Technical Sheet

FIRKG

Grooved Nail Wood to Wood - Hot Dip Galvanised

Grooved nails are used in most wood to wood nail assemblies due to high strength in shear. FIRK-G has application class 3.







Features

Material

Steel Quality:
C9D or C10D
Corrosion:
Hot-dip galvanized acc. to EN/ISO 1461 with zinc thickness = 55µm

Benefits

- Galvanised steel, zinc thickness = min. 50 µm
- Approx. 25% higher withdrawal strength compared to round nails
- Easy to adjust even if bending has occured during installation

Applications

Suitable On

- Wood to wood

When to use

- truss fixings
- Timber assemblies

Technical Sheet

FIRKG

Grooved Nail Wood to Wood - Hot Dip Galvanised

Technical Data





Dimensions and drill holes

Reference	Fasteners Dimensions									
	Item Code	Other				Product Dimensions[mm]				
		Tun / DB nr.	NOB nr.	Qty per blister	Weight[kg]	d[mm]	l[mm]	dh[mm]	A_h[mm]	ht[mm]
FIRKG2.3X60-2090	75010	-	-	-	0.002	2.3	60	5.4	22.9	0.8
FIRKG3.1X75-920	75011	-	-	-	0.005	3.1	75	7.3	41.9	1
FIRKG3.4X90-645	75012	-	53292256	-	0.008	3.4	90	7.8	47.8	1
FIRKG3.7X100-490	75013	-	53292260	-	0.011	3.8	100	9	63.6	1.1
FIRKG4.3X125-295	75015	-	-	-	0.017	4.3	125	10.2	81.7	1.2
FIRKG5.1X150-180	75017	-	-	-	0.028	5.1	150	12.2	116.9	1.5
FIRKG5.5X180-130	75019	-	-	-	0.038	5.5	180	13.2	136.8	1.7

* not covered by CE marking

Product characteristic properties

Reference	Nail characteristic parameters			
	Characteristic parameters			
	Characteristic Yield Moment My,k[Nm]	Characteristic Withdrawal Parameter fax,k,90°[N/mm²]	Characteristic Head Pull-Through Parameter fhead,k[N/mm²]	Characteristic tensile capacity - $f_{tens,k}$[kN]
FIRKG2.3X60-2090	1721	2.5	8.6	NPD
FIRKG3.1X75-920	4902	2.5	8.6	NPD
FIRKG3.4X90-645	6989	2.5	8.6	NPD
FIRKG3.7X100-490	11163	2.5	8.6	NPD
FIRKG4.3X125-295	11514	2.5	8.6	NPD
FIRKG5.1X150-180	19890	2.5	8.6	NPD
FIRKG5.5X180-130	24876	2.5	8.6	NPD

Refer to relevant ITTR or ETA for more details
NPD: No performance declared

Technical Sheet

FIRKG

Grooved Nail Wood to Wood - Hot Dip Galvanised

Copyright by Simpson Strong-Tie®