



IMPERIAL  
FIRE  
SOLUTIONS

## IFS-ES

### FIRE RESISTANT SERVICE ENCLOSURE SYSTEM

High-performance service enclosure system rigorously tested in accordance with the BS EN 1366-5:2021 fire test standard. All our enclosure tests included the internal T3 thermocouple placements as per the 2003 edition of BS EN 1366-5 as required by the Code of Practice, BS 8519:2020 which considers the selection and installation of fire-resistant power and control cable systems for life safety, fire-fighting and other critical applications.

#### TESTED TO:



BS 8519:2020



BS EN 1366-5:2021



Including  
T3 Thermocouple



Horizontal  
& Vertical





## Formal test and Performance Criteria

### PRODUCT FEATURE

### COMMENTARY

|                                                                  |   |                                                                                                                                                                       |
|------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compliant with BS 8519:2020                                      | ✓ | This code of practice requires cable enclosures incorporate internal T3 thermocouples from BS EN 1366-5:2003 edition                                                  |
| Water Resistant as required by BS 8519:2020                      | ✓ | Clauses 3.3, 6.1, 7.2 & 12.1 requires that systems resist water ingress                                                                                               |
| Tested to BS EN 1366 - 5:2021 of enclosures                      | ✓ | This latest version places limitations on the maximum sizes that can be produced to correlate with the actual tested specimen.                                        |
| Internal T3 Thermocouples in accordance with BS EN 1366 - 5:2003 | ✓ | Enclosures tested with internal T3 thermocouples as required by BS EN 1366 - 5:2003.                                                                                  |
| Tested Fire Outside Horizontally                                 | ✓ | Full scale tests carrying out with size ranging from 500mm x 450mm to 1000mm x 500mm                                                                                  |
| Tested Fire Outside Vertically                                   | ✓ | Full scale tests carrying out with size ranging from 500mm x 500 mm to 2000mm x 700mm                                                                                 |
| Tested for Services hung from enclosures                         | ✓ | Enclosures tested with required loading with the service being protected hung from upper face.                                                                        |
| Fire Classifications                                             | ✓ | EI 120 Ho - o <-> i, EI 240 Ve - o -> i                                                                                                                               |
| Tested for Services laid into enclosure                          | ✓ | Enclosures tested with required loading with services being protected into lower face                                                                                 |
| Vertical Fire Outside tested up to 2000mm x 700mm.               | ✓ | BS EN 1366-5:2021 section 13.2 states that the enclosure size is applicable up to the width and height tested.                                                        |
| 3-sided Vertical Enclosure up to 2000mm x 500mm                  | ✓ | Ad-hoc full-scale testing for 3-sided vertical enclosure (departure from BS 1366:5, 4-sided test requirement - requires contract approval).                           |
| 3-sided Horizontal Enclosure up to 1500 mm x 500 mm              | ✓ | Ad-hoc full-scale testing for 3-sided vertical enclosure (departure from BS 1366:5, 4-sided test requirement - requires contract approval).                           |
| VOC Emission Testing                                             | ✓ | The IFS-ES enclosure passes Regulations & Protocols for VOC emissions including Indoor Air Comfort GOLD.                                                              |
| Tested to IPX6                                                   | ✓ | System subjected to powerful water jet without ingress.                                                                                                               |
| Tested to IP5X                                                   | ✓ | System protected against the ingress of dust.                                                                                                                         |
| Third Party Accreditation FIRAS                                  | ✓ | Imperial Ductwork Services Ltd holds a Warrington Fire Installer Accreditation for the Installation of Service Enclosures tested in accordance with BS EN 1366-5:2021 |



# Ready to work together...

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