

Declaration of Performance

DOP -

EU\_31\_RRHD\_B

REVISION A

1. Product Type Hot Dipped Galvanized Ring Shank Timber Nail
2. Identification RH31R
3. Intended Use For Structural Timber Products
4. Manufacturer Stanley Black & Decker bvba; Kanaalweg 112 IZ Ravenshout Zone 3, 3980 Tessenderlo, Belgium
5. Representative n/a
6. Assessment and Verification of Constancy of Performance 3
- 7., 8. Technical Specifications & Notified Bodies

Task Performed	Performed By	NB #	System of Assessment	Report	EN Standard
Initial Type Testing	VHT	1503	3	459-10/3,1 fzn ring	EN14592:2008+A1:2012
Factory Production Control	Stanley Black & Decker	-	3	-	-

9. Declared Performance

### Dimensions

Diameter - d	3.1 mm	Profile Length - Lg	> 4.5d
Head Area - Ah	40.7 mm <sup>2</sup>	Point Length - Lp	0.5d <sup>2</sup> Lp <sup>2</sup> 2.5d
Length - L	50-100 mm	Coated Length - Lcoat	> 0.5L

### Durability

		Harmonized Technical Specification
Material	Non-alloy steel	EN14592:2008+A1:2012 - Clause 6.1.2 in accordance with EN10016-2
Tensile Strength	Minimum 700 N/mm <sup>2</sup>	EN14592:2008+A1:2012 - Clause 6.1.2 in accordance with EN10218-1
Corrosion Protection	Service Class 3: Hot Dipped galvanized D min 55µm	EN14592:2008+A1:2012 - Clause 6.1.5 in accordance with EN1995-1-1

### Mechanical Strength and Stiffness

Yield Moment	$M_{y,k} = 2.82 \text{ Nm}$	EN14592:2008+A1:2012 - Clause 6.1.4.2 Tested to EN 409
Withdrawal Parameter in timber of characteristic density 350 kg/m <sup>3</sup> With coating NONE	$f_{ax,k} = 10.58 \text{ N/mm}_2$	EN14592:2008+A1:2012 Clause 6.1.4.3 Tested to EN 1382
Head Pull Through Parameter in timber of characteristic density 350 kg/m <sup>3</sup>	$f_{head,k} = 21.55 \text{ N/mm}_2$	EN14592:2008+A1:2012 Clause 6.1.4.4. Tested to EN 1383
Tensile Capacity	$f_{tens,k} = \text{NPD}$	EN14592:2008+A1:2012 Clause 6.1.4.5. Tested to EN 1383

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.  
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

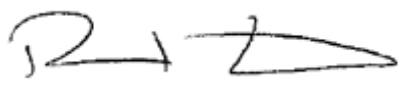
Signed for and on behalf of the manufacturer by:

Colin Earl (VP HTF CDIY Europe)



(Diegem, Belgium, 06/05/2013)

Richard Waterman (Sr. Project Engineer)



(Rhode Island, USA, 06/05/2013)

Form: Rev A