

# Declaration of Performance

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## Round Wire Nails



Material - Stainless Steel A2 (304)

Head Type - Flat

Nail Diameter (mm) - 2.65, 3.35, 3.75, 4.50, 5.60, 6.00

We hereby declare these designated products 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 screws intended for the use in "load bearing timber structures" and produced the calculation/test reports as attached;

The initial type testing has been carried out by independent notified body;  
Strojirensky Zkusebni Ustav, NB # 1015, Hudcova 424/56B, 621 00 Brno-Medlánky, Czechia

Certificate Number: CPR-J-01814-20, CPR-J-01815-20, E-30-20563-16, E-30-20563-16,  
CPR-J-01817-20, CPR-J-01818-20

Test Report Number: No. 30-15137/3/JP, 30-15137/4/JP, 30-10875/5, 30-10875/5, 30-15137/6/JP,  
30-15137/7/JP

Factory Process Control (FPC) has been established by the factory.

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

This declaration is the responsibility of the importer ; T.I.Midwood & Co. Ltd.

Simon Midwood

Managing Director

TIMCO House  
2020

2016/2020

Name

Position

Signature

Location &amp; Date

Test Year

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## Round Wire Nails Flat Head - Ø2.65mm

### Material & Geometry

Material	Stainless Steel A2 (304)
Screw diameter (mm)	2.65
Head area (mm <sup>2</sup> )	26.41
Point length (mm)	4.26

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 45° [Nmm] in acc. to EN 409	2608
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	3.33
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	2.50
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	30.85
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	3.77

### Durability

Coating (Finish)	N/A
Corrosion protection	Service Class 3 acc. to EN 1995-1-1

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## Round Wire Nails Flat Head - Ø3.35mm

### Material & Geometry

Material	Stainless Steel A2 (304)
Screw diameter (mm)	3.35
Head area (mm <sup>2</sup> )	38.81
Point length (mm)	5.64

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 45° [Nmm] in acc. to EN 409	5955
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	2.90
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	2.05
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	32.00
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	3.73

### Durability

Coating (Finish)	Without coating (Bright)
Corrosion protection	Service Class 1 acc. to EN 1995-1-1

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## Round Wire Nails Flat Head - Ø3.75mm

### Material & Geometry

Material	Stainless Steel A2 (304)
Screw diameter (mm)	3.75
Head area (mm <sup>2</sup> )	38.81
Point length (mm)	5.64

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 45° [Nmm] in acc. to EN 409	10.688
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	3.37
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	1.97
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	25.48
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	8.77

### Durability

Coating (Finish)	N/A
Corrosion protection	Service Class 3 acc. to EN 1995-1-1

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## Round Wire Nails Flat Head - Ø4.00mm

### Material & Geometry

Material	Stainless Steel A2 (304)
Screw diameter (mm)	4.00
Head area (mm <sup>2</sup> )	66.36
Point length (mm)	7.84

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 45° [Nmm] in acc. to EN 409	12982
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	3.52
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	2.44
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	23.64
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	9.31

### Durability

Coating (Finish)	Without coating (Bright)
Corrosion protection	Service Class 1 acc. to EN 1995-1-1

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## Round Wire Nails Flat Head - Ø5.60mm

### Material & Geometry

Material	Stainless Steel A2 (304)
Screw diameter (mm)	5.60
Head area (mm <sup>2</sup> )	106.23
Point length (mm)	9.37

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 45° [Nmm] in acc. to EN 409	18142
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	3.20
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	2.23
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	24.49
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	14.65

### Durability

Coating (Finish)	N/A
Corrosion protection	Service Class 3 acc. to EN 1995-1-1

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## Round Wire Nails Flat Head - Ø6.00mm

### Material & Geometry

Material	Stainless Steel A2 (304)
Screw diameter (mm)	6.00
Head area (mm <sup>2</sup> )	109.72
Point length (mm)	9.78

### Mechanical Strength & Stiffness

Characteristic yield moment $M_{y,k}$ at 45° [Nmm] in acc. to EN 409	23592
Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	3.09
Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1382 with density of wood $\rho_k = 350\text{kg/m}^3$	2.22
Characteristic head pull-through parameter $f_{tens,k}$ [N/mm <sup>2</sup> ] in acc. to EN 1383 with density of wood $\rho_k = 350\text{kg/m}^3$	23.79
Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383	17.01

### Durability

Coating (Finish)	N/A
Corrosion protection	Service Class 3 acc. to EN 1995-1-1