





TECHNICAL AND METAL doors

The number of buildings in which the designers use improved parameters' doors is growing. In order to meet the demands of the investment market and Building Code requirements PORTA KMI Poland extended its range with technical doors and has become a producer of complete door sets including both the interior doors and dedicated technical doors. The parameters of the PORTA technical doors have been measured and confirmed by a number of tests carried out in dedicated laboratories.

The range of technical doors includes the following:

- three types of 27 dB, 32 dB and 42 dB noise reduction doors,
- two types of door with 30 and 60 minutes fire resistance,
- ENDURO doors with increased resistance,
- AQUA doors prepared to work in areas of high humidity,
- metal and acidproof sheet metal doors,
- metal doors with 30 minutes fire resistant.

As 42 dB doors are additionally resistant to fire for 30 minutes and smokeproof, they have been appreciated by the investors dealing with construction of high standard hotels and office buildings.

Rw = 27 dB, Rw = 32 dB – new colors!

Rw = 42 dB – new colors!

EI 30, EI 60 – new colors!

ENDURO

AQUA

Metal doors

Metal doors EI 30

Enjoy the quality!



Rw=27 dB, Rw=32 dB



For public buildings we offer sets of doors (door leaf and door frame) which belong to Rw=27 dB or Rw=32 dB acoustic class. Doors with diversified noise protection performance are appropriate for hotel rooms, offices, lecture halls, hospitals and other public buildings.



Non-typical project depicted in the photo (Porta CONTRACT).

(door leaf + door frame)



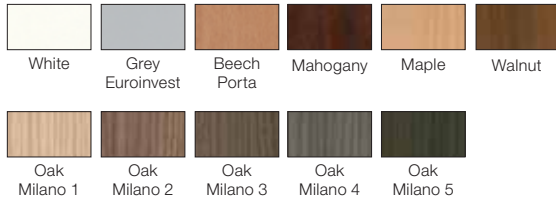
flat pattern 2 pattern 3 pattern 4 pattern 6 pattern 7 pattern 8 pattern 9

AVAILABLE COLORS

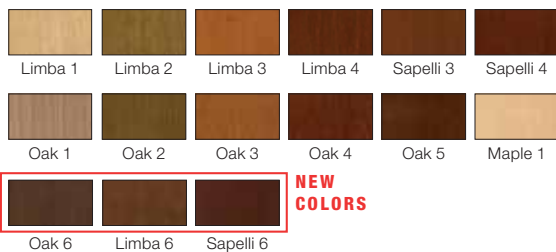
PVC veneer (flat and slot-milled) ★★★★★



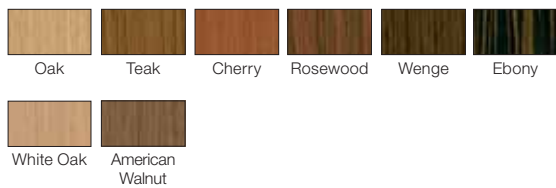
HQ CPL veneer (flat) ★★★★★



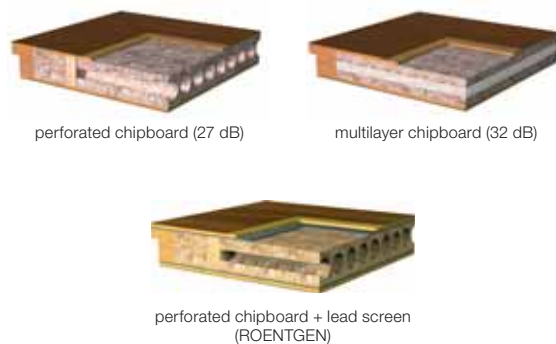
Standard natural veneer ★★★★★



Select natural veneer (flat with vertical wood grains) ★★★★★



DOOR LEAVES – CROSS-SECTIONS



AVAILABLE PROFILES OF DOOR FRAMES



DOOR LEAF CONSTRUCTION R_w=27 dB

The door leaf consists of a finger jointed softwood or exotic sawn timber frame filled with reinforced perforated chipboard and covered from both sides with HDF boards. The door construction in ROENTGEN¹ version is complemented by a coat of lead which makes an anti-radiant barrier.

DOOR LEAF CONSTRUCTION R_w=32 dB

The door leaf consists of exotic sawn timber frame filled with reinforced multilayer chipboard and covered from both sides with HDF boards.

LEAF EDGE PROFILE

Both side edges and higher part are covered with skirting tape in the color of the door leaf. For doors veneered with CPL HQ both side edges and the upper edge of the leaf covered with 1 mm thick ABS tape of the same colour as the door. The leaf itself is made in the rebate version.

MODELS

Single doors: full – flat or slot-milled.

ACCESSORIES – included in the leaf price

- Three pintle hinges
- Lock for cylinder insert
- Automatic threshold seal in the leaf bottom edge
- Seal in door frame
- Door frame

LEAF SIZES (page 155, table 3)

„60“ (flat only), „70“, „80“, „90“, „100“

RECOMMENDED DOOR FRAMES

- Adjustable Porta SYSTEM door frame (27 dB) or adjustable reinforced Porta SYSTEM door frame (32 dB) in leaf color, in accordance with the Porta SYSTEM color range
- Angle-bar metal door frame of profile 100 mm wide, made of both sides zinc-coated steel 1.5 mm thick. It is painted with power paint in one of standard colors: white (RAL 9016), grey (RAL 7047), cream (RAL 1001), brown (RAL 8028).
Door frame is available in two versions: level "0" or "-30".
- PROJECT door frame (page 144)

NOTES

- Acoustic class R_w = 27 dB (range 27 ÷ 31 dB)
- Acoustic class R_w = 32 dB (range 32 ÷ 36 dB)

¹ To meet the shield-door requirements, it is necessary to apply a layer of lead onto the door frame used for the ROENTGEN leaf. Flat leaves may be equipped with special glazing.

Order execution requires individual arrangements with the PORTA Contract Department.

ADDITIONAL CHARGES (option)

„100“ size	
handle with escutcheon	(page 148)
leaf frame made of exotic timber (in R _w = 27 dB only)	
reinforcement for the Porta SYSTEM frame, size A	
reinforcement for the Porta SYSTEM frame, size B, C, D, E, F	
reinforcement for the Porta SYSTEM frame, size G, H, I, J, K	
expanding the frame section from 80 to 100 mm	free of charge
expanding the frame section from 101 to 150 mm	
expanding the frame section from 151 to 270 mm	
expanding the frame section from 271 to 390 mm	

Rw=42 dB



The rooms exposed to an increased noise level, which need high noise insulation, we offer interior entrance doors with Rw=42 dB insulation class. The door leaf installed complete with a metal frame has 30 minute fire resistance and is smokeproof so that it protects against fire effects, particularly against very dangerous CO effects. This model may be used in high specification public or residential buildings.



Non-typical project depicted in the photo (Porta CONTRACT).

(door leaf + door frame)



flat

pattern 2

pattern 3

pattern 4

pattern 6

pattern 7

pattern 8

pattern 9

AVAILABLE COLORS

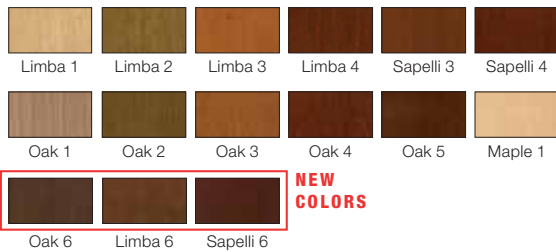
PVC veneer (flat and slot-milled) ★★★★★☆



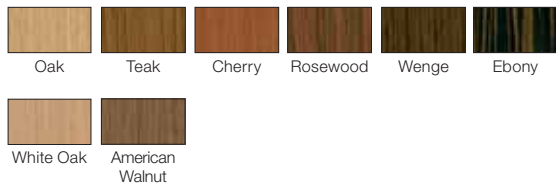
HQ CPL veneer (flat) ★★★★★☆



Standard natural veneer ★★★★★☆



Select natural veneer (flat with vertical wood grains) ★★★★★☆



DOOR LEAVES – CROSS-SECTIONS



PORTA multilayer construction (42 dB)

AVAILABLE PROFILES OF DOOR FRAMES



Metal door frame (42 dB)



Reinforced Porta SYSTEM door frame (42 dB)

DOOR LEAF CONSTRUCTION

The door leaf consists of exotic sawn timber frame filled with a special PORTA multi-layer sound insulating core and covered from both sides with HDF boards.

LEAF EDGE PROFILE

Both side edges and higher part are varnished with transparent lacquer. Double rebate on three edges (two vertical and one horizontal).

FINISHING

The leaf is veneered with HQ CPL laminate 0.7 mm thick, natural veneer (flat door leaves only) or PVC veneer (flat and slot-milled).

MODELS

Single leaf: full -flat and slot-milled.

ACCESSORIES – included in the leaf price

- Three (two in a metal frame) reinforced pintle hinges, made of steel, flush mounted
- Lock for cylinder insert
- Two automatic threshold seals
- Circumferential rubber seal at the leaf and frame mating point
- Temperature expandable seal (fire-resistant doors)
- Door frame

LEAF SIZES (page 155, table 3)

„80“, „90“, „100“

RECOMMENDED DOOR FRAMES

- Adjustable reinforced Porta SYSTEM door frame (type DT-AW/PS) for wall thickness between 120 mm and 300 mm. Frame beams are made of plywood. Door frame is covered with HQ CPL, PVC or natural veneer, in accordance with the Porta SYSTEM color range. Information about the full extent of regulation and price range for this door frame is available on our website.
- Angle-bar metal door frame of profile 120 mm wide (type DT-AW/M), made of both sides zinc-coated steel 1.5 mm thick. It is painted with power paint in one of standard colors: white (RAL 9016), grey (RAL 7047), cream (RAL 1001), brown (RAL 8028), prepared for installation of self-closer. Door frame is available in two versions: level "0" or level "-30".
- PROJECT door frame (page 144)

NOTES

- To meet the Technical Approval requirements, 30-minute fire resistant doors need to be equipped with a self-closing device.
- Acoustic class $R_w = 42$ dB (range $42 \div 46$ dB).

ADDITIONAL CHARGES (option)

„100“ size

handle with escutcheon

(page 148)

reinforcement for the self-closing device in the Porta SYSTEM

expanding the frame section from 121 to 150 mm

expanding the frame section from 151 to 270 mm

expanding the frame section from 271 to 390 mm

EI 30, EI 60



Two types of door with special fire resistance EI 30 of 30 minutes and EI 60 of 60 minutes. They perfectly work in the fire walls, where the door fire resistance class should correspond to the half of the wall fire resistance class. The EI 30 and EI 60 doors ensure protection against fire spreading and provide with 32 dB noise insulation. The doors are generally applied in all public services such as hotels, schools, hospitals, etc. We offer doors complete with the door frames.



Full doors in PVC veneer are available in slot-milled patterns (see page 114).



full pattern 2 (EI 60) pattern 3 (EI 30)



(EI 60) (EI 30)
samples of glazings in contractual offer

(door leaf + door frame)



double doors

AVAILABLE COLORS

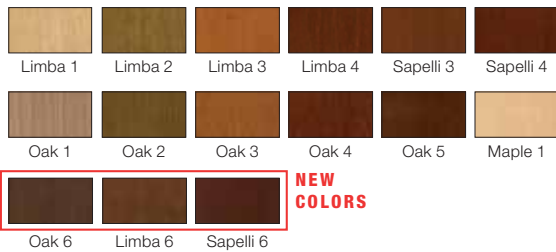
PVC veneer (flat and slot-milled) ★★★★★☆



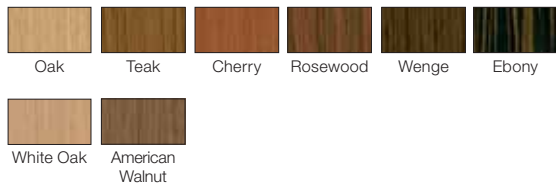
HQ CPL veneer (flat) ★★★★★☆



Standard natural veneer ★★★★★☆



Select natural veneer (flat with vertical wood grains) ★★★★★☆



DOOR LEAVES – CROSS-SECTIONS



AVAILABLE PROFILES OF DOOR FRAMES



DOOR LEAF CONSTRUCTION

The leaf frame is made of exotic timber dressing (EI 30) or of a finger jointed softwood (EI 60). The core consists of fire resistant chipboards positioned in layers. The leaf skin is an HDF board. Glazed leaves use multi-layer, transparent, fire resistant combined EI 30 or EI 60 glass.

LEAF EDGE PROFILE

Both side edges and higher part are covered with skirting tape in the color of the door leaf. For doors veneered with CPL HQ both side edges and the upper edge of the leaf covered with 1 mm thick ABS tape of the same colour as the door. The leaf itself is made in the rebate version.

FINISHING

The leaf is veneered with HQ CPL laminate 0.7 mm thick (flat door leaves only), natural veneer (flat door leaves only) or PVC veneer (flat and slot-milled). MDF frame is veneered using the colour of the door leaf.

MODELS

Single doors: full – flat or slot-milled, glazed and double EI 30 or EI 60.

ACCESSORIES – included in the leaf price

- Three (EI 30) or four (EI 60) hinges
- Lock for cylinder insert
- Fire-proof pane (width is not dependent on leaf size)
- Thermo-swelling seal in door leaf
- Fire resistant seal in door frame
- Automatic threshold seal in the leaf bottom edge
- Door frame

LEAF SIZES (page 155, table 3)

Single leaf: „60“, „70“, „80“, „90“, „100“¹
Double leaf: „120“-„200“

RECOMMENDED DOOR FRAMES

- MDF door frame of profile 100 mm wide and adjustable EI30 (160 mm), equipped with adjustable hinges in leaf color, in accordance with door leaf color range.
 - Wooden door frame of profile 100 mm wide (EI 60) made from triple layer pine wood, equipped with adjustable hinges, veneered in leaf color.
 - Angle-bar metal door frame of profile 100 mm wide, made of both sides zinc-coated steel 1.5 mm thick. It is painted with power paint in one of standard colors: white (RAL 9016), grey (RAL 7047), cream (RAL 1001), brown (RAL 8028). It is equipped with assembly dowels and prepared for installation of self-closer mechanism.
- Door frame is available in two versions: level “0” or level “-30”.
- PROJECT door frame (page 144).

NOTES

- To meet the Technical Approval requirements, fire resistant doors need to be equipped with a self-closing device.
- Acoustic class $R_w = 32$ dB (range 32 ÷ 36 dB). EI 60 doors have acoustic in single full pattern.

¹ In EI 60 doors, size „100“ not available in standard offer – requires individual arrangements (Porta CONTRACT).

Wall thickness range – Adjustable MDF door frame (EI 30)			
A	160 ÷ 180 mm	G	285 ÷ 305 mm
B	180 ÷ 200 mm	H	305 ÷ 325 mm
C	205 ÷ 225 mm	I	325 ÷ 345 mm
D	225 ÷ 245 mm	J	345 ÷ 365 mm
E	245 ÷ 265 mm	K	365 ÷ 385 mm
F	265 ÷ 285 mm		

ADDITIONAL CHARGES (option)

„100“ size	
handle with escutcheon	(page 148)
quarter round, masking architraves	(from page 149)
anti-smoking seals (EI 60)	
the frame section from 80 to 100 mm free of charge	free of charge
expanding the frame section from 101 to 150 mm	
expanding the frame section from 151 to 270 mm	
expanding the frame section from 271 to 390 mm	

ENDURO



ENDURO – technical interior doors of highest quality, abrasion and external factor resistance class. ENDURO series is a new range of doors which feature mechanical strength and modern design. The highest resistance parameters has been obtained, among other things, due to the use of a profiled stainless steel strip and exceptionally resistant HPL veneer. Primarily designed for use in all structures exposed to a heavy everyday traffic such as airports, trade centers, hospitals, hotels etc.



(door leaf + door frame)



full

pattern 1

pattern 2

pattern 3

pattern 4

AVAILABLE COLORS

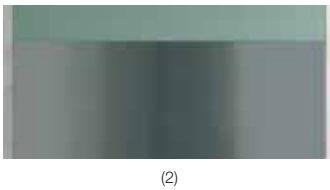
HPL veneer ★★★★★★



DOOR LEAVES – CROSS-SECTIONS



ENDURO equipment



WARRANTY

10 years
for door
construction

DOOR LEAF CONSTRUCTION

The door leaf consists of a finger jointed softwood frame filled with reinforced solid chipboard. The leaf is also additionally reinforced with an internal sill and covered on both sides with HDF boards.

LEAF EDGE PROFILE

"K" profile leaf edge - the side edges are reinforced with rustless steel architraves. The leaf itself is made in the rebate version (except swing-leaf version).

FINISHING

The door leaf is veneered with HPL laminate with 0.7 mm thick.

MODELS

Single leaf: full, glazed. Every model can be ordered as a swing version.

ACCESSORIES – included in the leaf price

- Three reinforced standard pintle hinges (in a swing-leaf stainless steel version)
- Pane pattern (transparent or hardened mat)
- Lock: for regular key, bathroom lock or for cylinder insert
- Door frame

LEAF SIZES (page 155, table 3)

Single leaf: „60" ± „100"

DOOR FRAME

- Angle-bar metal frame of profile 100 mm. The frame is made of both sides zinc coated steel 1,2 mm thick. It is equipped with: three standard pintle hinges, circumferential rubber seal, six assembly dowels. It's also painted with polyester powder paint: white (RAL 9016), grey (RAL 7047), cream (RAL 1001), brown (RAL 8028), green (RAL 6019).

Door frame is available in two versions:

- for setting on already prepared floor – level "0"
- for cementing in the floor – level "-30".

ADDITIONAL CHARGES (option)

„100" size

handle with escutcheon (EDEL)

the frame section from 80 to 100 mm

free of charge

expanding the frame section from 105 to 150 mm

expanding the frame section from 155 to 270 mm

expanding the frame section from 275 to 390 mm

(1) upper panel (set on two sides)

(2) bottom panel (set on two sides)

(3) bottom ventilation panel (set on two sides)

(4) ventilation grid (set on two sides)

(5) straight handle (set on one side)

(6) swing version

AQUA



AQUA type doors turn out to be useful in rooms with high humidity. Door structure enables use in all types of rooms exposed to direct contact with water. Applied HPL coat, resistant to mechanical damage guarantees long-term exploitation of doors in extreme conditions. Doors are especially suitable for swimming pools, car washes, bathhouses, etc.



(door leaf + door frame)



full

pattern 1

pattern 2

pattern 3

pattern 4

AVAILABLE COLORS

HPL veneer ★★★★★★



DOOR LEAVES – CROSS-SECTIONS



hard polyurethane foam (AQUA)

DOOR LEAF CONSTRUCTION

Door leaf frame is made of slow-burning, chemical resistant, water-resistant material. Core is made of hard polyurethane foam with similar properties. Door leaf components are joined using water-resistant and chemical resistant adhesive. Frame with core is coated from both sides with HPL – material resistant to mechanical damage.

PROFIL

Door leaf is available only in non-rebate version.

FINISHING

Door leaf is coated with HPL veneer (1.5 mm thick).

MODELS

Single leaf: full and with glazing.

ACCESSORIES – included in the leaf price

- Two hinges made of stainless steel
- Pane pattern (transparent or hardened mat)
- Lock made of stainless steel available in three versions: for regular key, with bathroom lock or cylinder insert
- Door frame

LEAF SIZES (page 155, table 3)

Single leaf: „60” ÷ „100”

DOOR FRAME

- Large angle-bar frame of profile 100 mm. The frame is made of both sides zinc coated steel 1.2 mm thick. It is equipped with: two hinges pintle standard, circumferential rubber seal, six assembly dowels. It's also painted with polyester powder paint: white (RAL 9016), grey (RAL 7047) or blue (RAL 5005).

Door frame is available in two versions:

- for setting on already prepared floor – level “0”
- for cementing in the floor – level “-30”

ADDITIONAL CHARGES (option)

„100” size

handle with escutcheon (EDEL)

ventilation grid made from stainless steel

the frame section from 80 to 100 mm free of charge free of charge

expanding the frame section from 105 to 150 mm

expanding the frame section from 155 to 270 mm

expanding the frame section from 275 to 390 mm

Metal



Metal doors are manufactured with two coating versions: acid proof and zinc-coated steel sheet in painted or PVC coated version. High technical parameters ensured the certificate of the National Institute of Hygiene for the metal doors and they may be used in hospitals, laboratories, restaurants, utility rooms, basements, garages etc



full



pattern 1



pattern 2



pattern 3



pattern 4

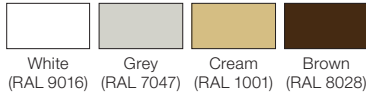


pattern 3

Acid-resistant steel – sample

AVAILABLE COLORS

Polyester paint ★★★★★☆



PVC laminated steel sheet ★★★★★☆



Steel ★★★★★



Acid-proof
stainless steel

DOOR LEAVES – CROSS-SECTIONS



foamed polystyrene (U = 0,88 W/m² K)



mineral wool (U = 0,91 W/m² K)



„honeycomb“ stabilizing

DOOR LEAF CONSTRUCTION

Closed jacket structure of brushed stainless steel (acid proof) or steel sheet zinc-coated on both sides, painted or PVC laminated (extra charged option)¹. The leaf filled with foamed polystyrene, mineral wool or reinforced honeycomb core with wood inserts for hinges and lock. For acid proof version stainless steel hardware are provided.

LEAF EDGE PROFILE

Both sides and the upper edge of the leaf come in leaf color finish. The leaf itself is made in the rebate version.

FINISHING

Zinc-coated sheet leaf finish:

- powder-coated with polyester primer paints (honeycomb or mineral wool core)
- not painted (filled with foamed polystyrene)
- wood-like PVC laminate (for all types of cores)

Brushed stainless steel finish (acid proof):

- no coating for any type of core.

MODELS

Single and double doors (only for door leaves from zinc-coated steel): full, glazed.

ACCESSORIES – included in the leaf price

- Two standard pintle hinges (three hinges for a leaf of dimension „100“)
- Lock for cylinder insert
- Pane pattern (transparent or hardened mat)

LEAF SIZES (page 155, table 3)

Single leaf: „60“, „70“, „80“, „90“, „100“

Double leaf: (only for zinc-coated leaves): „120“ ± „200“²

RECOMMENDED DOOR FRAMES (from page 128)

- Large angle-bar door frame to be assembled, made of brushed stainless steel (acid proof)
- Metal door frames.

NOTES

- Door leaves made of acid-resistant steel or with foamed polystyrene are available in non-varnished version.

¹ PCV coating may only be provided for solid or bull's eye doors (model no 4).

² Arbitrary selection of door leaf sizes for double doors.

ADDITIONAL CHARGES (option)

„100“ size (zinc-coated leaves)

„100“ size (stainless steel acid proof leaves)

PCV laminate

ventilation sleeves (zinc-coated leaves)

ventilation grid (zinc-coated leaves)

handle with escutcheon

third hinge for the leaf dimensions „60“, „70“, „80“ or „90“

Metal EI 30



Metal doors with special fire resistant qualities – EI 30 are a universal solution for application in any kind of building meant for public use. Doors provide excellent protection from spreading fire in our garage, basement, workshop and in large warehouses and halls.
The self-closing mechanism installed allows for efficient traffic flow and increases the level of safety by separating the danger zone from the rest of the rooms.



(door leaf + door frame+ handle)



full

pattern 1

pattern 2

pattern 3

AVAILABLE COLORS

Polyester paint ★★★★★☆



White (RAL 9016) Grey (RAL 7047) Cream (RAL 1001) Brown (RAL 8028)

DOOR LEAVES – CROSS-SECTIONS



mineral wool (U = 0,91 W/m² K)

DOOR LEAF CONSTRUCTION

Leaf plate, 53 mm in total thickness, is an enclosed sleeve construction made of galvanized steel metal plate 0,8 mm thick. Leaf structure is reinforced by steel flat bars. Leaf filling consists of mineral wool.

LEAF EDGE PROFILE

Leaf is produced with a double rebate (20 mm wide).

FINISHING

Made of galvanized steel plating painted with polyester powder paint.

MODELS

Single leaf: full or glazed.

ACCESSORIES – included in the leaf price

- Two triple element hinges, one of them is a load bearing one, the other, thanks to the spring enclosed in it, facilitates doors closing on their own
- Insert lever lock
- Anti-leverage security bolt
- Set of door handles with plates
- Transparent fireproof pane

LEAF SIZES (page 155, table 3)

Single leaf: „60“, „70“, „80“, „90“, „100“

DOOR FRAME

- Angle-bar metal door frame with an 84 mm wide edge. Made of double sided sherardized steel plate of 1,5 mm thickness. Varnished using powdered primer paint in white (RAL 9016), grey (RAL 7047), brown (RAL 8028), cream (RAL 1001). Fitted with cushion seal and expansion seal.

Possibility to order metal door frames in one of two versions:

- for setting on the ready floor – level “0”
- for cementing in the floor – level “-30”– equipped with a threshold element.

NOTES

- Full doors, as well as patterns 1 and 3 sold as sets with the „-30 level“ frame do not have the direction of opening marked and are universal with this respect.
- To meet the outside door approval requirements, glazed models must be equipped with glass characterized by special parameters – price and execution lead time to be arranged with the PORTA Contract Department.

ADDITIONAL CHARGES (option)

fireproof eye-viewer

stainless steel threshold

reinforcement for the self-closing device
