

INSTALLATION MANUAL OF DOORS TYPE DFM DS v. 2.7 2020

Our business model shall guarantee:

FACILITY – comfortable and customised solutions aimed at Customers' needs

TRANSPARENCY - clear business relations

BUSINESS EXPERTISE – a team of passionate professionals with "out of box" attitude







During installation, usage and repair works prescriptions of safety on site must be observed, specifically those referring to particular regulations for construction and joinery works.

Installation must be carried out by qualified installers, trained for installation of fire doors. Parts and components of doors shall not be modified or replaced.



IDENTIFICATION, HANDOVER AND NOMENCLATURE

e. g DFM DS 60-2: DS = STEEL DOOR









DURING HANDOVER OF GOODS FROM TRANSPORT COMPANY CHECK PACKAGING AND QUANTITY OF DOORS AND CARTONS. IN CASE OF ANY CLAIM A NOTE ON CMR MUST BE MADE AND PHOTOS TAKEN AND SENT TO: it@dfm-europe.eu

ORDER

PROJECT NAME "Yacht Park Gdynia"

PROJECT DOOR NUMBER

"B17-D6", "B6-D6"

PACKING LIST

PROJECT NAME Yacht Park Gdynia"

PROJECT DOOR NUMBER,, B17-

INDIVIDUAL PRODUCTION DOOR NUMBER

2137/2019/004

LABEL ON THE CARTON WITH **EQUIPMENT**

PROJECT NAME Yacht Park Gdynia⁴

PRODUCTION NUMBER PART OF ORDER

2137/2019

QUANTITY AND NUMBER

OF CARTON: 2/3

LABEL ON THE DOOR PROJECT NAME "Yacht Park Gdvnia"

PROJECT DOOR NUMBER,,B17-

INDIVIDUAL PRODUCTION DOOR

NUMBER 2137/2019/004

ADDITIONAL INFORMATION

ON THE SIDE OF PALLET

CMR NUMBER **"573"**

DELIVERY ADRESS

"GDYNIA"

CMR

PRODUCTION NUMBER PART OF ORDER

2137/2019

1345/2019

1589/2019

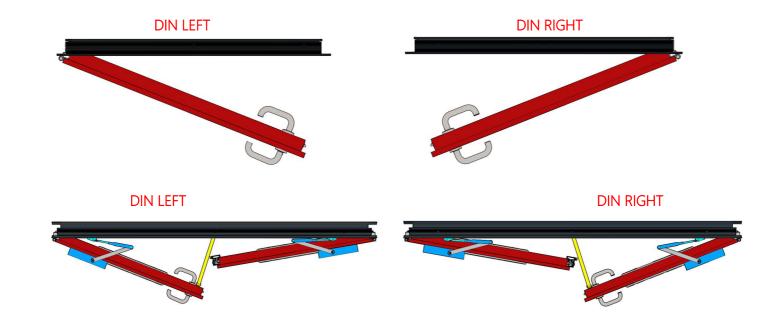
DOOR LABEL:



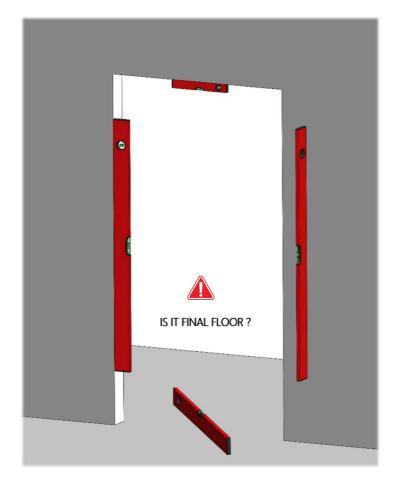
EQUIPMENT LABEL:

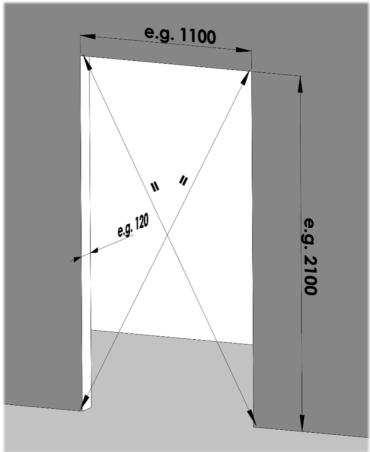






CHECK THE WALL OPENING







3

INSTALLATION METHODS - MAKE SURE THAT PROPER INSTALLATION MATERIAL IS APPLIED

	CORNER FRAME	EMBRACING FRAME	RECTANGULAR FRAME			
TYPE OF DOOR FRAME	0.300	0.300				
El ₂ 30 El ₁ 30	Filling of gap between wall and door frame: ✓ cement mortar, lime cement or plaster mortar ✓ rockwoll of density min. 50kg/m³ + fire retardant mass or cement mortar or glue ✓ glue for plaster Perlfix T ✓ fire resistant polyurethane foam and silicate calcium band on places of anchor fixing + fire retardant mass	Filling of gap between wall and door frame: ✓ cement mortar, lime cement or plaster mortar ✓ rockwoll of density min. 50kg/m³ + fire retardant mass or cement mortar or glue ✓ glue for plaster Perlfix T ✓ fire resistant polyurethane foam and silicate calcium band on places of anchor fixing + fire retardant mass	Filling of gap between wall and door frame: ✓ cement mortar, lime cement or plaster mortar ✓ rockwool of density min. 50kg/m³ + fire retardant mass or cement mortar or glue ✓ glue for plaster Perlfix T, ✓ fire resistant polyurethane foam and silicate calcium band on places of anchor fixing + fire retardant mass Filling of door frame: ✓ plaster boards type A or F 9.5÷12.5mm ✓ cement mortar, lime cement or plaster mortar ✓ glue for plaster Perlfix T ✓ fire resistant polyurethane foam and silicate calcium band on places of anchor fixing (except smoke doors)			
Type of wall for El ₂ 30, El ₁ 30	Installation in walls of fire resistance according to EN 13501-2:2016, not less than EI 30					
El ₂ 60	Filling of gap between wall and door frame: ✓ cement mortar, lime cement or plaster mortar ✓ rockwoll of density min. 50kg/m³ + fire retardant mass or cement mortar or glue ✓ glue for plaster Perlfix T	Filling of gap between wall and door frame: ✓ cement mortar, lime cement or plaster mortar ✓ rockwoll of density min. 50kg/m³ + fire retardant mass or cement mortar or glue ✓ glue for plaster Perlfix T	Filling of gap between wall and door frame: ✓ cement mortar, lime cement or plaster mortar ✓ rock wool of density min. 50kg/ m³+ fire retardant mass or cement mortar or glue ✓ glue for plaster Perlfix T Filling of door frame: ✓ plaster boards type A or F 9.5÷12.5mm ✓ cement mortar, lime cement or plaster mortar ✓ glue for Plater Perlfix T			
Type of wall for El ₂ 60	Installation in walls of fire resistance according to EN 13501-2:2016, not less than EI 60					
Gap dim.	GAP ≤ 20 mm (S _a , S ₂₀₀ : GAP ≤ 8 mm)	GAP \leq 20 mm (S _a , S ₂₀₀ : GAP \leq 8 mm)	GAP ≤ 20 mm (S _a , S ₂₀₀ : GAP ≤ 8 mm)			
For doors without fire resistance	Filling of gap between wall and door frame: ✓ cement mortar, lime cement or plaster mortar ✓ glue for plaster Perlfix T ✓ polyurethane foam	Filling of gap between wall and door frame: ✓ cement mortar, lime cement or plaster mortar ✓ glue for plaster Perlfix T ✓ polyurethane foam	Filling of gap between wall and door frame: ✓ cement mortar, lime cement or plaster mortar ✓ glue for plaster Perlfix T ✓ polyurethane foam			



^{*} Fixing and filling materials are not included in delivery. For information on materials for filling the wall gap in acoustic doors please contact DFM sales department.



EXAMPLES OF METHODS OF FIXING FRAMES. CHECK COMPLIANCE WITH APPROPRIATE CERTIFICATE

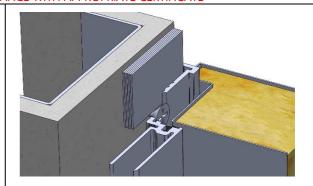


Installation to the frame studded wall on steel screws with silicate calcium slab (e.g. TECBOR, SILBOARD, PROMAT) on places of anchor fixing.

*Or steel plate spacers for non-fire resistant doors. Spacers produced only for request.

Location of the spacers above the screw. The thickness of the spacer's plates set depends on the width of the installation gap. Ensure that the frame is vertical and not twisted.

Filling the installation gap acc. to the table from page 4.

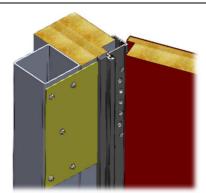


Installation of external non fire resistant doors in sandwich panel with galvanized steel plates \min 3 \min .

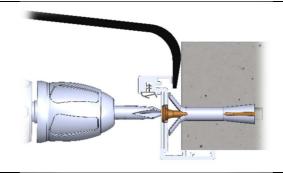
Installation plates are ordered individually acc. to the wall construction. Additionally, door frame must be blocked with hardwood edges to preserve rigidity of the frame.

Special attention should be paid to bottom hinge while fixing the door frame.

Filling of gap between wall and door frame with polyurethane foam and (as option) dedicated membranes.



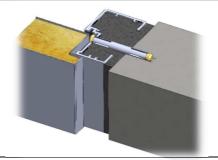
Method of tightening of anchors without usage of installation steel space plates or hardwood wedge for non-fire resistant doors.



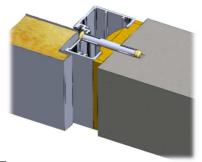


Filling of the wall gaps

As alternative to filling of door frame with plaster boards, cement mortar, lime cement or plaster mortar or glue for plaster Perlfix T can be used.



Filling of wall gap with polyurethane foam in internal applied non- fire resistant door in block frame







TYPES OF USED SCREWS

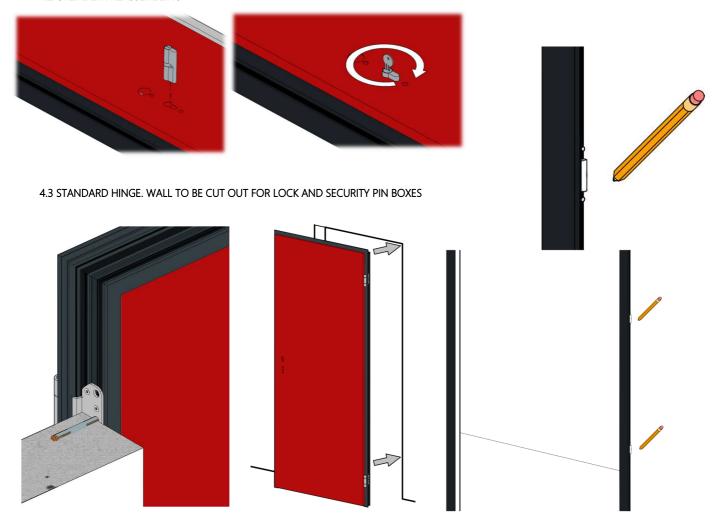
TYPES OF USED SCR	EW2			
Wall / door frame types	DFM DS EI 00 Corner and embracing frame	DFM DS El ₂ 30 El ₂ 60, El ₁ 30 Corner and embracing frame DON'T USE ANY PLASTIC ELEMENTS FOR FIXING FIRE DOORS!	DFM DS EI 00 Rectangular frame	DFM DS El ₂ 30 El ₂ 60, El ₁ 30 Rectangular frame DON'T USE ANY PLASTIC ELEMENTS FOR FIXING FIRE DOORS!
Concrete or reinforced concrete Masonry wall of full brick or concrete blocks Wall of hole bricks or aerated concrete blocks	steel anchors of size not less than Ø10x92 mm. Dowel screw AST of size not less than Ø10/100	steel anchors of size not less than Ø10x92 mm.	steel anchors of size not less than Ø10x132 mm. Dowel screw AST of size not less than Ø10/100	steel anchors of size not less than Ø10x132 mm.
Sandwich frame wall of total thickness not less than 100mm for El ₂ 30 and 125 mm for El ₂ 60, El ₁ 30. constructed of 12,5 mm gypsum plaster boards type F or DF	Steel screws of size not less than Ø6,3x50mm	Steel screws of size not less than Ø6,3x50mm	Steel screws of size not less than Ø6,3x85mm	Steel screws of size not less than Ø6,3x85mm
according to EN 520+A1:2012, filled in with rockwool of density not less than 30 kg/m3 laid in supporting construction of steel	(a) million			

THE SIZES GIVEN FOR ANCHORS AND SCREWS ARE MINIMUM SIZES, THE APPROPRIATE LENGTH MUST BE CHOSEN WITH REGARDSTO THE ACTUAL INSTALLATION CONDITIONS.





4.2 CYLINDER PREASSEMBLING



4.4 OPTIONAL 3D HINGE- DISMANTLING THE DOOR LEAF BEFORE FIXING OF FRAME IS RECOMMENDED

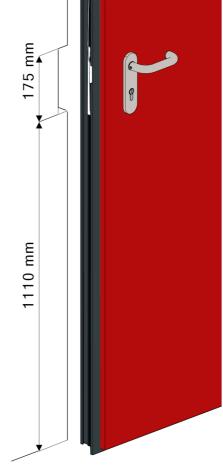








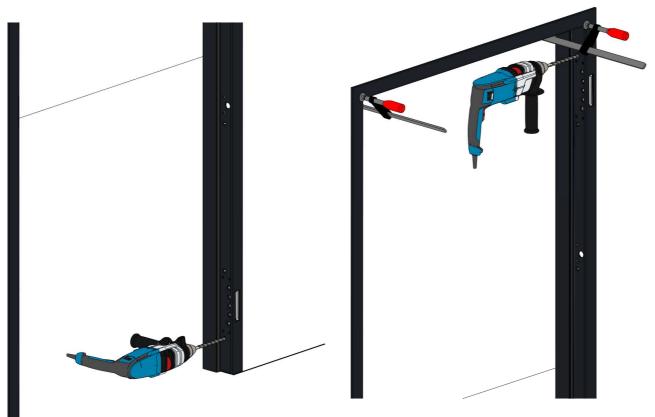




FIXING OF THE DOOR FRAME

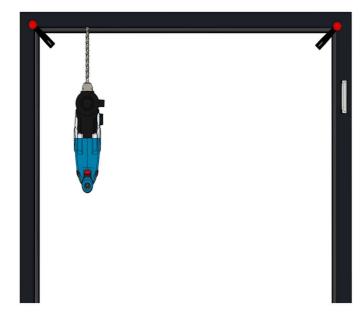
THE QUANTITY OF ANCHORS DEPENDS ON NUMBER OF FRAME PREPARED HOLES.
HOLES PREPARED IN ACCORDANCE WITH RELEVANT CERTIFICATES. SCREWS – SEE PAGE 5

5.1 VERTICAL PARTS – HINGES SIDE





5.2 UPPER PART

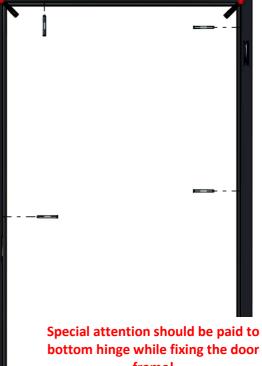


5.4 STRIKING PLATE



5.3 VERTICAL PART – LOCK SIDE





bottom hinge while fixing the door frame!

Box for bottom hinge should be

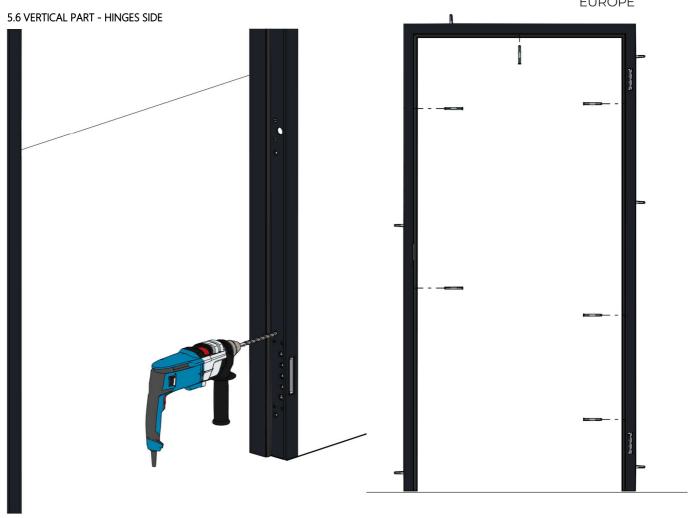
fixed rigidly without any twisting of the frame.





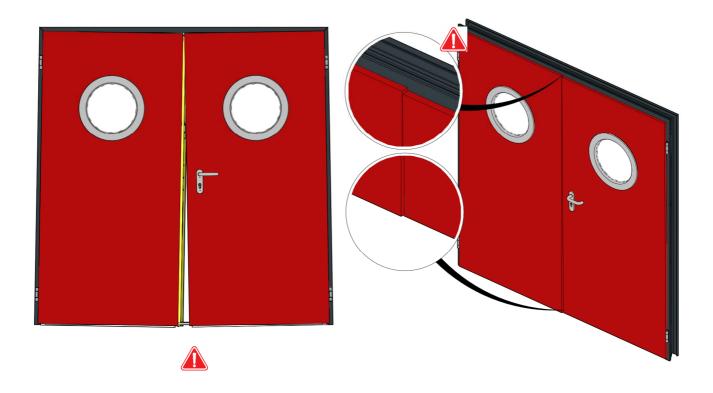




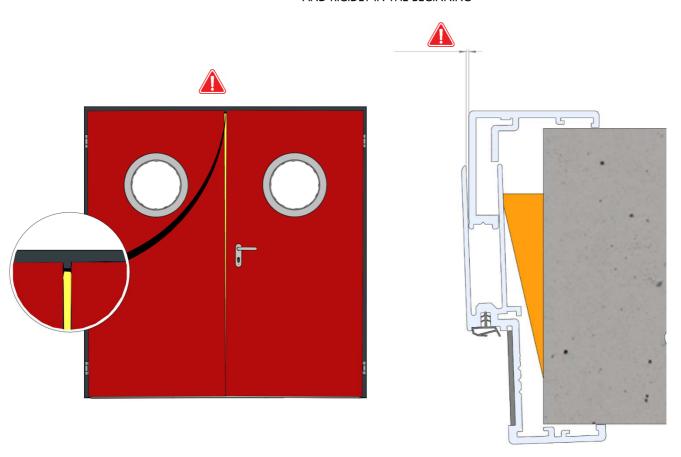








See results of incorrect installation if the door frame is NOT FIXED PROPERLY AND RIGIDLY IN THE BEGINNING





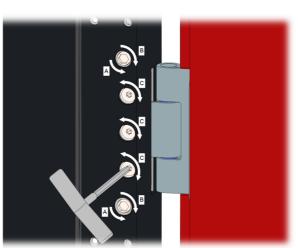


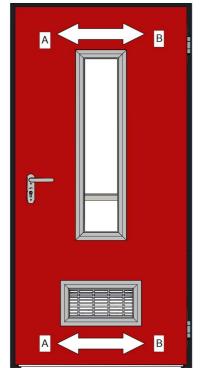
6.2 INSTALL HANDLE AND/OR PANIC BAR



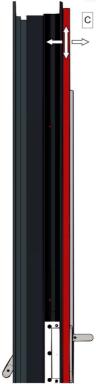






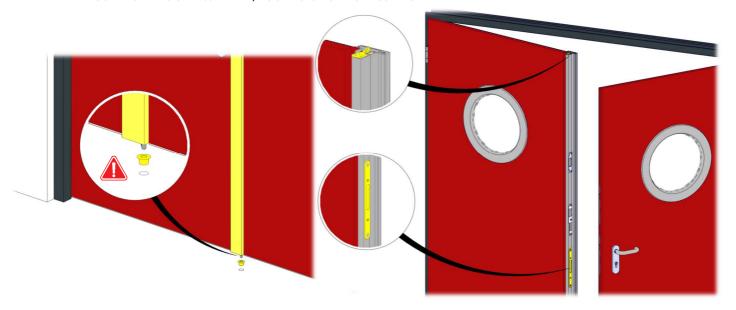








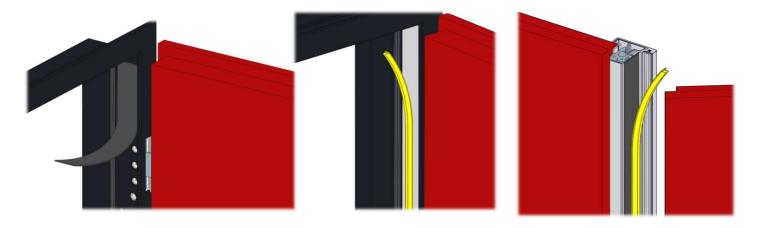
6.4 FIXING PASSIVE LEAF JUST AFTER FINAL ADJUSTMENT ALL LEAVES. FOR ALL TYPES OF DOUBLE LEAF DOORS. WITHOUT THIS FIXING OF PASSIVE LEAF, DOOR DOES NOT WORK CORRECTLY.



FILLING OF THE INSTALLATION GAP, GLUEING THE INTUMESCENT OR EPDM GASKET



7.1 FIRE RESISTANT INTUMESCENT GASKET OR EPDM GASKET FOR NON FIRE RESISTANT DOORS 7.2 GLUEING GASKET FOR SMOKE PROOF DOORS. ON PERIMETER OF FRAME AND ON THE ASTRAGAL FOR DOUBLE LEAF DOOR

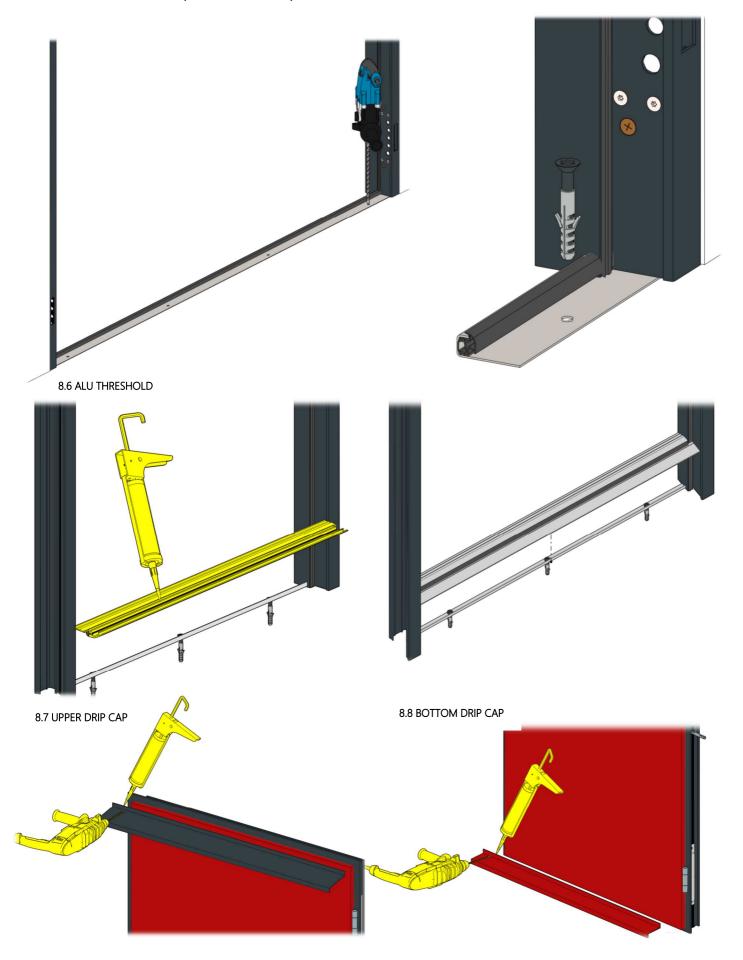






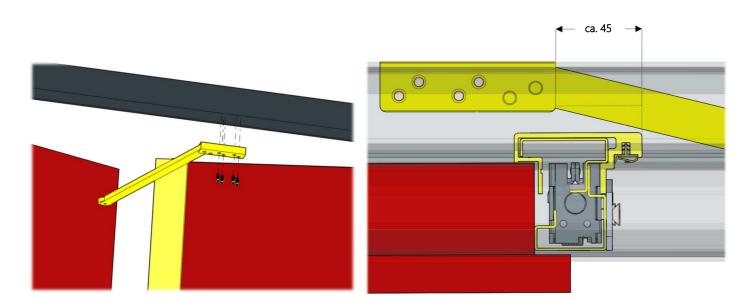


8.5 SCREWED THRESHOLD (INOX OR RAL PAINTED)





8.9 DOOR LEAF COORDINATOR FO DOUBLE LEAF DOORS





WARRANTY AND HANDLING

Standard warranty term is 12 months counted from day of delivery agreed upon in Order Confirmation.

Warranty for additional equipment, such as door closers, panic bars, electric strike plates and the like may be granted based on separate documents provided by the Producers of this equipment.

Please remember:

- to stock the doors in a horizonal position on pallet and protect them against rain, sun and mechanical damages;
- to remove protection foil from the door's surface immediately after installation;
- to install the doors acc. to the proper certificate;
- to repair each fault immediately;
- to clean the doors and equipment with NON aggressive fluids aggressive agents can cause corrosion of both powder coat and stainless steel elements.

DFM EUROPE is not responsible for errors and claims caused from incorrect installation; The condition of guarantee is due maintenance doors and fittings minimum every 6 months.

Conditions of Guarantee of DFM Europe Sp. z o.o are defined in General Conditions of Sale published on dfm-europe.eu, or in Order Confirmation.