

# CRITTALL WINDOWS NBS SPECIFICATION INNERVISION® FR RANGE



## L10 WINDOWS

### 316 STEEL WINDOWS AND DOORS:

- Manufacturer and reference: Crittall Windows Ltd, **Innervision® FR** range
- Generally manufactured in accordance with BS 6510, W20 section
- Operation and strength characteristics: To BS 6375: Part 2
- Resistance to fire: Internal single doors, double doors and fixed lights tested in accordance with BS 476: Part 22: 1987 Clause 8, offering 30 minutes Integrity-only FD30 fire rating (Passive fire door test – doors are not to be opened in the event of fire)
- Construction: All frames have welded corners and are flat and square within normal manufacturing dimensional tolerances of +/- 1.5 mm. Intermediate bars are hot tenon riveted and face-welded. Doors must open into designated fire exposed space, glazing beads must be mounted on non-fire exposed face.
- Galvanizing: All components including steel attachments, coupling members and ancillaries: hot-dipped after manufacture to BS EN ISO 1461
- Glazing details: 7mm Pyrodur fire-resistant glass as standard.  
Optional glass types: 15mm Pyrostop, 14mm Pyrobel, 6mm Pyran S
- Glazing beads present no horizontal ledges on which dust and dirt can gather
- Glazing method: bead-glazing of single fire-resistant glass utilising Ammonium Phosphate self-adhesive glazing tapes both sides, hardwood setting blocks and low modulus, neutral cure silicone sealant top-capping both sides
- Draughtproofing: 22mm wide x 1mm thick intumescent seals fitted as standard to all doors
- Ironmongery | accessories: See clause 328
- Finish as delivered: Galvanized and Duralife™ polyester powder coated in a range of colours - See clause 331

### 325 STEEL WINDOWS AND DOORS:

- Generally, all the foregoing
- Manufacturing undertaken in the Crittall factory by directly employed personnel
- Design, manufacture, and installation carried out under Quality Management Systems certified to BS EN ISO 9001
- Manufacture is undertaken under an Environmental Management System certified to BS EN ISO 14001

### 328 IRONMONGERY/ACCESSORIES:

- Standard provisions for interior Innervision FR doors include:  
Brass butt hinges - finished as frames, 4 per leaf

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Pair of lever handles set between 1000-1200mm from the finished floor level  
Concealed (when door closed) bolts top and bottom of first closing leaf of double doors  
Standard Threshold bar (40x6mm high galvanized steel – finished as frames) may be mounted flush with, or on top of, finished floor surface

- Interior Single or Double Doors (non-lockable) additionally fitted with:  
Latch operated by lever handles internally and externally  
Brass fire-resistant strike
- Optional hardware: TS83 fire-resistant Door Closers to fire-exposed face only  
Single doors (only) offered with europrofile cylinder mortice lock, with deadlock operated by key to non-fire-exposed face and cylinder thumbturn to fire-exposed-face  
Europrofile cylinder escutcheons to both faces in a finish to match lever handles
- Standard handle/escutcheon finishes: RTD (Bronze Effect) or Satin Chrome
- Optional hardware finishes: Available, consult Crittall

## **331 FINISH COATING:**

- Type/reference: Epoxy free Duralife® polyester powder coating using Interpon D36 powder
- To BS EN ISO 13438
- Preparation: Following galvanizing, windows are chemically cleaned and pre-treated to provide a surface to which powder coating will adhere
- Covering: Minimum 60 microns on all significant surfaces
- Colours: Wide selection available. See Crittall Duralife® Standard Colour Guide
- Process: Coating will be undertaken in the same manufacturing plant as the frame fabrication

## **470 SEALANTS:**

- Joint surfaces are to be clean, grease / dust free and prepared in accordance with the sealant manufacturer's recommendations
- Glass capping sealant is to be a neutral cure low modulus silicone compliant with BS 5889 Type A 1989
- Frame perimeters sealed to structure using intumescent open-cell polyurethane flexible foam infill and finished with Intumescent silicone triangular-profile seals with a maximum joint size of 6 x 6mm
- Coupling open joints sealed with Intumescent silicone sealant

## **552 METAL GLAZED SCREENS:**

- Screens/coupled assemblies are available
- A full design/advice service is available