Date: 06/10/2022
v2

# Declaration of Performance



## Round Wire Nails

CE

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 & Date | Test Year |

# Declaration of Performance



## Round Wire Nails

Flat Head - Ø2.65mm

### Material & Geometry

| | |
|---|---|
| Material | Stainless Steel A2 (304) |
| Diameter (mm) | 2.65 |
| Head area ($mm^2$) | 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) $f_{ax,k}$ [$N/mm^2$] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$ | 3.33 |
| Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [$N/mm^2$] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$ | 2.50 |
| Characteristic head pull-through parameter $f_{tens,k}$ [$N/mm^2$] in acc. to EN 1383 with density of wood $\rho_k = 350 kg/m^3$ | 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 |

# Declaration of Performance



## Round Wire Nails

Flat Head - Ø3.35mm

### Material & Geometry

| Material | Stainless Steel A2 (304) |
|---|---|
| Diameter (mm) | 3.35 |
| Head area ($mm^2$) | 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) $f_{ax,k}$ [$N/mm^2$] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$ | 2.90 |
| Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [$N/mm^2$] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$ | 2.05 |
| Characteristic head pull-through parameter $f_{tens,k}$ [$N/mm^2$] in acc. to EN 1383 with density of wood $\rho_k = 350 kg/m^3$ | 32.00 |
| Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383 | 6.30 |

### Durability

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

# Round Wire Nails

## Flat Head - Ø3.75mm

### Material & Geometry

| Material | Stainless Steel A2 (304) |
|---|---|
| Diameter (mm) | 3.75 |
| Head area ($mm^2$) | 38.81 |
| Point length (mm) | 5.64 |

### Mechanical Strength & Stiffness

| | |
|---|---|
| Characteristic yield moment $M_{y,k}$ at 45° [Nmm] in acc. to EN 409 | 7562 |
| Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [$N/mm^2$] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$ | 3.16 |
| Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [$N/mm^2$] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$ | 1.96 |
| Characteristic head pull-through parameter $f_{tens,k}$ [$N/mm^2$] in acc. to EN 1383 with density of wood $\rho_k = 350 kg/m^3$ | 25.99 |
| Characteristic tensile capacity $f_{tens,k}$ [kN] in acc. to EN 1383 | 7.29 |

### Durability

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

# Declaration of Performance



## Round Wire Nails

Flat Head - Ø4.00mm

### Material & Geometry

| | |
|---|---|
| Material | Stainless Steel A2 (304) |
| Diameter (mm) | 4.00 |
| Head area ($mm^2$) | 59.58 |
| Point length (mm) | 5.08 |

### Mechanical Strength & Stiffness

| | |
|---|---|
| Characteristic yield moment $M_{y,k}$ at 45° [Nmm] in acc. to EN 409 | 10688 |
| Characteristic withdrawal parameter (loading across the fibre) $f_{ax,k}$ [$N/mm^2$] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$ | 3.37 |
| Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [$N/mm^2$] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$ | 1.97 |
| Characteristic head pull-through parameter $f_{tens,k}$ [$N/mm^2$] in acc. to EN 1383 with density of wood $\rho_k = 350 kg/m^3$ | 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 |

## Round Wire Nails

Flat Head - Ø5.60mm

### Material & Geometry

| | |
|---|---|
| Material | Stainless Steel A2 (304) |
| Diameter (mm) | 5.60 |
| Head area ($mm^2$) | 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) $f_{ax,k}$ [$N/mm^2$] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$ | 3.20 |
| Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [$N/mm^2$] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$ | 2.23 |
| Characteristic head pull-through parameter $f_{tens,k}$ [$N/mm^2$] in acc. to EN 1383 with density of wood $\rho_k = 350 kg/m^3$ | 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 |

# Declaration of Performance



## Round Wire Nails

Flat Head - Ø6.00mm

### Material & Geometry

| Material | Stainless Steel A2 (304) |
|---|---|
| Diameter (mm) | 6.00 |
| Head area ($mm^2$) | 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) $f_{ax,k}$ [$N/mm^2$] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$ | 3.09 |
| Characteristic withdrawal parameter (loading along the fibre) $f_{ax,k}$ [$N/mm^2$] in acc. to EN 1382 with density of wood $\rho_k = 350 kg/m^3$ | 2.22 |
| Characteristic head pull-through parameter $f_{tens,k}$ [$N/mm^2$] in acc. to EN 1383 with density of wood $\rho_k = 350 kg/m^3$ | 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 |