



# Fire Tests and Certification

## Tested in Europe – Certified for the World

UL and ift Rosenheim offer manufacturers of building elements and building materials all relevant tests and certifications for fire resistance, smoke control, reaction to fire and many other product characteristics from a single source.

In the new Centre of Excellence for Fire-Testing, tests can be carried out according to EN, UL, ULC, DIN and British standards, so the certificates are valid not only in Europe, but also in the USA, Canada, Middle East, Latin America and Asia.

## Synergies for customers, quality and service

What are the advantages of a cooperation between UL and ift Rosenheim?

### **Bundled services**

Cost and time savings in the areas of testing and certification

### **One-stop-shop**

Complete service for all your building products

### **Global market access**

Recognition of our tests and certificates in the majority of markets

### **Local contacts**

Support from our experts on site and in local language



Access global markets – with your fire safety experts in Europe



| Product group  |   | Description               | Certification             |                                   |                       |                              | Test            |  |           |             |             |
|--|---|---------------------------|---------------------------|-----------------------------------|-----------------------|------------------------------|-----------------|--|-----------|-------------|-------------|
| Fire resistance  |   | European Product Standard | ift-Cert.                 | UL (US) Test and Certification    | UL (EU)               | EN Tests                     | ETA             | BS   | CH        | D           | ISO         |
|  |   | CE                        | ift                       | UL US                             | UL EU                 |                              | ETA             |  |           | abZ/abP     |             |
| Curtain walling  | Fire resistance tests for non-loadbearing elements, curtain walling, part configuration, fire flashover | EN 13830                  |                           | UL 263, CAN/ULC-S101              |                       | EN 1364-4                    |                 |  |           |             |             |
|  | Full configuration  | EN 13830                  | EN 13830                  | UL 263, CAN/ULC-S101              |                       | EN 1364-3                    |                 |  |           | abZ         |             |
| Doorsets   | Industrial type doors incl. chute doors, shutter, coiling doors and sliding products                    | EN 16034                  | EN 16034                  | UL 10B, CAN/ULC-S104              |                       | EN 1634-1                    |                 | BS 476/22                                      | EN 1634-1 | abZ         | ISO 3008    |
|  | Pedestrian, internal and external doors and windows   | EN 16034                  | EN 16034                  | UL 10B/10C, CAN/ULC-S104          |                       | EN 1634-1                    |                 | BS 476/22                                      | EN 1634-1 | abZ         | ISO 3008    |
|  | Operable fire curtains  |                           | abZ                       | UL 10D                            |                       | EN 1634-1                    |                 | BS 476/22                                      | EN 1634-1 | abZ         | ISO 3008    |
|  | Lift landing/elevator entrances   |                           |                           | UL 10B, CAN/ULC-S104              |                       | EN 1634-1                    |                 | BS 476/22                                      |           |             |             |
| Glass  | Numerous types of glass   | various product standards | various product standards | UL 9, CAN/ULC-S106                |                       | EN 1634-1; EN 1364-1; -3; -4 |                 | BS 476/22                                      |           |             |             |
| Partitions   | Internal partition kits for use as non-loadbearing walls  |                           |                           | UL 263, CAN/ULC-S106              |                       | EN 1364-1                    | ETAG 003        | BS 476/22                                      | EN 1364-1 | abP         | ISO 3009    |
| Structural concrete & steel beams  | Concrete members  |                           |                           | UL 263, ASTM E119                 | EN 1365-3, EN 13381-3 | EN 1365-3, EN 13381-3        |                 | BS 476: Part 21                                |           |             |             |
| Structural concrete members  | Concrete filled hollow steel columns  |                           |                           | UL 263, ASTM E119                 | EN 1365, EN 13381-6   | EN 1365, EN 13381-6          |                 | BS 476: Parts 20/21                            |           |             |             |
| Structural steel members (including the contribution of the applied protection)            | Passive protection products to steel members  |                           |                           | UL 263, UL 1709, ASTM E119        | EN 1365, EN 13381-4   | EN 1365, EN 13381-4          | ETAG 018        | BS 476: Part 21 & ASFP Yellow Book 5th Edition |           |             |             |
|  | Reactive protection to steel members  |                           |                           | UL 263, UL 1709, ASTM E119        | EN 1365, EN 13381-8   | EN 1365, EN 13381-8          | ETAG 018        |  |           |             |             |
|  | Fire protection systems to steel beams with web openings  |                           |                           | UL 263, ASTM E119                 | EN 1365, EN 13381-9   | EN 1365, EN 13381-9          | ETAG 018        |  |           |             |             |
| Test methods for determining the contribution to the fire resistance of structural members | Vertical protective membranes   |                           |                           |                                   | EN 1365, EN 13381-2   | EN 1365, EN 13381-2          |                 |  |           |             |             |
|  | Applied protection to concrete/profiled sheet steel composite members                                   |                           |                           |                                   | EN 1365, EN 13381-5   | EN 1365, EN 13381-5          |                 |  |           |             |             |
|  | Applied protection to timber members  |                           |                           |                                   | EN 1365, EN 13381-7   | EN 1365, EN 13381-7          |                 |  |           |             |             |
| Firestopping   | Firestopping and sealing systems – penetration seals  |                           |                           | UL 1479, CAN/ULC-S115, ASTM E814  | EN 1366-3             | EN 1366-3                    | ETAG 026 Part 2 | BS 476/20                                      |           |             |             |
|  | Firestopping and sealing systems – linear joint and gap seals   |                           |                           | UL 2079, CAN/ULC-S115, ASTM E1966 | EN 1366-4, EN 1364-4  | EN 1366-4, EN 1364-4         | ETAG 026 Part 3 | BS 476/20                                      |           |             |             |
| Barriers/Service installations   | Non-mechanical fire barrier for ventilation ductwork  |                           |                           |                                   | EN 1366-12            | EN 1366-12                   |                 |  |           |             |             |
|  | Fire dampers  |                           |                           | UL 555, CAN/ULC-112               | EN 1366-2             | EN 1366-2                    |                 |  |           |             |             |
|  | Smoke extraction ducts  |                           |                           |                                   | EN 1366-8             | EN 1366-8                    |                 |  |           |             |             |
|  | Single compartment smoke extraction ducts   |                           |                           |                                   | EN 1366-9             | EN 1366-9                    |                 |  |           |             |             |
|  | Kitchen extract ducts   |                           |                           |                                   | EN 1366-14            | EN 1366-14                   |                 |  |           |             |             |
| Walls  | Fire resistance tests for non-loadbearing elements, walls   |                           |                           | UL 263, CAN/ULC-S106              | EN 1364-1             | EN 1364-1                    |                 | BS 476/22                                      | EN 1364-1 | EN 1364-1   | ISO 3009    |
| Fire resistance tests for loadbearing elements   | Ceiling (loadbearing)   |                           |                           | UL 263                            | EN 1365-2             | EN 1365-2                    |                 |  |           |             |             |
| Non loadbearing elements   | Ceilings (non loadbearing)  |                           |                           |                                   | EN 1364-2             | EN 1364-2                    |                 |  |           | EN 1364-2   |             |
| Conveyor systems   | Closures for conveyors and trackbound transportation systems  |                           |                           |                                   | EN 1366-7             | EN 1366-7                    |                 |  |           |             |             |
| <b>Smoke control</b>   |   |                           |                           |                                   |                       |                              |                 |  |           |             |             |
| Doorsets   | Industrial, commercial and pedestrian internal and external doors and windows                           | EN 16034                  | EN 16034                  | UL 1784                           |                       | EN 1634-3                    |                 | BS 476/31.1 *                                  | EN 1634-3 | abP         |             |
|  | Lift landing doorsets   | EN 16034                  |                           | UL 1784                           |                       | EN 1634-3                    |                 | BS 476/31.1 *                                  |           |             |             |
| Smoke barriers   | Smoke barriers  | EN 12101 Annex C          | EN 12101 Annex C          |                                   |                       | EN 12101 Annex C             |                 | BS 476/24 *                                    |           |             |             |
| Natural smoke elements   | Natural smoke & heat exhaust ventilators  | EN 12101-2                | EN 12101-2                |                                   |                       | EN 12101-2                   |                 | BS 476/24 *                                    |           |             |             |
| Service installations  | Smoke control dampers   |                           |                           | UL 555S, CAN/ULC-112S *           |                       |                              |                 |  |           |             |             |
| <b>Reaction to fire</b>  |   |                           |                           |                                   |                       |                              |                 |  |           |             |             |
| Testing of the reaction to fire of building materials                                      | Chimney test  |                           | DIN 4102-15, -16          |                                   |                       |                              |                 |  |           | DIN 4102-15 |             |
|  | Single flame source   |                           | DIN 4102-2, EN 11925-2    |                                   | EN 13501-1            | EN 11925-2                   |                 | BS 11925-2                                     |           | DIN 4102-2  | ISO 11925-2 |
|  | Bomb calorimeter  |                           | EN 1716                   |                                   | EN 13501-1            | EN 1716                      |                 | BS 1716  |           |             | ISO 1716    |
|  | Non combustibility  |                           | EN 1182                   |                                   | EN 13501-1            | EN 1182                      |                 | BS 1182  |           | DIN 4102-1  | ISO 1182    |
|  | Burning behaviour using a radiant heat source   |                           | EN 9239-1                 |                                   | EN 13501-1            | EN 9239-1                    |                 | BS 9239-1                                      |           | DIN 4102-14 | ISO 9239-1  |
|  | Single burn item  |                           | EN 13823                  |                                   | EN 13501-1            | EN 13823                     |                 | BS 13823                                       |           | DIN 4102-7  |             |
|  | Smouldering   |                           | EN 16733                  |                                   |                       | EN 16733                     |                 | BS 16733                                       |           |             |             |
|  | Classification of construction products and building elements   |                           | DIN 4102-1                |                                   | EN 13501-1            |                              |                 |  |           | DIN 4102-1  |             |



## The fire safety center in Rosenheim

The following test equipment is available:

### 1. Furnaces for fire resistance

- a. 8 m wide x 5 m high for walls, doors, dampers, glazing, firestopping, facades and more
- b. 5 m wide x 5 m high for walls, doors, dampers, glazing, firestopping, facades and more
- c. 4 m wide x 5 m long for testing load-bearing beams, floors, roofs, ducts and dampers
- d. 3 m high x 3 m wide for loaded and unloaded column testing
- e. 2 m deep x 1.5 m wide x 1.5 m high testing for horizontal and vertical testing of walls, floors, firestopping and more

### 2. Web-based video equipment for worldwide live video transmission of tests

### 3. Reaction to fire tests including the single burning item (SBI test)

### 4. Smoke control chambers (8 m x 5 m, 5 m x 5 m and 3,5 m x 3,5 m)

### 5. Durability testing up to 9 m x 5 m sizes of doorsets

### 6. 9,5 m wide x 7,5 m high curtain wall testing for air permeability, water tightness, wind loads up to 6000 Pa as well as climatic loads

Secure and private installation areas with crane systems and workshop areas as well as special mounting frames allowing maximum convenience. Examples of some of the tests available are shown overleaf.

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