

# Declaration of Performance

## TechFast Window Screw - Self-tapping Self-drilling

Document Number:  
DOPTF819

1. Unique identification code of the product-type:

TechFast Window Screw - Self-tapping Self-drilling

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Head: Countersunk. Recess: Torx. Full/Partial Thread. Material 10B21

3. Intended use or uses of the construction product, in accordance with the applicable harmonised/designated technical specification, as foreseen by the manufacturer:

For PVCu window/door frame with metal reinforcement

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

ForgeFix Ltd. Galleon Blvd, Crossways Bus. Park, Dartford, Kent DA2 6QE, UK.

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

Tucks Fasteners Ltd. Century Bus. Park, 10 St Margaret's Rd, Dublin, D11 TN80, IE.

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

AVCP System 4

7. Harmonised / Designated standard:

EN 14566:2008+A1:2009

8. Notified body/ies:

Notified Body: N/A

European Technical Assessment: N/A

9. Declared performance/s:

### TechFast Window Screw Self-tapping Self-drilling - Flexural Strength Test

Size	Sample Screw No.	Breakage or Cracking
3.9mm	1-50	Pass
4.8mm	1-50	Pass

**Summary:** Pass: 50 pcs Fail: 0 pcs

TechFast Window Screw Self-tapping Self-drilling - Withdrawal Test 3.9mm

No.	Withdrawal Force
1	467N
2	501N
3	469N
4	489N
5	497N
6	487N
7	488N
8	475N
9	495N
10	483N
11	497N
12	475N
13	469N

No.	Withdrawal Force
14	487N
15	509N
16	497N
17	489N
18	497N
19	487N
20	483N
21	475N
22	486N
23	483N
24	483N
25	467N
26	469N

No.	Withdrawal Force
27	467N
28	501N
29	569N
30	488N
31	479N
32	487N
33	468N
34	485N
35	495N
36	487N
37	497N
38	479N
39	474N

No	Withdrawal Force
40	467N
41	501N
42	493N
43	489N
44	497N
45	487N
46	491N
47	475N
48	495N
49	476N
50	497N

Summary: Pass: 50 pcs Fail: 0 pcs

Test Result: PASS

TechFast Window Screw Self-tapping Self-drilling - Withdrawal Test 4.8mm

No.	Withdrawal Force
1	782N
2	816N
3	803N
4	798N
5	774N
6	775N
7	772N
8	770N
9	769N
10	777N
11	780N
12	781N
13	780N

No.	Withdrawal Force
14	810N
15	802N
16	774N
17	772N
18	800N
19	801N
20	798N
21	790N
22	770N
23	780N
24	800N
25	805N
26	781N

No.	Withdrawal Force
27	802N
28	798N
29	796N
30	795N
31	790N
32	770N
33	800N
34	790N
35	792N
36	785N
37	788N
38	779N
39	771N

No	Withdrawal Force
40	768N
41	805N
42	774N
43	777N
44	816N
45	804N
46	797N
47	798N
48	760N
49	755N
50	805N

Summary: Pass: 50 pcs Fail: 0 pcs

Test Result: PASS



TechFast Window Screw Self-tapping Self-drilling - Point Test (Drilling Performance) 3.9mm

No.	Drilling Time	No.	Drilling Time	No.	Drilling Time	No	Drilling Time
1	1.67s	14	1.67s	27	1.60s	40	1.62s
2	1.65s	15	1.65s	28	1.53s	41	1.55s
3	1.63s	16	1.63s	29	1.65s	42	1.63s
4	1.62s	17	1.59s	30	1.62s	43	1.62s
5	1.66s	18	1.62s	31	1.69s	44	1.56s
6	1.62s	19	1.52s	32	1.62s	45	1.62s
7	1.61s	20	1.57s	33	1.64s	46	1.61s
8	1.63s	21	1.67s	34	1.63s	47	1.60s
9	1.65s	22	1.68s	35	1.65s	48	1.65s
10	1.66s	23	1.57s	36	1.60s	49	1.66s
11	1.67s	24	1.65s	37	1.68s	50	1.57s
12	1.60s	25	1.60s	38	1.62s		
13	1.63s	26	1.53s	39	1.63s		

Summary: Pass: 50 pcs Fail: 0 pcs

Test Result: PASS

TechFast Window Screw Self-tapping Self-drilling - Point Test (Drilling Performance) 4.8mm

No.	Drilling Time	No.	Drilling Time	No.	Drilling Time	No	Drilling Time
1	1.56s	14	1.44s	27	1.88s	40	1.58s
2	1.49s	15	1.45s	28	1.50s	41	1.48s
3	1.52s	16	1.50s	29	1.46s	42	1.44s
4	1.48s	17	1.51s	30	1.70s	43	1.43s
5	1.37s	18	1.78s	31	1.50s	44	1.45s
6	1.26s	19	1.85s	32	1.35s	45	1.48s
7	1.58s	20	1.30s	33	1.38s	46	1.45s
8	1.60s	21	1.50s	34	1.27s	47	1.42s
9	1.48s	22	1.20s	35	1.25s	48	1.38s
10	1.38s	23	1.22s	36	1.36s	49	1.48s
11	1.37s	24	1.46s	37	1.56s	50	1.55s
12	1.55s	25	1.50s	38	1.55s		
13	1.46s	26	1.52s	39	1.54s		

Summary: Pass: 50 pcs Fail: 0 pcs

Test Result: PASS

TechFast Window Screw Self-tapping Self-drilling - Length Test ( Dimension Measurement) 3.9 x 45mm

No.	Length
1	44.5mm
2	44.68mm
3	44.41mm
4	44.54mm
5	44.62mm
6	44.50mm
7	44.68mm
8	44.53mm
9	44.62mm
10	44.69mm
11	44.67mm
12	44.53mm
13	44.63mm

No.	Length
14	44.5mm
15	44.68mm
16	44.95mm
17	44.58mm
18	45.32mm
19	44.64mm
20	44.68mm
21	44.93mm
22	44.62mm
23	44.79mm
24	44.84mm
25	44.78mm
26	44.63mm

No.	Length
27	44.53mm
28	44.68mm
29	44.41mm
30	44.54mm
31	45.62mm
32	44.67mm
33	44.89mm
34	44.53mm
35	45.6mm
36	44.69mm
37	44.67mm
38	44.68mm
39	44.63mm

No	Length
40	45.59mm
41	44.68mm
42	45.6mm
43	44.59mm
44	45.66mm
45	44.57mm
46	44.68mm
47	45.73mm
48	44.65mm
49	44.69mm
50	44.67mm

Summary : Pass: 50 pcs Fail: 0 pcs

Test Result : PASS

TechFast Window Screw Self-tapping Self-drilling - Length Test ( Dimension Measurement) 4.8 x 38mm

No.	Length
1	38.16mm
2	38.22mm
3	38.48mm
4	38.12mm
5	38.20mm
6	37.99mm
7	38.00mm
8	36.88mm
9	38.10mm
10	39.10mm
11	38.99mm
12	37.50mm
13	38.20mm

No.	Length
14	38.89mm
15	38.90mm
16	38.95mm
17	37.58mm
18	38.10mm
19	38.45mm
20	38.59mm
21	38.60mm
22	38.75mm
23	38.69mm
24	38.79mm
25	38.12mm
26	38.52mm

No.	Length
27	38.56mm
28	38.56mm
29	38.79mm
30	38.44mm
31	38.52mm
32	38.56mm
33	38.15mm
34	38.15mm
35	38.56mm
36	38.78mm
37	38.15mm
38	38.10mm
39	38.49mm

No	Length
40	38.25mm
41	38.36mm
42	38.59mm
43	38.50mm
44	38.43mm
45	38.37mm
46	38.79mm
47	38.22mm
48	38.25mm
49	38.12mm
50	38.38mm

Summary: Pass: 50 pcs Fail: 0 pcs

Test Result: PASS



TechFast Window Screw Self-tapping Self-drilling - Hardness Test 3.9mm

No.	Hardness	No.	Hardness	No.	Hardness	No	Hardness
1	58.4 HRC	14	59.5 HRC	27	58.2 HRC	40	55.8 HRC
2	60.0 HRC	15	58.2 HRC	28	57.1 HRC	41	56.5 HRC
3	58.5 HRC	16	56.9 HRC	29	58.5 HRC	42	56.7 HRC
4	58.6 HRC	17	56.9 HRC	30	57.2 HRC	43	56.9 HRC
5	57.8 HRC	18	56.9 HRC	31	57.0 HRC	44	56.7 HRC
6	56.9 HRC	19	57.8 HRC	32	57.2 HRC	45	57.9 HRC
7	58.7 HRC	20	57.9 HRC	33	59.4 HRC	46	56.9 HRC
8	58.8 HRC	21	57.1 HRC	34	59.3 HRC	47	56.8 HRC
9	57.5 HRC	22	57.8 HRC	35	58.7 HRC	48	57.8 HRC
10	57.1 HRC	23	57.5 HRC	36	57.9 HRC	49	57.5 HRC
11	58.0 HRC	24	58.9 HRC	37	56.8 HRC	50	58.3 HRC
12	57.2 HRC	25	59.9 HRC	38	58.1 HRC		
13	58.5 HRC	26	57.6 HRC	39	56.7 HRC		

Summary: Pass: 50 pcs Fail: 0 pcs

Test Result: PASS

TechFast Window Screw Self-tapping Self-drilling - Hardness Test 4.8mm

No.	Hardness	No.	Hardness	No.	Hardness	No	Hardness
1	58.4 HRC	14	59.9 HRC	27	58.9 HRC	40	58.2 HRC
2	60.0 HRC	15	58.2 HRC	28	58.1 HRC	41	57.8 HRC
3	58.5 HRC	16	59.9 HRC	29	58.0 HRC	42	57.7 HRC
4	58.7 HRC	17	58.9 HRC	30	57.2 HRC	43	58.9 HRC
5	57.8 HRC	18	58.9 HRC	31	58.0 HRC	44	56.7 HRC
6	56.9 HRC	19	57.8 HRC	32	57.2 HRC	45	57.2 HRC
7	58.7 HRC	20	56.8 HRC	33	56.4 HRC	46	56.9 HRC
8	56.8 HRC	21	57.1 HRC	34	58.3 HRC	47	57.3 HRC
9	57.8 HRC	22	57.8 HRC	35	58.7 HRC	48	57.8 HRC
10	57.1 HRC	23	60.5 HRC	36	55.9 HRC	49	57.5 HRC
11	58.0 HRC	24	57.9 HRC	37	56.8 HRC	50	58.3 HRC
12	57.2 HRC	25	58.6 HRC	38	57.1 HRC		
13	58.5 HRC	26	58.8 HRC	39	56.3 HRC		

Summary: Pass: 50 pcs Fail: 0 pcs

Test Result: PASS

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of:

ForgeFix Ltd.

Place of issue:

ForgeFix Ltd. Galleon Blvd, Crossways Bus. Park, Dartford, Kent DA2 6QE, UK.

Date of issue:

01/01/2021

Name:

Anthony Armitt

Position:

Commercial Director

Signature:

A handwritten signature in black ink, appearing to read 'A. Armitt', is written over a horizontal dashed line.