

TDS
TECHNICAL
DOOR
SOLUTIONS



DC3.1 - RC4 - EI60



Description

Certified EI60 – fire rated and RC4 – high security doors made to measure. Equipped with durable multi-point lock.

Door frame and leaf plating manufactured by cold bending method. The Door structure reinforced with U-shaped bars, and the space between the profiles filled with mineral wool. The standard frame includes 20 mm high threshold.

Fire resistance achieved thanks to the use of a specific plasterboard inserts and an intumescent seal on the leaf perimeter.

Prehung on four $\varnothing 22$ mm welded hinges equipped with ball bearings.

The hinge side reinforced with three anti-forcing bolts.

Acoustic performance and air permeability improved by bespoke EPDM seal.

DC3.1 fire resistant doors can be manufactured as external or internal, open inwards or outwards based on the requirements.



Properties

- fire resistance – EI60 according to EN 13501-2 + A1: 2009
- resistance to burglary – class RC4 according to EN 1627: 2011
- resistance to multiple closing and opening – class 6 according to EN 12400: 2004
- wind load resistance – class 5C according to EN 12210: 2001
- corrosion resistance – C3 category according to EN ISO 12944-2: 2001
- water tightness – class 3A according to EN 12208: 2001
- sound insulation – $R_w = 47$ dB according to EN ISO 717-1: 1999
- thermal permeability – $2.5 U_v$ ($W/m^2 \times K$) according to EN ISO 10077-1: 2007
- air permeability – class 4 according to EN 12207: 2001
- operational forces – class 2 according to EN 12217: 2005
- mechanical strength – class 4 according to EN 1192: 2001



Technical Features

- 3 mm thick U-profile or L- profile frame with EPDM gasket on three edges, filled with concrete after installation
- 1,5 mm thick leaf steel sheet plating
- door leaf 65 mm thick
- EPDM and an intumescent seal on all four edges
- door leaf filling – mineral wool of density 100 kg/m³ and plaster board
- 4 ball bearing hinges
- 3 anti-forcing bolts (hinge side)
- multi-point central lock, security grade 7
- door closer
- panic bar (optional)
- additional lock (optional)
- electric strike or magnetic door lock (optional)
- door leaf weight – 48 kg/m²







