

# WALRAVEN



## \*WM\* TSM<sup>®</sup> CONCRETE SCREWS

### SCREWS DIRECTLY INTO CONCRETE WITHOUT PLUG!

- Saves time and materials
- Fire proof fixing



Suitable for the fixing of:

- Pipes
- Air Ducting
- Rail
- Cantilever arms
- Steel constructions
- Suspended ceilings



- Simple and quick to assemble
- No plug required
- Withstands fire for 120 minutes
- Proof against dynamic loads
- Suitable for cracked and non-cracked concrete, sand-lime bricks, clinker, brick, natural stone, etc.
- Smaller drilling holes: diameter of screw = diameter of drill

Assemble in 3 simple steps:



Drill hole



Insert screw



Finished!



[www.walraven.com](http://www.walraven.com)

## BETTER INSTALLATION SYSTEMS



### Technical characteristics

- Made of steel (1.5523) according to DIN 1654-4
- Zinc plated, yellow passivated
- Approved by German Institut of Building Technik (certificate number Z-21.1-1624)



TSM B8  
TSM B10



TSM B5  
TSM B6



F 120

TSM B5, B6, B8 und B10

Type	Domed headed with Torx 30
Size	B6 x 60 mm
Part.nr.	625 3 006
Qty.	100
Application	rail, cantilever arms, wall plates.



Type	M8 Male thread with hexagon collar AF10
Size	B6 x 55 mm
Part.nr.	625 3 106
Qty.	100
Application	'light duty' pipe fixing.



Type	Countersunk head with Torx 30
Size	B6 x 80 mm
Part.nr.	625 3 208
Qty.	100
Application	fixing of wood.



Type	Hexagon headed AF13
Size	B6 x 60 mm
Part.nr.	625 3 306
Qty.	100
Application	rail, cantilever arms, wall plates.



Type	Hexagon headed AF18
Size	B10 x 90 mm
Part.nr.	625 3 509
Qty.	50
Application	'heavy duty' fixing, like machines, alternative for chemical anchors.



Type	Hexagon headed AF13 with Torx 40 and collar
Size	B8 x 80 mm
Part.nr.	625 3 408
Qty.	50
Application	fixing of installations, ceilings and machines.



Type	M8/M10 socket (Hexagon connector AF13)
Size	B6 x 55 mm
Part.nr.	625 3 606
Qty.	50
Application	'light duty' pipe fixing.



Technical data	B6	B8	B10
Diameter drilling hole	6 mm	8 mm	10 mm
Min. thickness of concrete	110 mm	135 mm	145 mm
Max. load strength class B25	0,8 kN	1,5/5,3 kN*	2,5/6,7 kN*
Max. load strength class B35	0,8 kN	1,8/6,6 kN*	3,0/7,0 kN*
Max. load strength class B45	0,8 kN	2,0/7,1 kN*	3,4/8,9 kN*
Max. load strength class B55	0,8 kN	2,2/7,8 kN*	3,7/10,0 kN*
Max. bearing capacity fire class F90	0,5 kN	0,8 kN	1,0 kN
Max. bearing capacity fire class F120	0,5 kN	0,8 kN	1,0 kN

\* cracked/non-cracked concrete

### Export:

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