W-FRA 10

FRAME FIXING W-FRA 10

W-FRA H 10 with hexagon screw and pressed-on washer

Benefits:

- Can be loaded immediately – no waiting time
- Very strong twist lock
- Universal frame-fixing anchor (concrete, masonry of perforated and solid brick, aerated concrete)
- The anchor sleeve and special screw are pre-assembled. Reduces installation efforts.

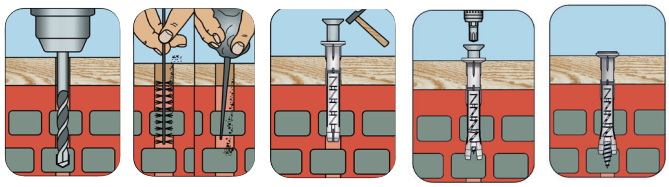
Applications:

The attachment of facade, ceiling, or roof substructures (made of wood or steel), wood beams, wood laths, metal brackets, metal rails, suspended ceilings, cable routes, angle brackets, profiles, wall-mounted cabinets, shelf units

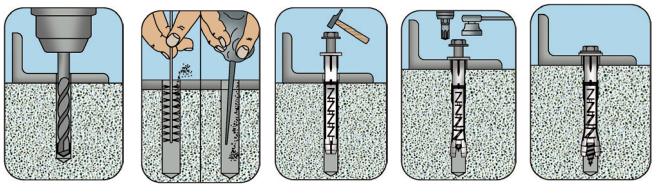
Approvals and Certificates:

Technical Data:	
Head configuration	Hexagon, Countersunk and Pan Head
Environmental conditions	Indoor, Outdoor
Material composition	Steel, galvanized / A4 stainless steel
Type of fastening	Through fastening
Suitable for	Multiple attachment of non-structural systems in concrete and masonry

Installation: Setting Instruction I



Setting Instruction II



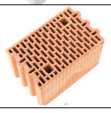
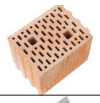
W-FRA 10

EUROPEAN TECHNICAL APPROVAL
ETA-12/0272

ETAG 020
A B C D

According to the technical report TR 020 "Fire resistance evaluation of concrete anchoring", it can be stated that for the purpose of fixing facade systems, W-FRA 10 fixings have sufficient fire resistance of at least 90 minutes (R90) if the design load per one anchor is N ≤ 0,8 KN
(with no permanent centric loading)

Load characteristics for masonry and concrete:

Substrate	Description	Density (kg/dm³)	Standard	Characteristics pull-out resistance (kN)
	Concrete C12/15	≥ 1,8	EN 206-1	3,0*
	Concrete ≥ C20/25	≥ 2,3	EN 206-1	4,0*
	Clay brick **Mz**	≥ 1,7	EN 771-1	3,5
	Clay brick **Mz**	≥ 2,0	EN 771-1	3,5
	Calcium silicate brick **KS**-NF-20-2.0-DIN106	≥ 2,0	EN 771-2	3,5
	Calcium silicate hollow block **KSL**-R(P)-8-DF-DIN106	≥ 1,6	EN 771-2	2,5
	Vertical perforated porous block **Porotherm** 25 P+W	≥ 0,8	EN 771-1	1,2
	Vertical perforated ceramic block **MAX 250**	≥ 0,8	EN 771-1	0,9
	Perforated ceramic brick **Hlz12**	≥ 1,2	EN 771-1	2,0
	**VBL 2**	≥ 0,8	EN 771-2	2,0
	**HBL 2**	≥ 0,8	EN 771-2	2,0
	Autoclaved aerated concrete **AAC2**	≥ 0,35	EN 771-4	0,6
	Autoclaved aerated concrete **AAC7**	≥ 0,65	EN 771-4	1,5

W-FRA 10

Article Description	Art. No. Hot Dipped Galv.	Art. No.	Anchor length	Fixture thickness for h_{nom}=70mm	Drive	Wrench Size	Drill hole dia.	Drill hole depth	PU
			l	t_{fix}		SW	d_0		
			mm	mm			mm	mm	Qty.
Frame fixing W-FRA H 10 with hexagon screw + pressed-on washer	**0912 910 801**		80	10	TX© 40	13	10	80	50 (A4:25)
	0912 910 802		100	30					50 (A4:25)
	0912 910 803		120	50					50
	0912 910 804		140	70					50
	0912 910 805		160	90					50

Substrate	Minimum edge distance c (mm)	Min member thickness h (mm)
Concrete C20/25	60	100
Clay brick,	100	120
Calcium silicate brick	100	120
Hollow masonry	100	250
AAC	100	250