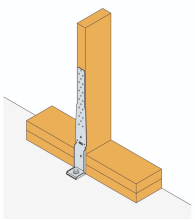
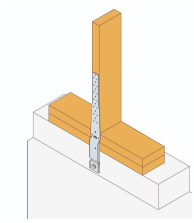
Technical Sheet

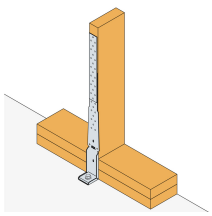
MAH
Multi-purpose stud anchors

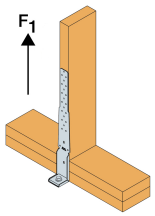
The MAH485/2 stud anchor and its washer are recommended for reinforcing wood-frame walls subject to uplift forces.
This towing anchor can be used in a variety of applications.
The fitting must always be used with the included US50/50/8G washers.











Features

Matière

- MAH485/2: S250GD steel with Z275 galvanization in accordance with NF EN 10346 (thickness: 2 mm),
- US50/50/8G washer (included): S235JR steel with hot-dip galvanized finish (thickness: 8 mm).

Avantages

- Narrow-width anchor suitable for 45 mm studs,
- Its dual configuration (foldable on-site) allows it to securely anchor the wood-frame wall to a parapet or concrete slab (recommended in seismic zones),
- Reinforces the connection between the stud and the bottom rail and prevents lifting,
- Washer included and pre-mounted on the bracket.

Applications

Support

- Frame: timber , concrete,
- Structure: timber.

For use with

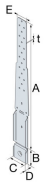
- Timber studs

Technical Sheet

MAH
Multi-purpose stud anchors

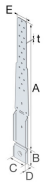
Dati tecnici

Dimensions



Riferimento	connettore dimensioni									
	Post[mm]	dimensioni del prodotto[mm]						trave	flangia B	altro
	larghezza Min	A[mm]	B[mm]	C[mm]	D[mm]	E[mm]	t[mm]	rotondo Ø5	rotondo Ø18	peso[kg]
MAH485/2	45	484	53	55	12	40	2	23	1	0.45

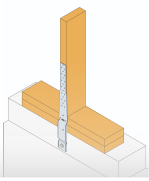
Characteristic capacities - timber to rigid support - Minimum nailing

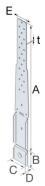


Characteristic capacities - timber to rigid support - Minimum nailing
See full table online ➡️

Riferimento											
	num								zo - Partial nailing		
	flangia								es - legno C24[kN]		
	quantità								CNA4.0x35		
MAH485/2	1.0	Ø16	7.0	CNA	min(8.7;24.6/kmod)	min(9.6;24.6/kmod)	min(11.6;24.6/kmod)	min(12.3;24.6/kmod)	min(8.7;18.7/kmod)	min	

Characteristic capcities - Timber to rigid support - Maximum nailing





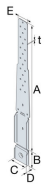
Characteristic capcities - Timber to rigid support - Maximum nailing
See full table online ➡️

Riferimento											
									truzzo - Full nailing		
									R1,k - Folded		
	CNA								A4.0x40		CNA
MAH485/2	min(22.1;18.7/kmod)	min(24.3;18.7/kmod)	min(29.5;18.7/kmod)	min(31.4;18.7/kmod)	min(22.1;24.6/kmod)	min(24.3;24.6/kmod)	min(29.5				

Technical Sheet

MAH
Multi-purpose stud anchors

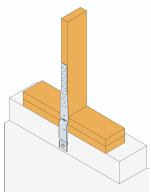
Simplified characteristic capacities - Timber to rigid support - Minimum nailing

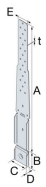


Riferimento	Holdowns capacità											
	prodotto characteristic capacities - legno to calcestruzzo - Partial nailing											
	numero of Fasteners				Simplified characteristic capacities - legno C24[kN]							
	flangia B		trave		R1,k - Flat				R1,k - Folded			
	quantità	tipo	quantità	tipo	CNA4.0x35	CNA4.0x40	CNA4.0x50	CNA4.0x60	CNA4.0x35	CNA4.0x40	CNA4.0x50	CNA4.0x60
MAH485/2	1.0	Ø16	7.0	CNA	8.7	9.6	11.6	12.3	8.7	9.6	11.6	12.3
MAH485/2 (Flat)	-	-	-	-	-	-	-	-	-	-	-	-
MAH485/2 (Folded)	-	-	-	-	-	-	-	-	-	-	-	-

The published characteristic values are based on an instantaneous load duration and service class 2, in accordance with EC5 (EN 1995) – kmod = 1.1. For different load durations and service classes, refer to the general “Characteristic Values” table, in which the kmod coefficient can be adjusted.

Simplified characteristic capacities - Timber to rigid support - Maximum nailing





Riferimento	Holdowns capacità											
	prodotto characteristic capacities - legno to calcestruzzo - Full nailing											
	numero of Fasteners				Simplified characteristic capacities - legno C24[kN]							
	flangia B		trave		R1,k - Flat				R1,k - Folded			
	quantità	tipo	quantità	tipo	CNA4.0x35	CNA4.0x40	CNA4.0x50	CNA4.0x60	CNA4.0x35	CNA4.0x40	CNA4.0x50	CNA4.0x60
MAH485/2	1.0	Ø16	21.0	CNA	17	17	17	17	22.1	22.4	22.4	22.4
MAH485/2 (Flat)	-	-	-	-	-	-	-	-	-	-	-	-
MAH485/2 (Folded)	-	-	-	-	-	-	-	-	-	-	-	-

Les valeurs caractéristiques publiées sont basées sur une durée de charge intantanée et une classe de service 2, selon l'EC5 (EN 1995) - kmod = 1,1. Pour des durées de charge et des classes de service différentes, se réferer au tableau "Valeurs Caractéristiques" général, dans lequel le coefficient kmod peut être ajusté.r.

Installazione tipica

Fixations

On concrete:
The US50/50/8G washer is supplied with the MAH485/2 anchor.

- Mechanical anchor Option 7: FM 753 EVO M16x151 stud
- Mechanical anchor Option 1: FM-753 CRACK M16x150 stud
- Chemical anchor Option 1: AT-HP resin + LMAS M16-170/20 threaded rod

On Timber :

- Ring nails: CNA Ø4.0x35 or CNA Ø4.0x50 (the number of nails to use depends on the application).

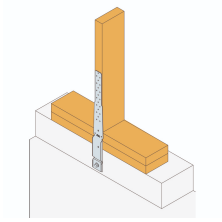
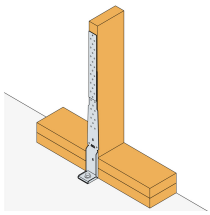
Installation

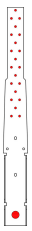
- Use only the fasteners specified for each configuration, strictly adhering to the edge distances.
- Regardless of the configuration, the US50/50/8G washer (supplied) must be used to ensure the loads specified in the table below.

Installation with strap:

- The MAH485/2 is compatible with the FP40/2 and FP60/2 perforated straps, subject to the following condition: the maximum number of fasteners on the FP strap section alone must equal the number of fasteners on the MAH + FP section.
- Refer to the nailing diagrams and technical specifications in ETE-07/0285

RECOMMENDED USE:
The use of the MAH anchor + US50/50/8G washer is recommended at the end of each wood-frame wall, at stud spacers, and adjacent to each opening. This recommendation does not replace a verification performed by a competent engineering firm.





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