

### Fix4Fire

#### Range Information

Product Code	Size mm	Head Type	Drill Diameter mm Hard Substrates	Drill Diameter mm Softer Substrates	Minimum Screw Embedment mm	Unit Qty
211-100-010	6 x 32	Pan	5.5	5	19	100
211-100-020	6 x 32	Oval	5.5	5	19	100
211-100-030	6 x 50	Pan	5.5	5	25	50
211-100-040	6 x 50	Oval	5.5	5	25	50

#### Typical Application

- All steel screw fixing for direct fastening into many common building substrates
- Suitable for light to medium duty anchoring
- Will fix into wood and plasterboard without pre-drilling
- Can be directly screwed into sandstone, concrete and brick with a pre-drilled pilot hole
- Designed to assist with compliance to BS 7671 amendment 3 and the Wiring Regulations 18th Edition
- Successfully tested by Warrington Fire using the principles of BS 5839-1:2017 26.2 (e)
- Ideal for fixing fire-resistant clips, consumer units, back boxes, conduit, cable trunking, smoke alarms etc.
- Remove the need to use plastic wall plugs - which typically melt at circa 160°C

#### Product Specification

- Made from heat treated C1018 - 1022 steel, 9.8 grade, with a Phillips recess, available with two head types
- Melting point of the material is circa 1500°C
- Silver Ruspert® coated to 1000-hour salt spray specification for high corrosion resistance
- Resistant to fire, corrosion, solvents and chemicals

**Olympic Fixing Products Ltd**  
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Accrington, Lancashire BB5 5WH

### Testing

Testing undertaken at:

#### 1. Warringtonfire Testing & Certification in June 2020

##### *Purpose of Test*

To determine the performance of a cable fixing system when it is subject to the conditions of the test specified in BS 5839-1:2017, Section 26.2 (e) and to demonstrate that it meets the requirements specified in Section 26.2 (f).

The tests were performed using the general principles of the procedures specified in

- BS 5839-1: 2017 26.2 (e)
- BS EN 50200: 2015
- BS8434-1: 2001 + A2 2009

##### *Materials tested*

The cable fixing system comprised

- Olympic Fix4fire multi-purpose screws
- Olympic Steel mini Trunking Cable Clips

##### *Scope of test*

Section 26.2 (e) of BS 5839-1 describes two methods of test for standard fire resisting cables:

- a) The cable should meet the PH classification when tested in accordance with BS EN 50200:2015
- b) The cable should maintain circuit integrity then exposed to the following test:  
"A sample of the cable is simultaneously exposed to a flame at a temperature of 930° (+40 -0°C) and mechanical shock for 60 minutes, followed by simultaneous exposure to water spray and mechanical shock for a further 60 minutes.

##### *Test Outcome*

The cable fixing system remained in place throughout each of the test, and maintained adequate support for the cable for the duration of the test when subject to fire with mechanical shock and to fire with mechanical shock and water spray.

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### 2. National Tsing Hua University in October 2019

Department of Materials, Science & Engineering

101 Kuang Fu Road

Hsinchu 30013

Taiwan

Undertaken by Cho-Jen Tsai

Professor, Department of Material Sciences

Outcome:

Confirmation that Fix4Fire retains its physical integrity after testing for 2 hours at 975°C

### 3. Working Loads

			Concrete 4000psi				
			Ultimate load		Safe working load		
Screw Diameter mm	Minimum Hole Depth mm	Embedment Depth mm	Tension kN	Shear kN	Tension kN	Shear kN	KG
6	25	19	1.9	7.4	0.5	1.9	50
6	30	25	3.7	7.7	0.9	1.9	90
6	55	25	3.8	7.9	0.9	1.9	90

Safe working load figures are calculated using safety factor of 4.0

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