

Barrial® roof safety railing system

Barrial is a complete permanent safety system for the protection of maintenance personnel against falling from heights. It meets the technical and statutory constraints in connection with accessible flat roofs.



Introduction: ICB provides roofing solutions to the construction industry with an emphasis on environmentally friendly products and ecologically beneficial roof systems.

Applications: *Barrial* is suitable for permanent fixed safety systems at the perimeter of any flat roof and in industrial applications such as gangways and mezzanines. It may also be used to provide safety railings around rooflights and delineate escape corridors.

Authority: *Barrial* is the subject of the GS European product safety certification mark; see **Mechanics** below.

□ SUSTAINABILITY

Aluminium is completely recyclable and the recycling cost is lower than for steel.

□ DESCRIPTION

The *Barrial* system can provide:

- Fixed railings inside parapet wall
- outside of wall on parapet wall
- on roof slab

- Self-supporting railings on roof slab
- Folding railings inside parapet wall on parapet wall on roof slab

It comprises the following components:

- Fixing shoes - a range of shoes for different applications
- Fixed posts - straight
- Fixed posts - curved to 1 m radius
- Fixed posts - angled at 15°/30° (or to other angles to special order)
- Folding posts
- Rails
- Skirting

Composition, manufacture:

Posts include an end cap and adjustable sleeves that hold rails at different heights.

Rails are discreet and mounted to face the interior of the roof. They may be used as hand, bottom or intermediate rails. One end forms a spigot that slots into the end of the next rail. End plugs, corners (at variable angles) and wall fixings (at variable angles) are available. Rails for folding posts are fitted with an internal sliding joint.

All system components are manufactured from aluminium.

Dimensions: Height of posts and number of sleeves for rails vary to suit site dimensions.

Rails have 3000 mm standard length; other sizes to special order.

Appearance: Components are supplied either untreated or with Danilac powder coating in RAL colours.

□ PERFORMANCE

Weather: System is completely weatherproof. Aluminium is corrosion-resistant.

Mechanics: *Barrial* has been subjected to relevant static and dynamic tests in accordance with NF EN ISO 14122: Part 3 and NF EN 13374; test reports are available on request.

Heat: Unlike steel, aluminium is not subject to expansion problems due to heat.

□ SUPPLY

Supply is solely through ICB

□ SERVICES

Services to specifiers comprise:

- Risk analysis
- Technical diagnosis
- Specification
- Taking of dimensions
- Detailed setting-out of drawings
- Off-site manufacture
- Technical assistance with installation
- After-sales service

□ REFERENCES

Further information on other products is available in this edition of the RIBA Product Selector:
Diadem green roof system

- Solar PV Systems section (T)
- Single-ply roofing membrane, green roof systems, building integrated photovoltaics and roof edge protection section (47)

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