



Strojirenský zkušební ústav, s.p. (SZU)
Engineering Test Institute, Public Enterprise
Hudcova 424/56b, 621 00 Brno, Czech Republic

CERTIFICATE

Number: **E-30-20034-14**

Manufacturer: Shinn Rung Co., Ltd.
1F, No. 37, Lane 2, Sec 1
Jhong Shan Rd., Gueiren Dist.
Tainan City
Taiwan (R.O.C.)

**Product,
Type/Model/Specification:** Chipboard screws \varnothing 3.0 mm
- type of head: double flat, oval, double pan
- type of thread: full or partial
- type of recess: Phil, Pozi, Torx
- material: carbon steel C1022
- coating type 1
- length: (12 to 70) mm

**Determination of the product-
type:** see Annex 1 (page 2 of certificate)

Basis of Certificate issuance: Report - Determination of the product-type
30-10056/1 of 2014-01-30

Harmonized standard: EN 14592:2008+A1:2012, Tab. ZA.1

Strojirenský zkušební ústav, s.p., (Engineering Test Institute, Public Enterprise) hereby confirms that it has carried out determination of the product-type in accordance with Art. 1.4 System 3 Annex V of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (Construction Products Regulation - CPR) and has determined performance of essential characteristics of the product.

This Certificate is not a substitute for relevant document issued by Notified Body.

Brno, 2014-01-31




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Ing. Pavel Šticha
Director for Certification

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Certificate E-30-20034-14, Annex 1

Determination of the product-type

Product	characteristic yield moment $M_{y,k}$ [Nmm]	characteristic withdrawal parameter $f_{ax,k}$ [N/mm ²]		characteristic head pull-through parameter $f_{head,k}$ [N/mm ²]			characteristic tensile capacity $f_{tens,k}$ [kN]	characteristic torsional ratio
		loading across the fibre	loading along the fibre	double flat head	oval head	double pan head		
-	-						-	-
Chipboard screws ø 3.0 mm	1 723	18,84	13,79	25,85	24,14	28,10	4,06	2,37
Characteristic density of wood ρ_k [kg/m ³]	-	410		410			-	450
Durability (i.e. corrosion protection)	zinc plated, yellow zinc plated, min. 3 µm (Service Class 1 acc. to EN 1995-1-1)							

Intended use: for structural timber products





Strojirenský zkušební ústav, s.p. (SZU)
Engineering Test Institute, Public Enterprise
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CERTIFICATE

Number: **E-30-20035-14**

Manufacturer: Shinn Rung Co., Ltd.
1F, No. 37, Lane 2, Sec 1
Jhong Shan Rd., Gueiren Dist.
Tainan City
Taiwan (R.O.C.)

Product,
Type/Model/Specification: Chipboard screws \varnothing 3.5 mm
- type of head: double flat, oval, double pan
- type of thread: full or partial
- type of recess: Phil, Pozi, Torx
- material: carbon steel C1022
- coating type 1
- length: (14 to 80) mm

Determination of the product-
type: see Annex 1 (page 2 of certificate)

Basis of Certificate issuance: Report - Determination of the product-type
30-10056/2 of 2014-01-30


Harmonized standard: EN 14592:2008+A1:2012, Tab. ZA.1

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Brno, 2014-01-31




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Ing. Pavel Šticha
Director for Certification

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Certificate E-30-20035-14, Annex 1

Determination of the product-type

Product	characteristic yield moment $M_{y,k}$ [Nmm]	characteristic withdrawal parameter $f_{ax,k}$ [N/mm ²]		characteristic head pull-through parameter $f_{head,k}$ [N/mm ²]			characteristic tensile capacity $f_{tens,k}$ [kN]	characteristic torsional ratio
		loading across the fibre	loading along the fibre	double flat head	oval head	double pan head		
-	-						-	-
Chipboard screws ø 3.5 mm	3 479	18,32	12,34	23,81	23,76	27,46	5,54	2,47
Characteristic density of wood ρ_k [kg/m ³]	-	410		410			-	450
Durability (i.e. corrosion protection)	zinc plated, yellow zinc plated, min. 3 µm (Service Class 1 acc. to EN 1995-1-1)							

Intended use: for structural timber products





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CERTIFICATE

Number: **E-30-20036-14**

Manufacturer: Shinn Rung Co., Ltd.
1F, No. 37, Lane 2, Sec 1
Jhong Shan Rd., Gueiren Dist.
Tainan City
Taiwan (R.O.C.)

Product, Type/Model/Specification: Chipboard screws \varnothing 4.0 mm
- type of head: double flat, oval, double pan
- type of thread: full or partial
- type of recess: Phil, Pozi, Torx
- material: carbon steel C1022
- coating type 1
- length: (16 to 120) mm

Determination of the product-type: see Annex 1 (page 2 of certificate)

Basis of Certificate issuance: Report - Determination of the product-type
30-10056/3 of 2014-01-30

Harmonized standard: EN 14592:2008+A1:2012, Tab. ZA.1

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Certificate E-30-20036-14, Annex 1

Determination of the product-type

Product	characteristic yield moment $M_{y,k}$ [Nmm]	characteristic withdrawal parameter $f_{ax,k}$ [N/mm ²]		characteristic head pull-through parameter $f_{head,k}$ [N/mm ²]			characteristic tensile capacity $f_{tens,k}$ [kN]	characteristic torsional ratio
		loading across the fibre	loading along the fibre	double flat head	oval head	double pan head		
-	-						-	-
Chipboard screws ø 4.0 mm	4 778	18,67	14,96	22,61	22,73	27,02	6,82	2,42
Characteristic density of wood ρ_k [kg/m ³]	-	410		410			-	450
Durability (i.e. corrosion protection)	zinc plated, yellow zinc plated, min. 3 µm (Service Class 1 acc. to EN 1995-1-1)							

Intended use: for structural timber products





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CERTIFICATE

Number: **E-30-20037-14**

Manufacturer: Shinn Rung Co., Ltd.
1F, No. 37, Lane 2, Sec 1
Jhong Shan Rd., Gueiren Dist.
Tainan City
Taiwan (R.O.C.)

Product,
Type/Model/Specification: Chipboard screws \varnothing 4.5 mm
- type of head: double flat, oval, double pan
- type of thread: full or partial
- type of recess: Phil, Pozzi, Torx
- material: carbon steel C1022
- coating type 1
- length: (18 to 150) mm

Determination of the product-
type: see Annex 1 (page 2 of certificate)

Basis of Certificate issuance: Report - Determination of the product-type
30-10056/4 of 2014-01-30


Harmonized standard: EN 14592:2008+A1:2012, Tab. ZA.1

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Director for Certification

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Certificate E-30-20037-14, Annex 1

Determination of the product-type

Product	characteristic yield moment $M_{y,k}$ [Nmm]	characteristic withdrawal parameter $f_{ax,k}$ [N/mm ²]		characteristic head pull-through parameter $f_{head,k}$ [N/mm ²]			characteristic tensile capacity $f_{tens,k}$ [kN]	characteristic torsional ratio
		loading across the fibre	loading along the fibre	double flat head	oval head	double pan head		
-	-						-	-
Chipboard screws ø 4.5 mm	5 691	18,14	14,81	22,28	22,53	26,26	8,17	2,13
Characteristic density of wood ρ_k [kg/m ³]	-	410		410			-	450
Durability (i.e. corrosion protection)	zinc plated, yellow zinc plated, min. 3 µm (Service Class 1 acc. to EN 1995-1-1)							

Intended use: for structural timber products





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CERTIFICATE

Number: **E-30-20038-14**

Manufacturer: Shinn Rung Co., Ltd.
1F, No. 37, Lane 2, Sec 1
Jhong Shan Rd., Gueiren Dist.
Tainan City
Taiwan (R.O.C.)

Product,
Type/Model/Specification: Chipboard screws \varnothing 5.0 mm
- type of head: double flat, oval, double pan
- type of thread: full or partial
- type of recess: Phil, Pozi, Torx
- material: carbon steel C1022
- coating type 1
- length: (20 to 250) mm

Determination of the product-
type: see Annex 1 (page 2 of certificate)

Basis of Certificate issuance: Report - Determination of the product-type
30-10056/5 of 2014-01-30

Harmonized standard: EN 14592:2008+A1:2012, Tab. ZA.1

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Certificate E-30-20038-14, Annex 1

Determination of the product-type

Product	characteristic yield moment $M_{y,k}$ [Nmm]	characteristic withdrawal parameter $f_{ax,k}$ [N/mm ²]		characteristic head pull-through parameter $f_{head,k}$ [N/mm ²]			characteristic tensile capacity $f_{tens,k}$ [kN]	characteristic torsional ratio
		loading across the fibre	loading along the fibre	double flat head	oval head	double pan head		
-	-						-	-
Chipboard screws ø 5.0 mm	8 096	18,57	13,82	21,48	21,27	25,12	9,38	2,11
Characteristic density of wood ρ_k [kg/m ³]	-	410		410			-	450
Durability (i.e. corrosion protection)	zinc plated, yellow zinc plated, min. 3 µm (Service Class 1 acc. to EN 1995-1-1)							

Intended use: for structural timber products





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CERTIFICATE

Number: **E-30-20039-14**

Manufacturer: Shinn Rung Co., Ltd.
1F, No. 37, Lane 2, Sec 1
Jhong Shan Rd., Gueiren Dist.
Tainan City
Taiwan (R.O.C.)

Product,
Type/Model/Specification: Chipboard screws \varnothing 6.0 mm
- type of head: double flat, oval, double pan
- type of thread: full or partial
- type of recess: Phil, Pozi, Torx
- material: carbon steel C1022
- coating type 1
- length: (24 to 400) mm

Determination of the product-
type: see Annex 1 (page 2 of certificate)

Basis of Certificate issuance: Report - Determination of the product-type
30-10056/6 of 2014-01-30

Harmonized standard: EN 14592:2008+A1:2012, Tab. ZA.1

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Certificate E-30-20039-14, Annex 1

Determination of the product-type

Product	characteristic yield moment $M_{y,k}$ [Nmm]	characteristic withdrawal parameter $f_{ax,k}$ [N/mm ²]		characteristic head pull-through parameter $f_{head,k}$ [N/mm ²]			characteristic tensile capacity $f_{tens,k}$ [kN]	characteristic torsional ratio
		loading across the fibre	loading along the fibre	double flat head	oval head	double pan head		
-	-						-	-
Chipboard screws ø 6.0 mm	12 280	18,87	15,02	19,98	19,76	24,20	13,35	3,29
Characteristic density of wood ρ_k [kg/m ³]	-	410		410			-	450
Durability (i.e. corrosion protection)	zinc plated, yellow zinc plated, min. 3 µm (Service Class 1 acc. to EN 1995-1-1)							

Intended use: for structural timber products

