



No.3 drill tip. Self-Drilling in light gauge steel upto 5mm



No.5 drill tip. Self-Drilling in heavy gauge steel upto 12.5mm

## DESCRIPTION

- Roofing and Cladding Timber to Steel
- Screw fitted with breakaway wings that create a clearance hole to protect thread from engaging timber when drilling through
- Breakaway wings will ream a hole then break-off when they contact the metal surface to be drilled. Thread will then engage with metal
- Torx® compatible insert for a higher transmission of power
- Improved countersinking from recessed ribs
- Fire and corrosion resistant, protected by Elementech corrosion resistant coating, salt spray tested to 1000 hours
- Complies with EU Safety, Health and Environmental requirements

## APPLICATIONS

- Used for joining Timber to steel frame buildings

## CE APPROVED



- Tested to European inspection and certification standards EN 14566:2008+A1:2009

## PRODUCT OVERVIEW

Code	Diameter (mm)	Length (mm)	Head	Recess	Finish	Box Qty	Bag Qty
● TFCUWWS4838L	4.8	38	Countersunk	Torx®	Elementech	100	•
● TFCUWWS5540L	5.5	40	Countersunk	Torx®	Elementech	100	•
● TFCUWWS5550L	5.5	50	Countersunk	Torx®	Elementech	100	•
● TFCUWWS5560L	5.5	60	Countersunk	Torx®	Elementech	100	•
● TFCUWWS5565L	5.5	65	Countersunk	Torx®	Elementech	100	•
● TFCUWWS5580L	5.5	80	Countersunk	Torx®	Elementech	100	•
● TFCUWWS55100L	5.5	100	Countersunk	Torx®	Elementech	100	•
● TFCUWWS55110L	5.5	110	Countersunk	Torx®	Elementech	50	•
● TFCUWWS55120L	5.5	120	Countersunk	Torx®	Elementech	50	•
● TFCUWWS55150L	5.5	150	Countersunk	Torx®	Elementech	50	•
● TFCUWWS5550H	5.5	50	Countersunk	Torx®	Elementech	100	•
● TFCUWWS5560H	5.5	60	Countersunk	Torx®	Elementech	100	•
● TFCUWWS5565H	5.5	65	Countersunk	Torx®	Elementech	100	•
● TFCUWWS5585H	5.5	85	Countersunk	Torx®	Elementech	100	•
● TFCUWWS55100H	5.5	100	Countersunk	Torx®	Elementech	100	•
● TFCUWWS55110H	5.5	110	Countersunk	Torx®	Elementech	50	•
● TFCUWWS55120H	5.5	120	Countersunk	Torx®	Elementech	50	•
● TFCUWWS55135H	5.5	135	Countersunk	Torx®	Elementech	50	•
● TFCUWWS55150H	5.5	150	Countersunk	Torx®	Elementech	50	•
● TFCL4838	4.8	38	Countersunk	Torx®	Elementech	•	100
● TFCL5550	5.5	50	Countersunk	Torx®	Elementech	•	100
● TFCL5560	5.5	60	Countersunk	Torx®	Elementech	•	100
● TFCL5585	5.5	85	Countersunk	Torx®	Elementech	•	50
● TFCL55109	5.5	109	Countersunk	Torx®	Elementech	•	50
● TFCH5560	5.5	60	Countersunk	Torx®	Elementech	•	100
● TFCH5585	5.5	85	Countersunk	Torx®	Elementech	•	50
● TFCH55109	5.5	109	Countersunk	Torx®	Elementech	•	50

Protected by



**elementech**  
1000

1000 Hour Salt Spray Tested

## TECHNICAL INFORMATION

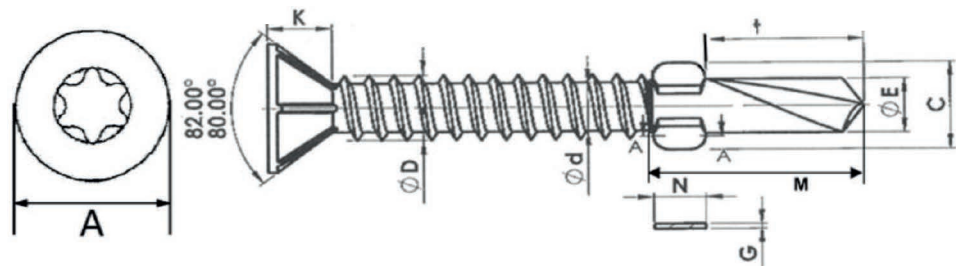
	Size (mm)	Drill Point	Steel Thickness	Insert Bit Size	Effective Thread Length	Clamping Thickness	Recommended Drill Speed (RPM)	Torque	Tensile Strength	Shear Strength
●	4.8 x 38	No.3	1.2-5.0mm	T25	21mm	21mm	1500-2500	75KG Min.	15.0kN	10.3kN
●	5.5 x 40	No.3	1.2-5.0mm	T30	19mm	20mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 50	No.3	1.2-5.0mm	T30	29mm	30mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 60	No.3	1.2-5.0mm	T30	39mm	40mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 65	No.3	1.2-5.0mm	T30	44mm	45mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 80	No.3	1.2-5.0mm	T30	59mm	60mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 85	No.3	1.2-5.0mm	T30	64mm	65mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 100	No.3	1.2-5.0mm	T30	79mm	80mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 109	No.3	1.2-5.0mm	T30	88mm	89mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 110	No.3	1.2-5.0mm	T30	89mm	90mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 120	No.3	1.2-5.0mm	T30	99mm	100mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 150	No.3	1.2-5.0mm	T30	129mm	130mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 50	No.5	4.0-12.5mm	T30	22mm	21mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 60	No.5	4.0-12.5mm	T30	32mm	31mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 65	No.5	4.0-12.5mm	T30	37mm	36mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 85	No.5	4.0-12.5mm	T30	57mm	56mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 100	No.5	4.0-12.5mm	T30	72mm	71mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 109	No.5	4.0-12.5mm	T30	81mm	80mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 110	No.5	4.0-12.5mm	T30	82mm	81mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 120	No.5	4.0-12.5mm	T30	92mm	91mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 135	No.5	4.0-12.5mm	T30	107mm	106mm	1500-2500	120KG Min.	15.0kN	10.3kN
●	5.5 x 150	No.5	4.0-12.5mm	T30	122mm	121mm	1500-2500	120KG Min.	15.0kN	10.3kN

Self-Drilling in  
Light Gauge  
Steel upto  
5mm

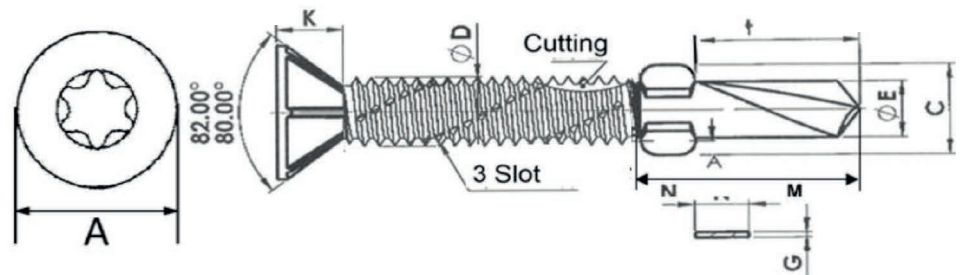
Self-Drilling in  
Heavy Gauge  
Steel upto  
12.5mm

Wings ream  
hole larger  
than threads so  
threads will not  
engage timber

Wings break off  
when they hit  
steel, then the  
threads engage



	A	K	G	N	C	D	d	M	E	t	Pitch	
M4.8	MIN.	9.14	3.50	0.25	3.30	5.80	4.62	3.43	12.50	3.80	7.30	1.60
	MAX.	9.50	3.50	0.35	3.30	6.30	4.80	3.58	12.50	4.00	8.30	1.60
M5.5	MIN.	10.37	4.50	0.30	3.50	6.80	5.28	3.98	15.50	4.60	10.00	1.81
	MAX.	10.80	4.50	0.40	3.50	7.20	5.46	4.16	15.50	4.70	11.00	1.81



	A	K	G	N	C	D	M	E	t	Pitch	
M5.5	MIN.	10.37	4.50	0.35	3.50	6.80	5.32	24.50	4.90	18.50	1.06
	MAX.	10.80	4.50	0.45	3.50	7.20	5.49	24.50	5.00	19.50	1.06

- **Material:** C1022
- **Surface Hardness:** 0.02-0.05 595 HV Min.
- **Core Hardness:** 430 HV Max.
- **Case Depth:** 0.10 450 HV Min.

- **Material:** C1022
- **Surface Hardness:** 560 HV Min.
- **Core Hardness:** 430 HV Max.
- **Case Depth:** 0.15 450 HV Min.