



Header Plan Co. Inc.

DECLARATION OF PERFORMANCE

No. **CPR-DOP-CBS-01**

1. Manufacturer: Header Plan Co. Inc.

No. 526-7, Chung Cheng Rd., Shulin Dist., New Taipei City 23867, Taiwan R.O.C.
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2. Fastener type: Chipboard Screw

3. Identification code: Chipboard Screw EN 14592/Material/Head/Length/Diameter
e.g., Chipboard screw EN 14592/SS304/Oval Hd/30/6.5

4. Intended use: For timber structure load

5. System of Assessment and Verification of Constancy of Performance: System 3

7. 7. Notified body: Slovenian National Building and Civil Engineering Institute – ZAG Ljubljana, Notified Body number: **1404**

Performed determination of the product-type on the basis of type testing under system 3 and issued an initial type testing report **No. P 0089/14-630-2** on control laboratory tests of timber screws and bolts, produced by Header Plan Co. Ltd., according to **EN 14592:2008+A1:2012**.

8. Declared performance:

Essential characteristic		Performance						Harmonized technical specification
		3.0 Re-CSK	3.0 Re-Pan	3.5 Re-CSK	3.5 Re-Pan	4.0 Re-CSK	4.0 Re-Pan	
Geometry	d[mm]	3.0	3.5	3.5	3.5	3.5	3.5	EN 14592:2008+A1:2012
Material		Stainless Steel 304						EN 14592:2008+A1:2012 clause 6.3.2
Characteristic yield moment $M_{y,k}$ [Nm]		0.838	0.838	1.475	1.475	2.215	2.215	EN 409:2009
Characteristic withdrawal parameter $f_{ax,k}$ [N/mm ²]		23.63 $\rho =587$ kg/m ³	23.63 $\rho =587$ kg/m ³	15.20 $\rho =386$ kg/m ³	15.20 $\rho =386$ kg/m ³	25.55 $\rho =601$ kg/m ³	15.20 $\rho =386$ kg/m ³	EN 1382:1999
Characteristic withdrawal parameter $f_{ax,k}$ [N/mm ²] (Wax)		23.63 $\rho =587$ kg/m ³	23.63 $\rho =587$ kg/m ³	23.46 $\rho =386$ kg/m ³	23.46 $\rho =386$ kg/m ³	25.55 $\rho =582$ kg/m ³	25.55 $\rho =582$ kg/m ³	EN 1382:1999
Characteristic head pull-through parameter $f_{head,k}$ [N/mm ²]		29.05 $\rho =535.5$ kg/m ³	31.97 $\rho =540.4$ kg/m ³	14.41 $\rho =500.3$ kg/m ³	21.19 $\rho =389.2$ kg/m ³	34.1 $\rho =475.3$ kg/m ³	36.62 $\rho =485.4$ kg/m ³	EN 1383:1999
Characteristic tensile capacity $f_{tens,k}$ [kN]		2.23	2.27	3.08	3.07	3.73	3.69	EN 1383:1999



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Characteristic torsional ratio	2.48	2.48	2.36	2.36	2.51	2.51	EN 14592:2008+A1:2012
Characteristic torsional ratio (Wax)	2.47	2.47	3.36	3.36	2.80	2.80	EN 14592:2008+A1:2012

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Essential characteristic		Performance						Harmonized technical specification
		4.5 Re-CSK	4.5 Re-Pan	5.0 Re-CSK	5.0 Re-Pan	6.0 Re-CSK	6.0 Re-Pan	
Geometry	d[mm]	4.5	4.5	5.0	5.0	6.0	6.0	EN 14592:2008+A1:2012
Material		Stainless Steel 304						EN 14592:2008+A1:2012 clause 6.3.2
Characteristic yield moment $M_{y,k}$ [Nm]		2.891	2.891	3.774	3.774	5.122	5.122	EN 409:2009
Characteristic withdrawal parameter $f_{ax,k}$ [N/mm ²]		19.82 $\rho = 539$ kg/m ³	19.82 $\rho = 539$ kg/m ³	16.44 $\rho = 493$ kg/m ³	16.44 $\rho = 493$ kg/m ³	15.65 $\rho = 509$ kg/m ³	15.65 $\rho = 509$ kg/m ³	EN 1382:1999
Characteristic withdrawal parameter $f_{ax,k}$ [N/mm ²] (Wax)		22.13 $\rho = 507$ kg/m ³	22.13 $\rho = 507$ kg/m ³	16.42 $\rho = 511$ kg/m ³	16.42 $\rho = 511$ kg/m ³	16.05 $\rho = 527$ kg/m ³	16.05 $\rho = 527$ kg/m ³	EN 1382:1999
Characteristic head pull-through parameter $f_{head,k}$ [N/mm ²]		25.60 $\rho = 416.9$ kg/m ³	25.61 $\rho = 380.3$ kg/m ³	19.69 $\rho = 406.7$ kg/m ³	25.16 $\rho = 401.6$ kg/m ³	19.07 $\rho = 391.4$ kg/m ³	23.51 $\rho = 434.1$ kg/m ³	EN 1383:1999
Characteristic tensile capacity $f_{tens,k}$ [kN]		4.45	4.36	5.21	4.84	7.48	7.59	EN 1383:1999
Characteristic torsional ratio		2.73	2.73	1.7	1.7	2.01	2.01	EN 14592:2008+A1:2012
Characteristic torsional ratio (Wax)		2.66	2.66	2.07	2.07	2.34	2.34	EN 14592:2008+A1:2012

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Essential characteristic		Performance						Harmonized technical specification
		8.0 Re-CSK						
Geometry	d[mm]	8.0						EN 14592:2008+A1:2012
Material		Stainless Steel 304						EN 14592:2008+A1:2012 clause 6.3.2
Characteristic yield moment $M_{y,k}$ [Nm]		15.591						EN 409:2009
Characteristic withdrawal parameter $f_{ax,k}$ [N/mm ²]		16.12 $\rho = 503$ kg/m ³						EN 1382:1999
Characteristic withdrawal parameter		14.39						EN 1382:1999



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$f_{ax,k}$ [N/mm ²] (Wax)	$\rho = 535$ kg/m ³						
Characteristic head pull-through parameter $f_{head,k}$ [N/mm ²]	19.07 $\rho = 407.3$ kg/m ³						EN 1383:1999
Characteristic tensile capacity $f_{tens,k}$ [kN]	13.35						EN 1383:1999
Characteristic torsional ratio	2.33						EN 14592:2008+A1:2012
Characteristic torsional ratio (Wax)	2.77						EN 14592:2008+A1:2012

The performance of the product identified in points 2 and 3 is in conformity with the declared performance in the above performance table. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 1.

Signed for and on behalf of the manufacturer by:

Lily Liu
Head of Quality Assurance Department
Taiwan, April 17th, 2014