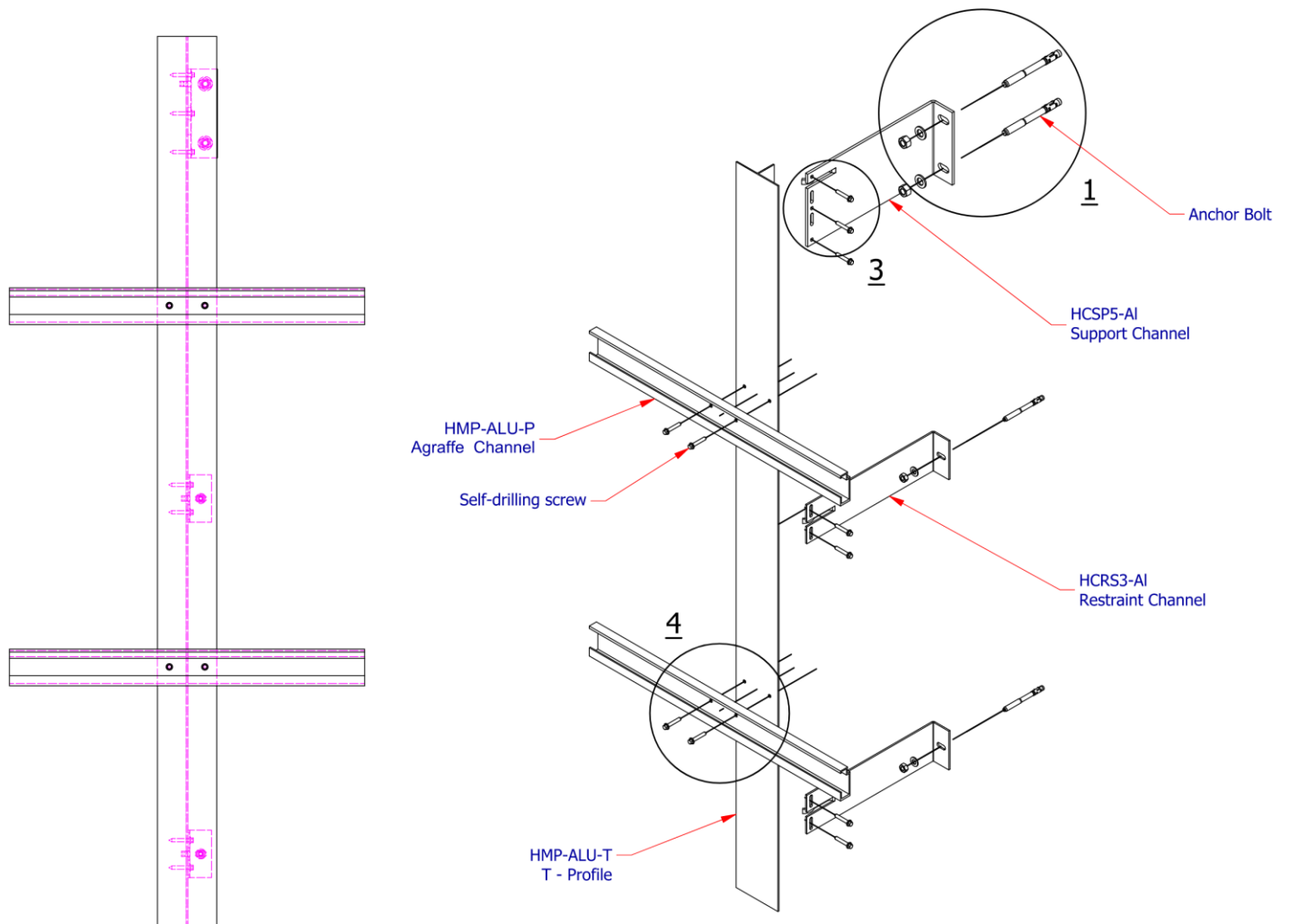


Annex 9 – Standard System Components – HMP-ALU-L / -T Aluminium Vertical Rail Profiles





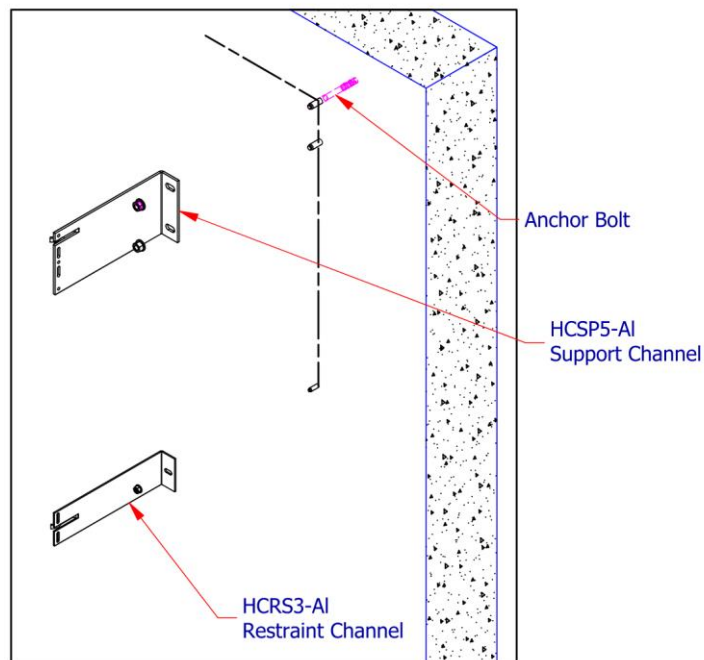
Annex 11 – Assembly Diagrams – Aluminium Rails Fixing and Adjustability



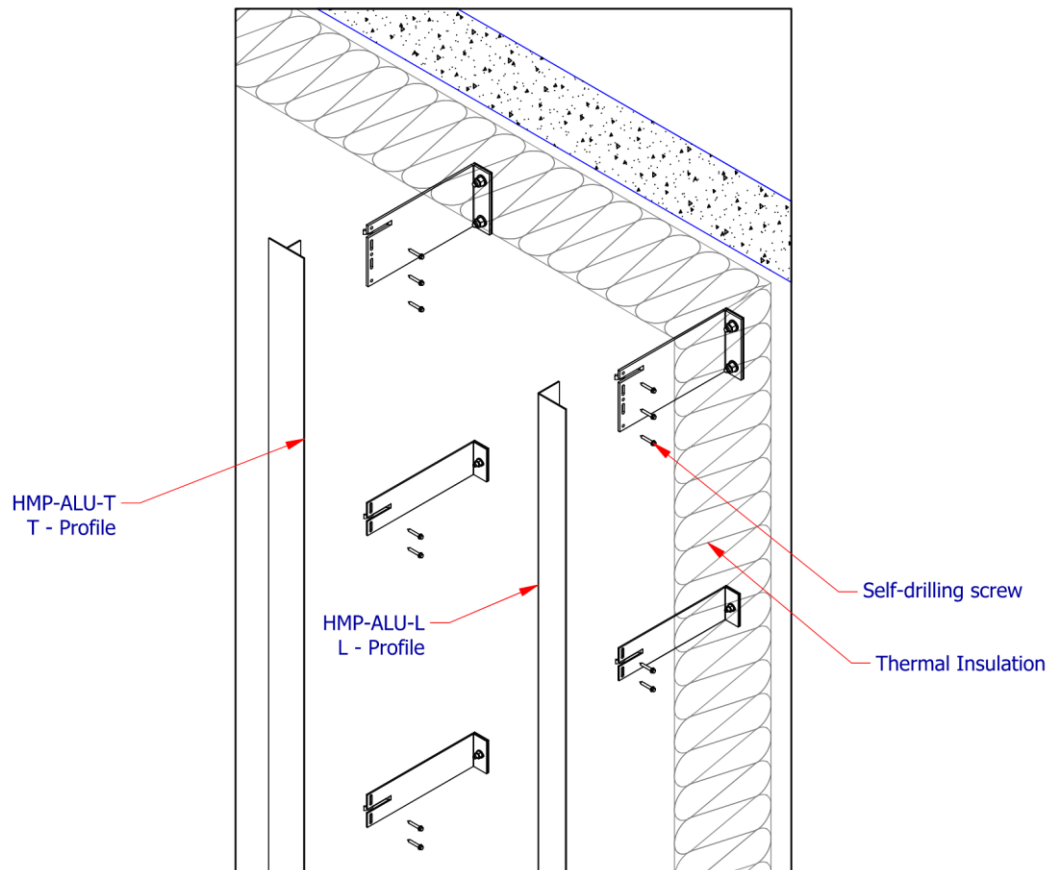
3- The Adjustability on the Z axis is Provided by Slotted hole ± 10 mm

4- Adjustment of the Horizontal Channel Up and Down on the Z Axis is provided by Drilling hole on Aluminum T channel

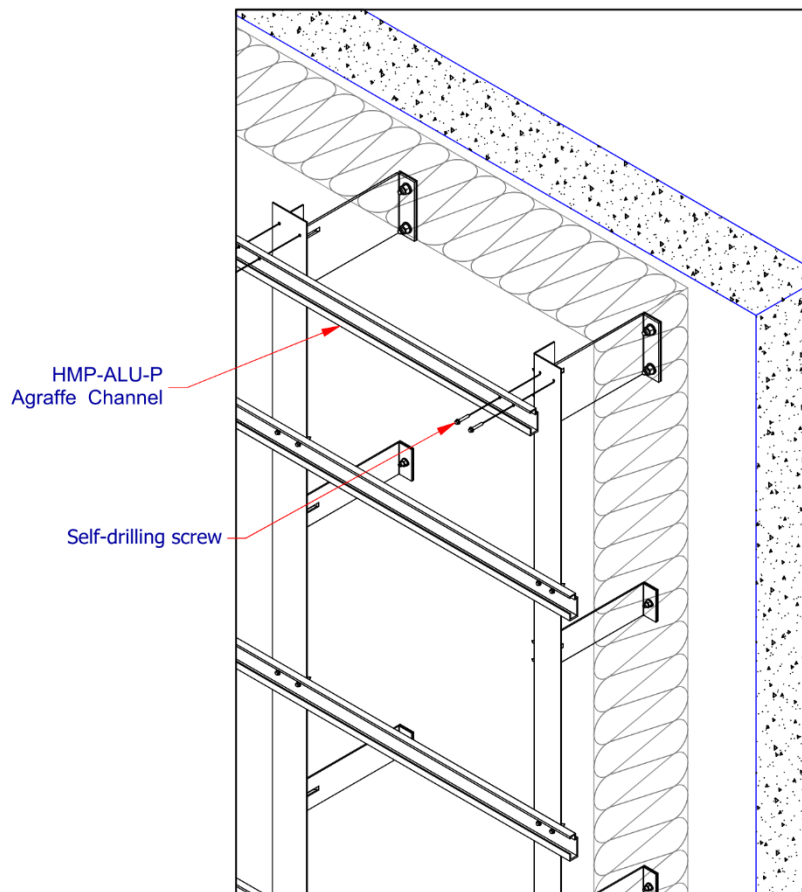
Annex 12 – Assembly Diagrams – Aluminium Rails Fixing and Adjustability (Cont'd)



1. Support and restraint brackets setting out to be carried out with reference to the design drawings and both vertical and horizontal spacings.
 - a. using the bracket as template and positioning it on the vertical line that meets the vertical rail, mark anchor bolt holes, following manufacturer's instructions depending on bolt and substrate type.
 - b. insert anchor bolts through bracket assembly including washers and adjust position and level, and torque bolts to manufacturer's specs to secure the fixings.



- 2- Thermal insulation batting and membranes - if applicable - to be installed followed by vertical rails and then horizontal rails.
 - a. after installing insulation and membranes to the substrate, cutting slits as need for the brackets to penetrate, the vertical T-rail is then fitted into the helping hand, with plumb and offset adjusted, then fixed using self drilling screws to the brackets, ensuring that load bearing brackets are fixed to the rails using fixed points (round holes) with a minimum of 2 screws.
 - b. restraints are then fixed through sliding points (vertically slotted holes),
 - c. vertical rails should always have a gap of min. 10 mm between rail ends to allow for thermal movement.



3- Agraffe horizontal rails installation

- a. mark horizontal rail fixing position to match panel to rail coupling levels. The agraffe channel should be fixed to the vertical rail with 2 screws
- b. note that spacings and overhangs are critical to performance of the agraffe channels, ensure spacings and overhang lengths are not exceeded according to the design drawings.

