

Technical data sheet

SIMPSON**Strong-Tie®**

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 occurred during installation

Applications

Suitable On

- Wood to wood

When to use

- truss fixings
- Timber assemblies



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Dimensions and drill holes



References	Item Code	Tun / DB nr.	NOB nr.	Fasteners dimensions [mm]					Qty/Blister	Weight [kg]
				d	l	d _h	A _h	h _t		
FIRKG2.2x55-1250	75602	-	55837944	2.2	55	-	-	-	-	0.006
FIRKG2.3X60-2090	75010	-	-	2.3	60	5.4	22.9	0.8	-	0.002
FIRKG2.8X90-500	75587	2055941	60076239	2.8	90	6.4	-	-	-	2.6
FIRKG3.1X75-920	75011	-	-	3.1	75	7.3	41.9	1	-	0.005
FIRKG3.4X90-645	75012	-	53292256	3.4	90	7.8	47.8	1	-	0.008
FIRKG3.4X125	75802	-	-		125	7.8	-	-	-	0.011
FIRKG3.7X100-490	75013	-	53292260	3.8	100	9	63.6	1.1	-	0.011
FIRKG4.3X125-295	75015	-	-	4.3	125	10.2	81.7	1.2	-	0.017
FIRKG5.1X150-180	75017	-	-	5.1	150	12.2	116.9	1.5	-	0.028
FIRKG5.5X175	77280	-	60076243	5.5	175	13.2	-	1.7	-	0.038
FIRKG5.5X180-130	75019	-	-		180	13.2	136.8	1.7	-	0.038

* not covered by CE marking

Product characteristic properties

References	Product characteristic properties			
	Characteristic Yield Moment - M _{y,k} [M _{y,k}] [Nmm]	Characteristic withdrawal parameter - f _{ax,k,90°} [f _{ax,k,90°}] [N/mm ²]	Characteristic head pull-through parameter - f _{head,k} [f _{head,k}] [N/mm ²]	Characteristic tensile capacity - f _{tens,k} [f _{tens,k}] [kN]
FIRKG2.2x55-1250	-	2.5	8.6	NPD
FIRKG2.3X60-2090	1721	2.5	8.6	NPD
FIRKG2.8X90-500	-	-	-	-
FIRKG3.1X75-920	4902	2.5	8.6	NPD
FIRKG3.4X90-645	6989	2.5	8.6	NPD
FIRKG3.4X125	-	-	-	-
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
FIRKG5.5X175	24876	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

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