



European Technical Assessment

ETA-26/0435 of 24/07/2026

English translation prepared by CSTB - Original version in French language

Partie générale

Technical Assessment Body issuing the European Technical Assessment:

Centre Scientifique et Technique du Bâtiment (CSTB)

Trade name:

Hilti base connectors of MT-30 V2 and MT-40 V2 Systems

Product family:

Products for installation systems for supporting technical building equipment

Manufacturer:

Hilti AG
Feldkircherstraße 100
9494 Schaan
FÜRSTENTUM LIECHTENSTEIN

Manufacturing plants:

L 1124303, L 1087643, L 1000446, L 1128868, L 1005049

**This European Technical
Assessment contains:**

15 pages including 12 pages of annexes which form an integral part of this assessment

**This European Technical
Assessment is issued in
accordance with Regulation (EU)
No 305/2011, on the basis of:**

European Assessment Document (EAD)
280016-00-0602 version June 2020

This Assessment replaces:

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General Parts

Specific Part

1 Technical description of the product

This European Technical Assessment covers HILTI base connectors of MT System: MT-B-L, MT-B-L OC, MT-B-L FL, MT-B-L FL OC, MT-B-T, MT-B-T OC, MT-B-T FL, MT-B-T FL OC, MT-B-T-10, MT-B-T-10 OC, MT-B-T-10 FL, MT-B-T-10 FL OC, MT-B-O2, MT-B-O2 OC, MT-B-O2 FL, MT-B-O2 FL OC, MT-AB-TR M12 and MT-AB-TR M12 OC.

MT-B-L, MT-B-L FL, MT-B-L OC and MT-B-L FL OC connectors are made of zinc coated steel. The base connectors have two leg angle of equal length, arranged at an angle of 90° between each other. One opening is located centrally on each leg angle. The FL extension indicates that these baseplates are already pre-assembled with connection elements.

MT-B-T, MT-B-T OC, MT-B-T FL, MT-B-T FL OC, MT-B-T-10, MT-B-T-10 OC, MT-B-T-10 FL and MT-B-T-10 FL OC connectors are made of zinc coated steel. Each connector has a U-shaped profile with two openings on each area. The flanges are at one end extended with one opening on each area and arranged at 90° to the U-shaped profile. The FL extension indicates that these baseplates are already pre-assembled with connection elements.

MT-B-O2, MT-B-O2 FL, MT-B-O2 OC and MT-B-O2 FL OC connectors are made of zinc coated steel. Each connector consists of one profiled base plate with 2 openings on which a U-shaped profile with trapezoidal flanges and two openings on each area is arranged at 90° to the base plate. The FL extension indicates that these baseplates are already pre-assembled with connection elements.

MT-AB-TR M12 and MT-AB-TR M12 OC connectors are made of zinc coated steel. Each connector consists of two U-shaped profiles. Each profile has three openings. The center opening is for accommodating M12 threaded rods for fixation to a sub-structure. The two other openings are to join the two U-shaped profiles with bolts.

The drawings, dimensions and materials of the Hilti base connectors of MT System are given in Annex A.

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

The performances given in clause 3 are only valid if HILTI base connectors of MT System are in compliance with the specifications and conditions given in Annex B.

The provisions made in this European Technical Assessment are based on an assumed working life of the HILTI installation channels of MT System of 50 years when installed in the works (provided that the installation systems products are subject to appropriate installation). The indications given on the working life cannot be interpreted as a guarantee given by the producer or Technical 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.

In accordance with the European Assessment Document EAD 280016-00-0602, the product is intended to be used in

- a) installations for the support of sprinkler kits,
- b) installations for the support of technical building equipment in general,
- c) installations for the support of pipes for the transport of gas/fuel intended for the supply of building heating / cooling systems.
- d) installations for the support of pipes for the transportation of water not intended for human consumption

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

3.1 Safety in case of fire (BWR 2)

No.	Essential characteristic	Type of expression of product performance
1	Reaction to fire	Class A1
2	Resistance under fire exposure	No performance assessed

3.2 Safety and accessibility in use (BWR 4)

No.	Essential characteristic	Type of expression of product performance
3	Characteristic resistance	See Annex D

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

In accordance with the European Assessment Document EAD 280016-00-0602, the following legal bases apply:

- In case of intended use a) specified in Section 2:
Commission Decision N° 1996/577/EC as amended by Commission Decision 2002/592/EC:
The system is 1
- In case of intended use b) specified in Section 2:
Commission Decision N° 1997/161/EC de la Commission:
The system is 2+
- In case of intended use d) specified in Section 2:
Commission Decision N° 1999/472/EC as amended by Commission Decision 2001/596/EC:
The system is 3
- In case of intended use c) specified in Section 2:
Commission Decision N° 1999/472/EC as amended by Commission Decision 2001/596/EC:
The system is 4

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

The technical details necessary for the implementation of the system for the assessment and verification of constancy of performance are laid down in the control plan (confidential part of this European Technical Assessment) deposited at Centre Scientifique et Technique du Bâtiment.

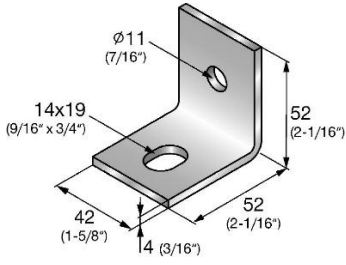
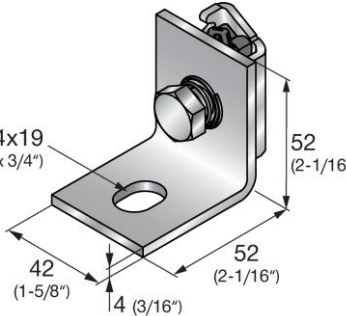
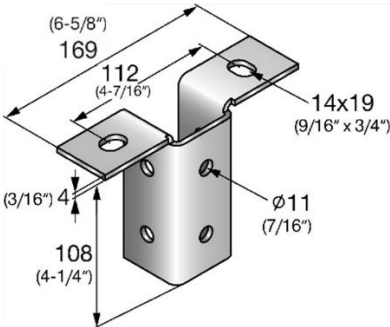
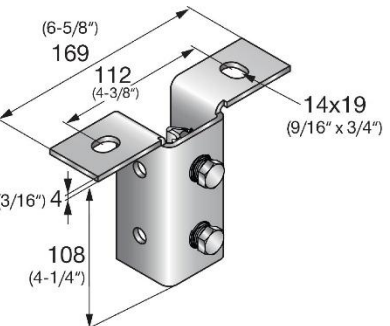
The manufacturer shall, on the basis of a contract, involve a notified body approved in the field of supporting systems for issuing the certificate of conformity CE based on the control plan.

The original French version is signed by

Loïc PAYET

Responsable de la division Structure Maçonnerie et Partition

Table A1: Dimensions and materials of MT-B-L, MT-B-L OC, MT-B-L FL, MT-B-L FL OC, MT-B-T, MT-B-T FL, MT-B-T OC and MT-B-T FL OC

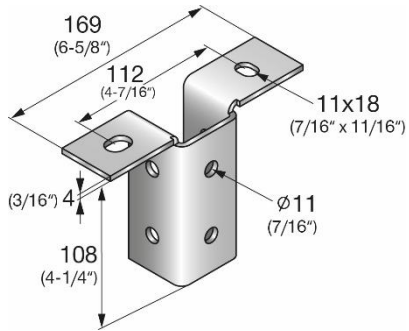
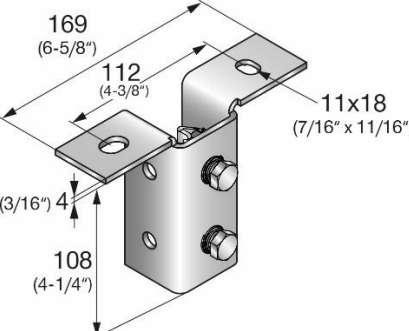
Illustration (Dimensions in mm)	Item number	Designation	Materials and coatings
	2272086	MT-B-L	Q235B acc. to GB/T 700; galvanized
	2272088	MT-B-L OC	Q235B acc. to GB/T 700; hot dip galvanized
	2399665	MT-B-L FL	Q235B acc. to GB/T 700; galvanized
	2399677	MT-B-L FL OC	Q235B acc. to GB/T 700; hot dip galvanized
	2272090	MT-B-T	Q235B acc. to GB/T 700; galvanized
	2272092	MT-B-T OC	Q235B acc. to GB/T 700; hot dip galvanized
	2399639	MT-B-T FL	Q235B acc. to GB/T 700; galvanized
	2399674	MT-B-T FL OC	Q235B acc. to GB/T 700; hot dip galvanized

Hilti MT-30 V2 and MT-40 V2 base connectors

Product description
Shape, dimensions and materials

Annex A1

Table A2: Dimensions and materials of MT-B-T-10, MT-B-T-10 FL, MT-B-T-10 OC and MT-B-T-10 FL OC

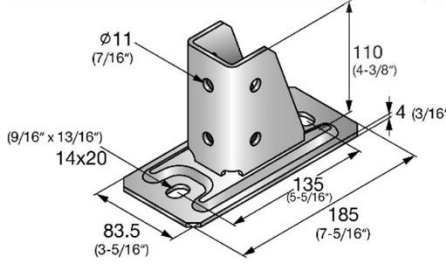
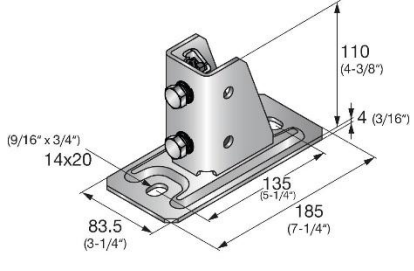
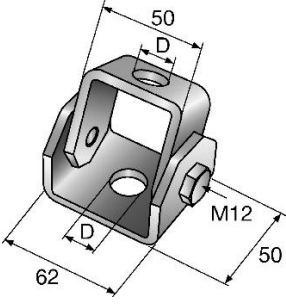
Illustration (Dimensions in mm)	Item number	Designation	Materials and coatings
	2489334	MT-B-T-10	Q235B acc. to GB/T 700; galvanized
	2489335	MT-B-T-10 OC	Q235B acc. to GB/T 700; hot dip galvanized
	2489246	MT-B-T-10 FL	Q235B acc. to GB/T 700; galvanized
	2489640	MT-B-T-10 FL OC	Q235B acc. to GB/T 700; hot dip galvanized

Hilti MT-30 V2 and MT-40 V2 base connectors

Product description
Shape, dimensions and materials

Annex A2

Table A3: Dimensions and materials of MT-B-O2, MT-B-O2 OC, MT-B-O2 FL, MT-B-O2 FL OC and MT-AB-TR M12 OC

Illustration (Dimensions in mm)	Item number	Designation	Materials and coatings
	2272094	MT-B-O2	Q235B acc. to GB/T 700; galvanized
	2272096	MT-B-O2 OC	Q235B acc. to GB/T 700; hot dip galvanized
	2399660	MT-B-O2 FL	Q235B acc. to GB/T 700; galvanized
	2399675	MT-B-O2 FL OC	Q235B acc. to GB/T 700; hot dip galvanized
 D = 12,5 mm	284248	MT-AB-TR M12	S235JR acc. To EN10025-2 or Q235B acc. To GB/T 700 or DD11 MOD acc. To HN547:2004.10 galvanized
	388359	MT-AB-TR M12 OC	S235JR acc. To EN10025-2 or Q235B acc. To GB/T 700 or DD11 MOD acc. To HN547:2004.10 hot dip galvanized

Hilti MT-30 V2 and MT-40 V2 base connectors

Product description
Shape, dimensions and materials

Annex A3

Specifications of intended use

- HILTI base connectors for MT-30 V2, MT-30D V2, MT-40 V2 and MT-40D V2 are used to transfer building services components loads such as ducts and equipment for water, heating, cooling, ventilation, electrical and other systems at ambient temperature. HILTI MT base connectors are suitable for undertaking this load-bearing function under conditions described in Section 2 of this European Technical Assessment.
- The resistance of HILTI base connectors set down in Annex D applies for static actions in the direction of the main axes X, Y, Z in connection with HILTI installation channels and with HILTI connection elements acc. to Annex B4 and B5.
- The MT installation open profile channels can be cut along the entire length following the manufacturers instructions without compromising the declared performances.
- For the connection elements MT-TL M10 and MT-FL acc. to annex B4 and B5 a torque of 30 Nm applies.
- For the connection elements MT-TL M10 OC and MT-FL OC acc. to annex B4 and B5 a torque of 40 Nm applies.
- The required torques may be applied with suitable electrical or non-electrical devices.
- Products differing in their designation only by the letters "OC" are interchangeable.
- The base connectors must be fixed to the base material with suitable fasteners through the openings provided for this purpose.
- The base connectors must be installed by appropriately qualified personnel and under the supervision of the site manager. The installation instruction of the manufacturer applies. The fastening of the base connector to the base material is made with appropriate anchors. The anchors used must be suitable for the intended purpose and the base material.
- Prior to installation, it must be ensured that the supported component, the anchoring of the threaded rod to the base material and the base material itself are suitable to withstand the resistance values of the installation system and that they have a fireproof certificate.

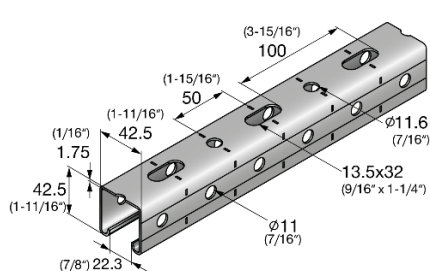
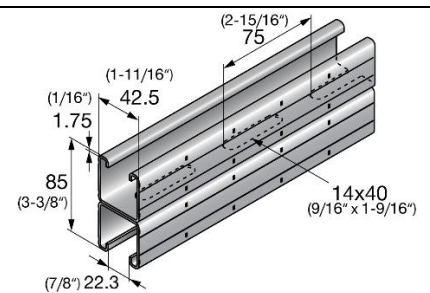
Hilti MT-30 V2 and MT-40 V2 base connectors

Intended use

Requirements for performance assessment

Annex B1

Table B1: Dimensions and materials of Hilti MT-40 V2 S, MT-40 V2, MT-40 V2 S OC, MT-40 V2 OC, MT-40D V2 S, MT-40D V2, MT-40D V2 S OC and MT-40D V2 OC installation channels

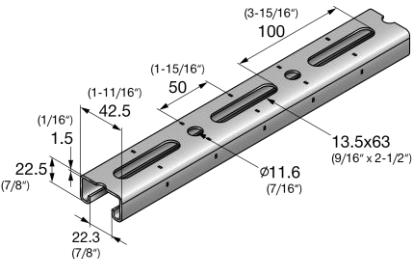
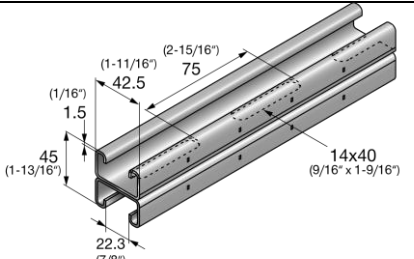
Illustration (Dimensions in mm and inch)	Item number	Designation	Length [m]	Materials and coatings
	2465567	MT-40 V2 S	3	S280GD or equivalent as defined in HN704 + Z275-M-A-C acc. to EN 10346
	2465581	MT-40 V2	6	
	2465568	MT-40 V2 S OC	3	S280GD or equivalent as defined in HN704 + ZM310-A-C acc. to EN 10346
	2465569	MT-40 V2 OC	6	
 Two profiles of MT-40 V2 channel are connected in the area of the holes in the back of the channels in a shape-fitting and force-fitting way as a kind of riveted connection.	2465577	MT-40D V2 S	3	S280GD or equivalent as defined in HN704 + Z275-M-A-C acc. to EN 10346
	2465791	MT-40D V2	6	
	2465792	MT-40D V2 S OC	3	S280GD or equivalent as defined in HN704 + ZM310-A-C acc. to EN 10346
	2465578	MT-40D V2 OC	6	

Hilti MT-30 V2 and MT-40 V2 base connectors

Intended use
Requirements for performance assessment

Annex B2

Table B2: Dimensions and materials of Hilti MT-30 V2 S, MT-30 V2, MT-30 V2 S OC, MT-30 V2 OC, MT-30D V2 S, MT-30D V2, MT-30D V2 S OC and MT-30D V2 OC installation channels

Illustration (Dimensions in mm and inch)	Item number	Designation	Length [m]	Materials and coatings
	2465592	MT-30 V2 S	3	S280GD or equivalent as defined in HN704 + Z275-M-A-C acc. to EN 10346
	2465565	MT-30 V2	6	
	2465593	MT-30 V2 S OC	3	S280GD or equivalent as defined in HN704 + ZM310-A-C acc. to EN 10346
	2465566	MT-30 V2 OC	6	
 Two profiles of MT-30 V2 channel are connected in the area of the holes in the back of the channels in a shape-fitting and force-fitting way as a kind of riveted connection.	2465558	MT-30D V2 S	3	S280GD or equivalent as defined in HN704 + Z275-M-A-C acc. to EN 10346
	2465790	MT-30D V2	6	
	2465582	MT-30D V2 S OC	3	S280GD or equivalent as defined in HN704 + ZM310-A-C acc. to EN 10346
	2465583	MT-30D V2 OC	6	

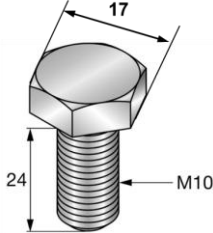
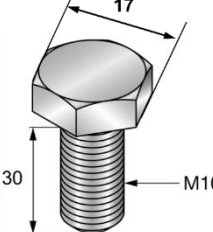
Hilti MT-30 V2 and MT-40 V2 base connectors

Intended use

Requirements for performance assessment

Annex B3

Table B3: Dimensions and materials of Hilti MT-TL M10, MT-TL M10 OC, MT-TFB OC, MT-TLB, MT-TLB OC, MT-TLB 30 and MT-TLB 30 OC connection elements

Item number	Designation	Materials and coatings	Illustration (Dimensions in mm)
2272080	MT-TL M10	Steel part: S460MC acc. to EN10149-2 or equivalent as defined in HN709 zinc coated Plastic part: Polyamid	
2272082	MT-TL M10 OC	Steel part: S460MC acc. to EN10149-2 or equivalent as defined in HN709 zinc coated with organic topcoat Plastic part: Polyamid	
2273254	MT-TLB	strength class 8.8 acc. to EN ISO 898-1, zinc coated	
2273256	MT-TLB OC	strength class 8.8 acc. to EN ISO 898-1, zinc coated with organic topcoat	
2282190	MT-TLB 30	strength class 8.8 acc. to EN ISO 898-1, zinc coated	
2282191	MT-TLB 30 OC	strength class 8.8 acc. to EN ISO 898-1, zinc coated with organic topcoat	

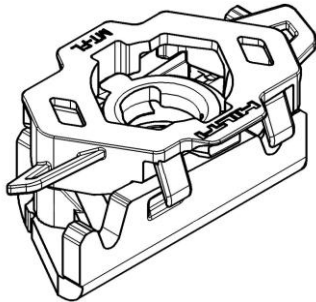
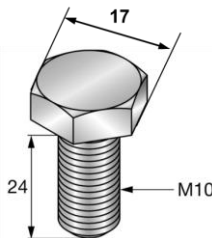
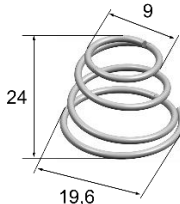
Hilti MT-30 V2 and MT-40 V2 base connectors

Intended use

Requirements for performance assessment

Annex B4

Table B4: Dimensions and material of Hilti MT-FL and MT-FL OC connection elements

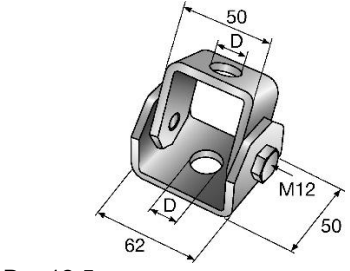
Item number	Designation	Materials and coatings	Illustration (Dimensions in mm)
2399683	MT-FL	Steel part: S460MC acc. to EN10149-2 or equivalent as defined in HN709 zinc coated Plastic part: Polypropylene	
2399682	MT-FL OC	Steel part: S460MC acc. to EN10149-2 or equivalent as defined in HN709 zinc coated with organic topcoat Plastic part: Polypropylene	
Additional components of MT-FL and MT-FL OC			
-	MT-FL	strength class 8.8 acc. to EN ISO 898-1, zinc coated	
-	MT-FL OC	strength class 8.8 acc. to EN ISO 898-1, zinc coated with organic topcoat	
-	MT-FL	1.4310 acc. to EN 10151	
-	MT-FL OC		

Hilti MT-30 V2 and MT-40 V2 base connectors

Intended use
Requirements for performance assessment

Annex B5

Table C1: Essential characteristics of Hilti MT-AB-TR M12 and MT-AB TR M12 OC base connectors

System specific configuration	Base connector	Essential characteristics	Class
 D = 12,5 mm	MT-AB-TR M12	Reaction to fire	A1
	MT-AB-TR M12 OC		

Hilti MT-30 V2 and MT-40 V2 base connectors

Essential characteristics

Annex C1

Table D1: Characteristic resistances for system specific configuration and loading directions of MT-B-L, MT-B-L FL, MT-B-L OC and MT-B-L FL OC with channels and connection elements

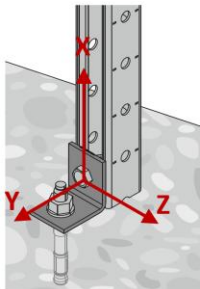
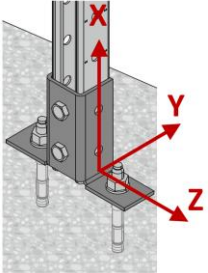
System specific configuration		Base connector (all coatings)		Installation channel (all lengths and coatings)		Connection element	
		MT-B-L MT-B-L FL *		MT-40 V2 MT-40D V2 MT-30 V2 MT-30D V2		MT-TL M10 or MT FL * no additional connection elements required for pre- assembled items	
Channel specific characteristic resistances in kN							
Installation channel	+ F _{x,Rk}	- F _{x,Rk}	+ F _{y,Rk}	- F _{y,Rk}	+ F _{z,Rk}	- F _{z,Rk}	
MT-40 V2	5,65	NPA	NPA	NPA	NPA	NPA	
MT-30 V2	5,00	NPA	NPA	NPA	NPA	NPA	
MT-40D V2 MT-30D V2	NPA	NPA	NPA	NPA	NPA	NPA	

Table D2: Characteristic resistances for system specific configuration and loading directions of MT-B-T, MT-B-T FL, MT-B-T OC, MT-B-T FL OC, MT-B-T-10, MT-B-T-10 OC, MT-B-T-10 FL and MT-B-T-10 FL OC with channels and connection elements

System specific configuration		Base connector (all coatings)		Installation channel (all lengths and coatings)		Connection element	
		MT-B-T MT-B-T FL* MT-B-T-10 MT-B-T-10 FL*		MT-40 V2 MT-40D V2 MT-30 V2 MT-30D V2		MT-TL M10 or MT FL * no additional connection elements required for pre- assembled items	
Channel specific characteristic resistances in kN							
Installation channel	+ F _{x,Rk}	- F _{x,Rk}	+ F _{y,Rk}	- F _{y,Rk}	+ F _{z,Rk}	- F _{z,Rk}	
MT-40 V2	10,77	NPA	NPA	NPA	NPA	NPA	
MT-30 V2	10,32	NPA	NPA	NPA	NPA	NPA	
MT-40D V2 MT-30D V2	NPA	NPA	NPA	NPA	NPA	NPA	

Hilti MT-30 V2 and MT-40 V2 base connectors

Characteristic resistance of system specific configurations

Annex D1

Table D3: Characteristic resistances for system specific configuration and loading directions of MT-B-T, MT-B-T-10, MT-B-T OC and MT-B-T-10 OC with channels and connection elements

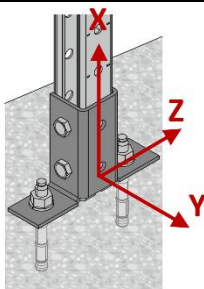
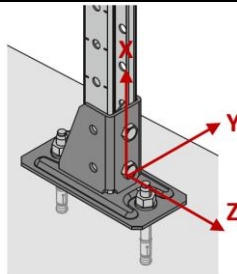
System specific configuration		Base connector (all coatings)	Installation channel (all lengths and coatings)	Connection element		
		MT-B-T MT-B-T-10	MT-40 V2 MT-30 V2	MT-TL M10 or MT FL		
Characteristic resistances in kN						
Installation channel	+ F _{x,Rk}	- F _{x,Rk}	+ F _{y,Rk}	- F _{y,Rk}	+ F _{z,Rk}	- F _{z,Rk}
MT-40 V2	11,20	NPA	NPA	NPA	NPA	NPA
MT-30 V2	10,24	NPA	NPA	NPA	NPA	NPA

Table D4: Characteristic resistances for system specific configuration and loading directions of MT-B-O2, MT-B-O2 FL, MT-B-O2 OC and MT-B-O2 FL OC with channels and connection elements

System specific configuration		Base connector (all coatings)		Installation channel (all lengths and coatings)		Connection element	
		MT-B-O2 MT-B-O2 FL*		MT-40 V2 MT-30 V2		MT-TL M10 or MT FL * no additional connection elements required for pre- assembled items	
Characteristic resistances in kN							
Installation channel	+ F _{x,Rk}	- F _{x,Rk}	+ F _{y,Rk}	- F _{y,Rk}	+ F _{z,Rk}	- F _{z,Rk}	
MT-40 V2	14,39	NPA	NPA	NPA	NPA	NPA	
MT-30 V2	NPA	NPA	NPA	NPA	NPA	NPA	

Hilti MT-30 V2 and MT-40 V2 base connectors

Characteristic resistance of system specific configurations

Annex D2

Designation

$F_{x,R}$ Resistance in direction of local x-Axis
 $F_{y,R}$ Resistance in direction of local y-Axis
 $F_{z,R}$ Resistance in direction of local z-Axis

All characteristic resistances for ambient temperatures do not consider deflections,
Partial safety factor for design resistance is $\gamma_M = F_{Rk} / F_{Rd}$ or $\gamma_M = M_{Rk} / M_{Rd}$,
For design resistances the manufacturer's specifications and national regulations must be observed

Hilti MT-30 V2 and MT-40 V2 base connectors	Annex D3
Characteristic resistance of system specific configurations	