



MULTIPURPOSE DOOR
ENSAMBLADA MODEL

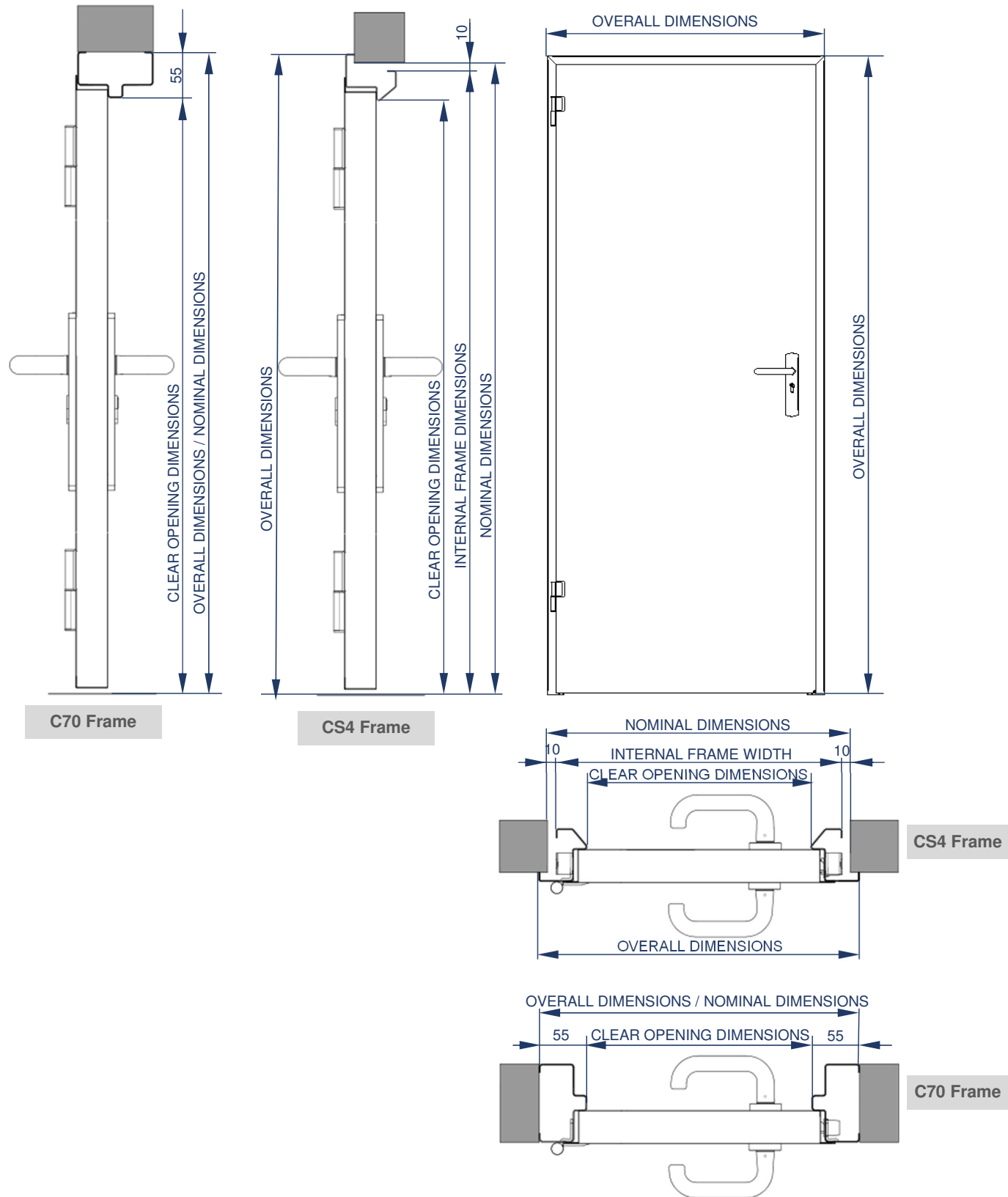
GENERAL FEATURES

Metallic swing and pivoting door, from our Multipurpose Range

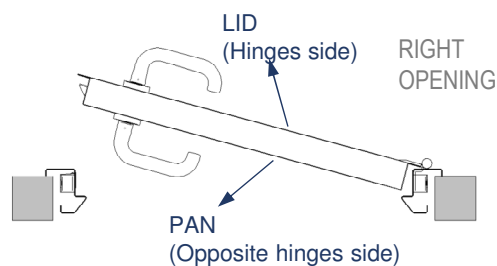
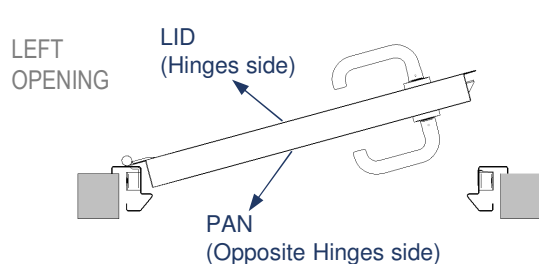
NOMENCLATURE

Nominal door dimensions, expressed in mm.

FRAME	NOMINAL DIMENSIONS
CS4	Internal Frame Width Dimensions +20 mm x Internal frame Height Dimensions +10 mm. <i>Example: : 890x2045 CS4</i>
C70	Overall Width Dimensions in mm x Overall Height Dimensions in mm. <i>Example: 910x2055 C70</i>



OPENING DIRECTION



STANDARD DIMENSIONS

	NOMINAL DIMENSIONS	CLEAR OPENING DIMENSIONS	INTERNAL FRAME DIMENSIONS	OVERALL DIMENSIONS
CS4 FRAME	690 x 2045	600 x 2000	670 x 2035	710 x 2055
	790 x 2045	700 x 2000	770 x 2035	810 x 2055
	890 x 2045	800 x 2000	870 x 2035	910 x 2055
	990 x 2045	900 x 2000	970 x 2035	1010 x 2055
	1090 x 2045	1000 x 2000	1070 x 2035	1110 x 2055
	1190 x 2045	1100 x 2000	1170 x 2035	1210 x 2055
	NOMINAL DIMENSIONS	CLEAR OPENING DIMENSIONS	INTERNAL FRAME DIMENSIONS	OVERALL DIMENSIONS
C70 FRAME	710 x 2055	600 x 2000	710 x 2055	710 x 2055
	810 x 2055	700 x 2000	810 x 2055	810 x 2055
	910 x 2055	800 x 2000	910 x 2055	910 x 2055
	1010 x 2055	900 x 2000	1010 x 2055	1010 x 2055
	1110 x 2055	1000 x 2000	1110 x 2055	1110 x 2055
	1210 x 2055	1100 x 2000	1210 x 2055	1210 x 2055

Measures in mm.

MAXIMUM AND MINIMUM DIMENSIONS

FRAME	Maximum Nominal Dimensions	Minimum Nominal Dimensions
CS4	1220 x 2490	280 x 290
C70	1240 x 2500	300 x 300

Measures in mm.

FINISHES



GALVANISED



PRE-LACQUERED
WHITE ANDREU



POWDER COATED
(Ask for other
finishes)

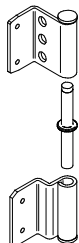


OLD OAK COATING (leaf)
RAL 8014 (frame)

DOORLEAF

HINGES

Steel pivot galvanised hinges.



HANDLE WITH ESCUTCHEON

20 mm Ø door handle, 8mm spindle and Black Nylon scutcheon.



LOCK

Galvanised steel mortise lockset. Distance between each axis 47 mm, backset 60 mm.



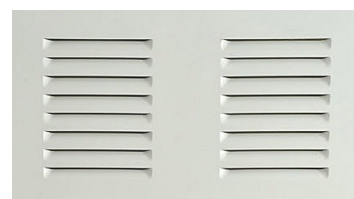
CYLINDER

30x30 mm Nickel finish Cylinder.



VENTILATION (Optional)

Both sides louvres (Pan and Lid).



DOORLEAF FEATURES

Door leaf thickness	38 mm.
Edge Type	Pressed 17mm wide and 1,8mm thick edge.
Lock	One point lockset.
Ventilation	Optional. See page 13 for different options.
Hinges	2 hinges for up to 2045 mm nominal height for CS4 frame. 2 hinges for up to 2055 mm nominal height for C70 frame.
Material Type/Thickness	Galvanised Steel / Minimum thickness 0,5 mm.
Available Finishes	Galvanised Steel Pre-Lacquered White Steel (Andreu Finish). RAL Coatings Old oak coating (door leaf) + RAL 8014 (frame). Other finishes upon request.
Internal Filling	Injected polyurethane.

FRAMES CS4 / C70

FRAME UNION

The joint between the door jamb and top jamb uses screws, no welding is required.



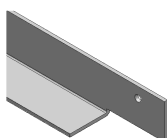
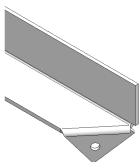
ANCHORING SYSTEM

24 x 1,5 mm thick steel anchors as an anchoring system.



THRESHOLD

Fixation threshold to maintain the correct level.



CS4 Threshold

C70 Threshold

LATCH JAMB

Carter latch and bolt protections



Galvanised finish for prepainted doors.



Polypropylene finish for galvanised doors.

FIXING SCREWS

The fixing screw guarantees the door stability and keeps the correct clearance for door installation.

Optional: No screw and double fixation threshold.



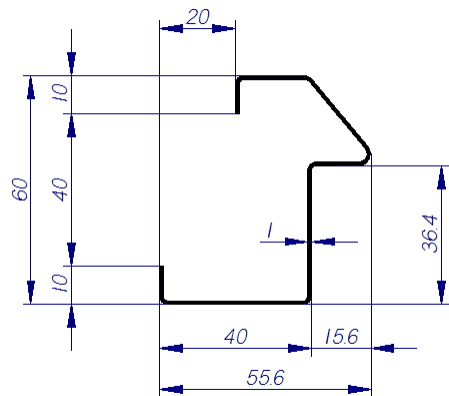
Fixing screw

FRAME FEATURES

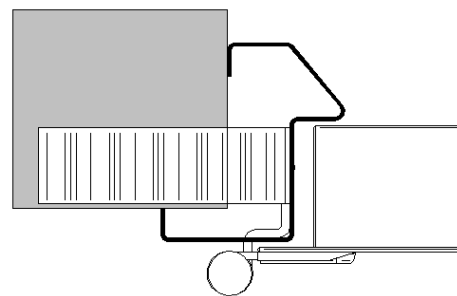
Standard Frame	Frame CS4 / C70.
Material Type / Thickness	1mm thick Galvanised Steel.
Available Finishes	Galvanised Steel Pre-Lacquered White Steel (Andreu Finish). RAL Coatings RAL 8014 Coating (brown)
Anchoring System	Steel anchors / Optional: Screws system, see page 13.
Latch jamb	Carter latch and bolt protections.
Assembly System / Frame junction between height and width	Screws / Mitred frame 45°.

STANDARD FRAME

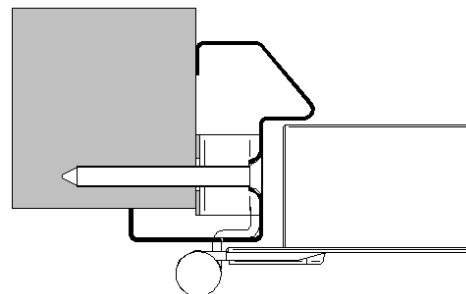
■ **CS4 Corner Frame.** Joined to the mitred frame using a screwing system.



Section Frame CS4



Installation with steel anchors



Screwing installation (optional)

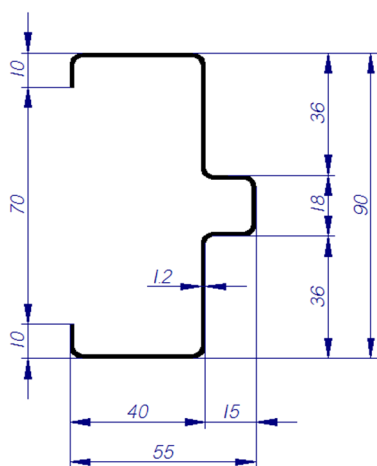


Mitred frame

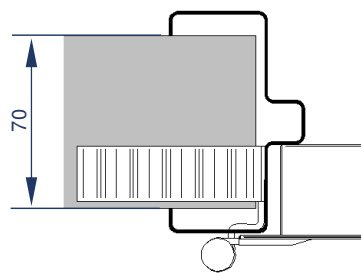


Screwing system

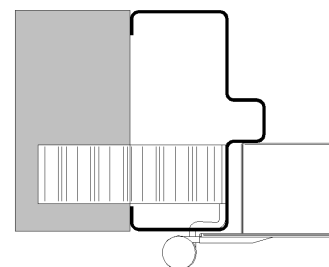
■ **C70 non cornered Frame.** Joined to the mitred frame using a screwing system to wrap wall up to 7 cm thick.



Section Frame C70



Installation with steel anchors



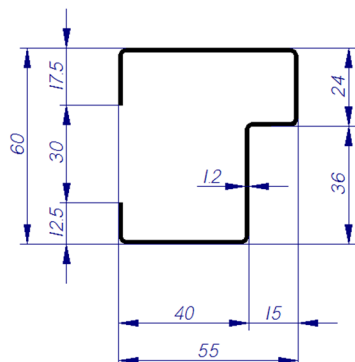
Mitred frame



Screwing system

OPTIONAL FRAMES

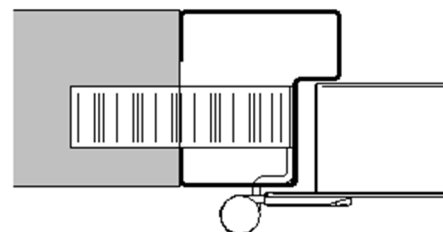
- **C30, non cornered frame.** Straight joint using a flapping system.



Section Frame C30

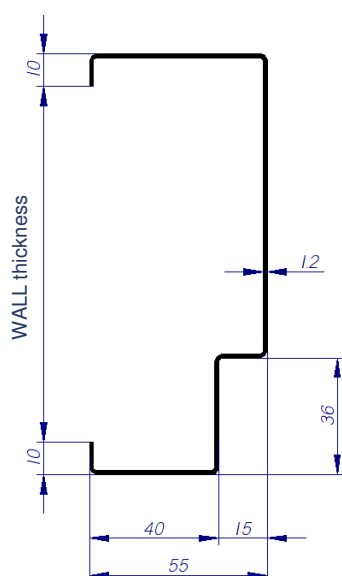


Straight frame



Installation with steel anchors

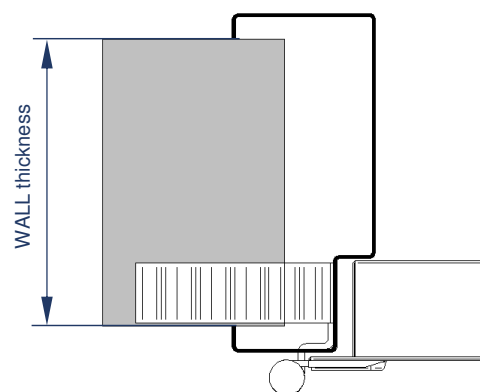
- **Wide CO non cornered frame.** It allows adjusting to different-depth walls. Straight joint using a flapping system.



Section Frame CO-Wall



Straight frame



Installation with steel anchors

SERIAL FITTINGS

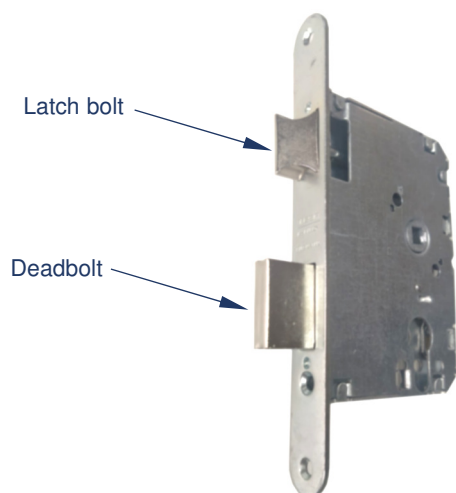
- **HANDLE WITH ESCUTCHEON.** Escutcheon + handle set with 47 mm keyhole, black nylon finish.



OPTIONAL: Other combinations available

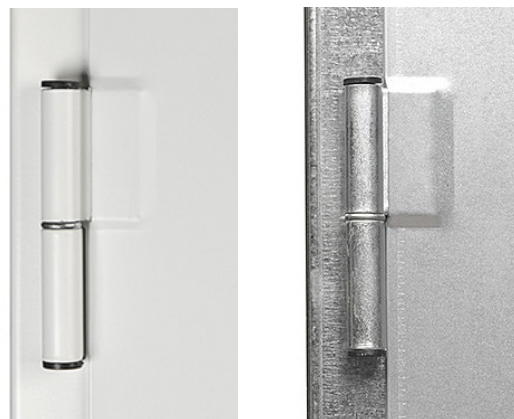
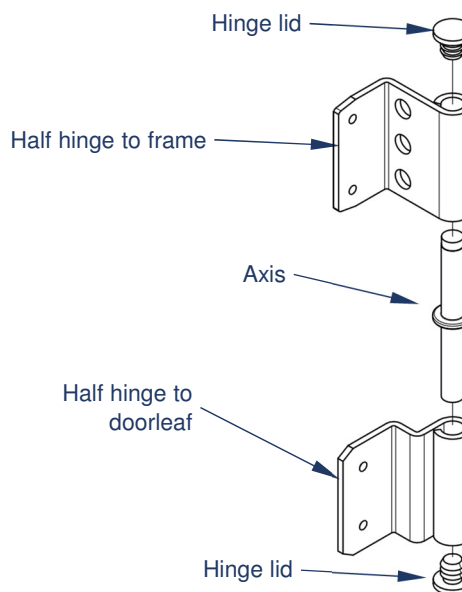
	Escutcheon + handle set, without keyhole
	Escutcheon + handle set, without keyhole + Deadknob with 47mm keyhole.
	Escutcheon + handle set with 47 mm keyhole + deadknob with 47mm keyhole.

- **LOCK.** Galvanised Steel mortised lock. 47mm keyhole, 8mm follower and 60 mm backset. Two-turns locks with latch bolt and deadbolt.



- **HINGES.** Standard galvanised 2 mm Steel hinge, 14 mm diameter. Black nylon hinge lids. Hinge clinched/screwed to the door leaf and welded to the frame.

OPTIONAL: Other finishes.



- **CYLINDER.** 30x30 mm cylinder. Nickel finish.



OPTIONAL ACCESSORIES

- **HANDLE WITH ESCUTCHEON INOX AISI 304/316.** 47mm, 72 mm or 85 mm keyhole.

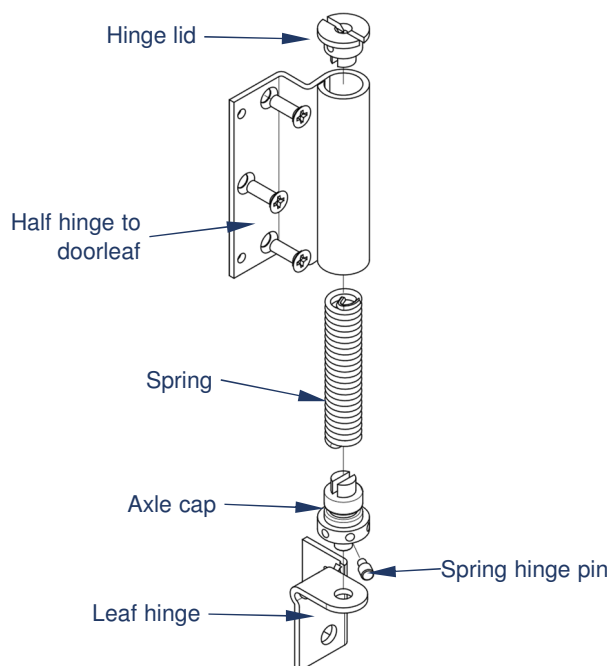


- **HANDLE WITH ROSE INOX AISI 304/316.**



OPTIONAL HINGES

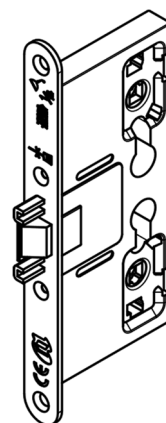
- RF type HINGES, with or without spring.



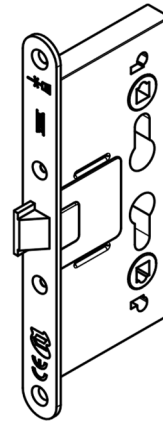
- **HINGE number.** Additional hinges can be added if requested.

LOCKS.

- LOCK TESA CF50. 72 mm keyhole, 9mm follower and 65 mm backset.
- LOCK TESA CF60. 72 mm keyhole, 9 mm follower and 65 mm backset

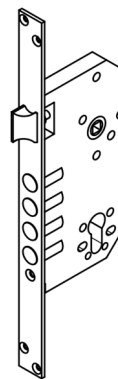


LOCK CF50

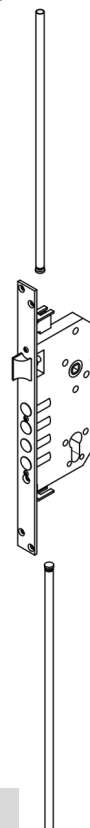


LOCK CF60

- LOCK TESA TCAL (TCAA), one point lock.
- LOCK TESA TCAN, multipoint lock.



TCAL LOCK



TCAN LOCK

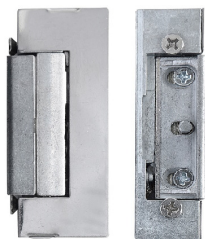
- **DOORCLOSER.** To ensure controlled door closing.



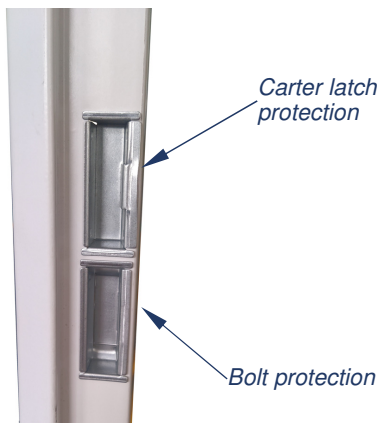
■ CYLINDERS

	Cylinder TE-5 30x30 with knob. Finishes: brass and nickel.
	1/2 cylinder TE-5 30x10 . Finishes: brass and nickel.

- **ELECTRIC STRIKE.** Located in the frame. Normally closed (fail secure function) with memory. Additional functions upon request.



- **STAINLESS STEEL CARTER LATCH AND BOLT PROTECTION.** Located in the frame. (stainless steel finish for prepainted doors).



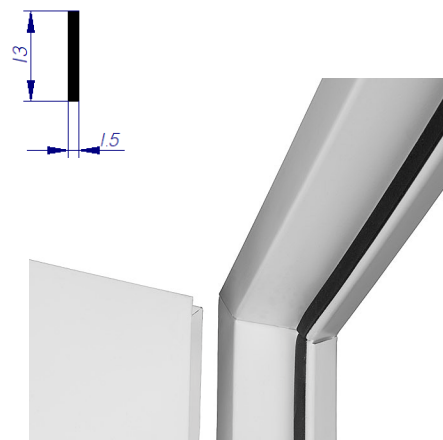
- **ANTI-CROW BAR BOLTS.** Located at the side of the leaf. Nickel finish.



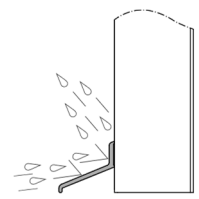
- **WIDE ANGLE PEEPHOLE.** Located at 1550 mm from the ground. Brass or nickel finish.



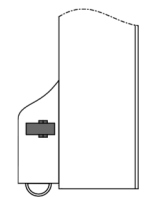
- **RUBBER SEAL.** As an option possibility of rubber seal 1,5 x 13 mm chloroprene installed inside the frame.



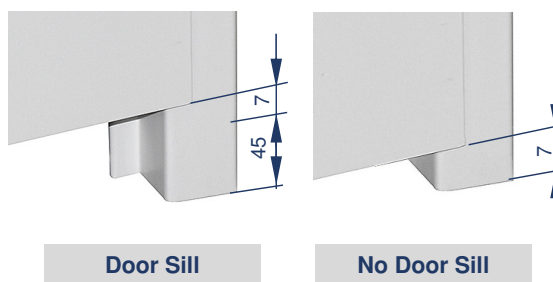
- **RAINDRIP.** To be installed in the outside part of the door. Different RAL finishes available. ELLEN ALD A125 model.



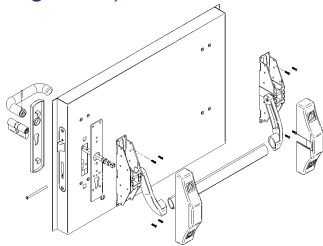
- **THRESHOLD.** Overlapping DOMATIC DA1061 threshold



- **WITHOUT DOOR SILL.** Possibility to order frame door sill upon request.



■ **PANIC DEVICE.** Installed on the Pan side (Opposite hinge side).



2000N Panic Device



2000N Stainless Steel Panic Device

PANIC DEVICE 2000N	• Mortise lock • Black nylon supports with grey bar
	• Mortise lock • Zamac finish support with stainless steel bar



Panic Device 2000S 3P



PANIC DEVICE 2000S

PANIC DEVICE 2000S	• Superimposed panic device without lock • Black nylon supports with grey bar
PANIC DEVICE 2000S 3P	• Superimposed panic device without lock • Black nylon supports with grey bar



Mortise panic Device Quick 1P



Superimposed panic Device Quick 1P



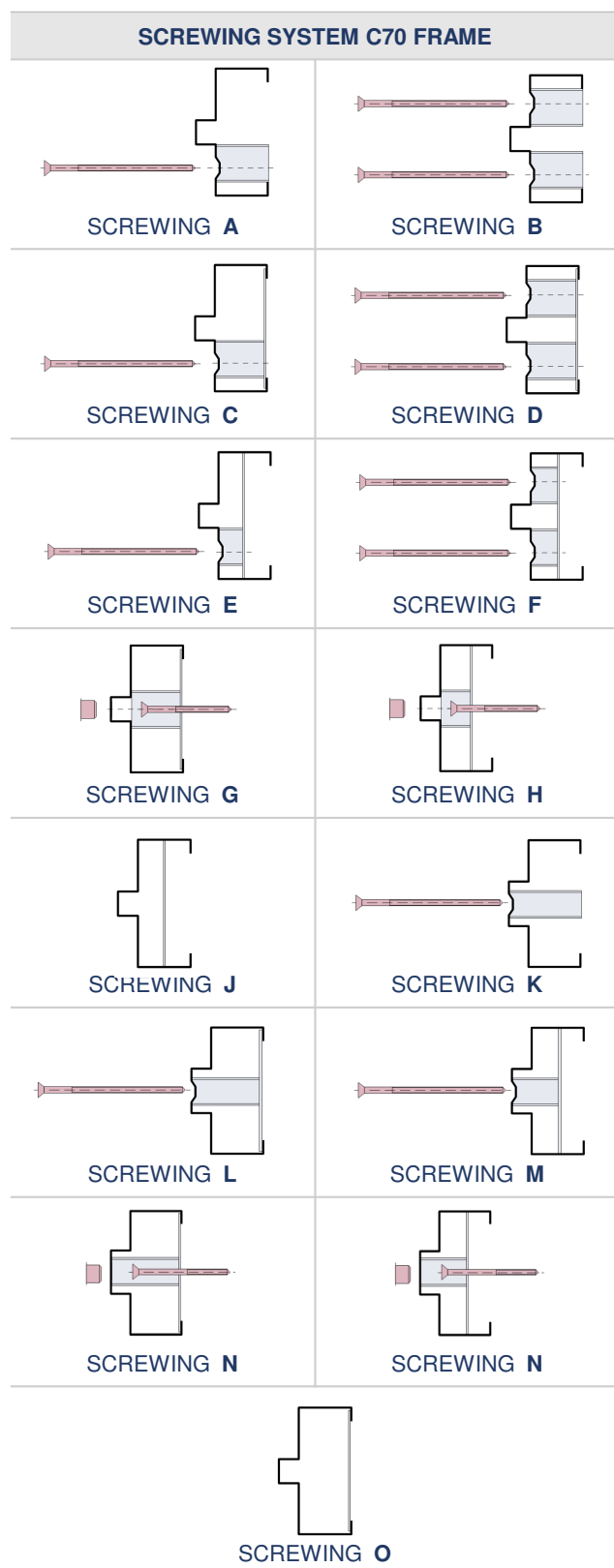
Superimposed panic Device Quick 3P

PANIC DEVICE QUICK 1P Wt/keyhole	• Mortise lock • Black supports with red or black bar
PANIC DEVICE QUICK 1P Wt/keyhole	• Superimposed panic device, without lock. • Black supports with red or black bar
PANIC DEVICE QUICK 2/3P Wt/keyhole	• Superimposed panic device without lock. • Black supports with red or black bar

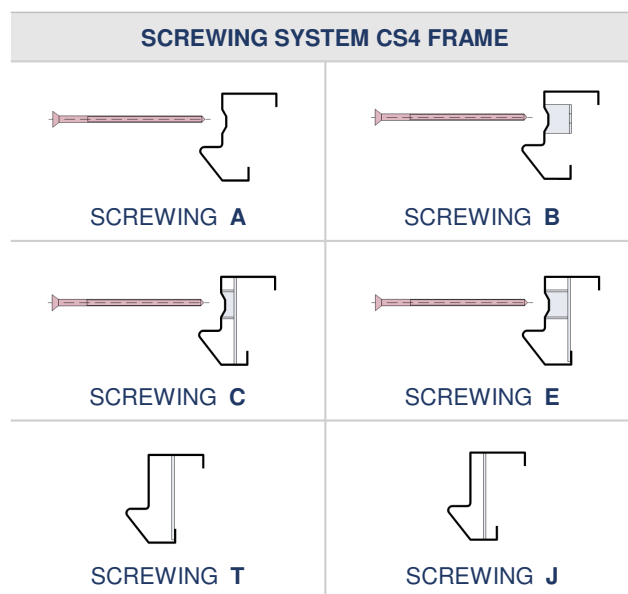


PANIC DEVICE 1970 45°	• Panic function 3points lock TCAA/TCAN 3P
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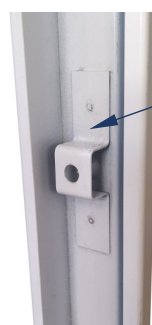
■ SCREWING SYSTEM C70 FRAME.



■ SCREWING SYSTEM CS4 FRAME.



Screwing System A
CS4 FRAME



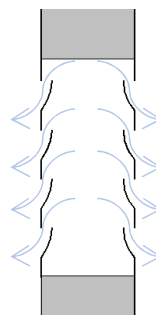
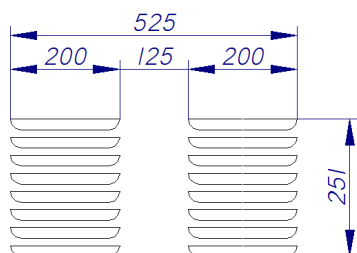
Arch

Screwing System B
CS4 FRAME

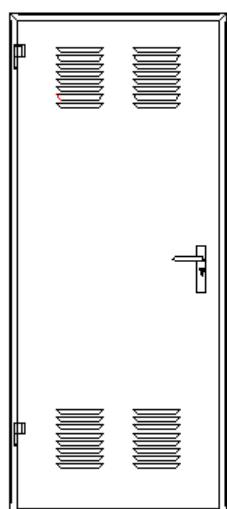


Screwing System B
C70 FRAME

- **VENTILATION.** Die-cut louvres guarantee closed areas ventilation, without allowing water or vision to pass through, but they enable airflow. Double or single louvers, top and/or bottom options, maximum ventilation.

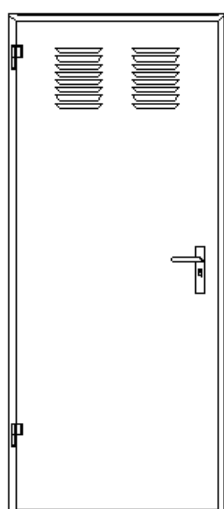


Air flow

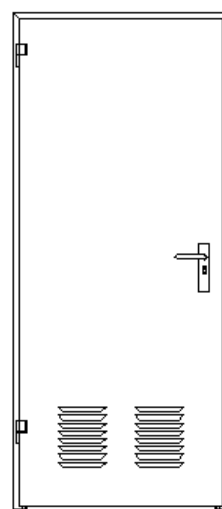


**STANDARD
VENTILATION
TOP AND BOTTOM**

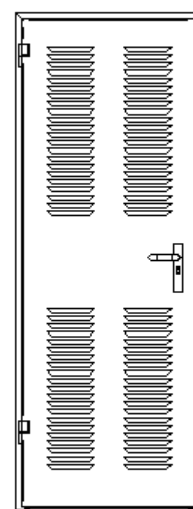
Standard ventilation.



**DOUBLE
VENTILATION
TOP**

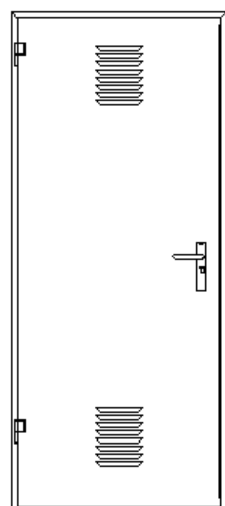


**DOUBLE
VENTILATION
BOTTOM**

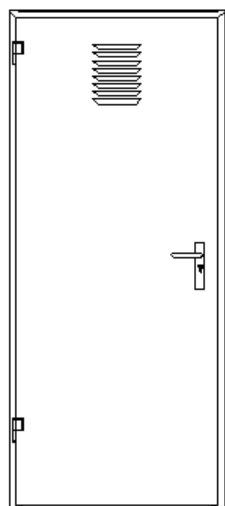


**MAXIMUM
DOUBLE
VENTILATION**

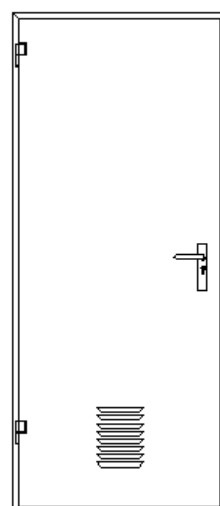
*Minimum nominal width
690 mm for CS4 doors.*



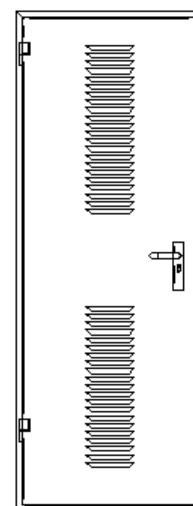
**SIMPLE
VENTILATION
TOP AND BOTTOM**



**SIMPLE
VENTILATION
TOP**



**SIMPLE
VENTILATION
BOTTOM**



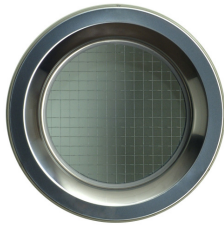
**MAXIMUM SIMPLE
VENTILATION**

■ GLAZING. Glazing types:

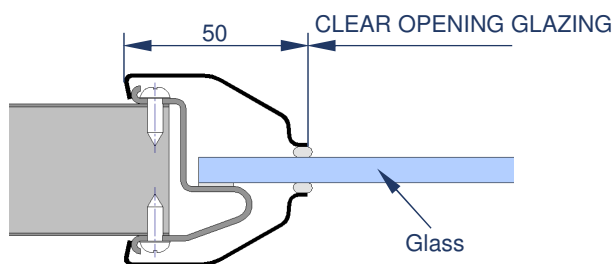
- Laminar glazing, 3+3, with a plastic colourless sheet in between glass sheets.
- Reinforced glazing, 7 mm thick, including a metal mesh between glass sheets.



Laminar Glazing



Reinforced glazing



■ RECTANGULAR PORTHOLE. Gloss galvanised Steel glazing frames, AISI 430.

OPTIONAL: RAL finish.



• Rectangular portholes dimensions:

- 200 x 200 mm
- 250 x 400 mm
- 300 x 400 mm
- 400 x 400 mm

■ ROUND PORTHOLE. Gloss galvanised Steel glazing round frames, AISI 430.

OPTIONAL: RAL finish.



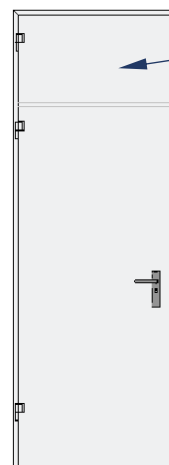
• Round portholes dimensions:

- Ø 200 mm.
- Ø 360 mm.

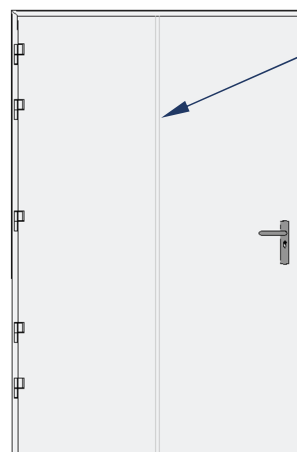
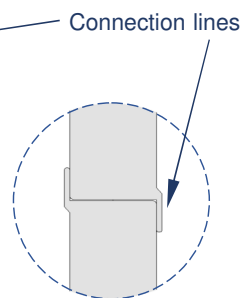
■ INCLINED ENSAMBLADAS. These doors are designed for bespoke spaces (stairwells for example).



■ ENSAMBLADAS WITH FIX PANEL. Big dimension doors. Fix panels can be included to increase the height as well as the width.

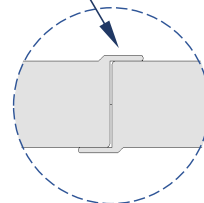


Upper fix

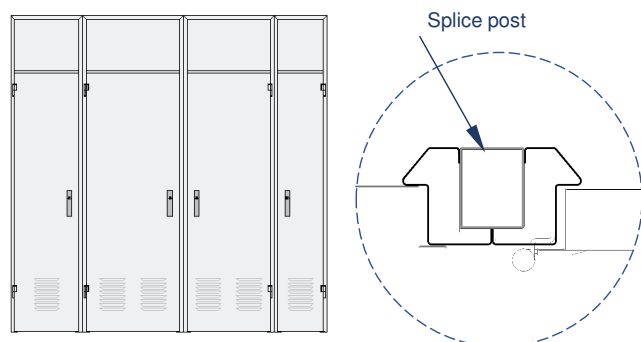


Side fix

Connection lines

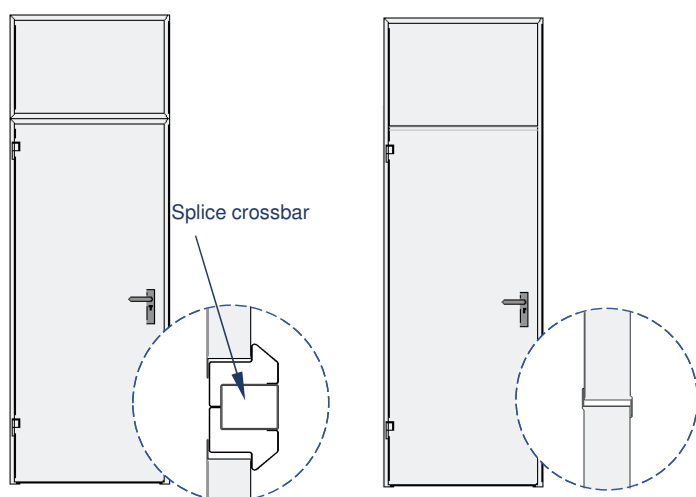


- **ENSEMBLED DOORS.** The **splice posts** give strength between the doors at an ensembled doors installation. The post sizes are 50x40 mm for CS4 frames and 70x70 mm for C70 frames.



Ensembled doors using splice posts

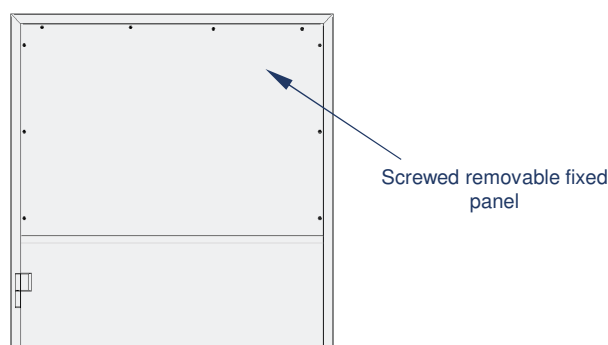
- **FIXED PANEL.** Fixed panels are another solution to cover especially big gaps, using the same structure as the doors. They can be located at the side using a middle frame and/or at the top with or without a middle frame.



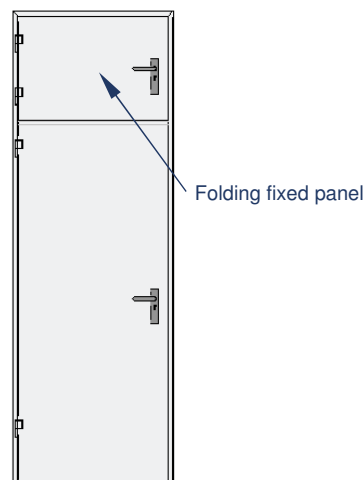
Top fixed panel using a middle frame

Top fixed panel, no middle frame.

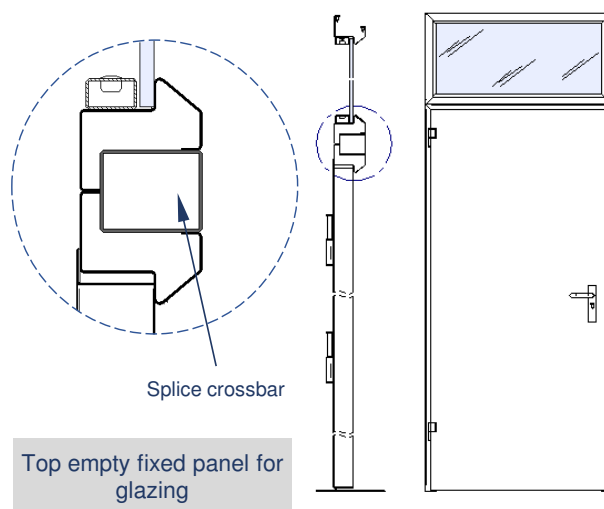
- **REMOVABLE FIXED PANELS.** They are door panels screwed to the frame. Top or side panels.



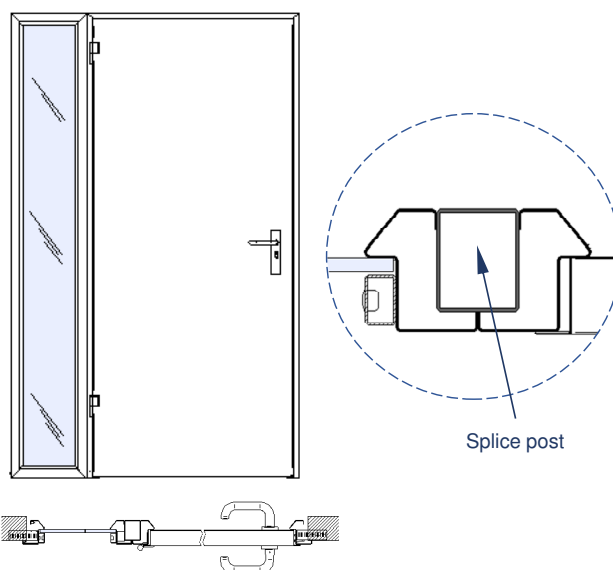
- **FOLDING TOP FIXED PANEL.** They can open and close independently from the door.



- **EMPTY FIXED PANEL FOR GLAZING.** Top and side fixed panels, joint with 50x40mm splice crossbars for CS4 frames and 70x70mm for C70 frames.



Top empty fixed panel for glazing



Side empty fixed panel for glazing

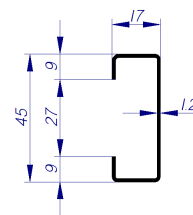
SUB-FRAME

Sub-frames can be adapted to rigid or flexible walls (modular plasterboard walls).

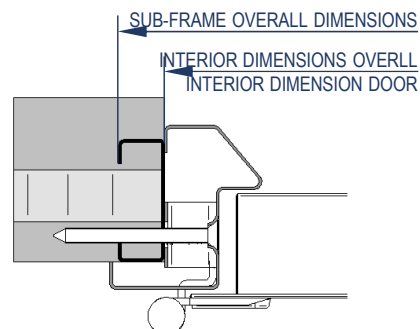
■ **SUB-FRAME FOR RIGID WALL.** Sub-frame model for CS4/C70 frames.

Steel type: 1,2 mm thick galvanised Steel.

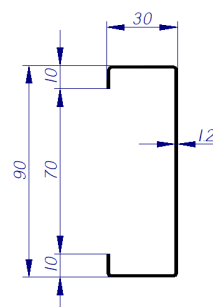
Anchoring system. Anchoring by using Steel anchors.



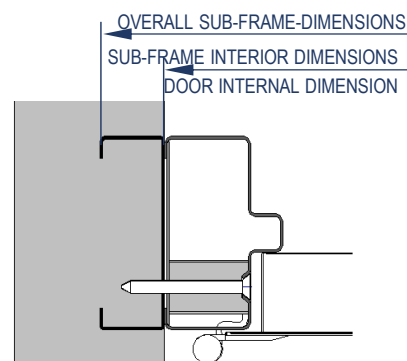
Sub-frame CS4 Section



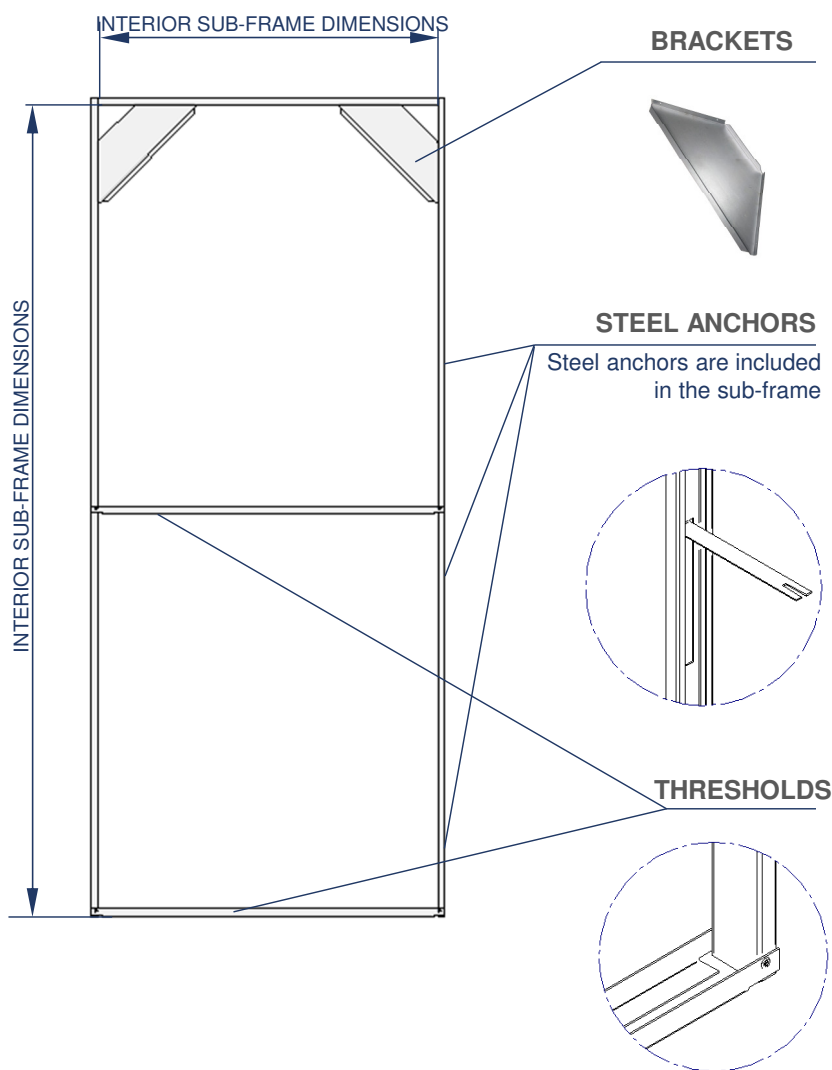
CS4 Frame + Sub-frame



Sub-frame C70 Section



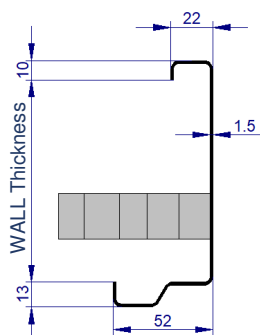
C70 Frame + Sub-frame



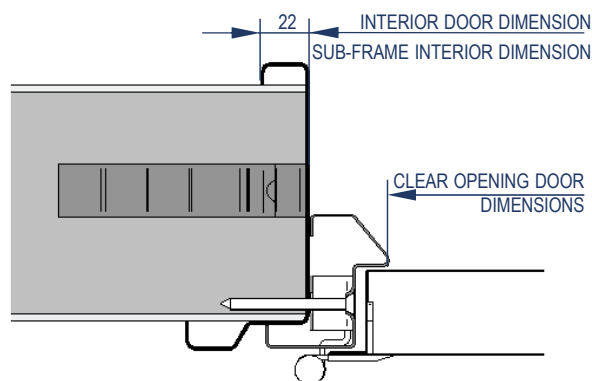
FRAME	DOOR				SUB-FRAME		
	NOMINAL DIMENSIONS	CLEAR OPENING DIMENSIONS	INTERIOR FRAME DIMENSIONS	TOTAL DIMENSIONS	NOMINAL DIMENSIONS	SUB-FRAME, GALVANISED FRAME	OVERALL DIMENSIONS
CS4	690 x 2045	600 x 2000	670 x 2035	710 x 2055	690 x 2045	672 x 2036	706 x 2053
	990 x 2045	900 x 2000	970 x 2035	1010 x 2055	990 x 2045	972 x 2036	1006 x 2053
	1190 x 2045	1100 x 2000	1170 x 2035	1210 x 2055	1190 x 2045	1172 x 2036	1206 x 2053
C70	710 x 2055	600 x 2000	710 x 2055	710 x 2055	710 x 2055	712 x 2056	772 x 2086
	910 x 2055	800 x 2000	910 x 2055	910 x 2055	910 x 2055	912 x 2056	982 x 2086
	1110 x 2055	1000 x 2000	1110 x 2055	1110 x 2055	1110 x 2055	1112 x 2056	1172 x 2086

Different dimensions available on request.

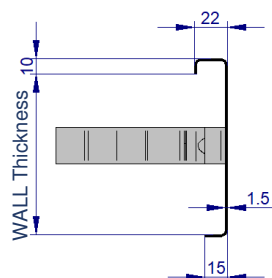
- **WRAPPING SUB-FRAME FOR RIGID WALL.** Sub-frame model for CS4 Frame
Steel type: 1,5 mm thick galvanised steel.



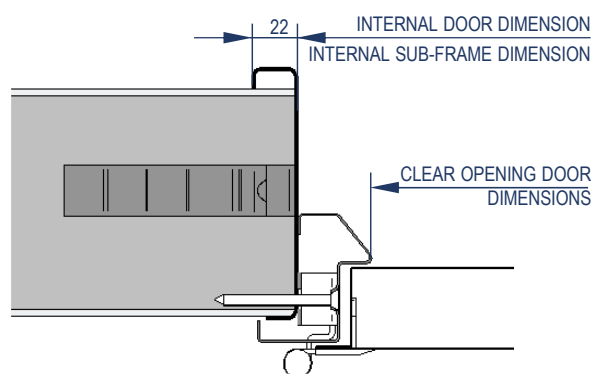
Wrapping Sub-frame section



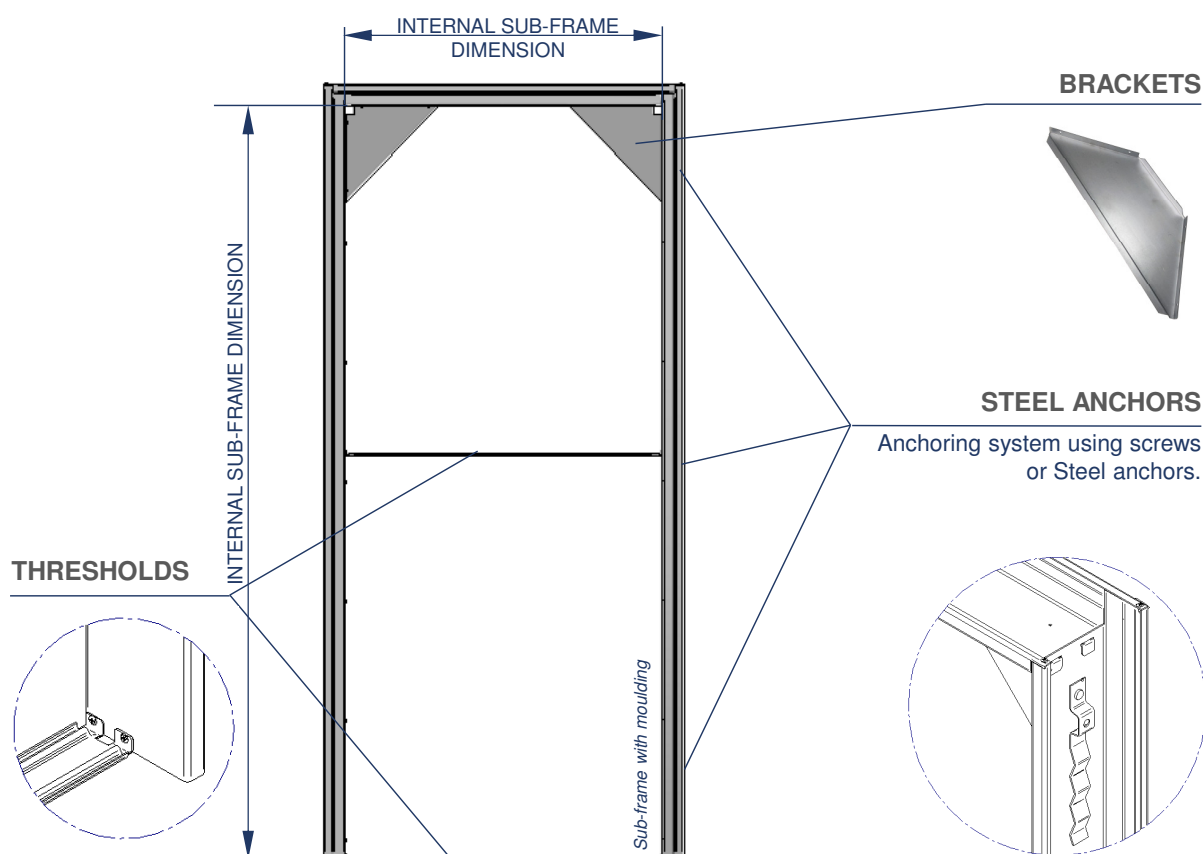
CS4 Frame + Wrapping Sub-frame



Wrapping Sub-frame without moulding section



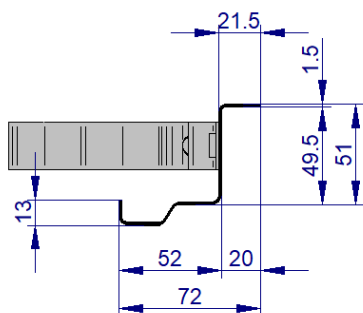
CS4 Frame + Wrapping Sub-frame without moulding



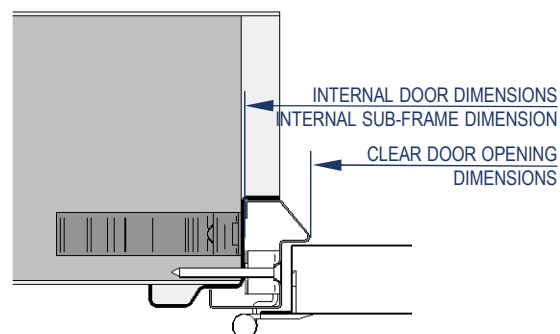
■ CORNERED SUB-FRAME FOR RIGID WALL.

Sub-frame model for CS4 frame.

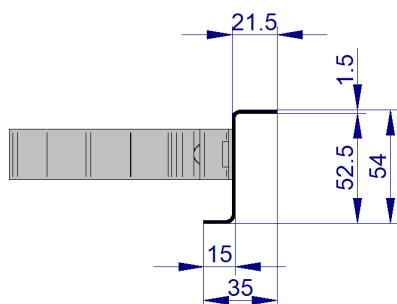
Steel type: 1,5 mm thick galvanised steel.



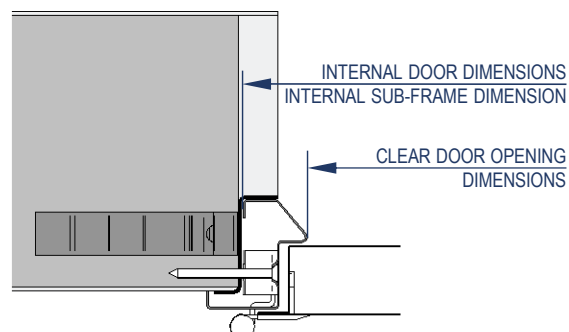
Cornered Sub-frame section



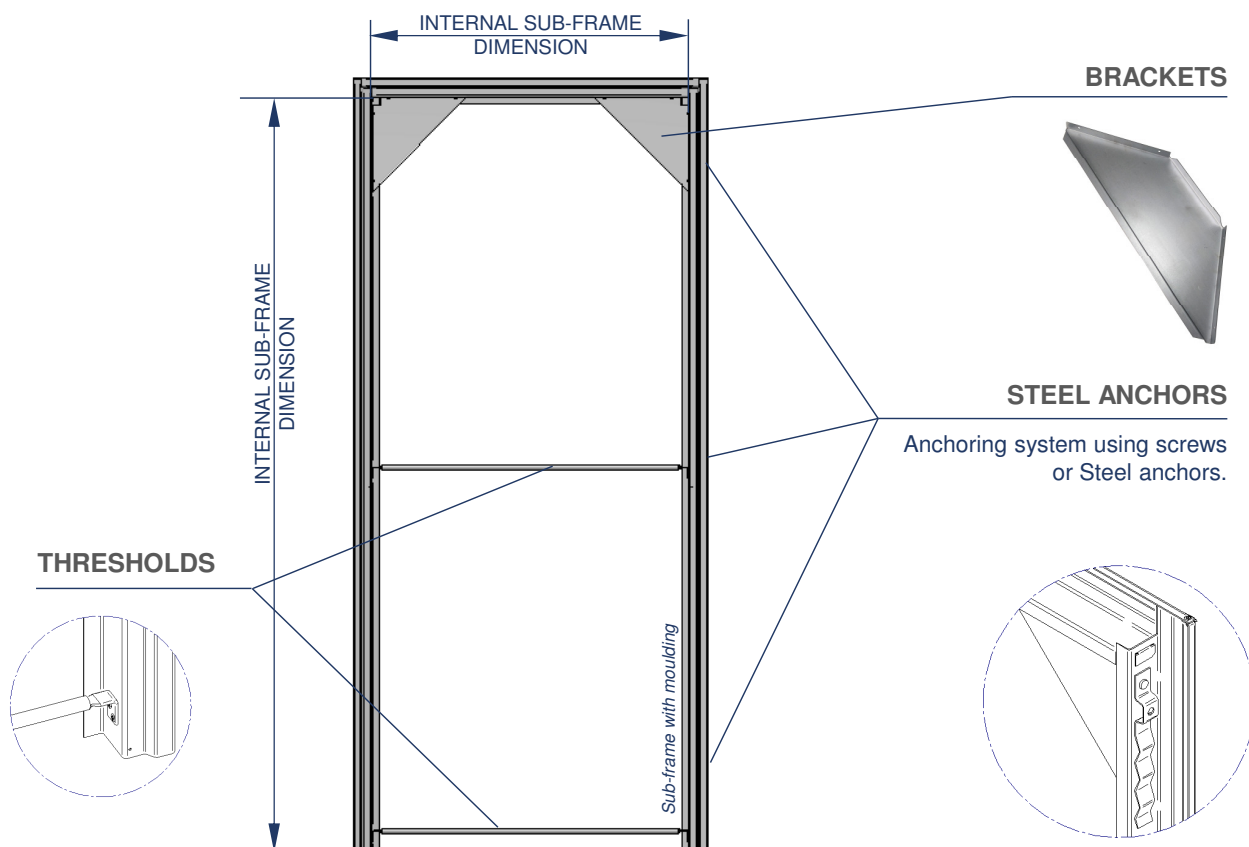
CS4 Frame + Cornered Sub-frame



Cornered Sub-frame without moulding section



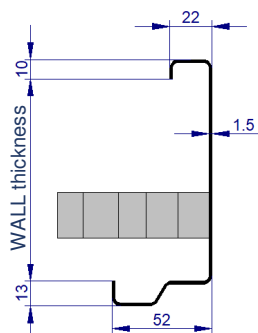
CS4 Frame + cornered Sub-frame without moulding



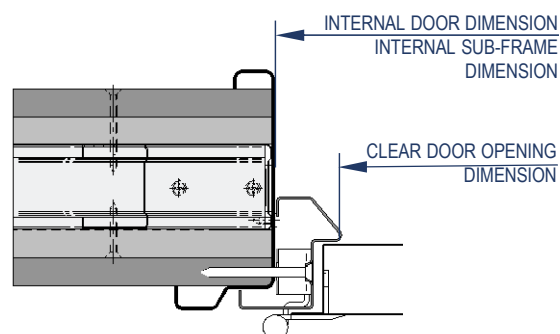
■ WRAPPING SUB-FRAME FOR FLEXIBLE WALL.

Sub-frame model for CS4 Frame.

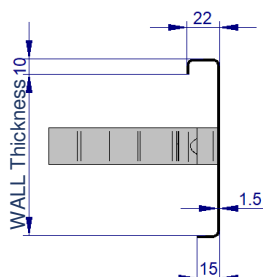
Steel type: 1,5 mm thick galvanised steel



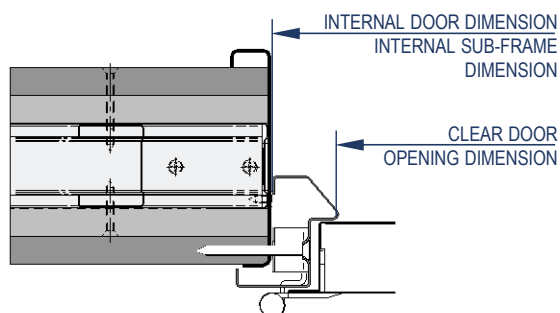
Wrapping Sub-frame section



CS4 Frame + Wrapping Sub-frame



Wrapping Sub-frame without moulding section

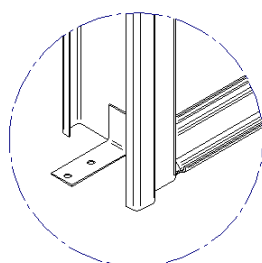


CS4 Frame + Wrapping Sub-frame without moulding

EXTENSIONS

For sub-frame fastening to the ceiling, these extensions can be up to 2500mm.

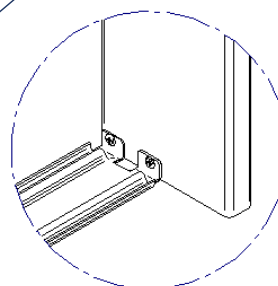
GROUND ANCHORING



BRACKETS

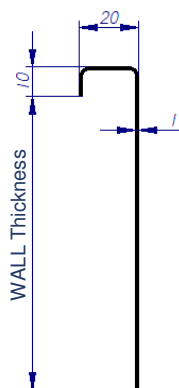


THRESHOLDS

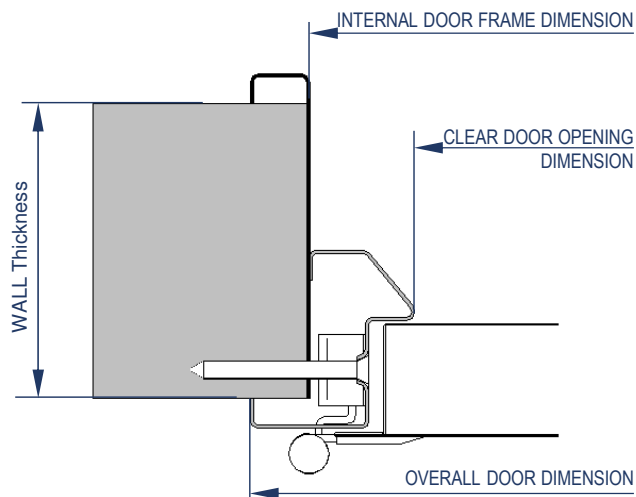


COUNTER FRAME

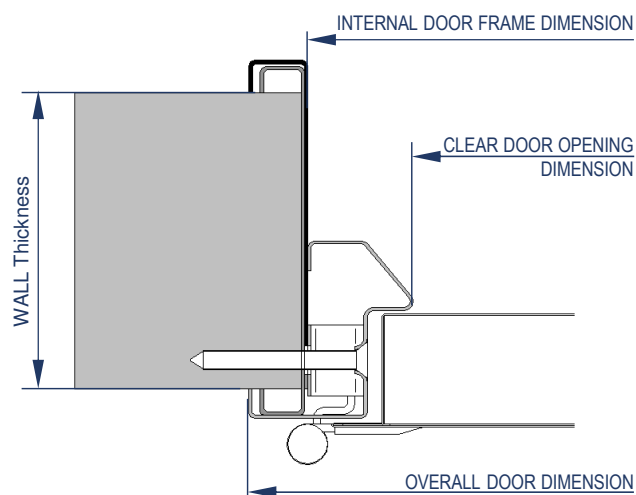
- **COUNTER-FRAME FOR CS4 FRAME.** It allows adapting to the required wall thickness.



Counter-frame section



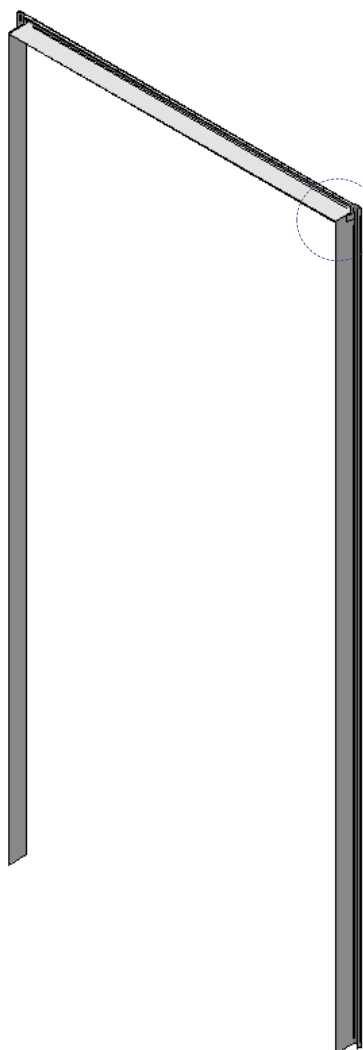
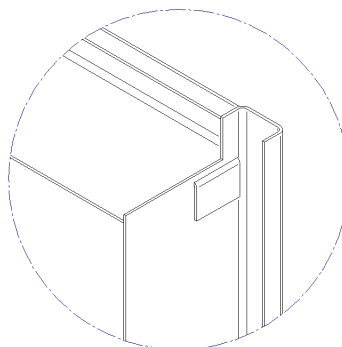
CS4 Frame + Counter-frame



CS4 Frame + Sub-frame + Counter frame

ASSEMBLY

Assembly using a flapping system



PACKAGING

- All our Multipurpose Range is packed using a ONE BY ONE system in vertical pallet. Another packaging upon request.



	Ensamblada CS4	Ensamblada C70
No. Doors	18 No. Galva / White	12 No. Galva / White
Pallet width	1 m Galva / White	1 m Galva / White
Pallet length	1,18 m	1,18 m
Pallet height	2,27 m	2,27 m
Approx. Weight	484 Kg* Galva 402 Kg** White	385 Kg** Galva 381 Kg** White

* 890 x 2045 **CS4** Nominal Dimension, Reference Ensamblada door pallet.

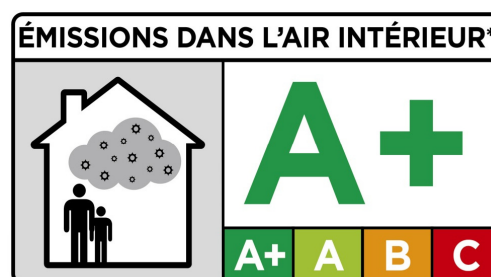
** 910 x 2055 **C70** Nominal Dimension Reference Ensamblada door pallet.

OPTIONAL PALLETISING

- Using plastic film.
- No holes on the frame for palletising brackets.
- Horizontal pallet.

LEGISLATION

- Product Range: MULTIPURPOSE DOOR (External and Internal Pedestrian Door).
- It has CE marking in accordance with EN 14351-1:2006 +A1: 2011+A2:2016 if installed as an external door.
- The benefits of the CE Marking are detailed in the Declaration of Performance (DoP ENSAMBLADA 1H and ENSAMBLADA 1H VENTILADA).
-  If used at an escape route, please check our **NEO** door.
- The Ensamblada door has been tested in accordance with ISO 16000-9 "*Indoor Air – Part 9: Determination of the emission of volatile organic compounds from building products and furnishing – Emission test chamber method*" and has achieved the most efficient Rate, A+.



DECLARATION OF PERFORMANCES (DoP)

Performance	Configuration: ENSAMBLADA 1 H	Configuration: ENSAMBLADA 1H VENT
Sealing to water	NPD	NPD
Dangerous substances (internal impact only)	NPD	NPD
Resistance to wind	Class 3	NPD
Resistance to impact (windowed doors only)	NPD	NPD
Capacity to withstand load from security devices	NPD	NPD
Height	Specified on Order	Specified on Order
Capacity of unblocking (blocked doors in escape routes only)	NPD	NPD
Handling strength (automatic devices only)	Class 4	NPD
Acoustic performance	NPD	NPD
Thermal transmittance	C70	1,7 W/m ² °K
	CS4	1,6 W/m ² °K
Wind permeability (*)	Class 2	NPD

NPD: Not declared performance.

(*) Class 2 for wind permeability is for doors with thresholds all over the perimeter (except for the lower side).



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The Steel Door Company