PRESENTATION



MORE INFO:

alufire.com

EXTERNAL DOORS TECHNICAL INFORMATION

ALUFIRE

FIRE-RESISTANT ALUMINUM JOINERY

ALUFIRE EXTERNAL DOORS SYSTEMS

1. Alufire Exterior

- EI 15
- EI 30
- EI 45 (only with panel filling)
- EI 60
- EI 90

2. Alufire Exterior Thermo

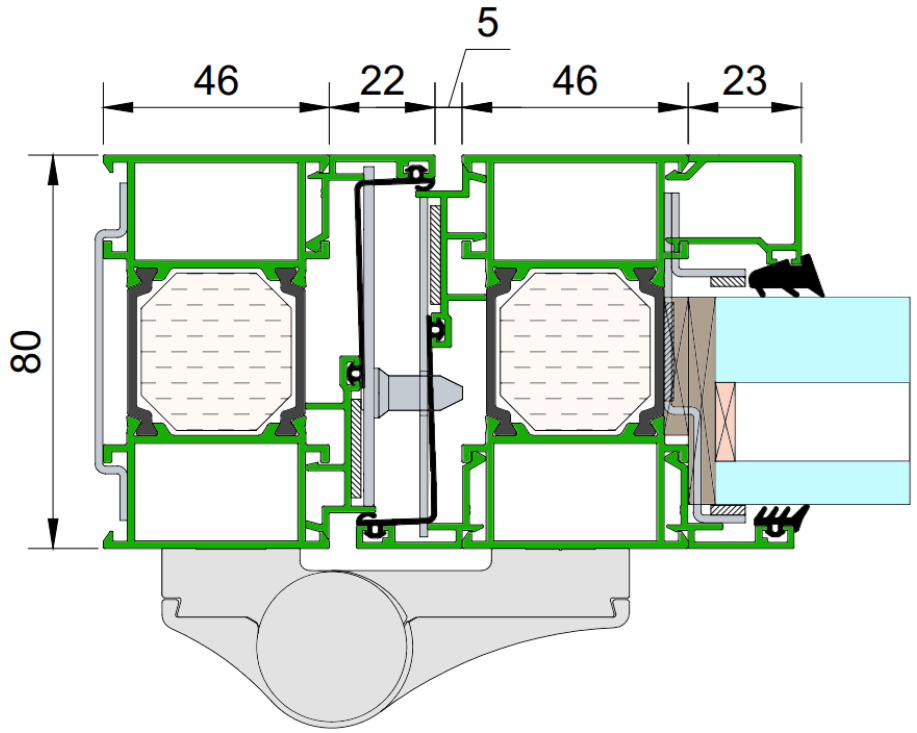
- EI 30
- EI 60



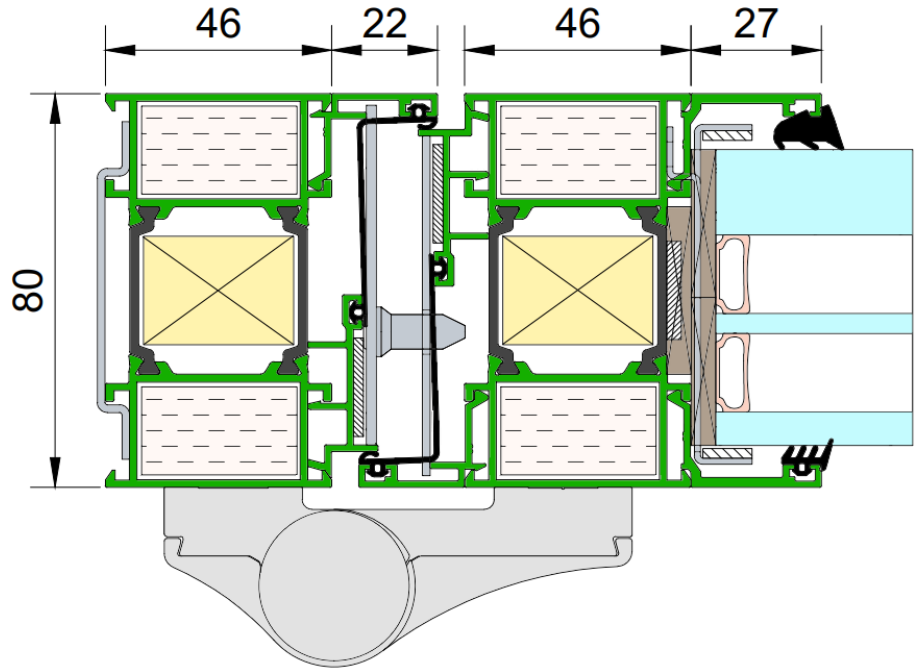
PROFILE CONFIGURATION
EI 30 COMPARISON

ALUFIRE
EXTERNAL DOORS

DOOR EI30:
Alufire Exterior



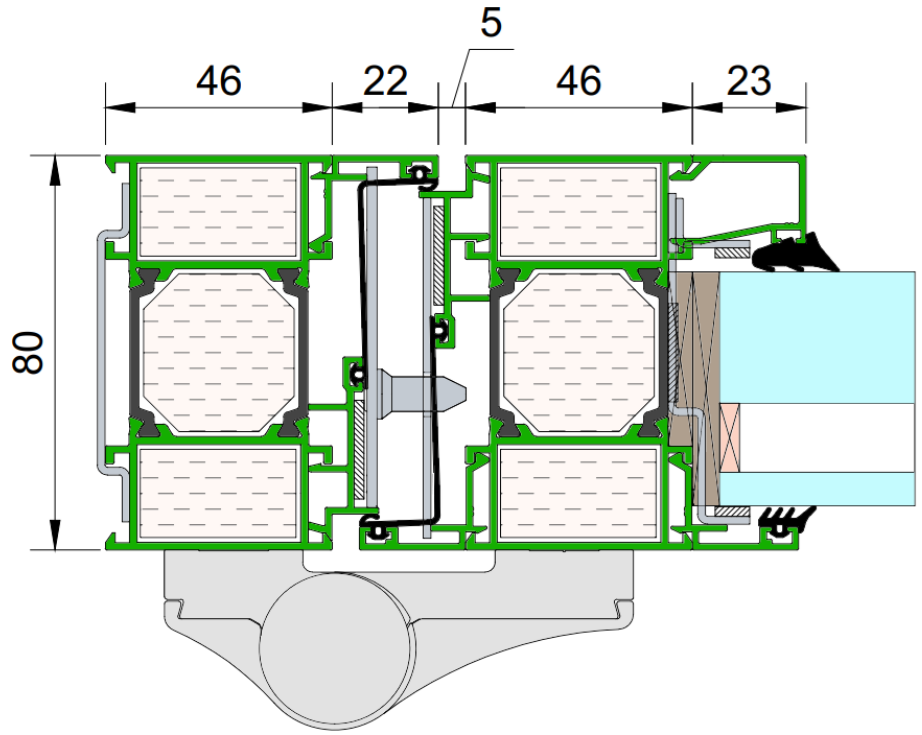
DOOR EI30:
Alufire Exterior Thermo



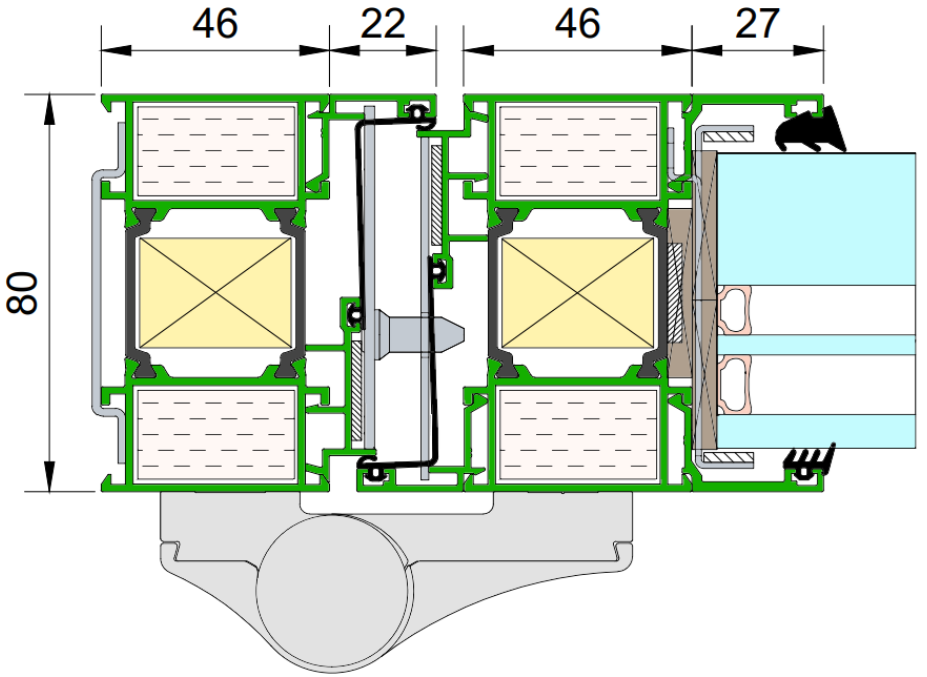
PROFILE CONFIGURATION
EI 60 COMPARISON

ALUFIRE
EXTERNAL DOORS

DOOR EI60:
Alufire Exterior



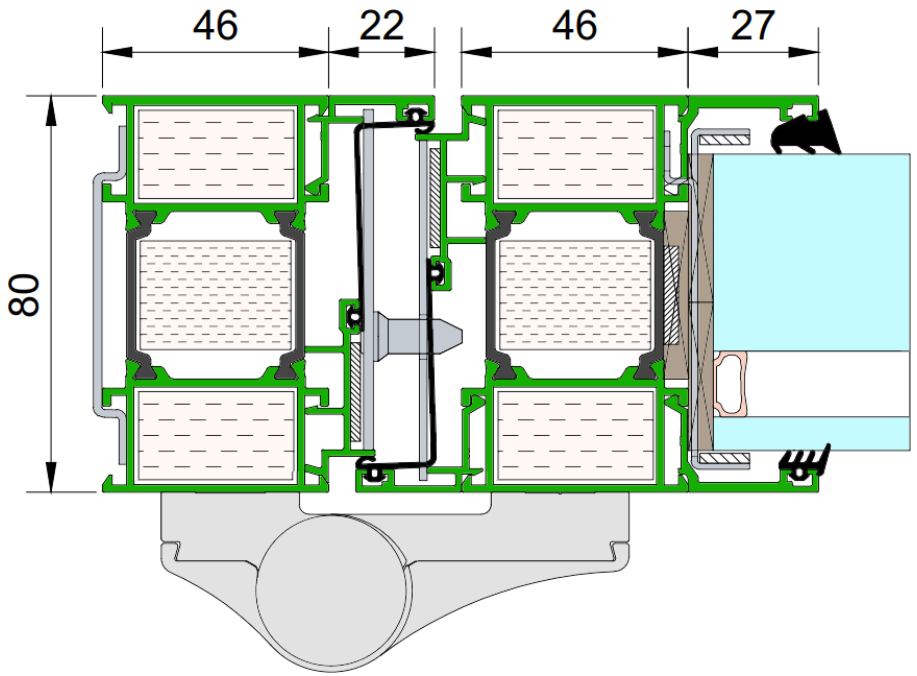
DOOR EI60:
Alufire Exterior Thermo



PROFILE CONFIGURATION
EI 90

ALUFIRE
EXTERNAL DOORS

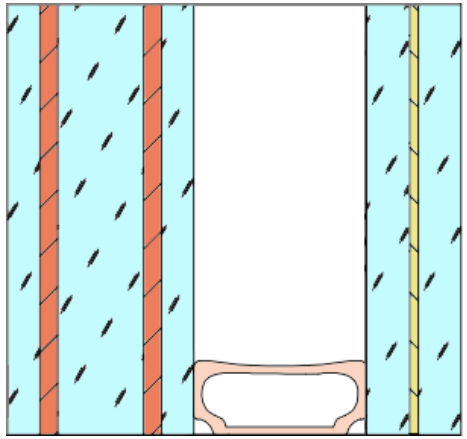
DOOR EI90:
Alufire Exterior



ALUFIRE **EXTERIOR** GLASS
42-47 mm / 60 mm glass units

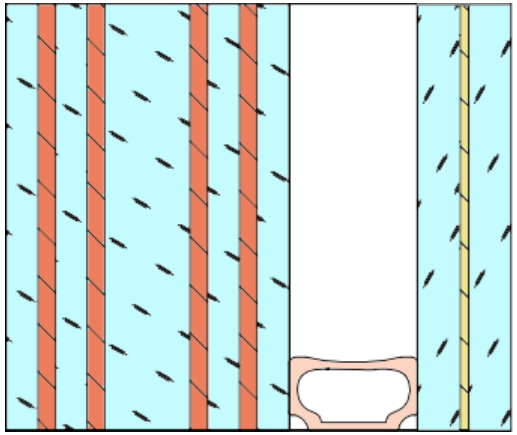
ALUFIRE
EXTERNAL DOORS

ALUFIRE EXTERIOR:
EI30



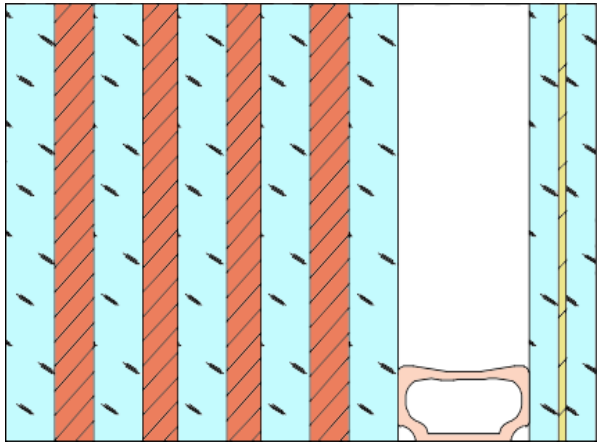
Pyrobel 16 + Argon 16mm + VSG 44.2
(AGC)

ALUFIRE EXTERIOR:
EI60



Pyrobel 25 + Argon 12mm + VSG 44.2
(AGC)

ALUFIRE EXTERIOR:
EI90

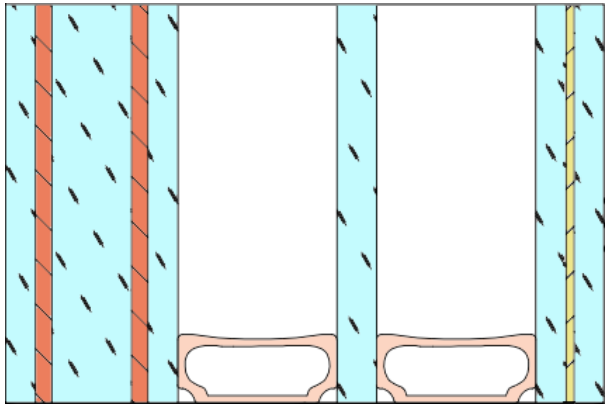


Contraflam 90-4 + Argon 12mm + VSG 33.2
(Vetrotech)

ALUFIRE **EXTERIOR THERMO** GLASS **60 mm** glass units

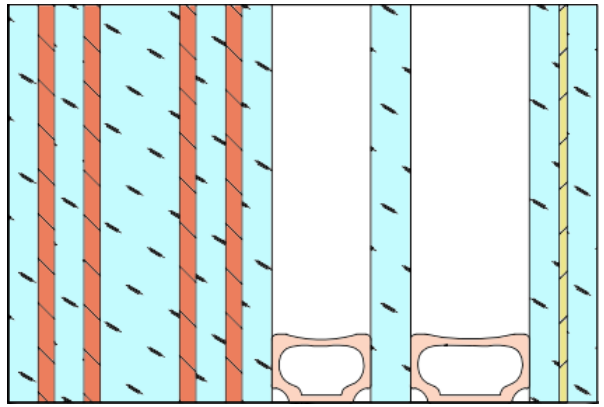
ALUFIRE
EXTERNAL DOORS

ALUFIRE EXTERIOR THERMO: **EI30**



Pyrobel 16 + Argon 16mm + ESG 4mm + Argon 16mm + VSG 33.2 (AGC)

ALUFIRE EXTERIOR THERMO: **EI60**

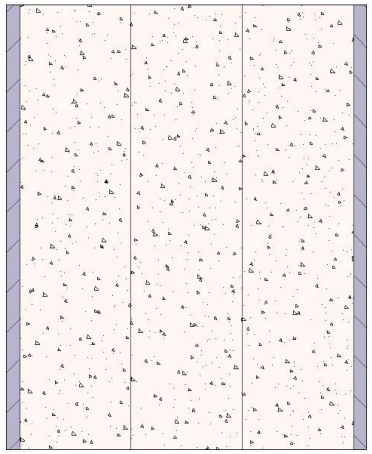


Pyrobel 25 + Argon 10mm + ESG 4mm + Argon 12mm + VSG 33.2 (AGC)

PANEL FILLINGS

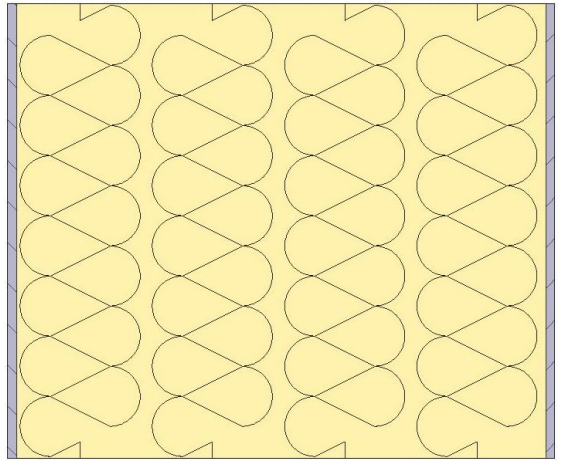
ALUFIRE
EXTERNAL DOORS

Alufire Exterior:
EI30-60



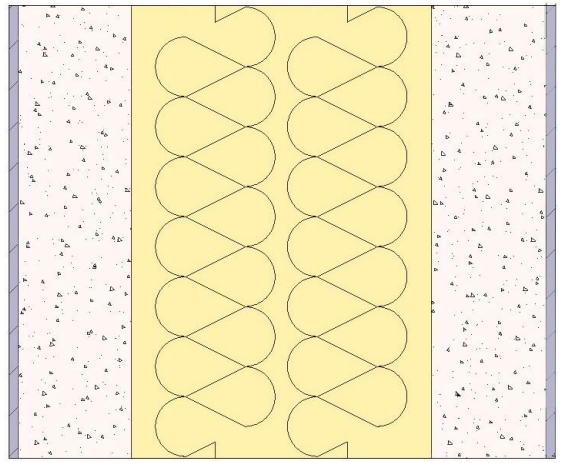
steel sheet – 3x plasterboard – steel sheet

Alufire Exterior Thermo:
EI30



steel sheet – mineral wool 58 mm – steel sheet

Alufire Exterior Thermo:
EI60



steel sheet – plasterboard – mineral wool 33 mm – plasterboard – steel sheet

HARDWARE

ALUFIRE
EXTERNAL DOORS

Stainless steel handle



Stainless steel knob



Stainless steel pull handle



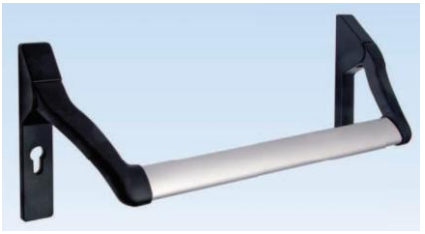
Panic bar – Stainless steel



Panic bar – Silver anodized



Panic bar – Silver & black



HARDWARE

ALUFIRE
EXTERNAL DOORS

HINGES

Standard 3-wing hinges



ELECTRIC STRIKE

Normally closed (NC)



Normally open (NO)



ACCESSORIES

ALUFIRE
EXTERNAL DOORS

Retractable arm drive for air intake systems
(only for EI30 doors)



Ventilation grille

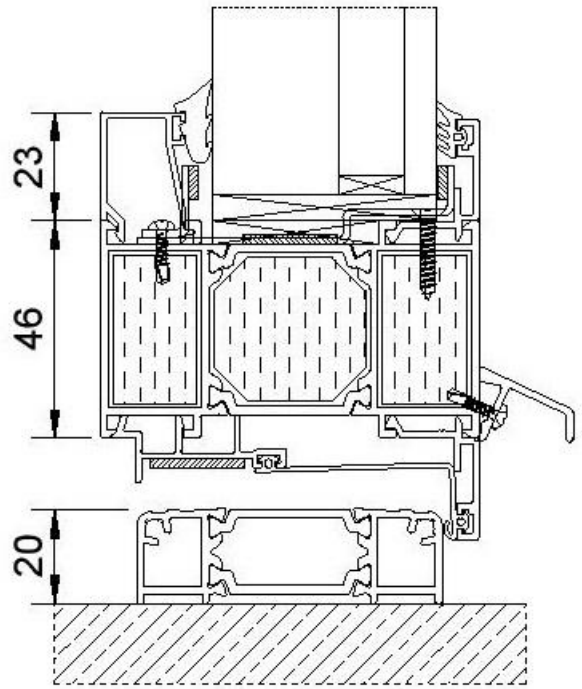
- Standard size:
  300 x 150 mm
- Colour: RAL of choice
- Free air flow:
  295 cm^2

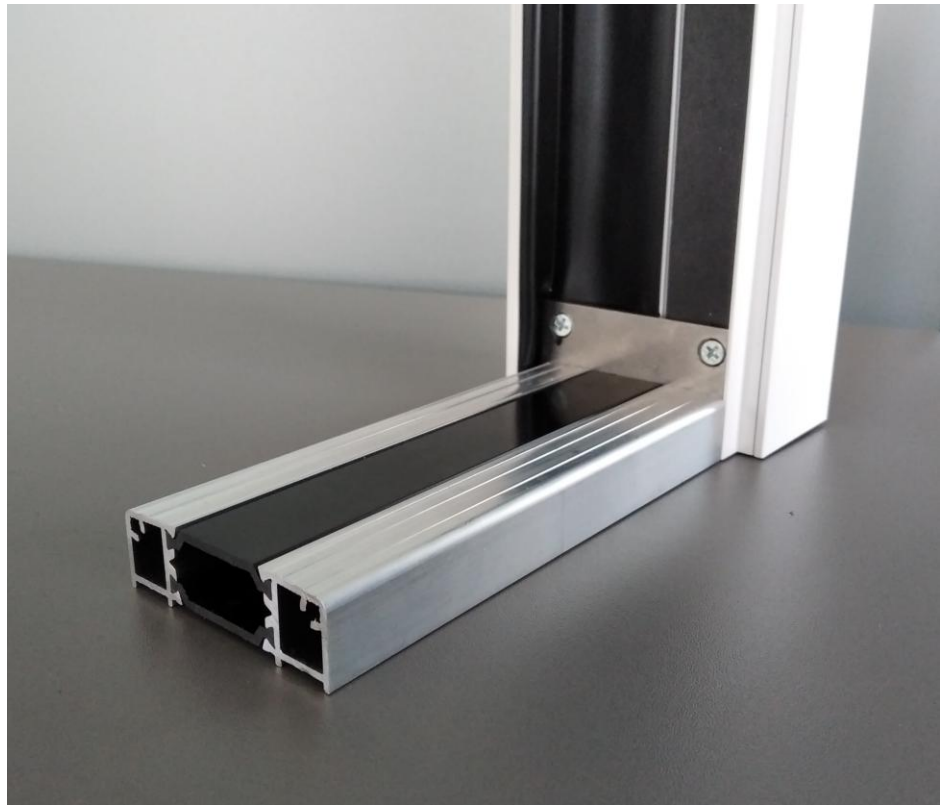


THRESHOLD – 20 mm

ALUFIRE
EXTERNAL DOORS

Bottom of the door leaf cross-section

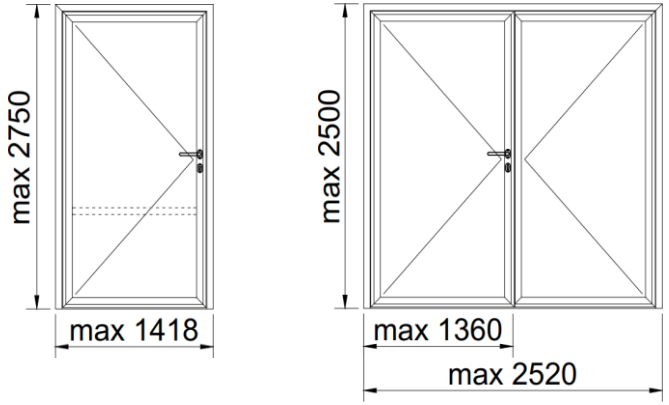




MAX. DIMENSIONS ALUFIRE **EXTERIOR**

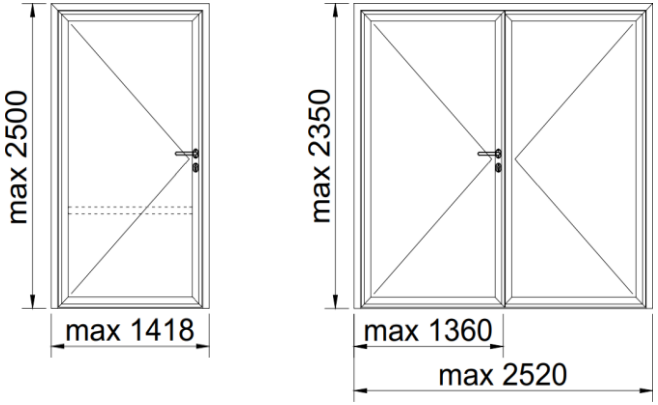
ALUFIRE
EXTERNAL
DOORS

ALUFIRE EXTERIOR:
EI30



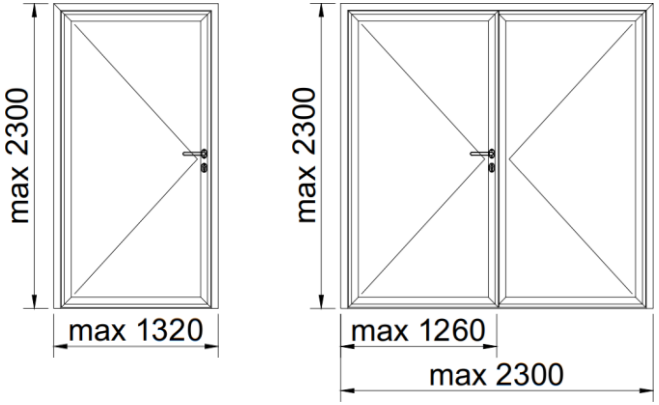
mandatory crossbar for h > 2500

ALUFIRE EXTERIOR:
EI60



mandatory crossbar for h > 2350

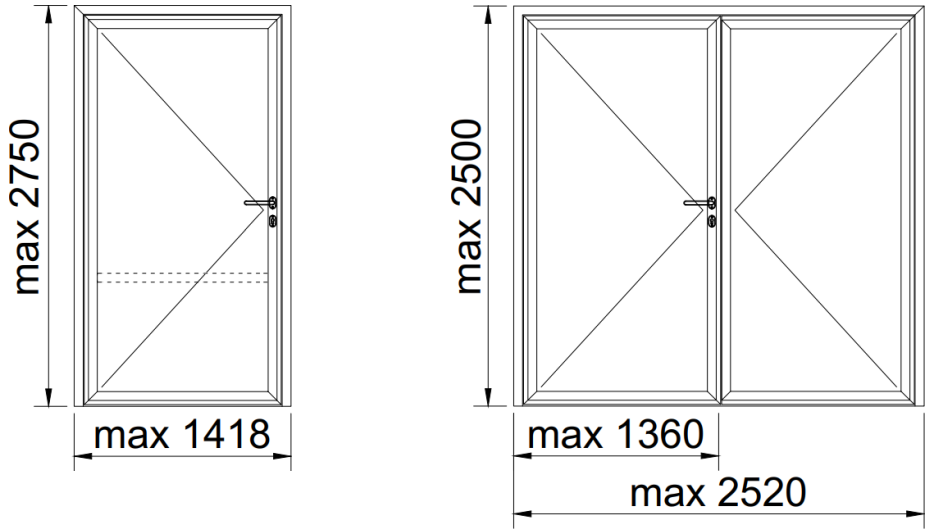
ALUFIRE EXTERIOR:
EI90



MAX. DIMENSIONS
ALUFIRE **EXTERIOR THERMO**

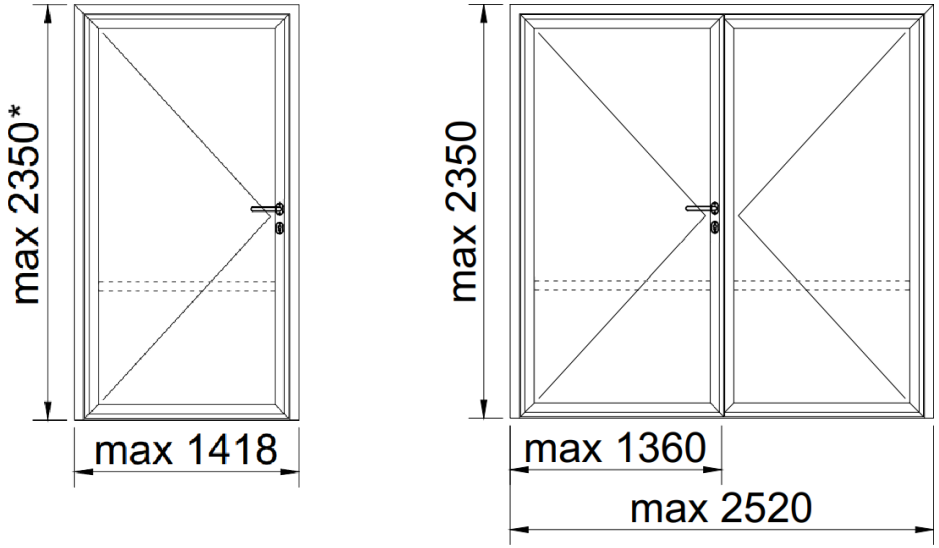
ALUFIRE
EXTERNAL
DOORS

ALUFIRE EXTERIOR THERMO:
EI30



mandatory crossbar for h > 2500

ALUFIRE EXTERIOR THERMO:
EI60



mandatory crossbar for h > 2200

* 2500 for non-glazed doors

DOOR HEIGHT – COMPARISON

ALUFIRE
EXTERNAL DOORS

DOOR HEIGHT	STANDARD MECHANICAL LOCKS		PANIC MECHANICAL LOCKS		ELECTRIC STRIKES		PANIC HARDWARE	
	1-LEAF DOORS	2-LEAF DOORS	1-LEAF DOORS	2-LEAF DOORS	STANDARD LOCKS	PANIC LOCKS	1-LEAF DOORS	2-LEAF DOORS
< 2300mm	1-point	1-point only in active leaf	1-point panic lock	1-point panic lock in active leaf (or in both leaves)	NO/NC	NC	PN-EN 1125/179	PN-EN 1125/179
2300 – 2500mm	3-point	3-point only in active leaf	3-point panic lock	2-point panic lock in active leaf+ counter-lock in inactive leaf	NO	-	PN-EN 1125/179	PN-EN 1125/179 **
				3-point panic lock only in active leaf	NO	-	PN-EN 1125/179	PN-EN 1125/179 ***
2500 – 2750mm*	4-point	-	4-point panic lock	-	NO	-	PN-EN 1125/179	-

* Only single-leaf EI30 doors
** Panic hardware on both leaves
*** Panic hardware only on the active leaf

LOCK TYPES

ALUFIRE
EXTERNAL DOORS

LOCKS	HARDWARE CONFIGURATIONS				ELECTRIC STRIKE	MAX. DOOR HEIGHT	
						1-LEAF DOORS	2-LEAF DOORS
1-point standard mechanical lock	handle – handle	handle – knob/pull handle*	knob/pull handle – knob/pull handle*		NO / NC	2300	2300 **
1-point panic mechanical lock	handle – handle	handle – knob/pull handle*	handle – panic bar	knob/pull handle – panic bar *	NC	2300	2300
3-point standard mechanical lock	handle – handle				NO	EI30: 2500 EI60: 2500***	EI30: 2500** EI60: 2350**
3-point panic mechanical lock	handle – handle		handle – panic bar		-		
1-point panic electric lock, NO/NC	handle – handle		handle – panic bar		-	2300	2300**
3-point panic electric lock, NO/NC	handle – handle		handle – panic bar		-	2500	EI30: 2500** EI60: 2350**

* Normally open electric strike (NC) is required
** the lock can only be used in the active leaf
*** ALUFIRE Exterior Thermo – max. height 2350

TECHNICAL PROPERTIES

ALUFIRE
EXTERNAL DOORS

01	Mechanical strength	**4**
02	Mechanical durability	**C5**
03	Watertightness	**4A**
04	Resistance to wind load	**C1 / B2**
05	Air permeability	**2**
06	Corrosion class (optional)	**C4**
07	Burglary resistance (optional)	**RC2***



Acc. to EN 16034:2014 and EN 14351-1:2006+A2:2016
* Unavailable in ALUFIRE Exterior Thermo system

THERMAL INSULATION

ALUFIRE
EXTERNAL DOORS

Table below presents the typical thermal performance of Alufire external doors.

	ALUFIRE Exterior	ALUFIRE Exterior Thermo
EI 30	$U_w \approx 1,6\ W/m^2K$ $U_g = 1,1\ W/m^2K$	$U_w \approx 1,0\ W/m^2K$ $U_g = 0,5\ W/m^2K$
EI 60	$U_w \approx 1,7\ W/m^2K$ $U_g = 1,2\ W/m^2K$	$U_w \approx 1,2\ W/m^2K$ $U_g = 0,7\ W/m^2K$
EI 90	$Uw \approx 1,7\ W/m^2K$ $U_g = 1,0\ W/m^2K$	-

U_w – thermal transfer coefficient of a glazed Alufire double door measuring 2,2m x 2,3m

U_g – thermal transfer coefficient of the glass, as declared by its manufacturer

