



**BLOXER**



03 **COMPANY PROFILE**

05 **WORK PHASES**  
From unloading the profiles to marking

07 **EI PROTECTION  
GUARANTEED**  
The criteria that define fire resistance

08 **CERTIFIED SAFETY**  
All the certificates and reference standards

11 **OUR PRODUCTS**  
Doors, windows and fixed elements

19 **TECHNICAL DESCRIPTIONS**  
By specification



# BLOXER

**For more than 30 years, Bloxer Ronchi has been a leader in fire-damper glazing.**

**VENUE** For more than thirty years BLOXER RONCHI in Villafranca Padovana (Padua) has been producing special structures and frames with safety glass. However, for more than 70 years, this family run company has been producing glass and everything related to it. They now occupy two adjacent production units for an overall 6,500 square meters indoor area, producing firewall and flame plate glazed frames and doors.

The same premises house the technical, administrative and executive offices, while a separate unit tests the new products and technical solutions in the test furnace as the result of our on-going research activities.



*Swiss precision  
German Technology  
Italian Style*

Flavio Furlan  
CEO Bloxer Ronchi srl



4

# WORKING PHASES



**UNLOAD** The bundles of laminated steel and extruded aluminium profiles are unloaded by the overhead crane.



**WAREHOUSE** The material is stored ready and available for the next working phases.



**CUTTING** The bars and profiles are cut using belt and disk cut-off saws.



**WORKSTATION** The two computerised workstations make the holes, slots and milling.

5



**WELDING** The steel profiles are seam welded and then belt polished.



**PAINTING** They are then painted using thermoset powders.



**CONTROLS** During the control phase, the frames are carefully checked before they are packaged.



**HANDLING** Unload using a bridge crane and store the crates of Pilkington Pyrostop Extraclear and Pyroclear glass.



**INSERTION** In this phase the glass is inserted and the accessories are applied.



**MARKING** The last phase involves washing, taping and final marking.



Two criteria define the fire resistance

# EI WARRANTY PROTECTION

Compartmentalisation in the fight against fire is a relatively recent introduction, and is coded and regulated by the EU directive 89/106/CEE, which has now been replaced by UE/305/2011 ( CPR ) for construction products which, in relation to fire prevention, expressly require extensive use of compartmentalisation in the buildings. Assuming therefore that, to withstand the following performance levels the construction must maintain its mechanical stability without collapsing, formerly indicated with the letter "R", our panes can withstand:

**E**

HOLD AGAINST HOT GASES AND FLAMES

**I**

HEAT INSULATION CAPACITY

Combining these two criteria gives EI which, followed by a number indicating the minutes, defines the fire resistance of a compartment, closed doors or other closing elements.





# OUR PRODUCTS

DOORS, COMPLEX GLAZING, FIXED ELEMENTS.



# DOORS

## ONE OR TWO WINGS

### OPENING

Our production provides classic door openings (rotating on a vertical axis) with the "pull" opening direction and they are all supplied standard with hinges, lock, stainless steel handle with spring, painting or anodising for interiors, aerial door closure, seals and silicone, glass mounted on the doors, double rabbet seals for cold smoke, heat expanding seals for hot smoke, closure regulators for two-wing doors, packed in strong wood crates.



# COMPLEX GLAZING

ONE OR TWO WINGS WITH SIDE WINDOWS AND  
TRANSOM WINDOW

**ELEMENTS**

When a one or two wing door is built with the addition of one or more fixed side or upper elements, it is called a complex closure or simply complex glazing.

# FIXED ELEMENTS

**LEGISLATION**

Contrary to logic, the fixed element cannot be assimilated to one that forms complex glazing, so when these elements are made without a connected aperture, they are subject to the EN 1364 reference standard.



# TECHNICAL DESCRIPTION

BY SPECIFICATION



## RESTAHL 50 LINE STEEL E 30 E 60 E 90 E 120

**SPECIFICATIONS** E 30, E 60, E 90, E 120 class glazed firewall frame, constructed with a cold formed 15/10 steel tubular bearing frame, with grooves for holding cold smoke seals and heat expansion seals for hot smoke. Frame with 20 mm stop wings. Total frame thickness 50 mm. Made with or without central strip.



**HEAVY STEEL HINGES** with three adjustable wings screwed to the frame, rotating on thrust bearings and with stainless steel pins.

**LOCK** Self-locking, released by turning the handle.

Nickel plated Yale type **DRUM**.

Stainless steel fire prevention **HANDLES**.

**SELF-CLOSING** mechanism: aerial door closer.

Self-locking **CHAIN** on the second wing, and visible closing adjuster only on two glazed wings.

Transparent 8 mm thick flame plate **GLASS**.

**SURFACE** finish with powder paints for interiors, oven cooked with RAL 1013- 3000 – 5010 6005 - 7016 - 7035 - 8017 - 9005 - 9006 - 9010 colours.



## ISOSTAHL 50 LINE STEEL EI 30 EI 60

**SPECIFICATIONS** EI 60 or EI 30 class glazed firewall frame, constructed with a cold formed 15/10 steel tubular bearing frame, insulated internally with silicate base inorganic material, asbestos free, with grooves for holding cold smoke seals and heat expansion seals. Frame with 20 mm stop wings. Total frame thickness 50 mm. Made with or without central strip



**HEAVY STEEL HINGES** with three adjustable wings screwed to the frame, rotating on thrust bearings and with stainless steel pins.

**LOCK** Self-locking, released by turning the handle.

Nickel plated Yale type **DRUM**.

Stainless steel fire prevention **HANDLES**.

**SELF-CLOSING** mechanism: aerial door closer.

Self-locking **CHAIN** on the second wing, and visible closing adjuster only on two glazed wings.

**GLASS** EXTRACLEAR PYROSTOP 60 EI 60 mm. 23 - EI 30 mm. 15..

**SURFACE** finish with powder paints for interiors, oven cooked with RAL 1013- 3000 – 5010 6005 - 7016 - 7035 - 8017 - 9005 - 9006 - 9010 colours.



## BLOXALL 70 LINE ALUMINIUM EI 60

**SPECIFICATIONS** EI 60 class glazed firewall frame, constructed with 20/10 steel tubular bearing frame, Protected on the two sides by sheets of cement based silicate, asbestos free, fixed mechanically to the structure. Coplanar extruded aluminium covering profiles, alloy to UNI 3569 TA 16 standard, drawn in a manner to create a rabbet between the fixed and mobile frames, and housings for the cold smoke and heat expansion seals. Total frame thickness 70 mm. Made with or without central strip.



**ADJUSTABLE THREE-WING HINGES** welded to the structure, rotating on thrust bearings and with stainless steel pins.

**LOCK** Self-locking, released by turning the handle.

Nickel plated Yale type **DRUM**.

Stainless steel fire prevention **HANDLES**.

**SELF-CLOSING** mechanism: aerial door closer.

Self-locking **CHAIN** on the second wing, and visible closing adjuster only on two glazed wings.

**GLASS** EXTRACLEAR PYROSTOP 60 EI 60 mm.23

**SURFACE** finish with paints or anodising with RAL 1013-3000 - 5010 6005 - 7016 - 7035 - 8017 - 9005 - 9006 - 9010 colours. Anodising: OX Silver, OX Bronze, OX Black.



## BLOXALL 95 LINE ALUMINIUM EI 90 EI 120

**SPECIFICATIONS** EI 120, EI 90 class glazed firewall frame, constructed with 20-30/10 steel tubular bearing frame, Protected on the two sides by sheets of cement based silicate, asbestos free, fixed mechanically to the structure. Coplanar extruded aluminium covering profiles, alloy to UNI 3569 TA 16 standard, drawn in a manner to create a rabbet between the fixed and mobile frames, and housings for the cold smoke and heat expansion seals. Total frame thickness 95 mm. Made with or without central strip.



**ADJUSTABLE THREE-WING HINGES** welded to the structure, rotating on thrust bearings and with stainless steel pins.

**LOCK** Self-locking, released by turning the handle.

Nickel plated Yale type **DRUM**.

Stainless steel fire prevention **HANDLES**.

**SELF-CLOSING** mechanism: aerial door closer.

Self-locking **CHAIN** on the second wing, and visible closing adjuster only on two glazed wings.

Fireproof PYROSTOP **GLASS**, from of ultra-clear float panes with Apiro material interposed between them, total thickness EI 90 mm 48 - EI 120 mm. 52.

**SURFACE** finish with paints or anodising with RAL 1013-3000 - 5010 6005 - 7016 - 7035 - 8017 - 9005 - 9006 - 9010 colours. Anodising: OX Silver, OX Bronze, OX Black.



# NEW LINE BLOXALL SPECIAL

## RARE FINISHING

### EI 60 EI 90 EI 120

**SPECIFICATIONS** EI 120, EI 90, EI 60 class glazed firewall frame, constructed with 20-30/10 steel tubular bearing frame, protected on the two sides by sheets of cement based silicate, asbestos free, fixed mechanically to the structure. Coplanar extruded aluminium covering profiles, alloy to UNI 3569 TA 16 standard, drawn in a manner to create a rabbet between the fixed and mobile frames, and housings for the cold smoke and heat expansion seals. Total frame thickness 70/95 mm. Made with or without central strip.



Covering profiles in: **SATIN FINISH STAINLESS STEEL**, **POLISHED STAINLESS STEEL**, **GALVANISED STAINLESS STEEL (GUCCI GOLD OR PRADA BLACK)**, **CORTEN STEEL**. **ADJUSTABLE THREE-WING HINGES** welded to the structure, rotating on thrust bearings and with stainless steel pins.

**LOCK** Self-locking, released by turning the handle. Nickel plated Yale type **DRUM**.

Stainless steel fire prevention **HANDLES**.

**SELF-CLOSING** mechanism: aerial door closer. Self-locking **CHAIN** on the second wing, and visible closing adjuster only on two glazed wings.

Fireproof **PYROSTOP GLASS**, from of ultra-clear float panes with Apero material interposed between them, total thickness EI 60 23 mm - EI 90 mm. 48 - EI 120 mm. 52.

**SURFACE** finish with paints or anodising with RAL 1013-3000 – 5010 6005 - 7016 - 7035 - 8017 - 9005 - 9006 - 9010 colours. Anodising: OX Silver, OX Bronze, OX Black.

