



金屬工業研究發展中心
METAL INDUSTRIES RESEARCH &
DEVELOPMENT CENTRE

Certificate of Conformity

Product(s) : Mechanical Fastener
Type/Model : Self Tapping Screw(High Thread, Sharp point)
Series type : M3.5~M6.3 or #6~#14 (see Annex)
Technical File : KS-OI-Q2-060, SHEH FUNG SCREWS CO. LTD.

provided by

SHEH FUNG SCREWS CO. LTD.

810, Fusing W. Rd., Ciaotou, Kaohsiung 825, Taiwan

This is to certify that the type/model of product(s) has/have been assessed according to the conformity assessment procedures laid down in Chapter V of THE CONSTRUCTION PRODUCTS DIRECTIVE (89/106/EEC). The evaluation of conformity is based on the review of the above technical file. This certificate attests that all provisions concerning the attestation of conformity and the performances described in Annex ZA of the standard. The Result(s) is(are) in compliance with the requirements of the Directive & Applied Standard(s)

Article 7 of 89/106/EEC & EN 14566:2008 + A1:2009



Certificate No. : VF S1101 01 01
The certificate is issued on 2011/02/23
The certificate is valid until 2014/02/22



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Statement of Responsibility

This Certificate of conformity only approves that this product(s) capability show (s) conformity of the applicable Directive(s)/Regulation(s). The manufacturer & purchaser of this product are still responsible for controlling the quality of the material through their own quality system.



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Annex (Certificate No. : VF S1101 01 01)

Product Specification & Description

Family of Screw Commodity	Self Tapping Screw (High Thread, Sharp point)
Common Name of Commodity	■ Self Tapping Screw(Coarse Thread) ■ Drywall Screw(Coarse Thread) ■ Deck Screw ■ Wood Screw ■ Chipboard Screw
Common Use (Intended Use)	■ Timber(Wood)/PB ■ Timber(Wood)/Timber(Wood) ■ PB/insulation
Materials	Carbon Steel <u>AISI C1018 ~ 1022</u>
DGN of EN 14566:2008 + A1:2009	THN

Description of Head Shape

Description	Applicable Specifications & Standards
Hex Washer Head	ASME B18.6.4, DIN 6928, ISO 7053, ISO 15480
Hex Head	ASME B18.6.4, DIN 7976, ISO 1479
Hex Flange Head	DIN 6921, ISO 10509, AS 3566
Flat/Trim Head	ASME B18.6.4, DIN 7972, DIN 7982, ISO 1482, ISO 7050, ISO 14586, ISO 15482, AS 3566
Pan Head	ASME B18.6.4, DIN 7971, DIN 7981, DIN 7996, ISO 1481, ISO 7049, ISO 14585, ISO 15481
Pan Washer Head	DIN 967, DIN 968
Pan Framing Head	Modified from Pan Head
Oval Head	ASME B18.6.4, DIN 7973, DIN 7983, ISO 1483, ISO 7051, ISO 14587, ISO 15483
Round Head	DIN 96, ASME B18.6.3, DIN 7996
Round Washer Head	ASME B18.6.3, DIN 967(pan head with collar)
Truss Head	ASME B18.6.3
Truss Washer Head	Modified from Truss Head with washer, AS 3566
Modified Truss Head (Button Head)	Modified from Truss Head or AS 3566, ASME B18.3, ISO 7380-1, ISO 7380-2
Wafer Head	AS 3566
Bugle Head	DIN 18182-2, AS 3566
Double Bugle Head	Modified from Bugle Head
Pancake Head	Modified from Truss Head
Square Head	Modified from ASME B18.9
Socket Head	DIN 912, ASME B18.3, ISO 4762, ISO 4762, ISO 7379, ISO 12474, ISO 14579
Double Flat Head	Modified from Flat/Trim Head



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Description of Slot Shape

Description	Applicable Specifications & Standards
Slotted Countersunk (Minus shape)	ASME B18.6.4, DIN 7971, DIN 7972, DIN 7973, ISO 1481, ISO 1482, ISO 1483
Cross Recessed & Countersunk	ASME B18.6.4(Type I, Type IA, Type II), DIN 967(Type H, Type Z), DIN 968(Type H, Type Z), DIN 7981(Type H, Type Z), DIN 7982(Type H, Type Z), DIN 7983(Type H, Type Z), ISO 7721-2(Type H, Type Z), ISO 7048(Type H, Type Z), ISO 7049(Type H, Type Z), ISO 7050(Type H, Type Z), ISO 7051(Type H, Type Z), ISO 15481(Type H, Type Z), ISO 15482(Type H, Type Z), ISO 15483(Type H, Type Z), AS 3566
Square	ASME B18.6.3
Hexalobular socket (Six lobe shape, Torx shape)	ISO 14579, ISO 14580, ISO 14583, ISO 14584, ISO 14585, ISO 14586, ISO 14587, ISO 10664
Socket	DIN 912, ASME B18.3, ISO 4027, ISO 4028, ISO 4029, ISO 4762, ISO 7379, ISO 7380, ISO 10642, ISO 14583, ISO 14584, ISO 14585, ISO 14586, ISO 14587, ASME B18.3
Phil/Slot	ASME B18.6.3
Pozi/Slot	ASME B18.6.3
Square/Slot	ASME B18.6.3
Six lobe shape/Torx shape with Minus shape	Modified from ASME B18.6.3, ISO 14579, ISO 14580, ISO 14583, ISO 14584, ISO 14585, ISO 14586, ISO 14587

Description of Thread

Description	Applicable Specifications & Standards
Coarse Thread	ASME B18.6.4(Type A), DIN 7970, 18182-2(Coarse, Single Thread)
Wood Thread	ASME B18.6.1, DIN 7998

Description of Point

Description	Applicable Specifications & Standards
Sharp point	ASME B18.6.4, DIN 18182-2, DIN 968, DIN 6928, DIN EN ISO 1478, DIN EN ISO 10510, ISO 1479, ISO 1481, ISO 1482, ISO 1483, ISO 7049, DIN 7981, ISO 7050, ISO 7051
Cone end	ISO 1478,
Rounded end	ISO 1478,



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Description of Dimension

Description	Applicable Scope of Dimension
Diameter of shank	M3.5~M6.3 or #6~#14
Length	200 mm or 8" Max

Description of corrosion protection & Reaction to Fire

Protective Treatment, Coating Thickness & Classes of corrosion protection(when tested in accordance with EN ISO 9227)	Reaction to Fire (EN 1350-1)
Zinc Plating, Minimum 5 μ m, above Class 24	Classified A1
Black Zinc Plating, Minimum 5 μ m, above Class 24	Classified A1
Yellow Zinc Plating, Minimum 5 μ m, Class 24	Classified A1
Black phosphate, Class 48	Classified A1
Gray phosphate, Class 48 or Class 96	Classified A1
Dacromet, above Class 96 or specified in individual order	Classified A1
Ruspert, above Class 96 or specified in individual order	Classified A1
E-Coating, above Class 96 or specified in individual order	Classified A1
Galvanizing(Mechanical Galvanizing), Minimum 25 μ m, above Class 96 or specified in individual order	Classified A1
ELECTRO Coating, above Class 96 or specified in individual order	Classified A1
Tuf Coating, above Class 96 or specified in individual order	Classified A1

Note : The case hardened carbon steel heat treatment hardened fastener shall be with protective treatment to corrosion protection class appropriately.

Description of Mechanical Behavior

Mechanical Behavior specified in EN 14566:2008 + A1:2009	Description
Withdrawing Force	Minimum value of 450N when tested according to clause 5.4 of EN 14566:2008 + A1:2009
Bending behavior	The fastener is clamped in such a way as to resist bending at two points A and B (see Figure 3 of EN ISO 12777-3:2002). A force is then applied to the unclamped portion of the fastener at a set point C, using a pivot bending actuator to which torque is applied. Slowly apply a force to produce a bend (10° and 15° for pointed and flat end screws). There is no breakage or signs of cracking visible with 10 × magnifying lens



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Drilling Performance	Drilling Time test according to clause 5.6 of EN 14566:2008 + A1:2009 Power Screwdriver : 300W ~ 350W (2,350 ± 350 RPM) Power Screwdriver + dead weight = 15 Kg 1s for 0.6±0.04 mm galvanized steel sheet to EN 10327
Case Hardening Hardness	Minimum case Depth 0.05 mm, Minimum Case Hardness HRC 55 according to clause 4.4.3.5 of EN 14566:2008 + A1:2009

Note :

1. The mandatory Mechanical Behavior of this screw family is based on the requirements of EN 14566:2008 + A1:2009.
2. The type testing shall be conducted and the results of type testing or factory inspection shall provide the conformity evidence of EN 14566:2008 + A1:2009.
3. The routine tests shall be carried out according to the requirements specified in the order(s) or invoice(s).
4. The inspection document(s) shall show the inspection result(s) for individual order(s) or invoice(s).

Facilities

810, Fusing W. Rd., Ciaotou, Kaohsiung 825, Taiwan

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