

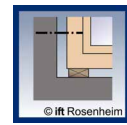


d<sub>1</sub>  
SBM



d<sub>1</sub>  
ZBM

# SBM | ZBM



## SELF-TAPPING SCREW FOR MASONRY

- Appropriate for direct fastening on compact and semi-solid materials: natural stone, concrete, solid bricks and hollow bricks
- The countersunk head (SBM) allows PVC window frames to be installed without damaging the frame
- The cylindrical head (ZBM) is able to penetrate and remain embedded in timber frames
- Strength values in different substrates tested in cooperation with the Institute for Window Technology (IFT) in Rosenheim
- The HI-LOW thread allows secure fastening even close to the edges of the support



ENVIRONMENT



MATERIAL



### SBM

countersunk screw

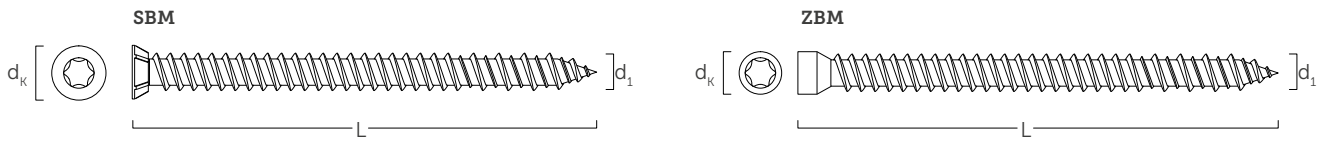
d <sub>1</sub> [mm] [in]	d <sub>k</sub> [mm] [in]	CODE	L		pcs
			[mm]	[in]	
7,5 0,30 TX 30	10,85 0,427	MBS7552	52	2 1/16	100
		MBS7572	75	2 15/16	100
		MBS7592	92	3 5/8	100
		SBM75112	112	4 7/16	100
		SBM75132	132	5 3/16	100
		SBM75152	152	6	100
		SBM75182	182	7 3/16	100
		MBS75212	212	8 3/8	100
		MBS75242	242	9 1/2	100

### ZBM

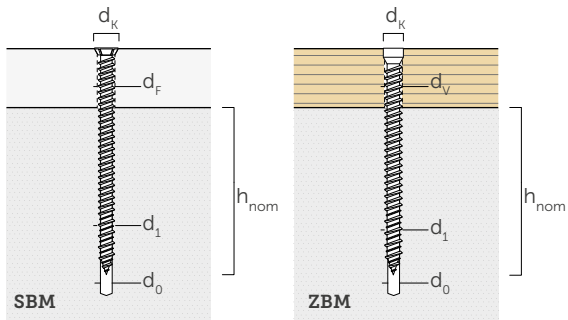
cylindrical head screw

d <sub>1</sub> [mm] [in]	d <sub>k</sub> [mm] [in]	CODE	L		pcs
			[mm]	[in]	
7,5 0,30 TX 30	8,4 0,331	MBZ7552	52	2 1/16	100
		MBZ7572	75	2 15/16	100
		MBZ7592	92	3 5/8	100
		ZBM75112	112	4 7/16	100
		ZBM75132	132	5 3/16	100
		ZBM75152	152	6	100
		ZBM75182	182	7 3/16	100
		MBZ75212	212	8 3/8	100
		MBZ75242	242	9 1/2	100

## GEOMETRY

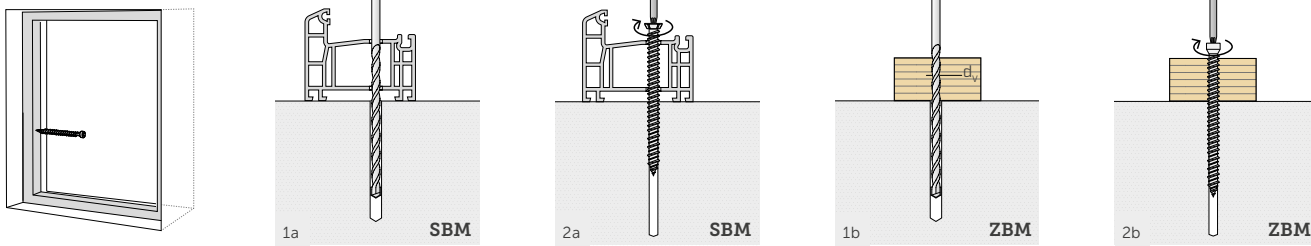


			SBM	ZBM
<b>nominal diameter</b>	<b>d<sub>1</sub></b>	<b>[mm]</b>	<b>7,5</b>	<b>7,5</b>
head diameter	d <sub>k</sub>	[mm]	10,85	8,4
diameter of pre-drilling hole concrete/brickwork	d <sub>0</sub>	[mm]	6,0	6,0
pre-drilling hole diameter in the timber element	d <sub>v</sub>	[mm]	6,2	6,2
hole diameter in the PVC element	d <sub>F</sub>	[mm]	7,5	-



- d<sub>1</sub>** screw diameter
- d<sub>k</sub>** head diameter
- d<sub>0</sub>** diameter of pre-drilling hole concrete/brickwork
- d<sub>v</sub>** pre-drilling hole diameter in the timber element
- d<sub>F</sub>** hole diameter in the PVC element
- h<sub>nom</sub>** nominal anchoring depth

## INSTALLATION



## STRUCTURAL VALUES

### BRICKS

		pull-out	compression	shear	shear with lever arm <sup>(1)</sup>
<b>type of support</b>	<b>h<sub>nom,min</sub></b> [mm]	<b>N<sub>Rk,p</sub></b> [kN]	<b>N<sub>Rk</sub></b> [kN]	<b>V<sub>Rk</sub></b> [kN]	<b>V<sub>Rk,b</sub></b> [kN]
Solid brick	40	0,31	9,02	2,93	2,14
Hollow brick	60	-( <sup>2</sup> )	0,13	1,33	0,57

Characteristic values tested at IFT ROSENHEIM®.

<sup>(1)</sup>The screws were tested considering a lever arm of b = 20 mm.

<sup>(2)</sup>Value not available.

### CONCRETE

<b>type of support</b>	<b>h<sub>nom,min</sub></b> [mm]	<b>N<sub>Rk,p</sub></b> [kN]
C20/25 grade concrete	30	0,89
Lightweight concrete	80	0,17
Autoclaved aerated concrete	80	0,11

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