



PRODUCT DATASHEET

Heavy Duty, Multi-Purpose Roofing Screw

Product Details

Purpose:	Fixing insulation and single ply membrane to steel, timber and concrete
Head style:	Low Profile Dome Head
Thread Form:	Single Thread
Drive bit:	Phillips 3
Drill point:	Spoon Point
Coating:	500 hour Evoshield®
Shank material:	Carbon Steel
Material grade:	AISI C1022
Recommended Drill Speed:	1,500 - 2,500 RPM
Nominal Drill Hole Diameter For Concrete:	5.15mm

Image is a real photograph of the actual product described
Illustrated image is representative of the full range.
Please refer to the corresponding drawing file for 1:1 scale replication per SKU

Heavy Duty, Multi Purpose Roofing Screws - Products for use in steel, timber and concrete

SKU	Nominal Dimensions, dnom x Lnom (mm)	Effective Thread Length, Lthread (mm)
ERS76	6.3 x 76.0	Fully Threaded
ERS100	6.3 x 100.0	90
ERS127	6.3 x 127.0	90
ERS152	6.3 x 152.0	90
ERS176	6.3 x 176.0	90
ERS200	6.3 x 200.0	90
ERS225	6.3 x 225.0	90
ERS250	6.3 x 250.0	90

Ultimate Withdrawal Resistance, N_{Rk} , from S355JR Steel (N)

Diameter	Nominal Substrate Thickness, t_{nom}	
	0.6mm	1.2mm
6.3	2,400 N	4,300 N

Ultimate Mechanical Performance

Property	Magnitude
Tensile Capacity, (F_{ult}, R_k)	18,600 N
Shear Capacity, (V_{ult}, R_k)	7,300N

Ultimate Withdrawal Resistance, N_{Rk} , from C35 Concrete (N)

Diameter	Nominal Embedment	
	25mm	35mm
6.3	8,700 N	13,900 N

Ultimate Withdrawal Resistance, N_{Rk} , from C16 Timber (N)

Diameter	Nominal Embedment	
	25mm	35mm
6.3	7,100 N	10,500 N

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-assumptions, no assured value, errors and omissions excepted, subject to change without notice and all rights reserved.
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