

Firma Hold TIM_{co}

DESIGNED FOR USE IN CORDLESS GAS & PNEUMATIC NAILERS

Offered either with or without fuel cells, FirmaHold collated nails provide a first class solution to a wide range of timber applications.



**Notified Test Laboratory 2389
for EN 14592 Timber Structures -
Dowel Type Fasteners - Requirements**

Dimensions

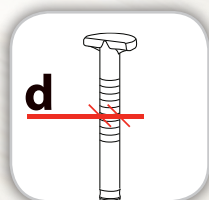
FirmaHold Collated Nails

Description	Nominal Diameter d (mm)	Total Length L (mm)	Thread Length lg (mm)	Head Diameter dh (mm)	Head Area Ah (mm²)	Point Length (mm)	Test Report No. Geometry	Material Standard
RG BR	2.8	50	36	7.5	28.7	3.94	GEOMF1235628X50REG41296	BS EN ISO16120-1
RG FirmaGalv	2.8	50	36	7.5	28.7	3.94		
RG FirmaGalv Plus	2.8	50	36	7.5	28.7	3.94		
RG HDGV	2.8	50	36	7.5	28.7	3.94		
RG Stainless Steel	2.8	50	36	7.5	28.7	3.94		
							GEOMF1235628X50SS41317	
RG BR	2.8	63	43.5	7.5	28.7	3.94	GEOMF1235628X63REG41296	BS EN ISO16120-1
RG FirmaGalv	2.8	63	43.5	7.5	28.7	3.94		
RG FirmaGalv Plus	2.8	63	43.5	7.5	28.7	3.94		
RG HDGV	2.8	63	43.5	7.5	28.7	3.94		
RG Stainless Steel	2.8	63	43.5	7.5	28.7	3.94		
							GEOMF1235628X63SS41317	
RG FirmaGalv Plus	3.1	63	43.5	7.5	30.4	4.33	GEOMF1235631X63REG41296	BS EN ISO16120-1
RG FirmaGalv Plus	3.1	75	55.5	7.5	30.4	4.33		
RG BR	3.1	75	55.5	7.5	30.4	4.33	GEOMF1235631X75REG41295	
RG FirmaGalv	3.1	75	55.5	7.5	30.4	4.33		
RG FirmaGalv Plus	3.1	75	55.5	7.5	30.4	4.33		
RG HDGV	3.1	75	55.5	7.5	30.4	4.33		
ST BR	3.1	90	n/a	7.5	30.4	4.33	GEOMF1235631X90SM41296	BS EN ISO16120-1
ST FirmaGalv	3.1	90	n/a	7.5	30.4	4.33		
ST FirmaGalv Plus	3.1	90	n/a	7.5	30.4	4.33		
PR FirmaGalv Plus	3.1	90	40.7	7.5	30.4	4.33		
ST HDGV	3.1	90	n/a	7.5	30.4	4.33		
							GEOMF1235631X90PRS41296	
							GEOMF1235631X90SM41296	

Performance Declaration

FirmaHold Collated Nails

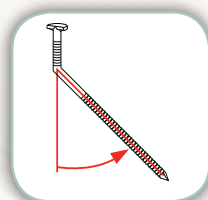
Description	Nominal Diameter d (mm)	Total Length L (mm)	Thread Length lg (mm)	Service Class according to BS EN 1995-1-1:2004	Characteristic Yield Moment M _y (Nmm)	Characteristic Withdrawal parameter f _{ax} (N/mm ²)	Characteristic Head Pull-Through parameter f _{head} (N/mm ²)	Characteristic Tensile Capacity f _{tens} (kN)
RG BR	2.8	50	36	1	5362	11.2	34.3	4.4
RG FirmaGalv	2.8	50	36	1	5362	11.2	34.3	4.4
RG FirmaGalv Plus	2.8	50	36	2	5362	11.2	34.3	4.4
RG HDGV	2.8	50	36	3	3349	10.6	34.3	3.3
RG Stainless Steel	2.8	50	36	3	5625	8.9	36.1	5.8
RG BR	2.8	63	43.5	1	5362	9.0	34.3	4.4
RG FirmaGalv	2.8	63	43.5	1	5362	9.0	34.3	4.4
RG FirmaGalv Plus	2.8	63	43.5	2s	5362	9.0	34.3	4.4
RG HDGV	2.8	63	43.5	3	3349	9.7	34.3	3.3
RG Stainless Steel	2.8	63	43.5	3	5625	9.3	36.1	5.8
RG FirmaGalv Plus	3.1	63	43.5	2	6458	9.0	30.6	6.0
RG FirmaGalv Plus	3.1	75	55.5	2	6458	9.0	30.6	6.0
RG BR	3.1	75	55.5	1	6458	8.9	30.6	6.0
RG FirmaGalv	3.1	75	55.5	1	6458	8.9	30.6	6.0
RG FirmaGalv Plus	3.1	75	55.5	2	6458	8.9	30.6	6.0
RG HDGV	3.1	75	55.5	3	4803	11.2	30.6	5.0
ST BR	3.1	90	n/a	1	6721	7.7	32.9	6.1
ST FirmaGalv	3.1	90	n/a	1	6721	7.7	32.9	6.1
ST FirmaGalv Plus	3.1	90	n/a	2	6721	7.7	32.9	6.1
PR FirmaGalv Plus	3.1	90	40.7	2	6359	9.9	26.9	6.0
ST HDGV	3.1	90	n/a	3	4627	10.2	30.6	4.9



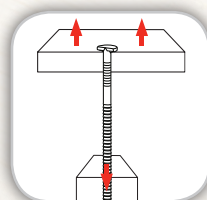
Nominal Diameter



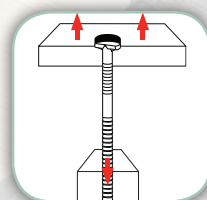
Total Length



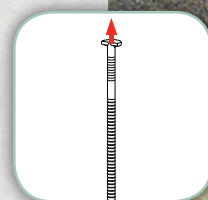
Yield Movement



Withdrawal Parameter



Head Pull-through



Torsional Ratio

FirmaHold Collated Nails**DECLARATION OF PERFORMANCE**

DOP1 v2

We here by declare the following designated products

**FirmaHold Collated Nails
Diameter 2.8mm & 3.1mm.**

Have been tested by the following independant testing organisation:

- Notified Body 2389 (BM Trada) Chilton House, Stocking Lane, Hughenden Valley, High Wycombe, Buckinghamshire HP14 4ND.

And that they have performed initial type testing under system 3, Annex V of the regulation (EU) no. 305/2011 (Construction Products Regulation), with the reference to the harmonised European standard (hEN) BS EN 14592:2008+A1:2012 (Timber structures - Dowel type fasteners - Requirements) for nails intended for the use in "load bearing timber structures" and produced the calculation/test reports as listed below;

Test Report Number:

GEOMF1235628X50REG41296

GEOMF1235631X75REG41295

GEOMF1235628X50SS41317

GEOMF1235631X90SM41296

GEOMF1235628X63REG41296

GEOMF1235631X90PRS41296

GEOMF1235628X63SS41317

GEOMF1235631X90SM41296

GEOMF1235631X63REG41296

Factory Process Control (FPC) has been established by the factory and independently audited in accordance with ISO 9001:2008.

This declaration of conformity is valid until there is a significant change in the product and declared characteristics. ie. raw material or change in production process.

Signed by:

Name: *Simon Midwood*

Position: *Managing Director*

Date: *14.06.2013*

This declaration is the responsibility of the importer

T.I Midwood & Co. Ltd. Green Lane, Wardle, Nantwich, Cheshire, CW5 6BJ

