# A4WS 5.0 WOODMASTER® WOODSCREW 5.0mm ØD[1]
# DECLARATION OF PERFORMANCE
# REV. A

**DoP No.:** EVO-14592-0019-A

**Date of issue:** 01st October 2026

[1] ØD = nominal diameter of the product,



©Evolution Fasteners (UK) Ltd, 2026. All rights reserved. E&OE.

# DECLARATION OF PERFORMANCE
# No. EVO-14592-0019-A

## 1. UNIQUE IDENTIFICATION CODE OF THE PRODUCT-TYPE

A4WS5040,
A4WS5050,
A4WS5060,
A4WS5070,
A4WS5090,
A4WS50100.

The product-type is described in Table 01. All harmonised technical specification (hEN) clauses refer to those in EN 14592:2008+A1:2012 unless noted otherwise.

**Table 01: Product-type description**

| Property | Declared value | hEN clause(s) |
|---|---|---|
| Fastener type | Screw (woodscrew), fully or partially threaded and Type 17 | 6.3.1 |
| Head form and drive | Double countersunk head, cross recess type Z, six nibs under the head | Descriptive only |
| Parent material and specification | Austenitic stainless steel, group A4; EN 1.4401 | 6.3.2 |
| Corrosion protection coating and coating type | None | 3.12; Table 4 |
| Nominal diameter, $d$[2] | 5.0 mm | 5.3; 6.3.3 |
| Length, $l_{nom}$[2] | 40.0, 50.0, 60.0, 70.0, 90.0 and 100.0 mm | 5.2; 6.3.3 |
| Threaded length, $l_g$[2] | Fully threaded, ≤ 40.0 and ≤ 50.0mm | 5.4; 6.3.3 |
| Inner thread diameter, $d_1$[2] | 3.0 mm | 6.3.3 |
| Head diameter, $d_h$[2] | 9.78 mm | 6.3.3 |
| Washer | Not applicable | Table ZA.1, note d |

[2] Declared dimensions are based on five specimens measured by the Notified Laboratory (Test Report No. 30-18525/15/JP),



©Evolution Fasteners (UK) Ltd, 2026. All rights reserved. E&OE.

## 2. INTENDED USE

Screws for structural timber products, for use in load-bearing timber structures, as set out in EN 14592:2008+A1:2012, Annex ZA, Tables ZA.1 and ZA.2.



©Evolution Fasteners (UK) Ltd, 2026. All rights reserved. E&OE.

## 3. MANUFACTURER

**Evolution Fasteners (UK) Ltd**
Clyde Gateway Trade Park
Dalmarnock Road
Glasgow
G73 1AN
United Kingdom



©Evolution Fasteners (UK) Ltd, 2026. All rights reserved. E&OE.

## 4. AUTHORISED REPRESENTATIVE

Authorised representatives established within the Union, each holding a mandate covering the tasks specified in Article 12(2) of Regulation (EU) No 305/2011:

**Evolution Fasteners (IE) Ltd**
Finglas Business Centre
Jamestown Road
Finglas
Dublin 11
Ireland

**Evolution Fasteners (NL) B.V.**
Pastoorslaan 57
2182 BW Hillegom
Netherlands



©Evolution Fasteners (UK) Ltd, 2026. All rights reserved. E&OE.

## 5. SYSTEM OF AVCP

System 3, as set out in Annex V of Regulation (EU) No 305/2011, applicable to dowel-type timber fasteners for structural timber products under Commission Decision 97/176/EC as amended by Commission Decision 2001/596/EC (EN 14592:2008+A1:2012, Annex ZA, Table ZA.2).



©Evolution Fasteners (UK) Ltd, 2026. All rights reserved. E&OE.

## 6(A). HARMONISED STANDARD

| | |
|---|---|
| **Harmonised standard:** | EN 14592:2008+A1:2012, *Timber structures - Dowel-type fasteners - Requirements*. |
| **Notified body:** | Strojírenský zkušební ústav, s.p., Hudcova 424/56b, 621 00 Brno, Czech Republic (notified body No. 1015), acting as notified testing laboratory, performed the determination of the product-type on the basis of type testing (based on sampling carried out by the manufacturer) under System 3 and issued test report 30-18525/15/JP, Revision 0, dated 11 August 2026. |

## 6(B). EUROPEAN ASSESSMENT DOCUMENT

Not applicable.



©Evolution Fasteners (UK) Ltd, 2026. All rights reserved. E&OE.

# 7. DECLARED PERFORMANCES

The declared performances for the intended use given in section 2, covering the essential characteristics listed for screws in EN 14592:2008+A1:2012, Table ZA.1, are given in Table 02. All harmonised technical specification (hEN) clauses refer to those in EN 14592:2008+A1:2012 unless noted otherwise.

**Table 02: Declared performances**

| Essential characteristic | Performance (value and unit) | hEN clause |
|---|---|---|
| **Mechanical strength and stiffness** | | |
| Characteristic yield moment, $M_{y,k}$[3] | 4,808 Nmm | 6.3.4.1; 6.3.4.2 |
| Characteristic withdrawal parameter, $f_{ax,k}$[4,5] | 16.00[6] N/mm²<br>13.90[7] N/mm² | 6.3.4.3 |
| Characteristic head pull-through parameter, $f_{head,k}$[8,5] | 21.31 N/mm² | 6.3.4.4 |
| Characteristic tensile capacity, $f_{tens,k}$[9] | 4.87 kN | 6.3.4.5 |
| Characteristic torsional ratio, $f_{tor,k}$ / $R_{tor,k}$[10] | $f_{tor,k}$ = 3,850 Nmm<br>$R_{tor,k}$ = 2,240 Nmm<br>$f_{tor,k}$ / $R_{tor,k}$ = 1.72[11] | 6.3.4.6 |
| **Durability** | | |
| Corrosion protection | Austenitic stainless-steel; Service Class 3 according to EN 1995-1-1[12] | 6.3.5; Annex A |

Characteristic values are calculated from ten specimens per characteristic in accordance with EN 14358 (lognormal distribution). The declared performances apply only to the product-type described in Table 01.

[3] Determined by testing in accordance with EN 409:2009 on the threaded section, at a bend angle of 14° ($45/d^{0.7}$ with $d$ = 5.0 mm). All specimens were bent to ($45/d^{0.7}$ + 10) degrees without fracture or other failure,
[4] Determined by testing in accordance with EN 1382:2018 in timber conditioned at 20 °C and 65 % relative humidity,
[5] Performed in timber of characteristic density $\rho_k$ = 350 kg/m³,
[6] Screw axis perpendicular to grain,
[7] Screw axis parallel to grain,
[8] Determined by testing in accordance with EN 1383:2016 with a head-side member 20 mm thick, calculated with $d_h$ = 9.78 mm,
[9] Determined in accordance with EN 1383:2016 with a steel plate replacing the head-side timber member; failure load reached within 10 s ± 5 s,
[10] $R_{tor,k}$ determined in accordance with EN 15737:2010 in spruce of density 450 kg/m³. $f_{tor,k}$ determined in accordance with EN ISO 10666:1999, 4.2.3,
[11] Requirement is ≥ 1.5,
[12] Pursuant to EN 1995-1-1,



©Evolution Fasteners (UK) Ltd, 2026. All rights reserved. E&OE.

## 8. APPROPRIATE TECHNICAL DOCUMENTATION AND/OR SPECIFIC TECHNICAL DOCUMENTATION

Not applicable.



©Evolution Fasteners (UK) Ltd, 2026. All rights reserved. E&OE.

## 9. AUTHORISATION STATEMENT

**THE PERFORMANCE OF THE PRODUCT IDENTIFIED ABOVE IS IN CONFORMITY WITH THE SET OF DECLARED PERFORMANCES. THIS DECLARATION OF PERFORMANCE IS ISSUED, IN ACCORDANCE WITH REGULATION (EU) NO 305/2011, UNDER THE SOLE RESPONSIBILITY OF THE MANUFACTURER IDENTIFIED ABOVE.**

Signed for and on behalf of the manufacturer by:



**EUR ING Ryan Murphy (Chartered Engineer)**
**TECHNICAL DIRECTOR**
At Glasgow, United Kingdom on 01st October 2026



©Evolution Fasteners (UK) Ltd, 2026. All rights reserved. E&OE.

## 10. REVISION HISTORY

| Table 03: Revision history | | | |
|---|---|---|---|
| **Rev. No.** | **Comment(s)** | **Auth'd** | **Date** |
| A | Original issue. | RM | 01 Oct 26 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

[END OF DOCUMENT]



©Evolution Fasteners (UK) Ltd, 2026. All rights reserved. E&OE.