



PRODUCT DATASHEET

SELF TAPPING MASONRY SCREW

PRODUCT DETAILS

Purpose:	Fixing timber battens, trunking, track and general components to concrete and masonry substrates
Head style:	Slotted hexagonal
Drive bit:	5/16" hexagonal male socket (with slot)
Point:	Nail (pyramidal)
Coating:	EvoShield® 500Hr NSST resistant (Aluminium/ Zinc flake bound in resin)
Material:	SAE C1022 Carbon steel
Pilot Hole Diameter:	6.5mm

GENERAL PHYSICAL CHARACTERISTICS

SKU	Nominal Dimensions, $d_{nom} \times L_{nom}$ (mm)	Fixture Limitations	
		Min. Thickness, t_{min}	Max. Thickness, t_{max}
MSHH8.0-275-516	8.0 x 275.0	215	230
MSHH8.0-300-516	8.0 x 300.0	240	255
MSHH8.0-325-516	8.0 x 325.0	265	280
MSHH8.0-350-516	8.0 x 350.0	290	350

CHARACTERISTIC WITHDRAWAL RESISTANCE, NRK

CHARACTERISTIC MECHANICAL PROPERTIES

Diameter (mm)	Embedment depth (mm)	C30/35 Concrete (35N/mm²)	Tensile capacity, (F_{ult}, R_k)	8.0mm
8.0	35.0	6,450N	Shear capacity, (V_{ult}, R_k)	36,055N
	45.0	9,000N	Torsional Capacity, (τ_{ult}, R_k)	22,710N

PRODUCT SETTING DETAILS

Substrate Type	Parameter	
All types	Nominal Embedment Depth, h_1 (mm)	35
	Nominal Drill Hole Diameter, d_0 (mm)	6.5
	Clearance Hole Diameter, d_f (mm)	10
Non-Cracked Concrete (> 20 MPa < 80 MPa)	Minimum Member Thickness, h_c (mm)	100
	Minimum Edge Distance, c_{min} (mm)	55
	Minimum Spacing, s_{min} (mm)	55
Cracked Concrete (> 20 MPa < 80 MPa)	Minimum Member Thickness, h_{min} (mm)	100
	Minimum Edge Distance, c_{min} (mm)	55
	Minimum Spacing, s_{min} (mm)	50

NOTE: The results expressed in this document are determined from empirical testing. Specifiers, end-users and other third parties should make their own decision(s) on what safety factors to use relevant to their design(s)/ application(s). This document is provided, strictly: without prejudice, without recourse, without liability, non- assumpti, no assured value, errors and omissions excepted, subject to change without notice and all rights reserved.

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