Front Doors

RD40

RYTERNA

"Ryterna Entry" is a part of the "Ryterna Group" who have been manufacturing doors since 1993. With authorised dealers all over Europe and our own transport fleet we can provide the shortest possible lead times. "Ryterna" entrance doors are manufactured in a new efficient factory located in Kaunas, Lithuania. Sustainability in manufacture combined with the thermal performance of our products is central to our growth philosophy. We constantly seek for morally responsible and environmentally cleaner ways to improve in all areas of business.

www.ryternaentry.com
www.ryternaentry.doorconfigurator.com

- Doors are made to measure:

  STD: 890 x 1990
  890 x 2090
  990 x 1990
  990 x 2090

  On request: Width 700 ÷ 1150
  Height 1700 ÷ 2250

- Double galvanized steel skin filled with PU foam door leaf
- Double sealing
- Tested at 200 000 open-close cycles

Thermal transmittance U value	**1.3 W/m²K***
Air permeability	**2**
Water tightness	**4A**
Resistance to wind load, test pressure	**3**
Resistance to wind load, frame deflection	**C**

INSTITUTE OF ARCHITECTURE AND CONSTRUCTION OF KAUNAS UNIVERSITY OF TECHNOLOGY
BUILDING PHYSICS LABORATORY
Notified Body number: 2018

CALCULATION REPORT No. 095 SF/20 U (S)
Date: 01 of July 2020
page (pages)
1 (12)

Determination of thermal transmittance of door
(test title)

Calculation methods: LST EN ISO 10077-1:2017 Thermal performance of windows, doors and shutters – Calculation of thermal transmittance – Part 1: General (ISO 10077-1:2017) and LST EN ISO 10077-2:2017 Thermal performance of windows, doors and shutters – Calculation of thermal transmittance – Part 2: Numerical method for frames (ISO 10077-2:2017)
(number of normative document or calculation method, description of calculation procedure)

Specimen description: **External steel door. System: RD 40 Ryterna Entry**. Measurements: height 2000 mm; width 900 mm.
Frame. 1,5 mm steel sheet. Frame is insulated with PU "Elastopor H1241/43-B". Threshold is insulated with spray mounting foam "Makroflex" (λ = 0,036 W/(m·K)). 14 Frame fixing plates made of 3 mm thick 75 mm wide galvanized steel are used around the entire perimeter of the frame.
Door leaf. Inside and outside door leaf is made of 1,0 mm steel sheet. Door leaf is filled with 46 mm PU "Elastopor H1241/43-B".
Gaskets: 2 contours with D-profile EPDM gaskets.
Opening outwards.
PVC lock box.
(name, description and identification details of a specimen)

Customer: UAB „RYTERNA ENTRY", Ryternos g. 4, Biruliškių km., LT-54469 Kauno raj.
(name and address)
Manufacturer: UAB „RYTERNA ENTRY", Ryternos g. 4, Biruliškių km., LT-54469 Kauno raj.
(name and address)

Calculation results:

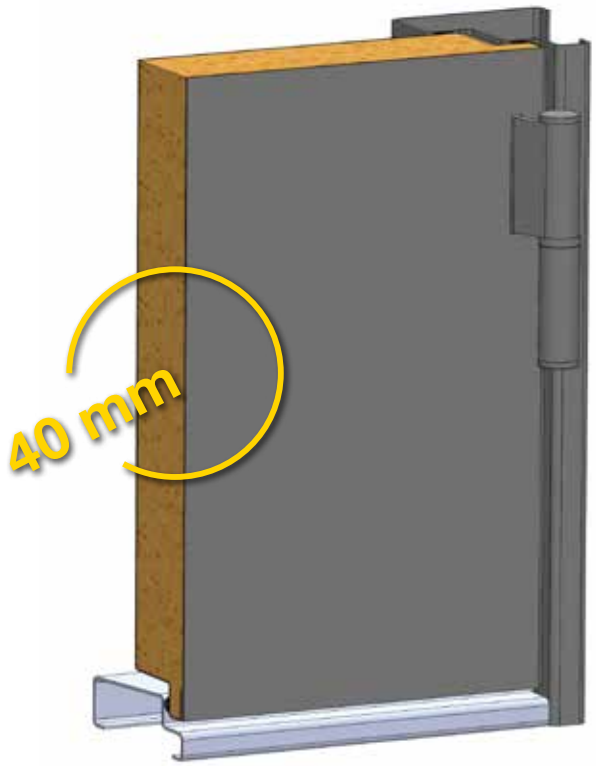
Name of the indicator and unit	Calculation method reference no.	Calculation result
Thermal transmittance of door, U_d W/(m²·K)	LST EN ISO 10077-1 LST EN ISO 10077-2	1,3

Calculated at: Building Physics Laboratory, Institute of Architecture and Construction of Kaunas University of Technology
(name of the test laboratory)
Specimen delivery date: 2022-06-19 Date of calculating: 2022-07-01
Additional information: Application, drawing.
(any deviations, exceptions and any information related with particular calculation)
Annexes: Annex 1. Specimen data.
Annex 2. Calculation data according to LST EN ISO 10077-2.
Annex 3. Calculation data according to LST EN ISO 10077-1.

Head of laboratory: (approves the calculation results)
Calculated by: (technically responsible for calculation)
(s., surname)

Validity – the named data and results refere... described specimens.
Notes on publication – no part of this document may be ph... ted to another language without the prior written consent of the Buildi... Laboratory.

Tunelio g. 60, LT - 44405 Kaunas, Lithuania (tel. +370 37 350799);
Web site: www.ktu.lt/asi ; E.mail: statybine.fizika@ktu.lt



All doors are factory framed.
Prices are for full door-sets.
All dimensions are specified for overall frame sizes.
Depicted images are for illustration only. Actual product may vary due to constant enhancement.
Ryterna reserves right to change specifications at any time and without prior warning.

RD40 standard structure RAL colours

Structure painting (**STR**)

RAL 5010 STR

RAL 7016 STR

RAL 8017 STR

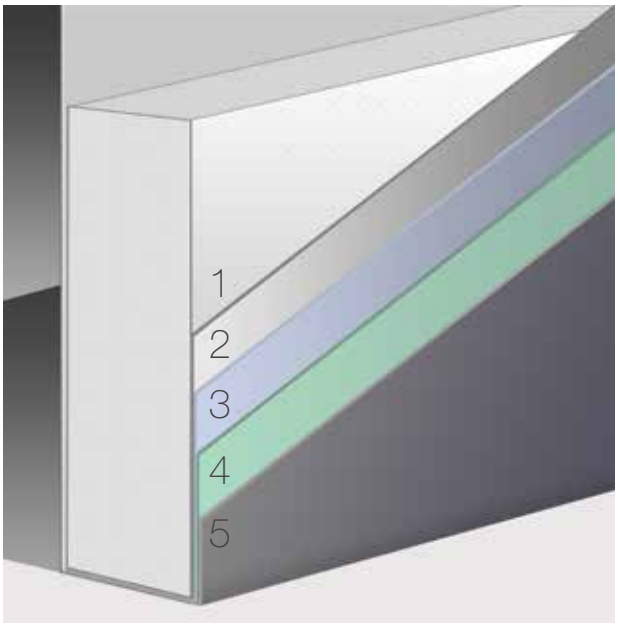
RAL 9002 STR

RAL 9006 STR

RAL 9016 STR

Model **RD40**
Outside colour **RAL 9006 STR**
Handle **Black (BL)**
Lock **STD**

- Entrance doors are made of 1 mm galvanized steel skin filled with PU that forms firm and durable construction.



Door Leaf Structure

1 Polyurethane foam
2 Cold rolled steel
3 Hot dip galvanisation
4 Chemical treatment
5 Powder paint

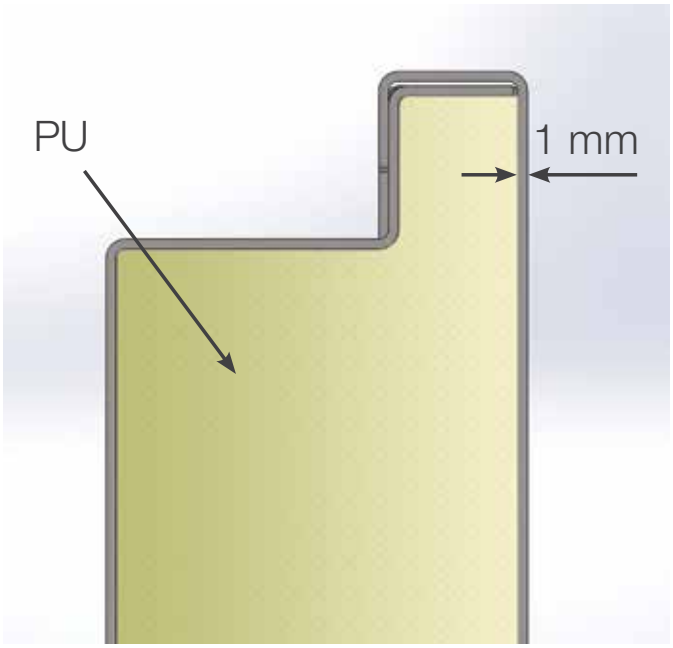
U-value up to 1,3 W/M²K

- 6 **STD** RAL STRUCTURE colours.

Painting available upon request.

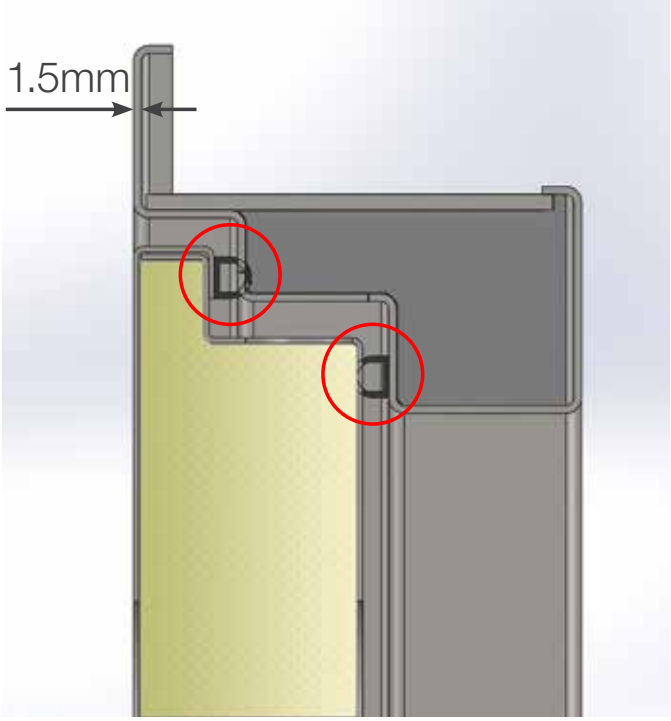
Only structure painting.

- Corrosian protected 1 mm skins linked together, with 40mm PU insulation and forms solid "sandwich panel".

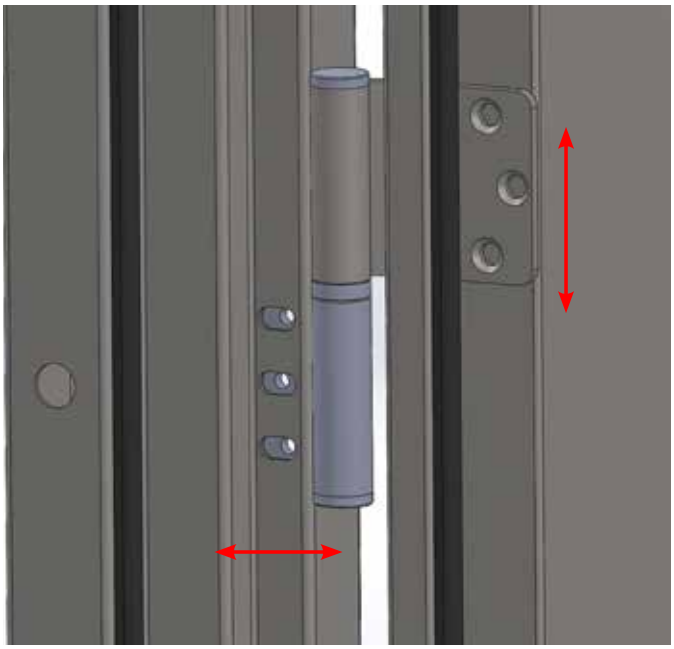


- Double sealing around all the perimeter provides excellent thermal insulation and water resistance.

Door frame made of 1.5 mm thickness galvanized steel

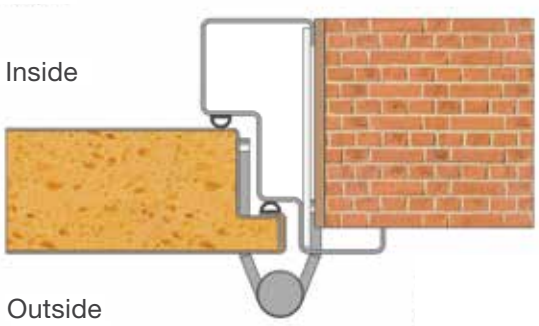


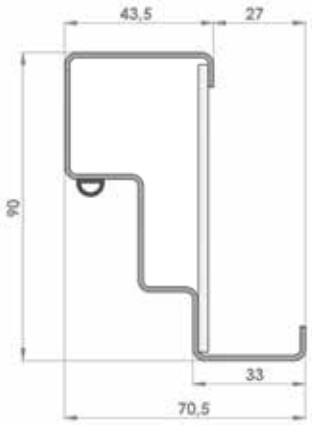
- 3 pcs, adjustable hinges with bearing ensure long – life, smooth and quiet operation.



Frame types

MITRED FRAME WITH MOULDINGS, OPEN TO OUTSIDE **(MO)**





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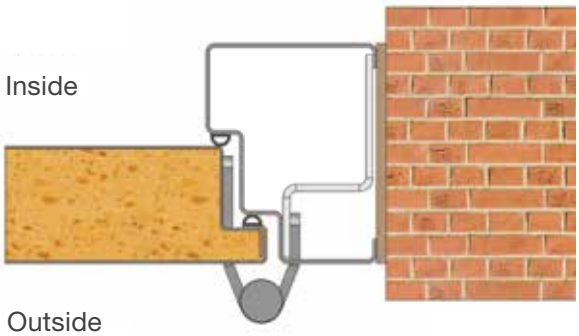
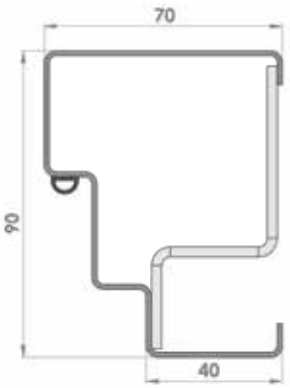
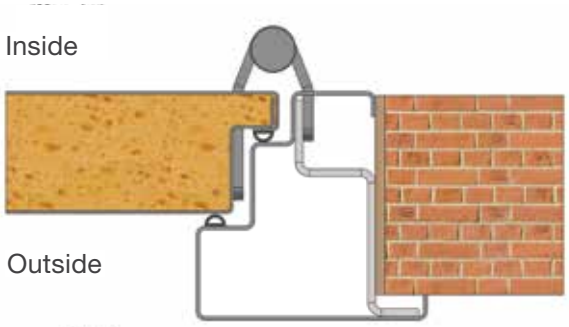
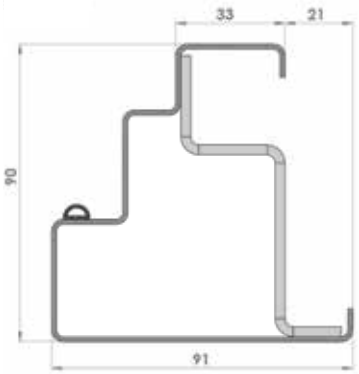


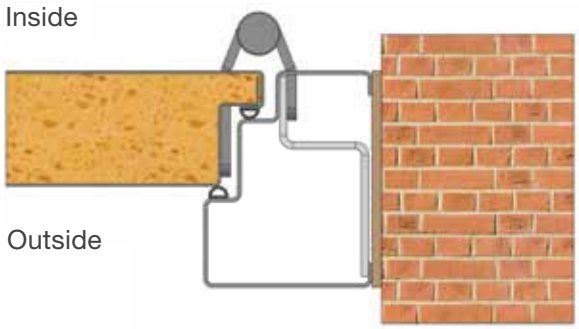


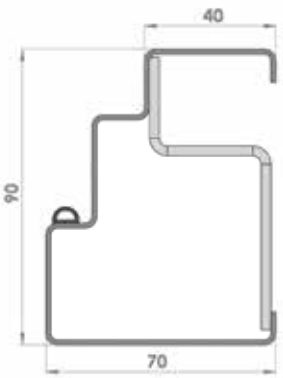
MITRED FRAME WITH MOULDINGS, OPEN TO INSIDE **(MI)**





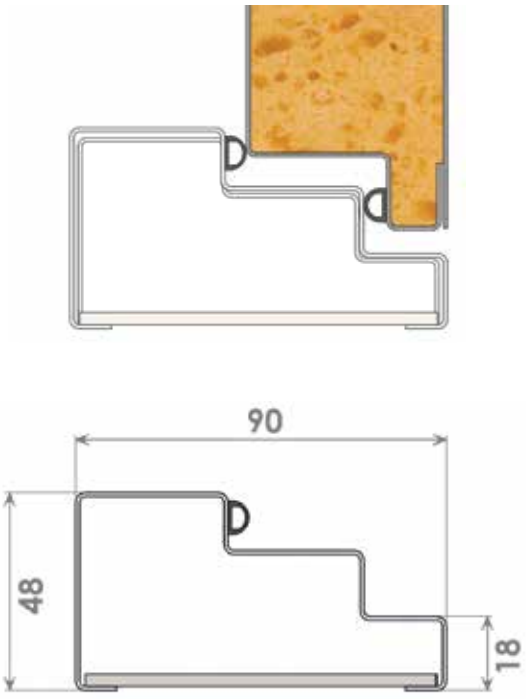
MITRED FRAME, OPEN TO INSIDE **(LI)**





DOUBLE SEALING THRESHOLD, OPEN TO OUTSIDE **(OD)**

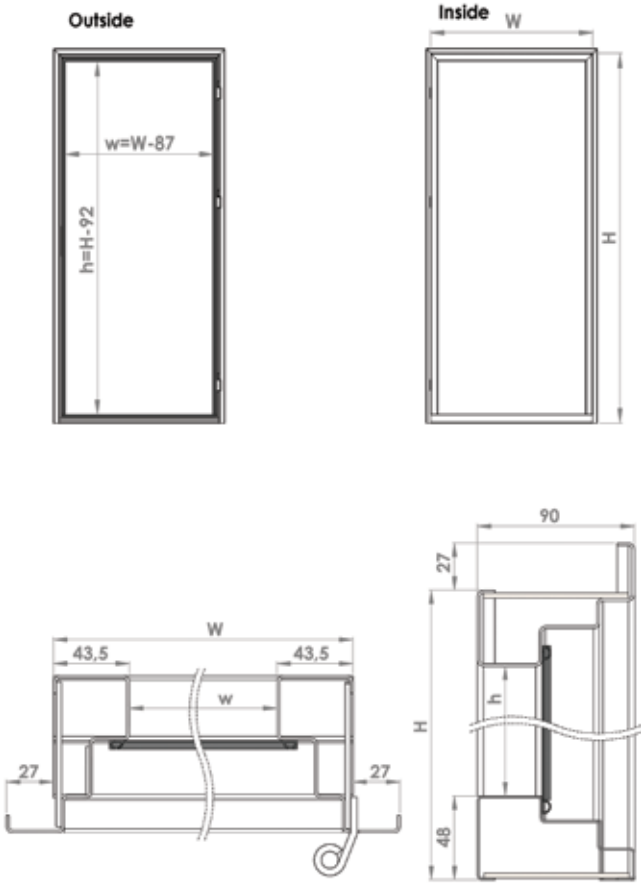
MO-OD



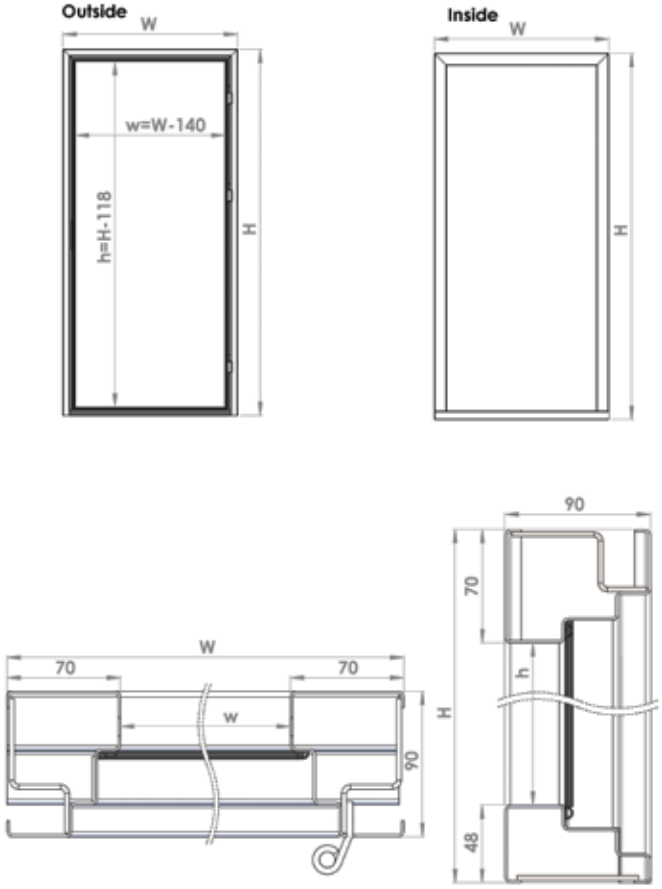
Inside Outside

OFS & DAYLIGHT OPENING

MO frame

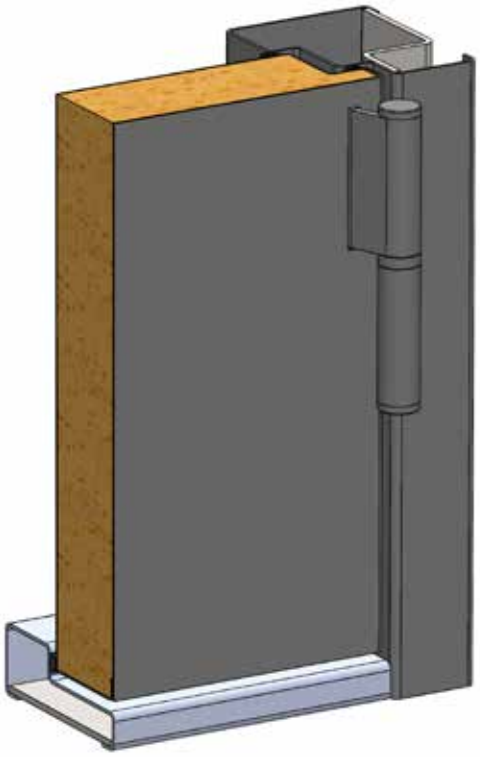


LO frame

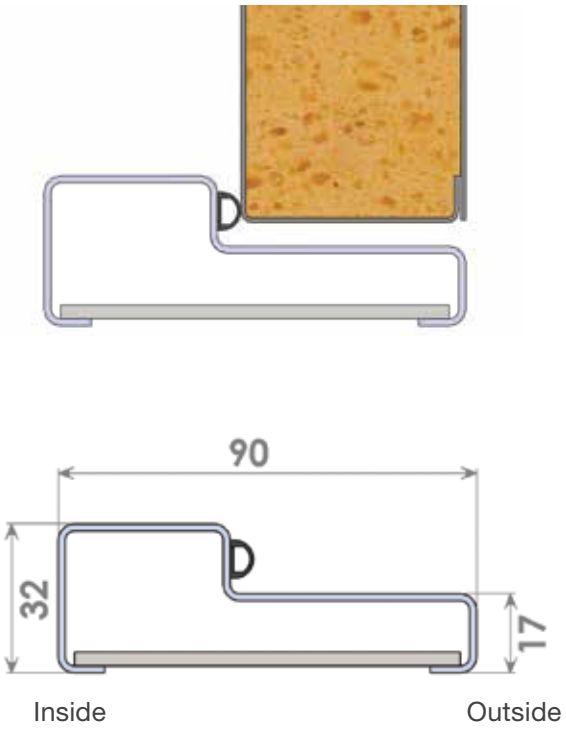


Threshold types and specifications

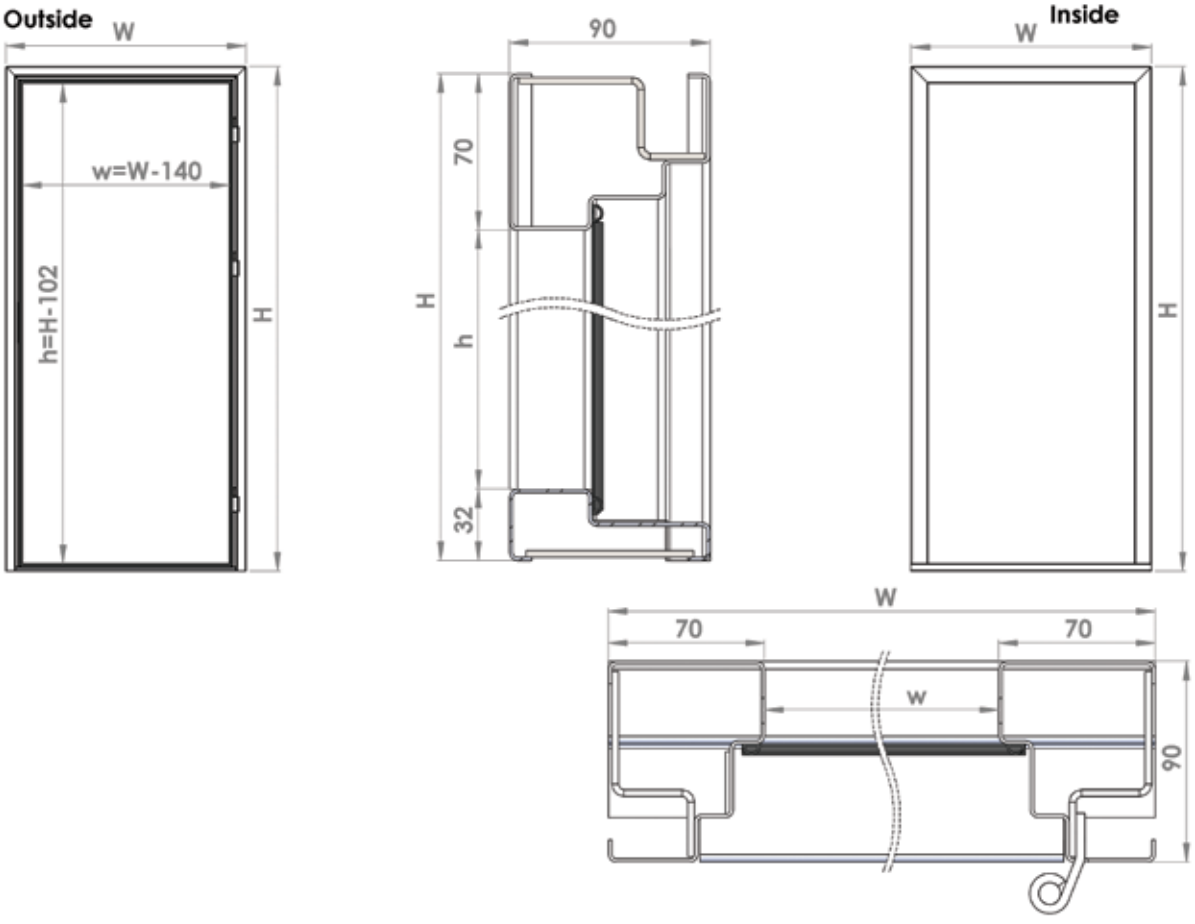
SINGLE SEALING THRESHOLD, OPEN TO OUTSIDE **(OS)**



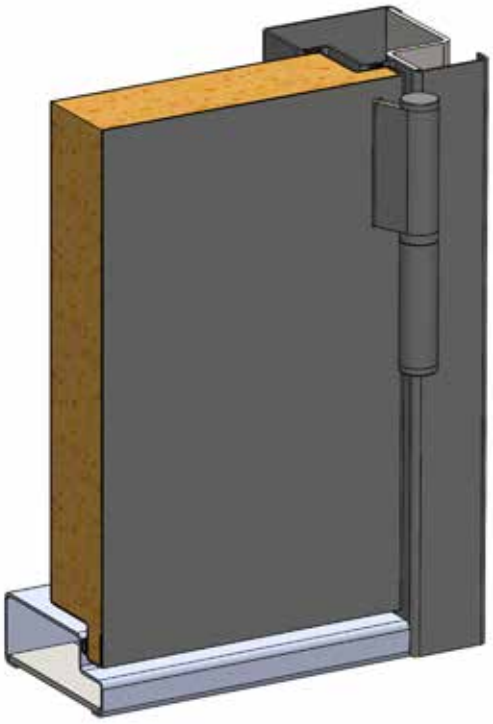
LO-OS



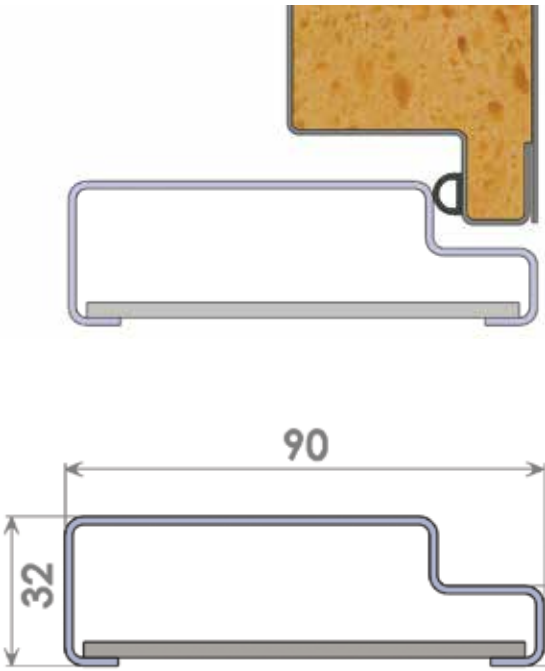
OFS & DAYLIGHT OPENING



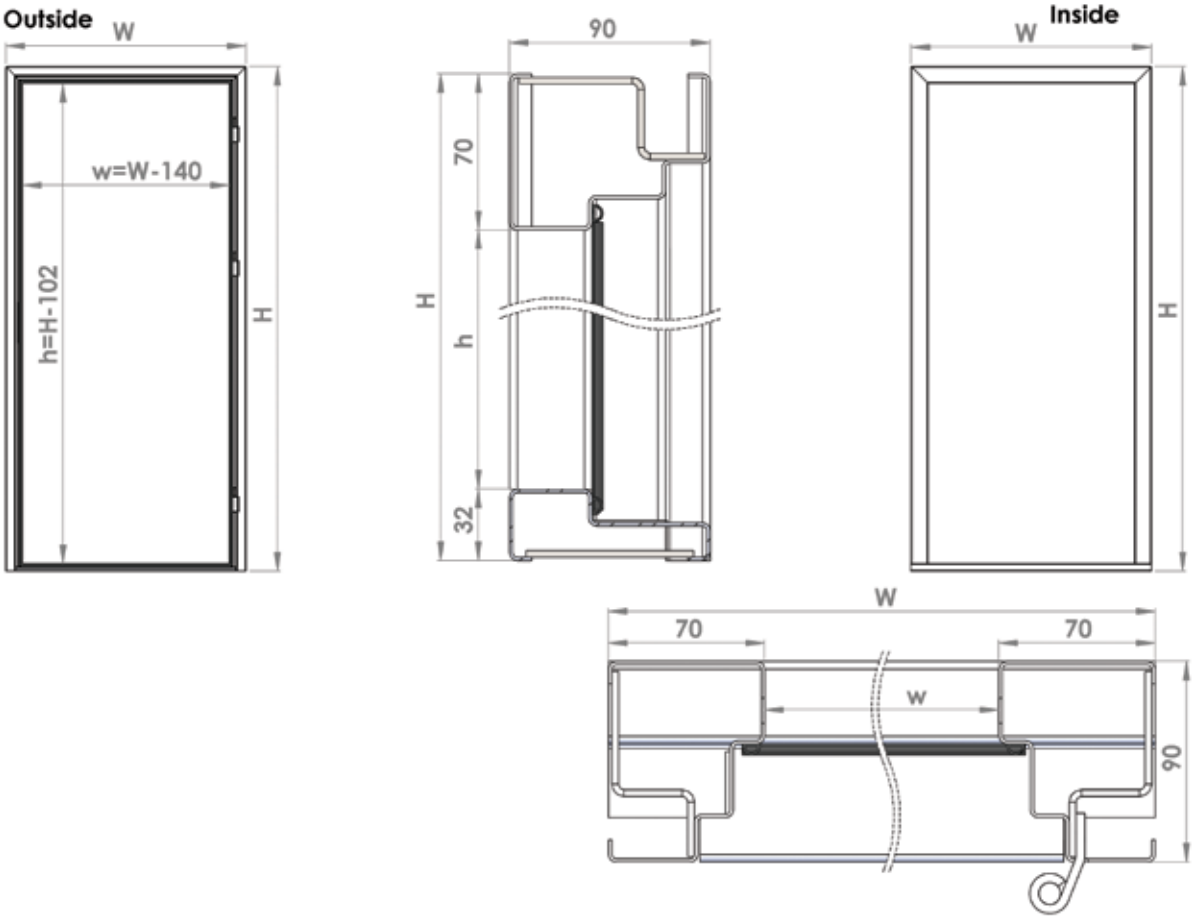
SINGLE SEALING THRESHOLD, OPEN TO OUTSIDE **(OS2)**



LO-OS2

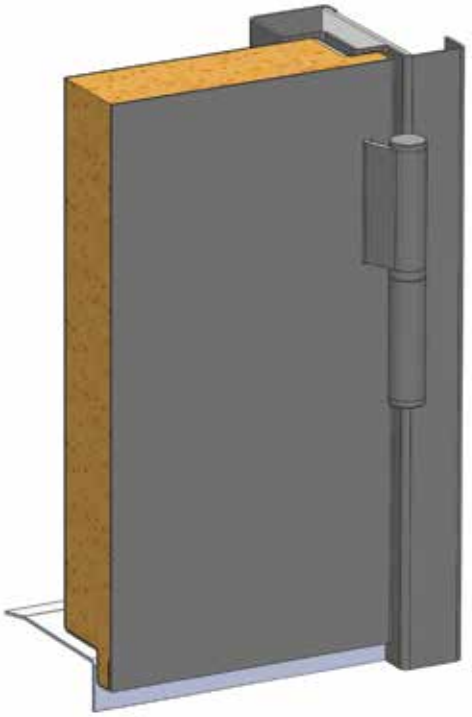


OFS & DAYLIGHT OPENING

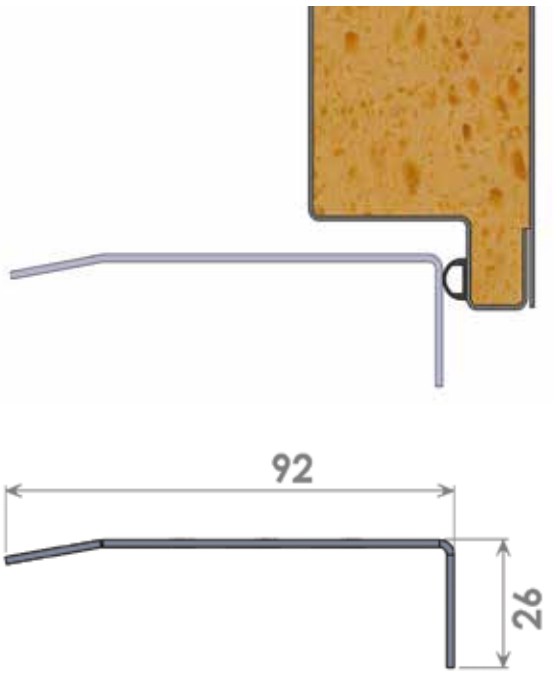


Threshold types and specifications

MITRED FRAME WITH MOULDINGS, OPEN TO OUTSIDE **(OM)**

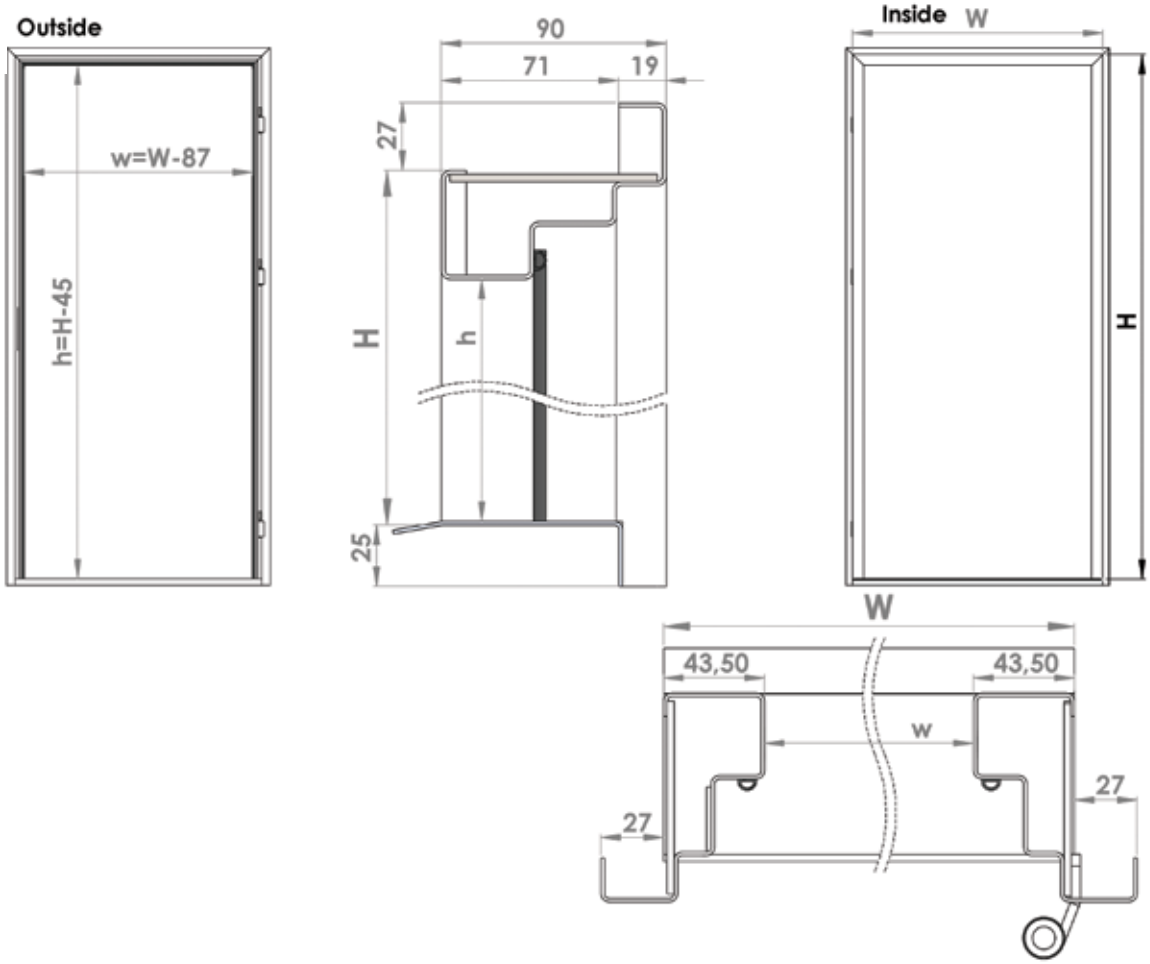


MO-OM

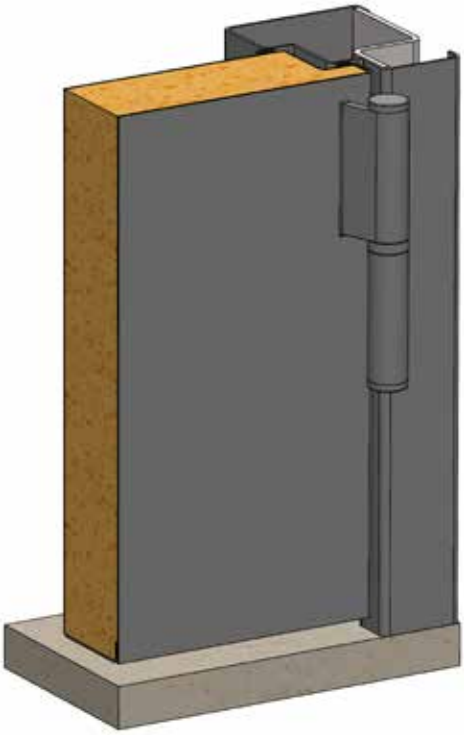


Inside Outside

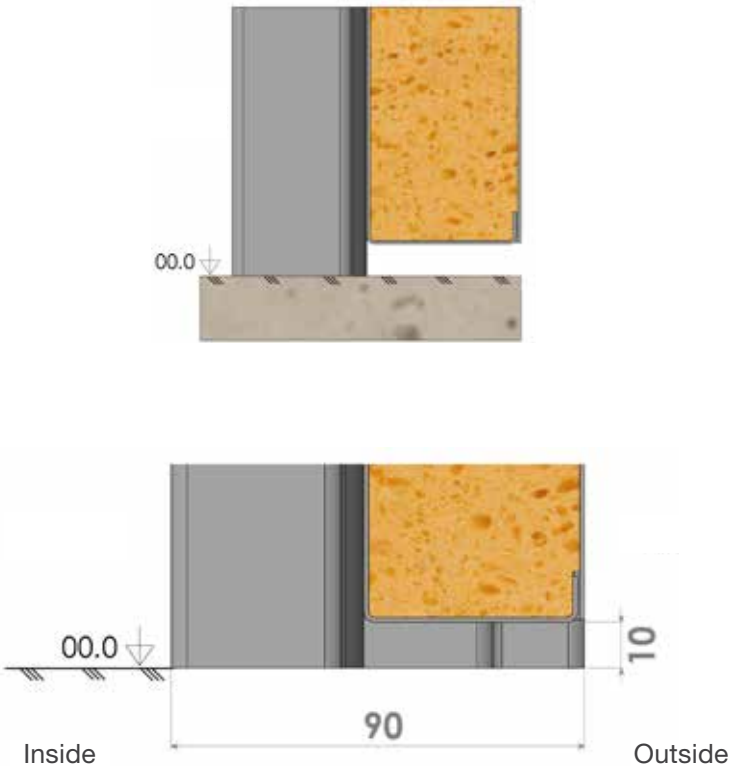
OFS & DAYLIGHT OPENING



WITHOUT THRESHOLD, OPEN TO OUTSIDE **(OW)**

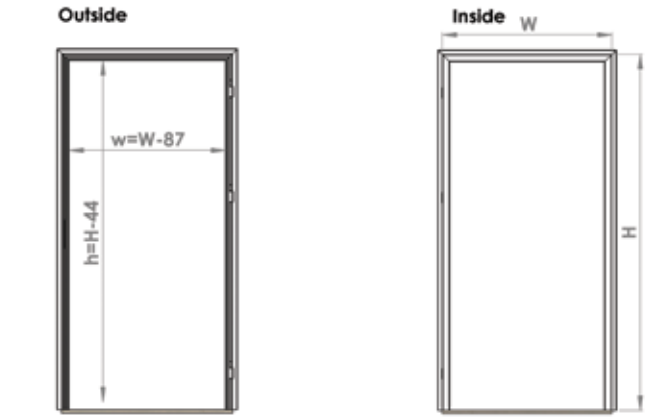


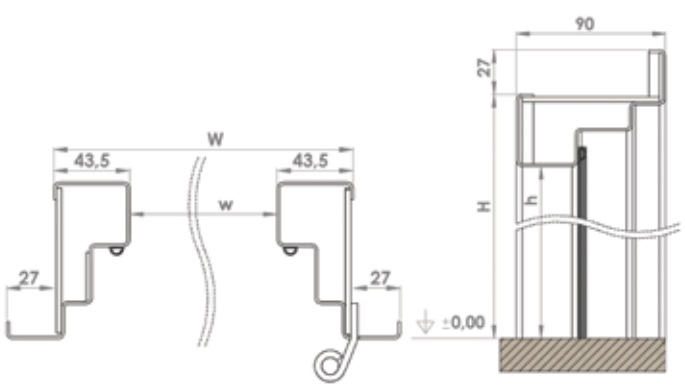
LO-OW



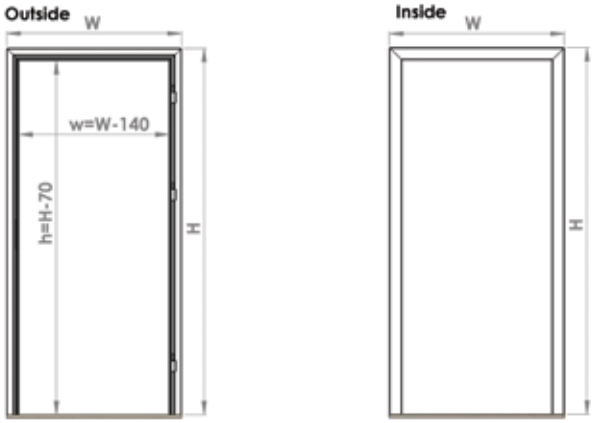
OFS & DAYLIGHT OPENING

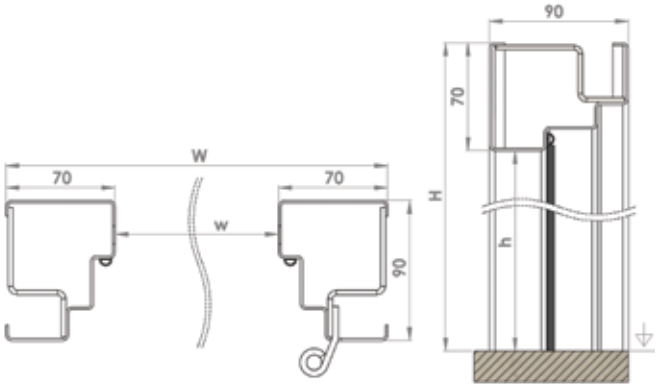
MO frame





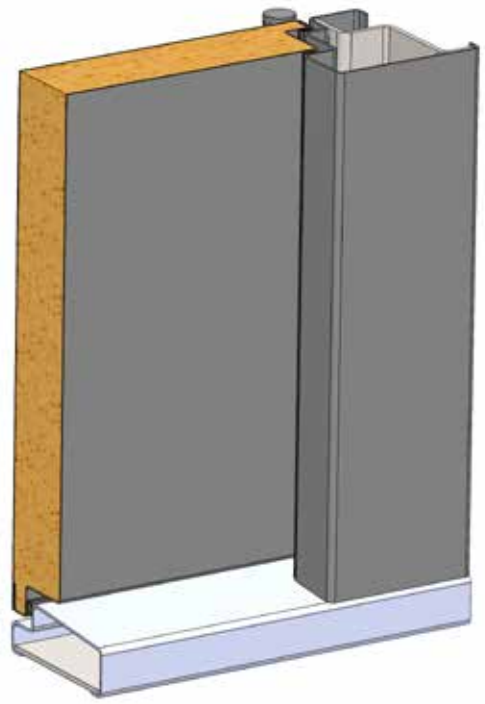
LO frame

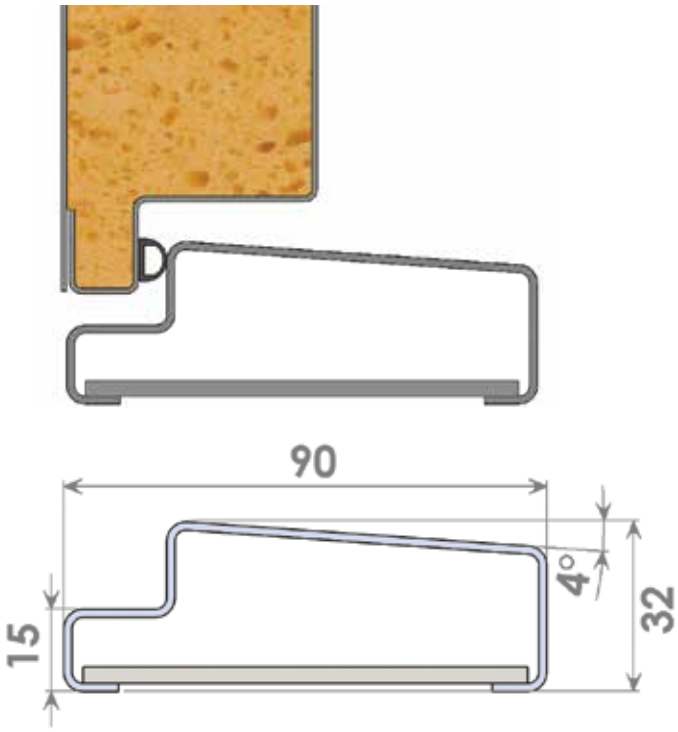




Threshold types and specifications

SINGLE SEALING ANGLED THRESHOLD, OPEN TO INSIDE **(IS)**





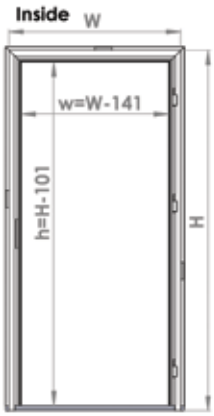
LI-IS

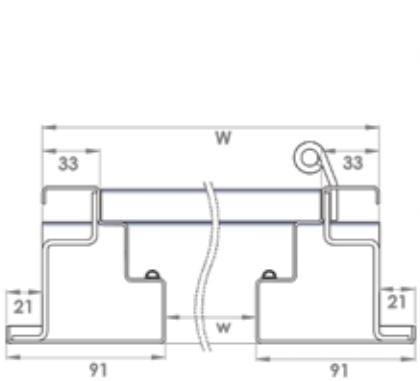
Inside

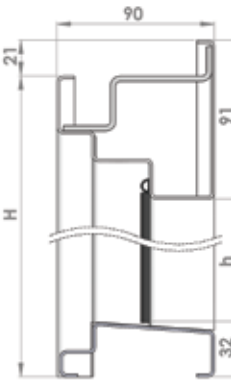
Outside

OFS & DAYLIGHT OPENING

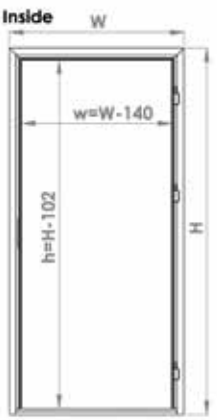
MI frame

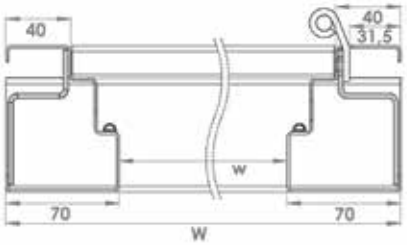


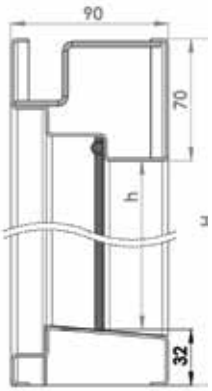




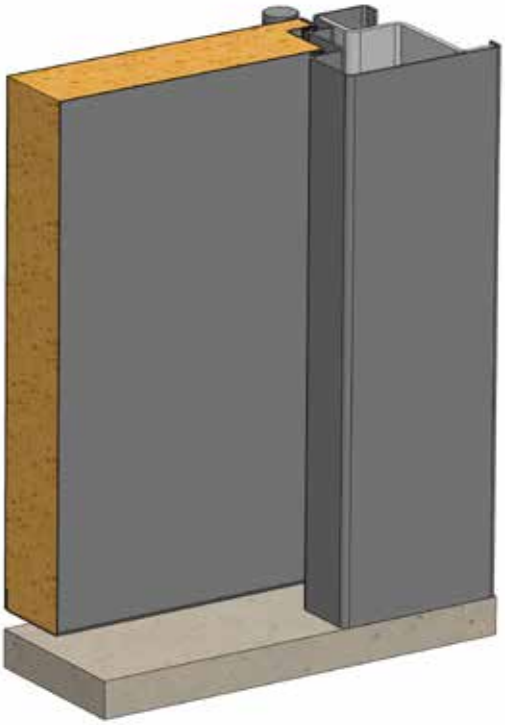
LI frame



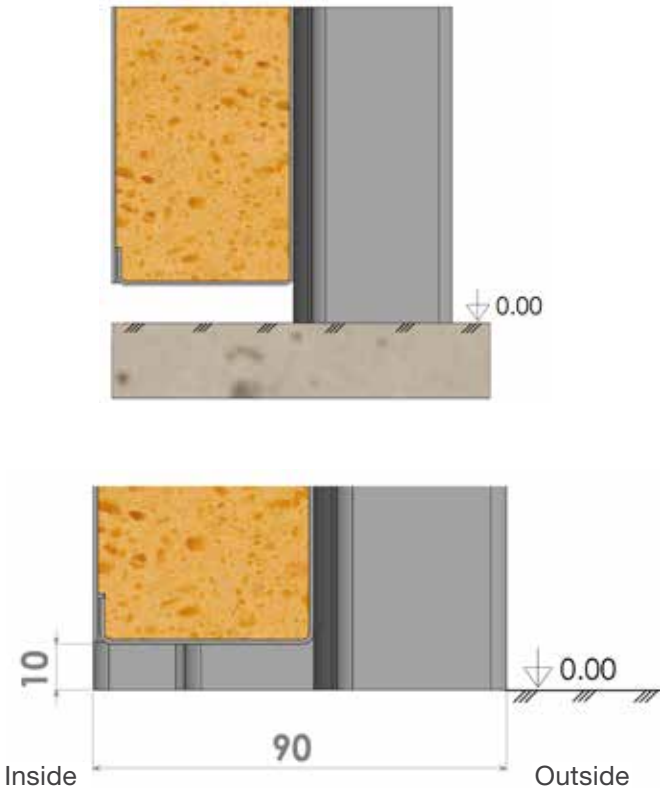




WITHOUT THRESHOLD, OPEN TO INSIDE **(IW)**

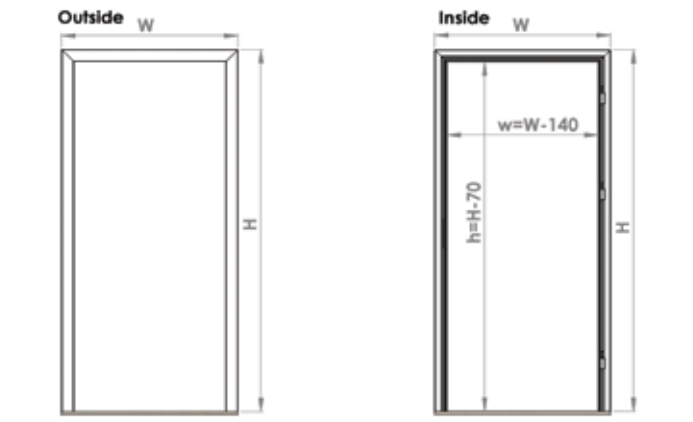


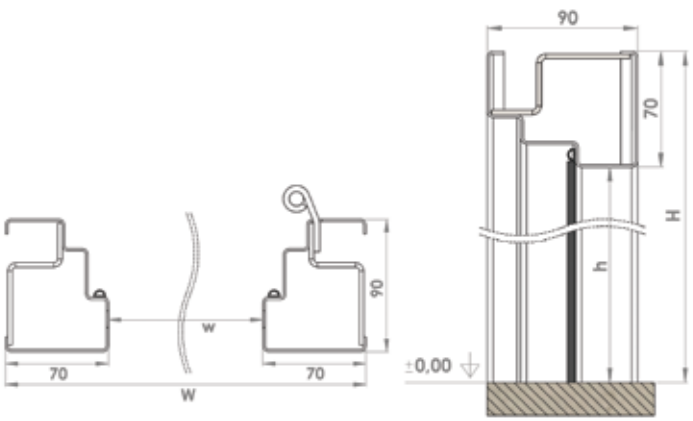
LI-IW



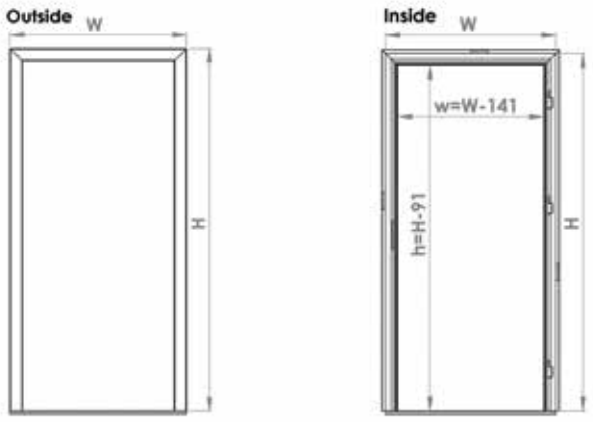
OFS & DAYLIGHT OPENING

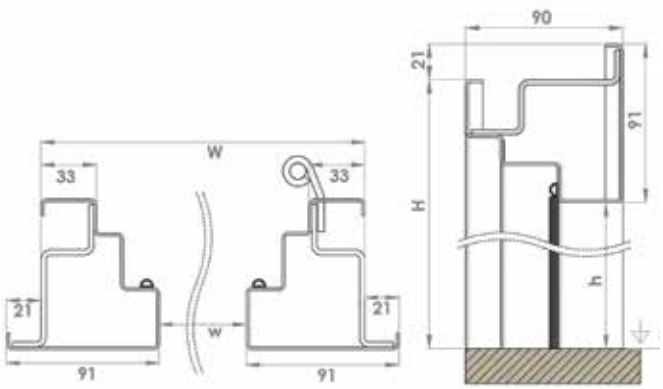
MI frame



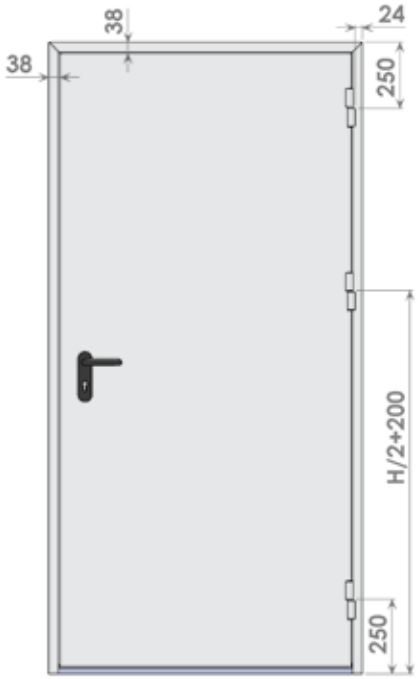


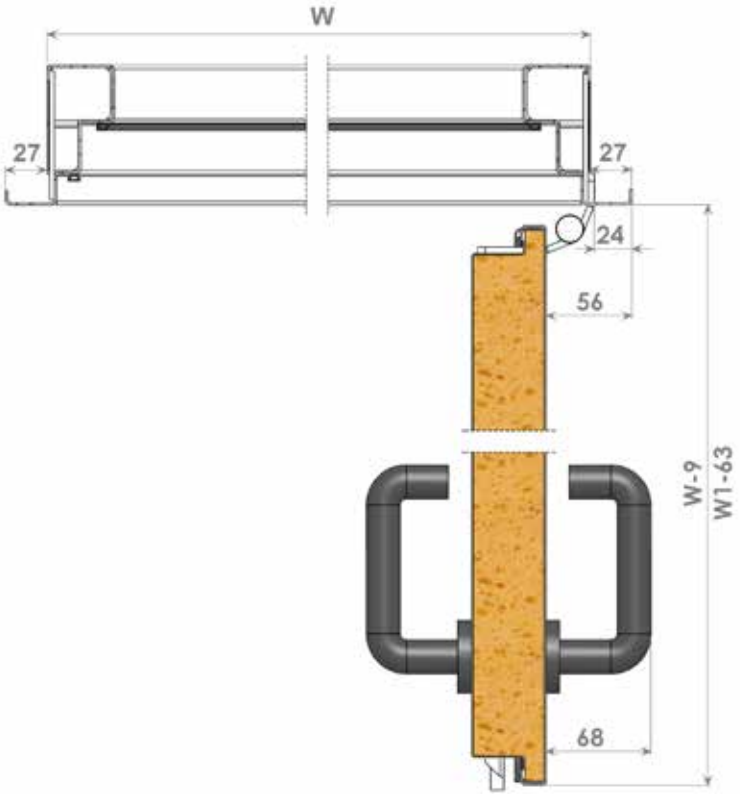
LI frame



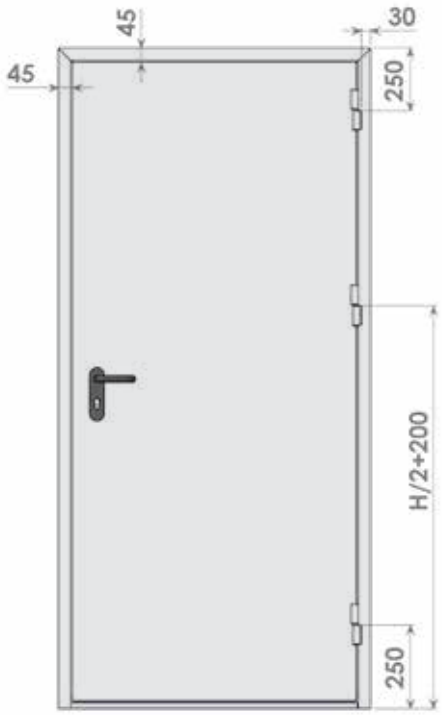


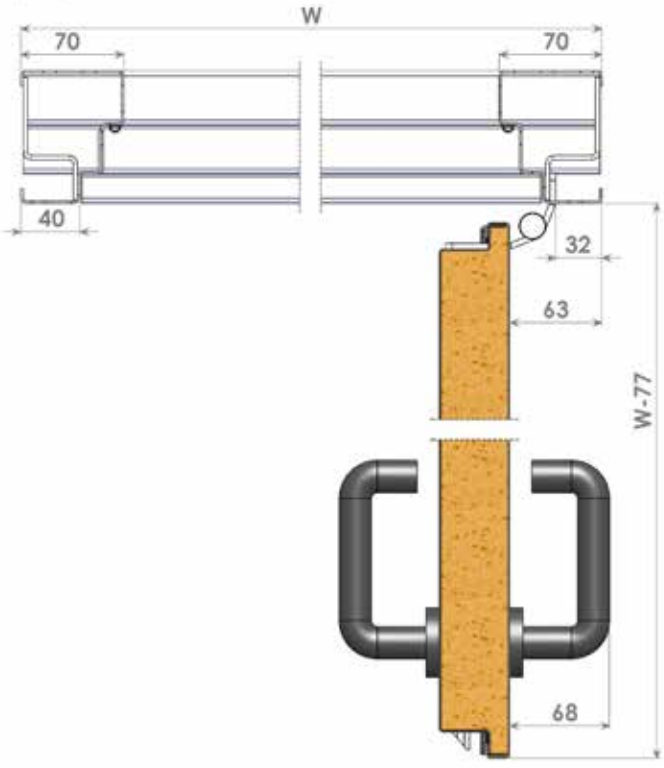
MO OPEN LEAF 90°





LO OPEN LEAF 90°





LOCKS AND HANDLES

L1P
Lock
STD

BL
Black lever handle
STD

GR
Grey lever handle
STD

ST
Stainless steel
lever handle

SSK
Stainless steel
knob handle

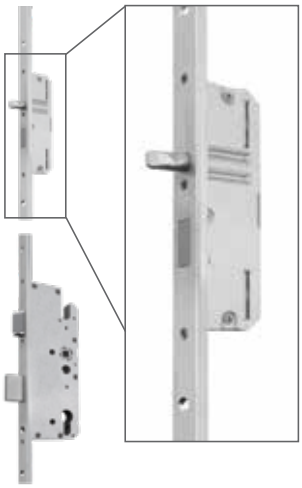
CWD
Lock cylinder
STD

LC 100
Lock

565
Lock

AS
Lever handle

CWE
Lock cylinder



HL
White
lever handle

HK
White
knob handle

HLA
Aluminium
lever handle

CWF
Lock cylinder

C3P
Multi-point lock

D&N+EM

APL
Lock

SSK
Stainless steel
knob handle

APLH
Anti-panic
handle

CWAP
Lock cylinder

Accessories

GLAZING

S200
Square glazing
200x200 mm

S350
Square glazing
350x350 mm

S100
Rectangular glazing
100x700 mm

S500
Rectangular glazing
500x700 mm

ACCESSORIES

Ventilation grille

Spyhole

Door closer

PL201
Padlock staple

KP1
Keypad

RYTERNA
Entry

Release date:
01.01.2024

www.ryternaentry.com