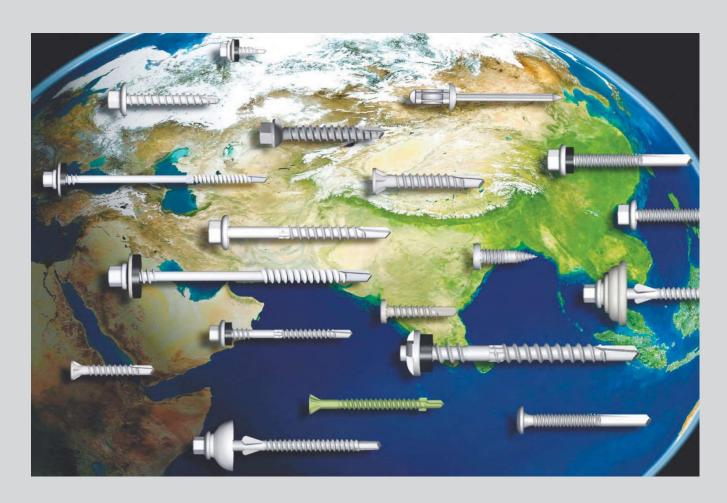


Self Drilling Screws, Flashings, Sealants, Rivets, Hill Side Washers, Butyl Tape, Foundation Bolts & High Tensile Bolts,

Self Drilling Screws - Product Catalogue







Corporate Profile

TUFFIX® is one of the fastest growing brand in Metal Building Industry .With one of the Best Technical Expertise and collaboration TUFFIX® has been manufacturing quality fasteners for around the World .We understand fasteners as per local environment and act globally . TUFFIX® is into Self Drilling Fasteners, Sealants, Butyl Tape, Butyl Sealants, Silicone Sealants , Rivets, High Tensile Selective Nuts and Bolts for PEB, HILLSIDE Washers and Anchor Fasteners.

We have our Network widely spread in India, Nepal, Sri Lanka and Bangladesh.

TUFFIX® is committed to being the leading manufacturer and marketer of construction fastener solutions based on:

1. Innovative Fasteners

2. Outstanding Quality

3. Uncompromising Customer Service

Double thread system for single skin system

Why the corrosion resistance of $\mathsf{TUFFIX}^{\otimes}$ roofing fasteners is the same on the shanks as the heads.

Under roof corrosion of roofing fasteners is the great hidden danger. All protective coatings are subject to damage during installation. This damage is duebscratching by the roof sheeting along the shank of the fastener

A better way to overcome is by having grips Roof Fixing

Double grip WITH MBW from $\mathsf{TUFFIX}^{\otimes}$ is a revolutionary design in roof fasteners that overcomes the traditional problems with crest fixing metal roofing to steel or timber .



INNOVATIONS FROM TUFFIX® FOR BETTER PERFORMANCE



Metal Bonded Washer along With Hex Flange of 14mm Ensure leak proof system even After over tightening and removes the possibility of seal breakages.



Trilobular Wings at the upper end ensure Polycarbonate sheets are not getting micro cracked and EPDM dome ribbed washer helps closure of gap.



Metal Bonded Washer along with Double Thread helps to have better leak proof solution for single skin roofing system.



CYCLONIC Washer 2.5mm thick assists to distribute load and thereby Increases Pull Over Load by 2 Times. 100% Aluminum Design helps in Corrosion resistance and trapezoidal Design given strength to the system.



Easy identification – "S "means SDS "3" means Class 3.

TUFFIX® • Warranty

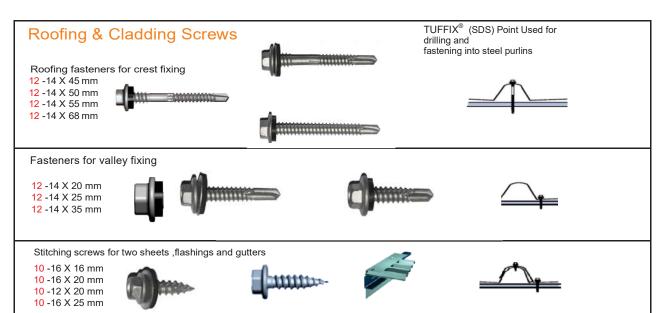


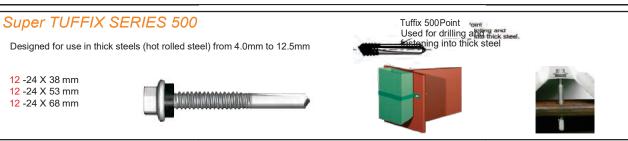
TUFFIX° fasteners are made to exacting high standards of quality and are subjected to strict inspection and testing procedures. TUFFIX` is so confident that it can guarantee the highest quality and performance of its fasteners.

S3 fasteners from TUFFIX® are successfully tested

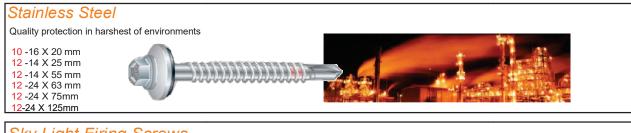
S3 fasteners from TUFFIX® are successfully tested against 1000hrs Salt Spray Test and assures Warranty of 15 Years under Light Industrial / Urban (ISO Category 2) and conforms to AS3566- 2002, Class 3 standards and Kesternish ASTM G87 for minimum 15 Cycles.

These fasteners are coated with Zinc and Polyester based coating of 30- 35 Microns thickness and super coated with Florocote. This Tripple layer coating ensures better corrosion Performance and resist the base material AISI1022 from corrosion after fastening to the Purlin. Washer is Non Conductive EPDM as per ASTM – D 257









Sky Light Firing Screws

For Fixing of Polycarbonate Sheet 14 -14 X 70 mm PolyTeks Hex Head S3 with 26/32mm EPDM Seal





GAUGE OF FASTENER

THREADPERINCH

LENGTH OF FASTENER

Other Information

Raw Material	Low Carbon Steel – AISI 1022
Application	S3 Head Mark fasteners from TUFFIX® are designed for fixing metal to metal from 1mm to 4.5mm thick Purlins .with TK3 , 3mm to 6mm for TK4 point and 4mm to 12.5 mm for TK5 point.
Installation Instructions	 Ensure the total thickness of metals to be joined does not exceed 2mm for TEK2, 4.5mm for TEK3, 6mm for TEK4 and 12.5mm for TEK5 Use appropriate Hex / PH Drive Socket for the appropriate gauge of Screw Fit driver to a power screwdriver approximately 2500rpm. Avoid Using Drill Machine for Screw Driving. Fit screw to driver and place at fastening position Use maximum revs for drilling then slow down when thread engages in order to screw properly. Please note that Hollow section need not be drilled through on both sides. Use Screws with Metal Bonded Washers wherever possible to have leak proof installation. Always take extra care in installation of Polycarbonate with Poly Screw.
Storage Information	The screw stock should be stored in ventilated area
Cyclonic Washers	All Cyclonic Washers should be used with EPDM on both sides of Washer Plate

TECHNICAL SPECIFICATIONS

Dimensional Properties

		DIMENSIONA	LPERFOR	MANCE ON SAMPLIN	G BASIS I/100IVI	_			
Type of Screw	Description	Dia (d)		Length		Flange Dia		Flange Thickness	
		Standard	Actual	Standard (mm)	Actual(mm)	Standard	Actual	Standard	Actual
O B	HWF5 10-12X20	4.65 - 4.80	4.7		19.8	11	11.2	2.1	2.1
O E	HWFS 10-16X20/25	4.65 - 4.80	4.7		19.7/24.8	11	11.2	1.59	1.59
	HWFS 12-14X20/25/35/45/55/68/100/120	5.31 - 5. <mark>4</mark> 6	5.4		20/24.9/35.1/45/54.8/68/100.1/119.5	14	14	1.8	1.8
O E	HWFS 12-24X38/65/95	5.32 - 5.49	5.4	Screw Length ≤20	37.9/64.9/95.1	14	14	1.06	1.06
O Emm immum	HWFS 12-14X55/75	5.31 - 5.46	5.4	Tolerance +0,-0.6 Screw Length >20, ≤40 Tolerance +0,-1 Screw	55/75.1	14	14	1.8	1.8
O Daminima I	HWFS 14-14X35/68(poly)	6.10 -6.25	6.2	Length ≥ 40 Tolerance +0 , -1.2	34.9/68	14	14	1.8	1.8
©:	HWFS 12-14X70	5.31 - 5.46	5.4		69.7	14	14	1.8	1.8
(mmmm	WH 10-16X20/35	4.65 - 4 <mark>.8</mark> 0	4.7		21/34.5	NA	NA	NA	NA
+	CS 8-18X25/35	4.1 - 4.2	4.15] [24.5/35.1	NA	NA	NA	NA
+ P	CS 10-16X30/50	4.75 - 4.80	4.78] [29.8/49.9	NA	NA	NA	NA

^{*&}quot; For any further technical details please contact our AUTHORISED Representative

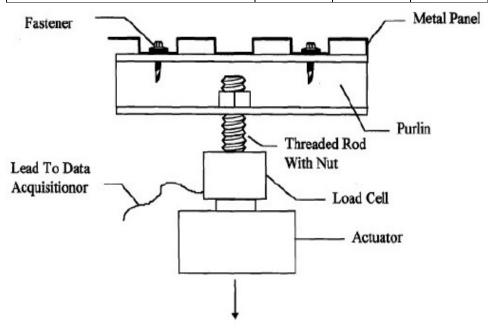
DESIGN ASPECTS FOR MECHANICAL FEATURES OF SCREW

CHEMICAL COMPOSITION ON SAMPLING BASIS I/100M - AISI 1022					
CHEMICAL COMPOSITION	CARBON	MANGANESE	PHOSPHORUS		
STANDARD RANGE	0.18% - 0.23%	0.6% - 0.9%	≤ 0.03%		
ACTUAL %	0.21%	0.73%	0.01%		

MECHANICAL PROPERTIES

Guage	TPI	Single Shear (KN)	Axial Tensile (KN)	Torsional (Nm)
5.5mm/12g	14	8.8	15.3	13.2
4.8mm/10g	16	6.8	11.4	8.4
4.8mm/10g	24	6.2	11.9	8.6
5.5mm/12g	24	9.0	16.7	13.5
6.3mm/14g	20	11.2	21.2	20.4

ULTIMATE PULL OVER LOAD IN NEWTONS 550 MPA YIELD STRENGTH OF SHEET					
тст	0.47	0.55	0.63		
12 gauge with EPDM	7711	9024	10336		
14 gauge with EPDM	8523	9973	11424		
12 with 16 MBW	12987	15198	17408		
14 with 19 MBW	15422	18047	20672		



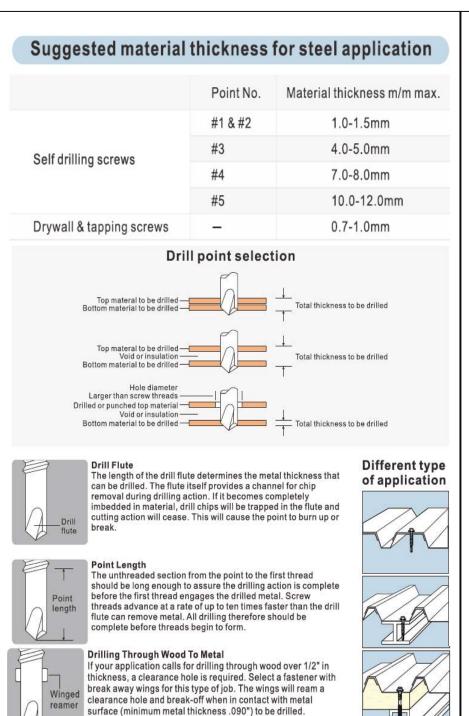
DESIGN ASPECTS FOR MECHANICAL FEATURES OF SS 304/316 SCREW

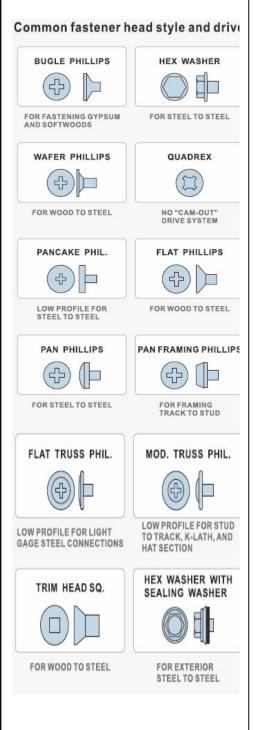
Steel	С	Si	Mn	Р	S	Ni	Cr	Мо	Cu
SUS XM7	Max	Max	Max	Max	Max	8.00~	17.00~	_	3.00~
(302 HQ)	0.03	1.00	2.00	0.045	0.030	10.00	19.00		4.00
SUS 304 (304 M)	Max 0.08	Max 1.00	Max 2.00	Max 0.045	Max 0.030	8.00~ 10.00	18.00~ 20.00	_	_
SUS 316	Max	Max	Max	Max	Max	10.00~	16.00~	2.00~	3.00~
(316CU)	0.03	1.00	2.00	0.045	0.030	14.00	18.00	3.00	4.00

	Tensile Strength kgf (min)				
Steel Thickness	#12 (Ø	5.5)	#14 (Ø6.3)		
(0.00)	NO.3 Point	NO.5 Point	NO.3 Point	NO.5 Point	
2	300	:-:	310		
3	530	;—x	580	_	
4	780	-	800	-	
6	810	8-8	900	-	
10	-	920	-	1050	
12		920	_	1050	

Drill Point	Size	Torque Strer			
	-	SUS304 SUS316	SUS302	Tensile Strength kgf(min)	Shear Strength kgf(min)
	#8 (Ø4.2)	45	36	-	-
	#10 (Ø4.8)	52	42	-	-
NO.3 Point	#12 (Ø5.5)	84	68	810	620
	#14 (Ø6.3)	132	_	900	710
NO E Polot	#12 (Ø5.5)	84	68	920	650
NO.5 Point	#14 (Ø6.3)	132	_	1050	745

DESIGN ASPECT FOR PHYSICAL FEATURES OF SCREW





TUFFIX® is one of leading manufacturers and suppliers of Self Drilling Screws and fasteners from TAIWAN

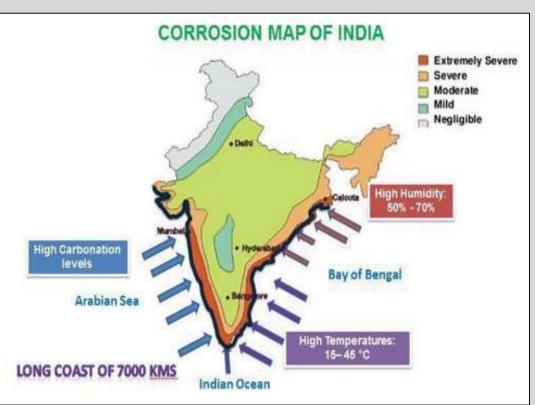
- Once tested always preferred inroofing industry
- The wide spread network in India and across the World with quick deliveries
- Company endorsed with ISO9001
- Inventor of Leak proof System in PEB
- Only company who does Real World Testing of fasteners regularly
- Allour fasteners Complies to AS 3566-2002 Standard
- Guaranteed yield per screw
- Highest yield perscrew
- Best quality fasteners in the industries







- S-3 HEAD MARK **RECOMMENDED** FOR ALL THE **ZONES EXCEPT EXTREME SEVERE** (ORANGE COLOR)
- FOR EXTREME **SEVERE S-3 HEAD** MARK WITH **POWDER COLOR COATED HEAD WITH** MBW IS **RECOMMENDED** OR SS 304 BI-METALLIC SDS IS RECOMMENDED.



TUFFIX® DISTRIBUTION NETWORK:

NORTH: LUDHIANA, DELHI, JAIPUR, KANPUR, CHANDIGARH, INDORE, BHOPAL, JHANSI, GWALIOR, JAIPUR, JODHPUR, JAMMU, AMBALA
SOUTH: SALEM, COIMBATORE, TIRUNELVELI, MADURAI, COCHIN, TRIVENDRUM, BANGALORE, VIJAYWADA, HYDERABAD, VISHAKAPATNAM, HUBLI, MYSORE, PONDICHERRY
EAST: KOLKATA, JAMSHEDPUR, CUTTACK, BHIUBANESHWAR, SHILLONG, RAIPUR, ROURKELA
WEST: MUMBAI, PUNE, NAGPUR, NASIK, AHMEDABAD, SURAT, BARODA, GOA, SILVASSA, RAJKOT



India Office

(S-3 FASTENERS) 42, Paper Mills Road, Perambur, Chennai - 600011 Authorized Distributor/Dealer

Arkoo Infra & Trade Pvt. Ltd.

S.NO-87/1, Kute Sukhvastu, FI No. 103

Walhekarwadi Ravet Road, Chinchwad

Pune411033

Email-info@arkooinfra.com

For More Information Please Contact our Authorized Dealers in respective region

Note: The contents of this brochure are the exclusive copyright of TUFFIX® and may not be reproduced without