

MBS | MBZ

SELF-TAPPING SCREW FOR MASONRY

TIMBER AND PVC DOORS/WINDOWS

The countersunk head (MBS) allows PVC window frames to be installed without damaging the frame. The cylindrical head (MBZ) is able to penetrate and remain embedded in timber frames.

IFT CERTIFICATION

Strength values in different substrates tested in cooperation with the Institute for Window Technology (IFT) in Rosenheim.

HI-LOW THREADING

The HI-LOW thread allows for safe fastening even near the edges of the support, thanks to the reduced tension induced on the material, ideal for frames.



MBS



MBZ



DIAMETER [in]

0.24 ☐ 0.30 ☐ 0.63

LENGTH [in]

2 1/16 ☐ 2 1/8 ☒ 9 19/32 ☐ 15 3/4

EXPOSURE CONDITION

EC1 ☐ or ☒ WET

ATMOSPHERIC CORROSIVITY

C1 ☐ C2 ☒

WOOD CORROSIVITY

T1 ☐ T2 ☒

MATERIAL

Zn
ELECTRO
PLATED

electrogalvanized carbon steel



FIELDS OF USE

Fastening of timber (MBZ) and PVC (MBS) window frames on the following supports:

- solid and perforated brick
- solid and perforated concrete
- light concrete
- autoclaved aerated concrete

CODES AND DIMENSIONS

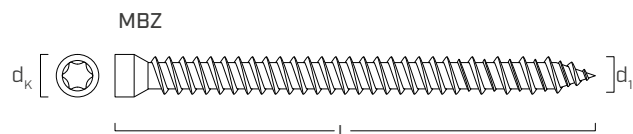
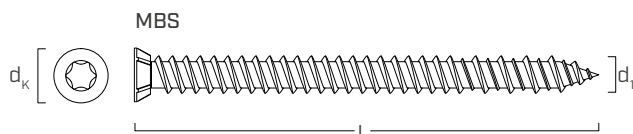
MBS - countersunk screw

d ₁ [mm] [in]	CODE	L [mm] [in]	pcs	
7,5 0.30 TX 30	MBS7552	52	2 1/16	100
	MBS7572	72	2 13/16	100
	MBS7592	92	3 5/8	100
	MBS75112	112	4 7/16	100
	MBS75132	132	5 3/16	100
	MBS75152	152	6	100
	MBS75182	182	7 3/16	100
	MBS75212	212	8 3/8	100
	MBS75242	242	9 1/2	100

MBZ - cylindrical head

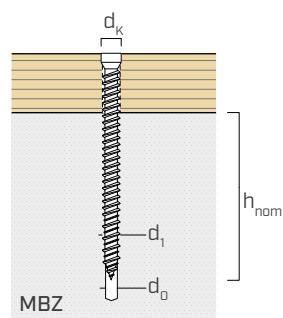
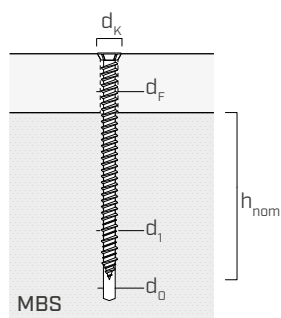
d ₁ [mm] [in]	CODE	L [mm] [in]	pcs	
7,5 0.30 TX 30	MBZ7552	52	2 1/16	100
	MBZ7572	72	2 13/16	100
	MBZ7592	92	3 5/8	100
	MBZ75112	112	4 7/16	100
	MBZ75132	132	5 3/16	100
	MBZ75152	152	6	100
	MBZ75182	182	7 3/16	100
	MBZ75212	212	8 3/8	100
	MBZ75242	242	9 1/2	100

GEOMETRY AND PARAMETERS OF INSTALLATION



Nominal diameter	d_1	[in] ⁽¹⁾	MBS	MBZ
			0.30	0.30
Outer thread diameter	d_1	[mm]	7,5	7,5
		[in]	0.295	0.295
Head diameter	d_k	[in]	0.427	0.331
Pre-drilling hole diameter ⁽²⁾	d_0	[in]	0.236	0.236
Pre-drilling hole diameter in the timber element	d_v	[in]	0.244	0.244
Hole diameter in the PVC element	d_F	[in]	19/64	-

⁽¹⁾The nominal diameter of the screw is converted into imperial units and rounded up to the nearest decimal point.



d_1 screw diameter
 d_k head diameter
 d_0 diameter of pre-drilling hole concrete/brickwork
 d_v pre-drilling hole diameter in the timber element
 d_F hole diameter in the PVC element
 h_{nom} nominal anchoring depth

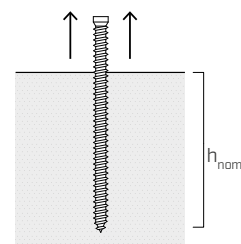
STRUCTURAL VALUES

WITHDRAWAL RESISTANCE

Type of support	$h_{nom,min}$ [in]	$N_{rec}^{(1)}$ [kN]
Concrete ⁽¹⁾	1 3/16	200,08
Solid brick	1 9/16	146,13
	3 1/8	265,27
Hollow brick	1 9/16	26,98
	2 3/8	53,95
Light concrete	3 1/8	38,22
Autoclaved aerated concrete	3 1/8	24,73

⁽¹⁾The recommended withdrawal values are obtained considering a safety coefficient of 3.

⁽²⁾Concrete C20/25.



INSTALLATION

