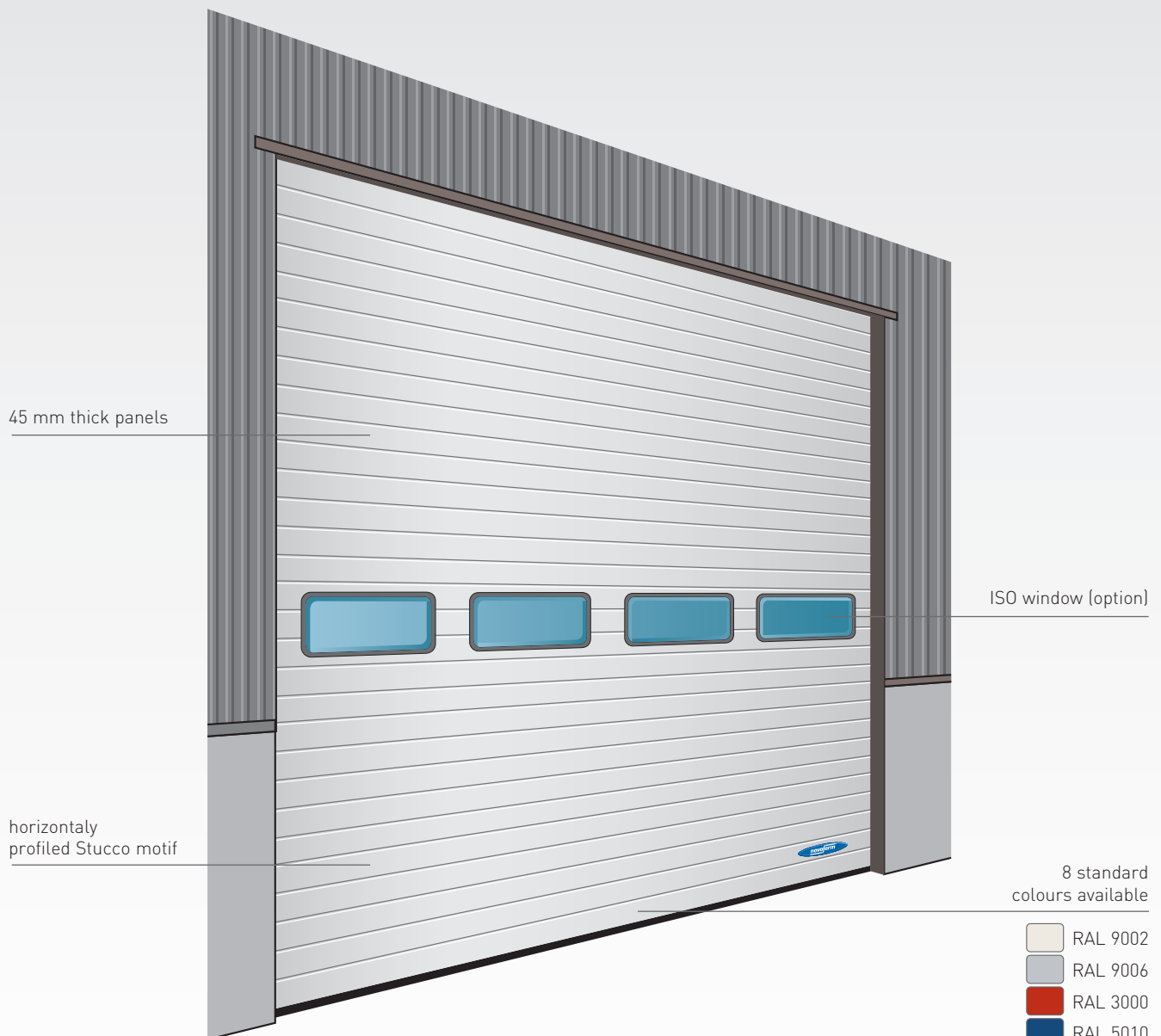










Thermo

Insulated Industrial Door



8 standard colours available

	RAL 9002
	RAL 9006
	RAL 3000
	RAL 5010
	RAL 7016
	RAL 9007
	RAL 6009
	RAL 8014

Features

- stucco-embossed panels with horizontal profiling
- finger pinch protection
- good insulation (0.44 W/m²K)
- available with a wicket door
- superior quality door hardware
- manual or electric operation
- optimum safety
- satisfies EN13241-1

Novoferm's insulated sectional overhead door, type Thermo, available as manual or electric operation. These doors are suitable for use in industrial, commercial and retail applications. There is a choice of specifications, finishes, operators and installation arrangements (track systems).

Components and construction

Novoferm's sectional overhead door, type Thermo, is made up of 625 mm and/or 500 mm high stucco-embossed panels with horizontal profiling. As the door opens, the sections slide back under the roof. Torsion springs, cable drums and steel cables balance the door's weight, making manual operation possible. In addition to the standard lift track system, high lift, vertical lift, roof angle and low headroom track systems are also available.

Materials

- PUR foam insulated (free of FCKW), galvanised steel sandwich panels with finger pinch protection (K value = 0.44 W/m²K)
- 625 and 500 mm panel heights
- 45 mm panel thickness
- the end-caps are made of galvanised steel
- the horizontal aluminium seal mounting profile on the top section is either anodised or powder-coated (RAL9002)
- 2 mm thick steel tracks, sendzimir-galvanised
- galvanised steel door hardware
- door hardware mounted using galvanised, self-tapping screws with integral, knurled lock-washers
- rollers with nylon wheels and chrome plated, 11 mm steel shaft
- steel cables with a safety factor of 6
- plastic handle and footplate in the bottom section of manually operated doors
- EPDM top, side and floor seals
- EPDM seals between the panels

Finish

- outside face of the panels polyester-coated in RAL9002, RAL9006, RAL3000, RAL5010, RAL7016, RAL9007, RAL6009, RAL8014; minimum coating thickness 25 µ
- inner face of the panels polyester-coated in RAL9002; minimum coating thickness 10 µ.

Dimensions

- maximum door width 8000 mm
- maximum door height 7900 mm
- maximum door surface area 48 m²
- minimum door width 1000 mm

Window and vision options

- insulated oval windows, acrylic glazing, 700 x 300 mm
- as above, but rectangular 650 x 350 mm
- one or more sections made of aluminium-frame glazed sections, with (single or double) SAN-glazing, polycarbonate, perforated plate, toughened glass

Motor

Electric operation is offered in addition to manual operation by pull cord or hand chain assembly. The control box is integral to the motor unit

Operators

- manual operation by pull cord or hand chain assembly
- in the case of an electric drive : push-buttons (open-stop-close), impulse operation, including a self-testing bottom safety edge
- push-buttons (open-stop-close) in 'deadman' operation without a bottom safety edge

Safety features

- emergency chain and disconnection at low level
- cable break safety device
- spring break safety device
- security against lifting
- finger pinch protection
- safety features as required by EN13241-1

Structural requirements and connections

- separate technical data sheets detailing dimensional and structural requirements are available for all designs and track systems
- if an electric motor is specified, a CEE plug socket must be installed within 1 m of where the motor and/or control unit will be positioned (by others)

Technical details (if an electric motor is fitted)

- electrical supply 3-NPE/ 400V/ 50Hz/ 16A
..... 230V/ 50Hz/ 16A
- IP rating IP55
- design with spring package max. 450 Watt

Options / accessories

- other track systems are possible
- stainless steel fittings (food-safe applications)
- panel painted in other RAL colours than standard RAL 9002
- sprung loaded shoot bolt
- integral wicket door, outward opening, with door closer and profile cylinder lock (max. sectional door width 6000 mm).
- separate 'wicket door', next to door (custom made, with fixed panels above or next to door (custom made)
- other operational activation is possible (by radar, pull switch, photocell, key-switch, remote-control, induction, PLC, infra-red)
- control box in IP65
- linked with traffic lights (red, green, red/green, orange, orange flashing light)
- fast, springless design (with frequency control)
- build-in ventilation grille
- upgraded duty cycle for intensive use
- other wind resistance
- 25.000 or 100.000 spring cycles
- motor with emergency-disengage for fast manual opening

Inspection

