



CE Declaration of Performance

# FIRMAHOLD

COLLATED NAILS AND FUEL CELLS

FirmaHold collated nails and fuel cells are designed for the fixing of timber and timber framing using various proprietary types of pneumatic and cordless application tools.

A comprehensive range of sizes is included, covering 18 gauge and 16 gauge brads and clipped head nails, available in a choice of rust protection, including stainless steel.

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

## FIRMAHOLD COLLATED NAILS & FUEL CELLS

DESIGNED FOR USE IN CORDLESS GAS & PNEUMATIC NAILERS



Evaluation of Conformity  
Initial Type Testing at

# BMTRADA

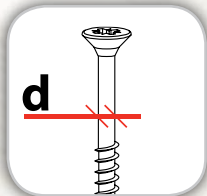
Notified Test Laboratory 2389  
for EN 14592 Timber Structures -  
Dowel Type Fasteners - Requirements

## Dimensions FirmaHold Collated Nails

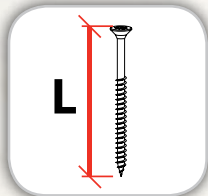
Description	Nominal Diameter d (mm)	Total Length L (mm)	Thread Length lg (mm)	Head Diameter dh (mm)	Head Area Ah (mm <sup>2</sup> )	Point Length (mm)	Test Report No. Geometry	Material Standard
RG BR	2.8	50	36	7.5	28.7	3.94	GEOFMF1235628X50REG41296	BS EN ISO16120-1
RG FirmaGalv	2.8	50	36	7.5	28.7	3.94		
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		
RG BR	2.8	63	43.5	7.5	28.7	3.94	GEOFMF1235628X63REG41296	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		
RG FirmaGalv Plus	3.1	63	43.5	7.5	30.4	4.33	GEOFMF1235631X63REG41296	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	GEOFMF1235631X75REG41295	
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	GEOFMF1235631X90SM41296	
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	GEOFMF1235631X90PRS41296	
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	GEOFMF1235631X90SM41296	

## Performance Declaration FirmaHold Collated Nails

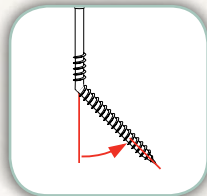
Description	Nominal Diameter d (mm)	Total Length L (mm)	Thread Length lg (mm)	Service Class according to BS EN 1995-1-1:2004	Characteristic Yield Moment M y (Nmm)	Characteristic Withdrawal parameter fax (N/mm <sup>2</sup> )	Characteristic Head Pull-Through parameter f head (N/mm <sup>2</sup> )	Characteristic 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



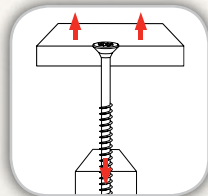
Nominal Diameter



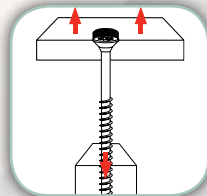
Total Length



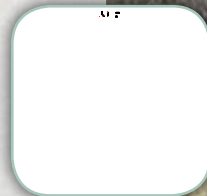
Yield Movement



Withdrawal Parameter



Head Pull-through



Torsional Ratio

# FirmaHold Collated Nails



## DECLARATION OF PERFORMANCE

DOP1 v3

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 & Location: *14. 06. 2013*  
*TIMco House, CW5 6BJ*

This declaration is the responsibility of the importer

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

