

# Compliance Testing to EN, BS, UL, CAN/ULC and ASTM Standards



| Product Group | Description | European Standards | European Product Standards or EADs | North American Requirements | British Standards                       |
|---------------|-------------|--------------------|------------------------------------|-----------------------------|---|
|               |             |                    |                                    |                             | <br>In accordance with BS 476: Part xx* |

## FIRE RESISTANCE

|  |   |                       |                 |                                   |  |
|--|---|-----------------------|-----------------|-----------------------------------|--|
| Doorsets   | Industrial type doors incl. chute doors, elevators, shutter, coiling doors and sliding products | EN 1634-1             | EN 16034        | UL 10B, CAN/ULC-S104              | BS 476/22                                      |
|  | Pedestrian, internal and external doors and windows   | EN 1634-1             | EN 16034        | UL 10B/10C, CAN/ULC-S104          | BS 476/22                                      |
|  | Operable fire curtains  | EN 1634-1             | EN 16034        | UL 10D                            | BS 476/22                                      |
|  | Lift landing/elevator entrances   | EN 1634-1             |                 | UL 10B, CAN/ULC-S104              | BS 476/22                                      |
| Non loadbearing elements   | Ceiling   | EN 1364-2             |                 |                                   |  |
| Firestopping   | Firestopping and sealing systems – penetration seals  | EN 1366-3             | ETAG 026 Part 2 | UL 1479, CAN/ULC-S115, ASTM E814  | BS 476/20*                                     |
|  | Firestopping and sealing systems – linear joint and gap seals                                   | EN 1366-4             | ETAG 026 Part 3 | UL 2079, CAN/ULC-S115, ASTM E1966 | BS 476/20*                                     |
| Glass  | Numerous types of glass   | EN 1634-1             |                 | UL 9, CAN/ULC-S106                | BS 476/22                                      |
| Curtain walling  | Non-loadbearing elements, curtain walling, part configuration                                   | EN 1364-4             |                 | UL 263, CAN/ULC-S101              | N/A  |
|  | Full configuration  | EN 1364-3             |                 | UL 263, CAN/ULC-S101              |  |
| Conveyor systems   | Closures for conveyors and trackbound transportation systems                                    | EN 1366-7             |                 |                                   |  |
| Partitions   | Internal partition kits for use as non-loadbearing walls  | EN 1364-1             | ETAG 003        | UL 263, CAN/ULC-S106              | BS 476/22                                      |
| Walls  | Fire resistance tests for non-loadbearing elements, walls                                       | EN 1364-1             |                 | UL 263, CAN/ULC-S106              | BS 476/22                                      |
| Structural concrete & steel beams  | Concrete members  | EN 1365-3, EN 13381-3 |                 | UL 263, ASTM E119                 | BS 476: Part 21                                |
| Structural concrete members  | Concrete filled hollow steel columns  | EN 1365, EN 13381-6   |                 | UL 263, ASTM E119                 | BS 476: Parts 20/21                            |
| Structural steel members (including the contribution of the applied protection)            | Passive protection products to steel members  | EN 1365, EN 13381-4   | ETAG 018        | UL 263, UL 1709, ASTM E119        | BS 476: Part 21 & ASFP Yellow Book 5th Edition |
|  | Reactive protection to steel members  | EN 1365, EN13381-8    | ETAG 018        | UL 263, UL 1709, ASTM E119        | BS 476: Part 21 & ASFP Yellow Book 5th Edition |
|  | Fire protection systems to steel beams with web openings  | EN 1365, EN 13381-9   | ETAG 018        | UL 263, ASTM E119                 | BS 476: Part 21 & ASFP Yellow Book 5th Edition |
| Test methods for determining the contribution to the fire resistance of structural members | Vertical protective membranes   | EN 1365, EN 13381-2   |                 |                                   |  |
|  | Applied protection to concrete/profiled sheet steel composite members                           | EN 1365, EN13381-5    |                 |                                   |  |
|  | Applied protection to timber members  | EN 1365, EN 13381-7   |                 |                                   |  |
| Fire resistance tests for non-loadbearing elements   | Ceiling   | EN 1364-2             |                 | UL 263                            |  |
| Barriers   | Non-mechanical fire barrier for ventilation ductwork  | EN 1366-12            |                 |                                   |  |
| Ducts  | Fire dampers  | EN 1366-2             |                 | UL 555, CAN/ULC-112               |  |
|  | Smoke extraction ducts  | EN 1366-8             |                 |                                   |  |
|  | Single compartment smoke extraction ducts   | EN 1366-9             |                 |                                   |  |
|  | Kitchen extract ducts   | EN 1366-14            |                 |                                   |  |

## SMOKE CONTROL

|                        |   |            |          |                       |             |
|------------------------|---|------------|----------|-----------------------|-------------|
| Doorsets               | Industrial, commercial and pedestrian internal and external doors and windows | EN 1634-3  | EN 16034 | UL 1784               | BS 476/31.1 |
|                        | Lift landing doorsets   | EN 1634-3  |          | UL 1784               | BS 476/31.1 |
| Natural smoke elements | Natural smoke & heat exhaust ventilators                                      | EN 12101-2 |          |                       | BS 476/24   |
| Smoke barriers         | Smoke barriers  | EN 12101-1 |          |                       | BS 476/24   |
| Service installations  | Smoke control dampers   | EN 1366-10 |          | UL 555S, CAN/ULC-112S |             |