



DECLARATION OF PERFORMANCE (CERTIFICATE NO. 04WS-22-A)

DOWEL-TYPE (SCREWS) FASTENERS FOR TIMBER STRUCTURES AND APPLICATIONS



DECLARATION OF PERFORMANCE**Certificate No. 04WS-22-A**

This declaration is made with respect to the affixation and attestation of conformity for the purposes of both CE¹ Marking and UKCA² Marking.

The undersigned, representing the following:

Table 01: Manufacturer and Authorised Representative		
Manufacturer	Authorised representative established within the EEA³	
Evolution Fasteners (UK) Ltd Clyde Gateway Trade Park Dalmarnock Road Glasgow G73 1AN United Kingdom	Evolution Fasteners (IE) Ltd Finglass Business Centre Jamestown Road Finglas Dublin 11 Poblacht na hÉireann	Evolution Fasteners (NL) B.V. Pastoorlaan 57 Hilligom 2182 BW Koninkrijk der Nederlanden
Manufacturing plant:	Evolution Facility 01	

Do hereby declare the following in accordance with European Regulation No. 305/2011 Annex III and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020.

UNIQUE IDENTIFICATION CODES OF THE PRODUCT TYPE(S):

Table 02: Unique Identification Code(s) of the Product Type(s)	
Evolution Product Code	Product Description
WS	Woodscrew (Standard)
WST	Woodscrew (Standard – Torx recess)
A2WS	Woodscrew (A2 stainless)
A4WS	Woodscrew (A4 stainless)
DSFHC	Decking screws (Standard)
DS-A4	Decking screws (A4 stainless)
SDSFHC	Decking screws – Structural (Hex – standard)
A2SDSFHC	Decking screws – Structural (Hex – A2 stainless)
SDSCSK	Decking screws – Structural (Countersunk – standard)
BB	Decking screws – BigBeam® (Flat – standard)

¹ Conformité Européenne,

² United Kingdom Conformity Assessed,

³ European Economic Area,

TYPE, BATCH OR SERIAL NUMBER OR ANY ELEMENT ALLOWING THE IDENTIFICATION OF THE CONSTRUCTION PRODUCT:

1. Batch number is stamped (or applied by sticker) to the inside of the individual box lid,
2. Batch number is stamped (or applied by sticker) to the outside of each bulk carton,
3. Type and other information are printed on both individual boxes and bulk cartons,
4. Individual products are head marked, where applicable, with concave or convex symbols:
 - a. EF,
 - b. EVO,
 - c. EVO+.

INTENDED USE OR USES OF THE CONSTRUCTION PRODUCT, IN ACCORDANCE WITH THE APPLICATION HARMONISED TECHNICAL SPECIFICATION, AS FORSEEN BY THE MANUFACTURER:

Mechanical fixing of timber applications:

1. Screws for timber applications.

SYSTEM OR SYSTEMS OF ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE OF THE CONSTRUCTION PRODUCT:

Products are CE Marked and UKCA marked under system of attestation of conformity – System 3:

1. ITT⁴ performed on each batch of screws in accredited notified laboratory (UKAS⁵ accredited testing laboratory (accredited to ISO/IEC 17025)) pursuant to requirements of BS EN 14566,
2. FPC⁶ performed on manufacturers' facilities by internal audit and external audit conducted by an external assessor (pursuant to ISO 9001).

⁴ Initial Type Testing,

⁵ United Kingdom Accreditation Service,

⁶ Factory Production Control,

DECLARED PERFORMANCE:

Table 03: Declared Performances for Essential Characteristics of Product(s) (Part 01 of 03)						
Essential Characteristic	Symbol and [Unit]	Product Material	Nominal Diameter, d_{nom} (mm)	Declared Performance		
Characteristic yield moment	$M_{y,k}$ [Nmm]	SAE C1022/ EN 1.0402 carbon steel	3.5	1.11		
			4.0	1.67		
			4.2	1.73		
			5.0	3.22		
			6.0	5.61		
			6.3	5.63		
			8.0	9.11		
		SAE 304/ EN 1.4301/ A2 stainless steel	4.0	1.52		
			4.2	1.55		
			5.0	3.01		
			6.0	4.99		
		SAE 316/ EN 1.4401/ A4 stainless steel	4.0	1.52		
			4.2	1.55		
			5.0	3.01		
			6.0	4.99		
		Characteristic withdrawal parameter	$f_{ax,k}$ [N/mm ²]	SAE C1022/ EN 1.0402 carbon steel	3.5	3.01
					4.0	3.19
					4.2	3.34
5.0	3.44					
6.0	3.51					
6.3	3.99					
8.0	11.0					
SAE 304/ EN 1.4301/ A2 stainless steel	4.0			3.11		
	4.2			3.25		
	5.0			3.36		
	6.0			3.47		
SAE 316/ EN 1.4401/ A4 stainless steel	6.3			3.60		
	4.0			3.11		
	4.2			3.25		
	5.0			3.36		
6.0	3.47					

Table 03: Declared Performances for Essential Characteristics of Product(s) (Part 02 of 03)				
Essential Characteristic	Symbol and [Unit]	Product Material	Nominal Diameter, d_{nom} (mm)	Declared Performance
Characteristic head pull-through parameter	$f_{head,k}$ [N/mm ²]	SAE C1022/ EN 1.0402 carbon steel	3.5	11.29
			4.0	12.11
			4.2	12.70
			5.0	14.14
			6.0	14.52
			6.3	15.23
			8.0	16.70
		SAE 304/ EN 1.4301/ A2 stainless steel	4.0	12.09
			4.2	12.66
			5.0	14.00
			6.0	14.32
		SAE 316/ EN 1.4401/ A4 stainless steel	6.3	14.97
			4.0	12.09
			4.2	12.66
			5.0	14.00
Characteristic tensile capacity	$f_{tens,k}$ [kN]	SAE C1022/ EN 1.0402 carbon steel	6.0	14.32
			3.5	4.11
			4.0	5.39
			4.2	5.64
			5.0	8.77
			6.0	10.69
			6.3	11.20
		SAE 304/ EN 1.4301/ A2 stainless steel	8.0	19.90
			4.0	3.98
			4.2	4.07
			5.0	6.54
		SAE 316/ EN 1.4401/ A4 stainless steel	6.0	8.23
			6.3	8.31
			4.0	3.98
			4.2	4.07
			5.0	6.54
			6.0	8.23

Table 03: Declared Performances for Essential Characteristics of Product(s) (Part 03 of 03)						
Essential Characteristic	Symbol and [Unit]	Product Material	Nominal Diameter, d_{nom} (mm)	Declared Performance		
Characteristic torsional ratio	$f_{tor,k}$ [Nm]	SAE C1022/ EN 1.0402 carbon steel	3.5	2.61		
			4.0	3.11		
			4.2	3.25		
			5.0	3.47		
			6.0	7.65		
			6.3	8.00		
			8.0	10.50		
		SAE 304/ EN 1.4301/ A2 stainless steel	4.0	2.65		
			4.2	2.74		
			5.0	3.05		
			6.0	6.15		
		SAE 316/ EN 1.4401/ A4 stainless steel	4.0	2.65		
			4.2	2.74		
			5.0	3.05		
			6.0	6.15		
Durability	N/A	SAE C1022/ EN 1.0402 carbon steel	3.5	Service Class 2 (EN 1995-1-1)/ Class C2 (EN ISO 12944-2 and EN ISO 9223)		
			4.0			
			4.2			
			5.0			
			6.0			
			6.3			
		SAE 304/ EN 1.4301/ A2 stainless steel	4.0	Service Class 3 (EN 1995-1-1)/ Class C3 (EN ISO 12944-2 and EN ISO 9223)		
			4.2			
			5.0			
			6.0			
		SAE 316/ EN 1.4401/ A4 stainless steel	4.0	Service Class 3 (EN 1995-1-1)/ Class C3/4 ⁷ (EN ISO 12944-2 and EN ISO 9223)		
			4.2			
			5.0			
			6.0			
		NOTE: All tests, where applicable with timber density, $\rho_k = 350 \text{ kg/m}^3$				

⁷ Excludes swimming pools and certain other environments, contact Evolution for further guidance.

ADDITIONAL AND VOLUNTARY DECLARATIONS (NOT REQUIRED BY EUROPEAN REGULATION NO 305/2011):

Characteristic	Type	Standard	Material	Declared Performance
Protective treatment	Additional	BS EN ISO 9227	Carbon and stainless steels	Pass
Materials and manufacture		BS EN 14592		Pass
Dimensions and metrology	Initial type test			Pass

Declaration	Type	Specification
Manufacturing processes	Certification	ISO 9001
Distribution processes	Certification	ISO 9001
Administration processes	Certification	ISO 9001
Internal auditing processes	Certification	ISO 9001 & ISO/IEC 17025
Laboratory processes	Accreditation	ISO 17025
International recognition	Accreditation	ILAC: MRA

Regulation or Directive	Reference/ UID	Declaration
CPR ⁸	EU Regulation 305/2011	Compliant
RoHS ⁹	EU Directive 2011/65/EU	Compliant
REACH ¹⁰	EU Regulation 1907/2006	Compliant
COSHH ¹¹	UK S.I. 2004/3386	Compliant
PEP ¹²	EU Regulation 98/2013	Compliant
CPEP ¹³	UK S.I. 966/2015	Compliant
Conflict Minerals	EU Regulation 821/2017	Not applicable
EUTR ¹⁴	EU Regulation 955/2010	Not applicable

⁸ Construction Products Regulations,

⁹ Restrictive of Hazardous Substances,

¹⁰ Registration, Evaluation, Authorisation and Restriction of Chemicals,

¹¹ Control of Substances Hazardous to Health,

¹² Poisons and Explosive Precursors,

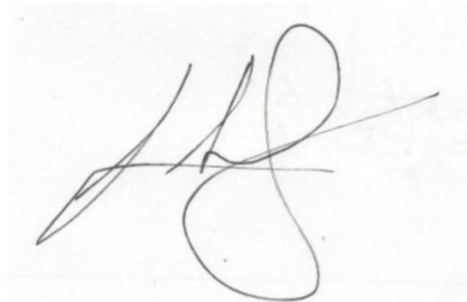
¹³ Control of Poisons and Explosive Precursors,

¹⁴ European Union Timber Regulations,

THE PERFORMANCE OF THE PRODUCT(S) IDENTIFIED IN THIS DOCUMENT IS IN CONFORMITY WITH THE DECLARED PERFORMANCE AS DETAILED IN THIS DOCUMENT.

THIS DECLARATION OF PERFORMANCE IS ISSUED UNDER THE SOLE RESPONSIBILITY OF THE MANUFACTURER.

SIGNED FOR, AND ON BEHALF OF EVOLUTION FASTENERS (UK) LTD:

A handwritten signature in black ink, appearing to be 'RM', is written over a faint horizontal line. The signature is stylized and cursive.

EUR ING RYAN MURPHY
TECHNICAL DIRECTOR, EVOLUTION FASTENERS (UK) LTD.

IN THE PLACE OF GLASGOW, UNITED KINGDOM ON MONDAY 07TH NOVEMBER 2022 AND IS VALID FOR A PERIOD OF FIVE CALANDER YEARS FROM THIS DATE.

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