



**Secure Spaces,
Saves Lives.**

DMSteel Fire Rated Metal Doors

Technical Product Catalog 2026



DMSteel Basic
Standard lever handle



DMSteel Panic + Mortise
Panic exit + mortise lock



DMSteel Vision Panel
Vision panel + panic bar



DMSteel Glazed
Full glazed panel



DMSteel Louvered
Ventilation louvers



DMSteel Shaft
Shaft / riser door

FIRE RESISTANCE CLASSIFICATION

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SINGLE LEAF FIRE RATED METAL DOORS

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DOUBLE LEAF FIRE RATED METAL DOORS

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DOOR HARDWARE & ACCESSORIES

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Testing & Classification Standards

- EN 1634-1

Fire resistance test standard for door and shutter assemblies. Specimens are exposed to the standard fire curve (ISO 834) and evaluated for integrity, insulation, and radiation performance.
- EN 13501-2

Classification standard using data from fire resistance tests. Defines the E, EI, and EW rating classes with time periods.

Performance Criteria

- E

Integrity

Prevents passage of flames and hot gases to the unexposed side.
- EI

Integrity + Insulation

Additionally limits temperature rise on the unexposed face: average $\leq 140^{\circ}\text{C}$, maximum at any point $\leq 180^{\circ}\text{C}$.
- EW

Integrity + Radiation Control

Limits radiation on the unexposed side to $\leq 15\text{ kW/m}^2$.
- S

Smoke Control

Limits smoke leakage rate through the door assembly. Tested at ambient and/or 200°C per EN 1634-3.

DMSteel Certified Ratings

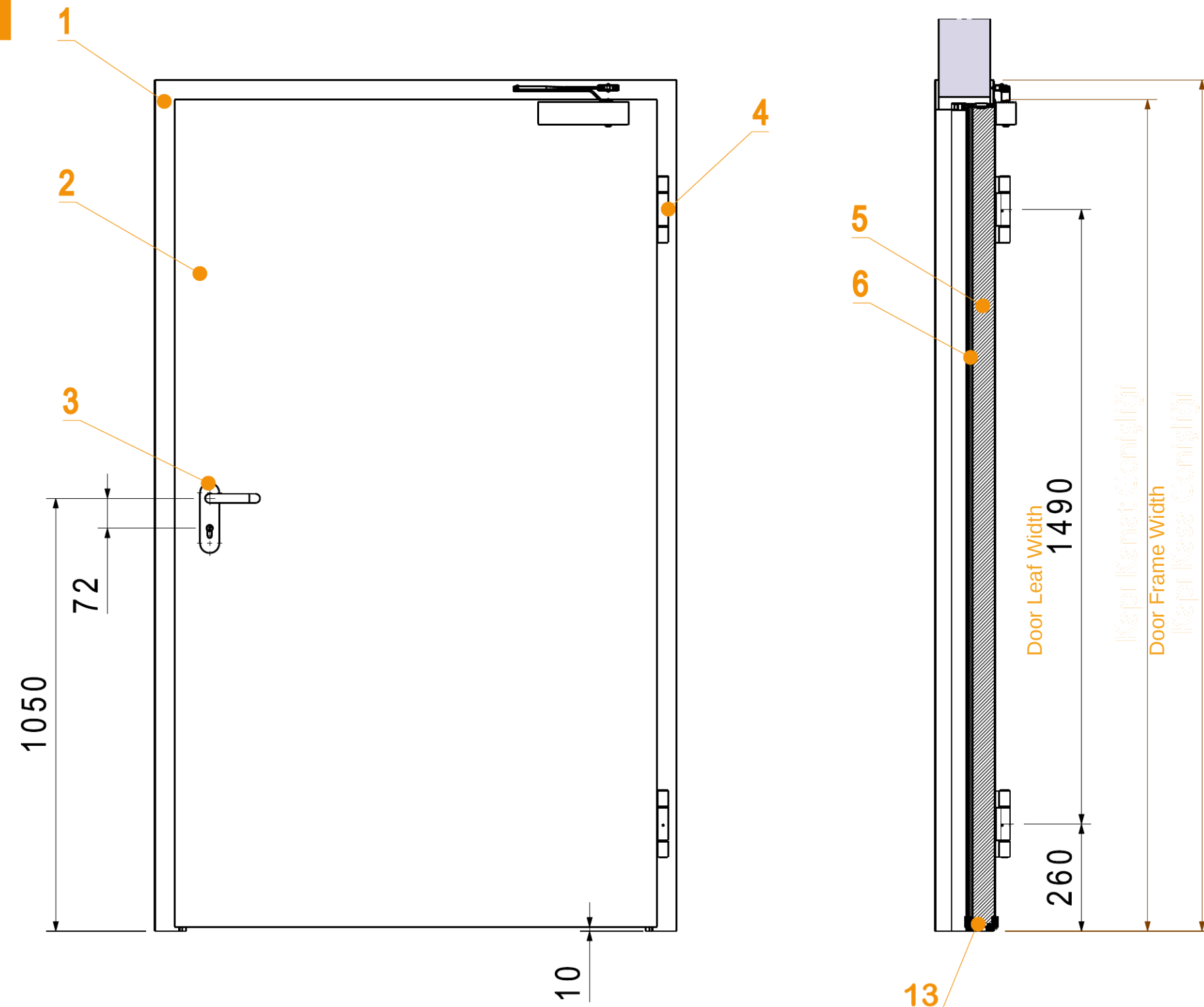
Classification	Single Leaf	Double Leaf
E	120 min	90 min
EI ₂	90 min	90 min
EW	90 min	90 min
S	Optional	Optional

EI₂ = Insulation measured per EN 1634-1 Annex method 2
S = Smoke control door seal available on request (EN 1634-3)
Full test certificates listed in the Single Leaf and Double Leaf sections.

Single Leaf

Fire Rated Metal Doors



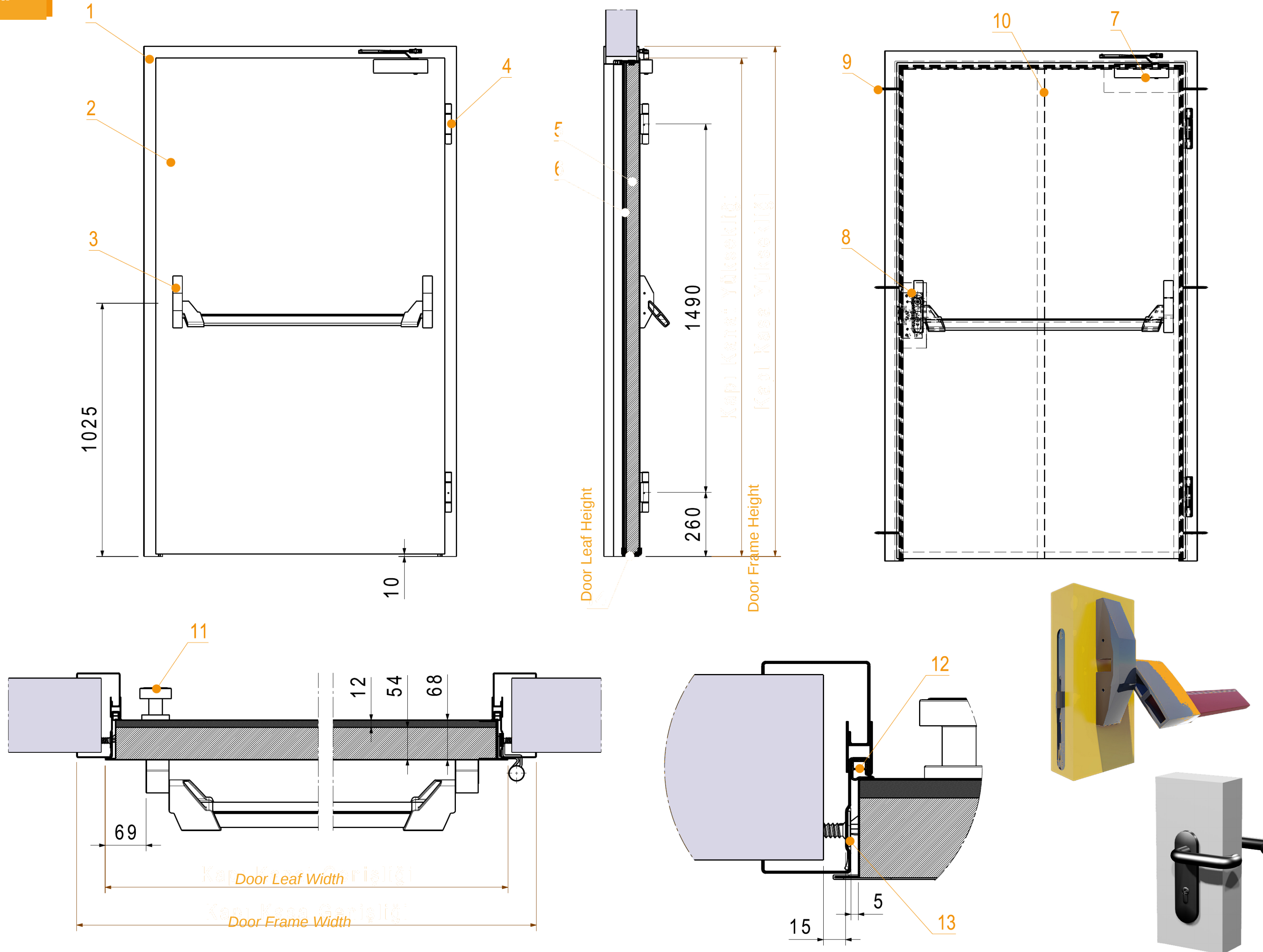


FIRE RATED SINGLE LEAF METAL DOORS

1. Door Frame
2. Door Leaf
3. Push Handle (66M SHELL)
4. Hinge Set (YM-AS-G)
5. Rockwool (54 mm)
6. Gypsum Board (12 mm)
7. Door Closer
8. Door Lock Mechanism (660-GKN-CE)
9. Buldex Screw (7.5×100 mm)
10. U-Profile Reinforcement (Vert.) (2 mm)
11. Intumescent Door Seal
12. PVC Frame Gasket
13. U-Profile (Bottom Closing)

U-Value : 1.99
Acoustic Rating : 38dB

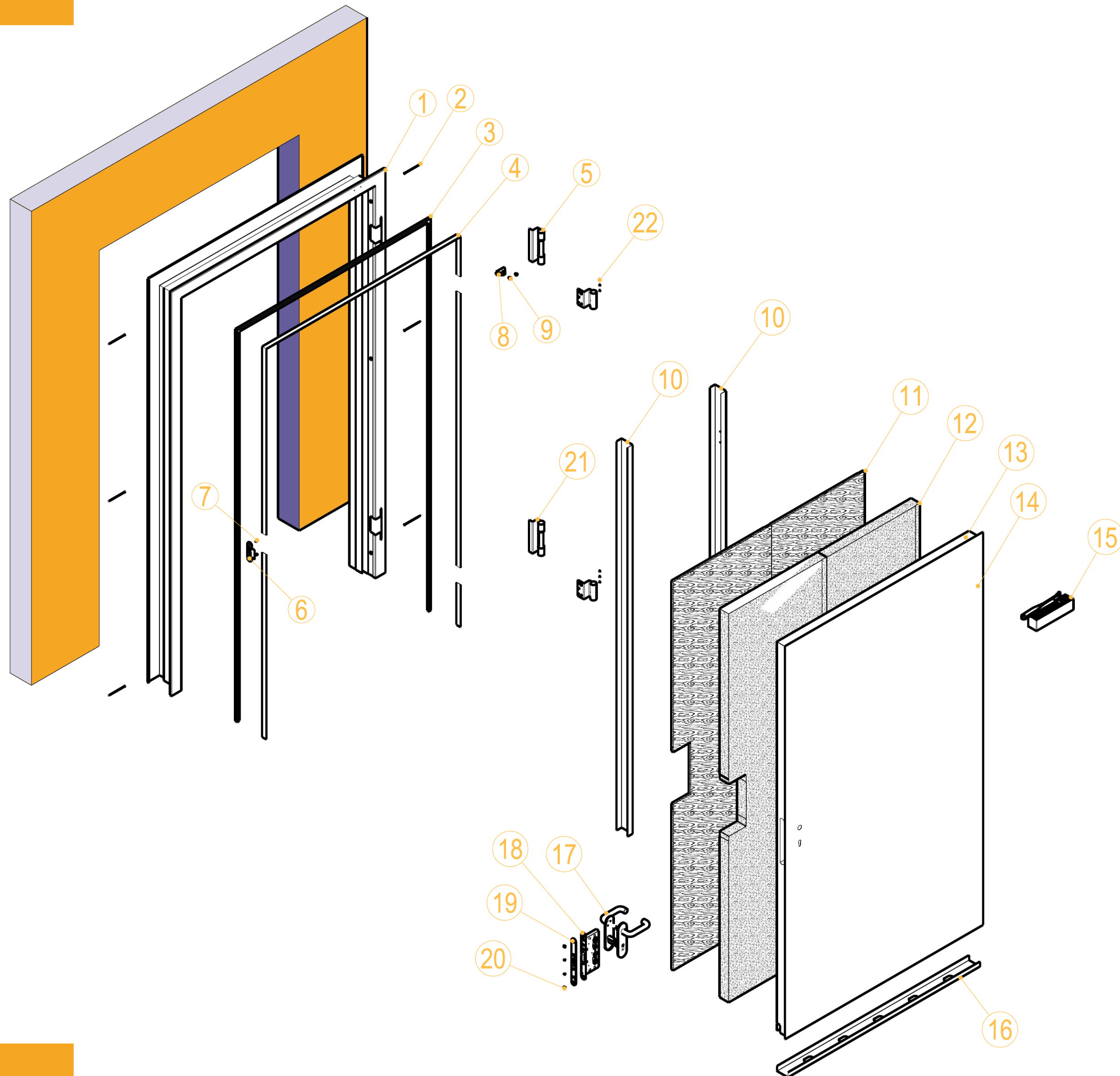
FIRE RATED SINGLE LEAF METAL DOORS



1. Door Frame
2. Door Leaf
3. Panic Bar
4. Hinge Set (YM-AS-G)
5. Rockwool (54 mm)
6. Gypsum Board (12 mm)
7. Door Closer
8. Door Lock Mechanism (660-GKN-CE)
9. Buldex Screw (7.5×100 mm)
10. U-Profile Reinforcement (Vert.) (2 mm)
11. S.Steel Rear Handle (66M PSL TPK)
12. Intumescent Door Seal
13. PVC Frame Gasket
14. U-Profile (Bottom Closing)

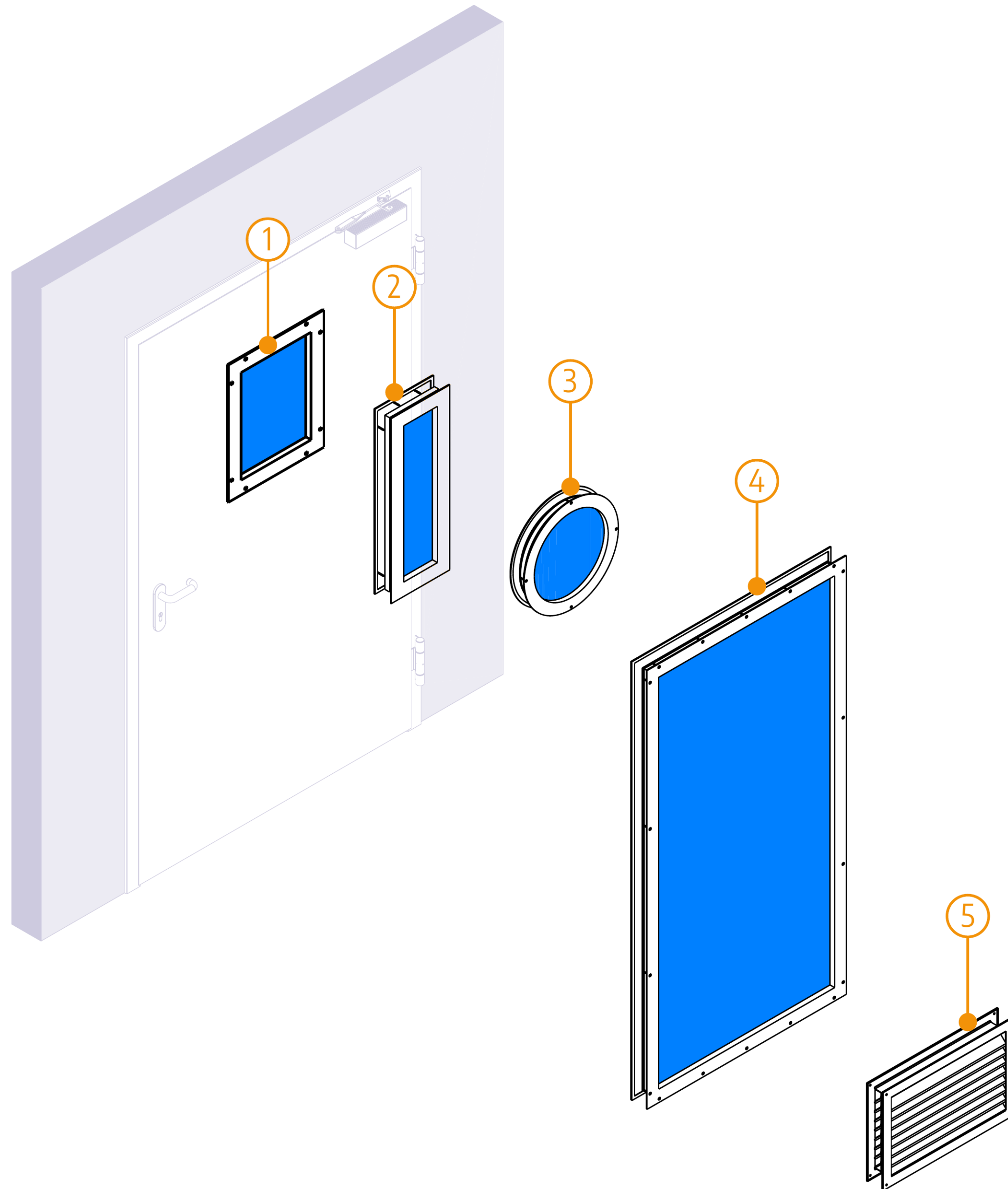
U-Value : 1.99
Acoustic Rating : 38dB

FIRE RATED SINGLE LEAF METAL DOORS



1. Door Frame
2. Buldex Screw (7.5×100 mm)
3. Intumescent Door Seal
4. Smoke Seal
5. Hinge Set (YM-SH-STF KL)
6. Lock Strike Plate
7. Screw
8. Door Closer Mounting Bracket
9. Screw
10. U-Profile Reinforcement (Vert.) (2 mm)
11. Gypsum Board
(12 mm/Only in Fire Rated Doors)
12. Rockwool (150 kg/m³)
13. Door Sheet-1 (1 mm steel)
14. Door Sheet-2 (1 mm steel)
15. Door Closer
16. Door Bottom Guillotine Profile (2 mm)
17. Double Side Push Handle (66M-PSL)
18. Deadbolt Mortise Lock (660GKN-CE)
19. Mortise Lock Cover
20. Screw
21. Hinge Set (YM-SH-STF KL)
22. Lock Strike Plate

FIRE RATED SINGLE LEAF METAL DOORS



1. Square Glass/Frame
2. Rectangular Glass/Frame
3. Circular Glass/Frame
4. Full Glass/Frame
5. Ventilation Louver

#	Model	Fire Class	Lab	Max Door Size	Features	Fill
1	ISK 90	E 120 EI ₂ 90 EW 90	TSE	115×241 cm	Cat B	
2	MFD 60	E 60 EI 60	Efectis	115×240 cm	Cat B	
3	MFD ECO EI 90	E 120 EI 90	TSE	114×239 cm	Cat B	
4	MFD 90	E 120 EI 90	Efectis	126×260 cm	Cat B	
5	MFD 120	E 120 EI 120	TSE	114×240 cm	Cat B	
6	MFD G90 DS	E 120 EI 90	Efectis	109×237 cm	Dual DirectionGlass: 20×160Cat B	
7	MFD 90 DS	E 120 EI 90	TSE	139×275 cm	Dual DirectionCat B	
8	MFD G90 S200	E 120 EI 90	TSE	125×251 cm	Glass: 55×75Smoke ProofCat B	
9	MFD FC 90	E 120 EI 90	TSE	90×210 cm	Concealed HingeCat A	
10	MFD 90 SA	E 90 EI 90	TSE	105×215 cm	Smoke ProofCat A	
11	MFD A 42	EI 90	TSE	125×212 cm	42 dB AcousticCat A	
12	MFD 90 UL	EI 90	Efectis	100×210 cm	UL 10BCat A	

12 of 14 single leaf certificates shown. Full portfolio available on request.
All tests per EN 1634-1 (ISO 834). Category B = +15% extended application. Contact us for full technical data.

Insulation Key:

Rockwool

Gypsum Board

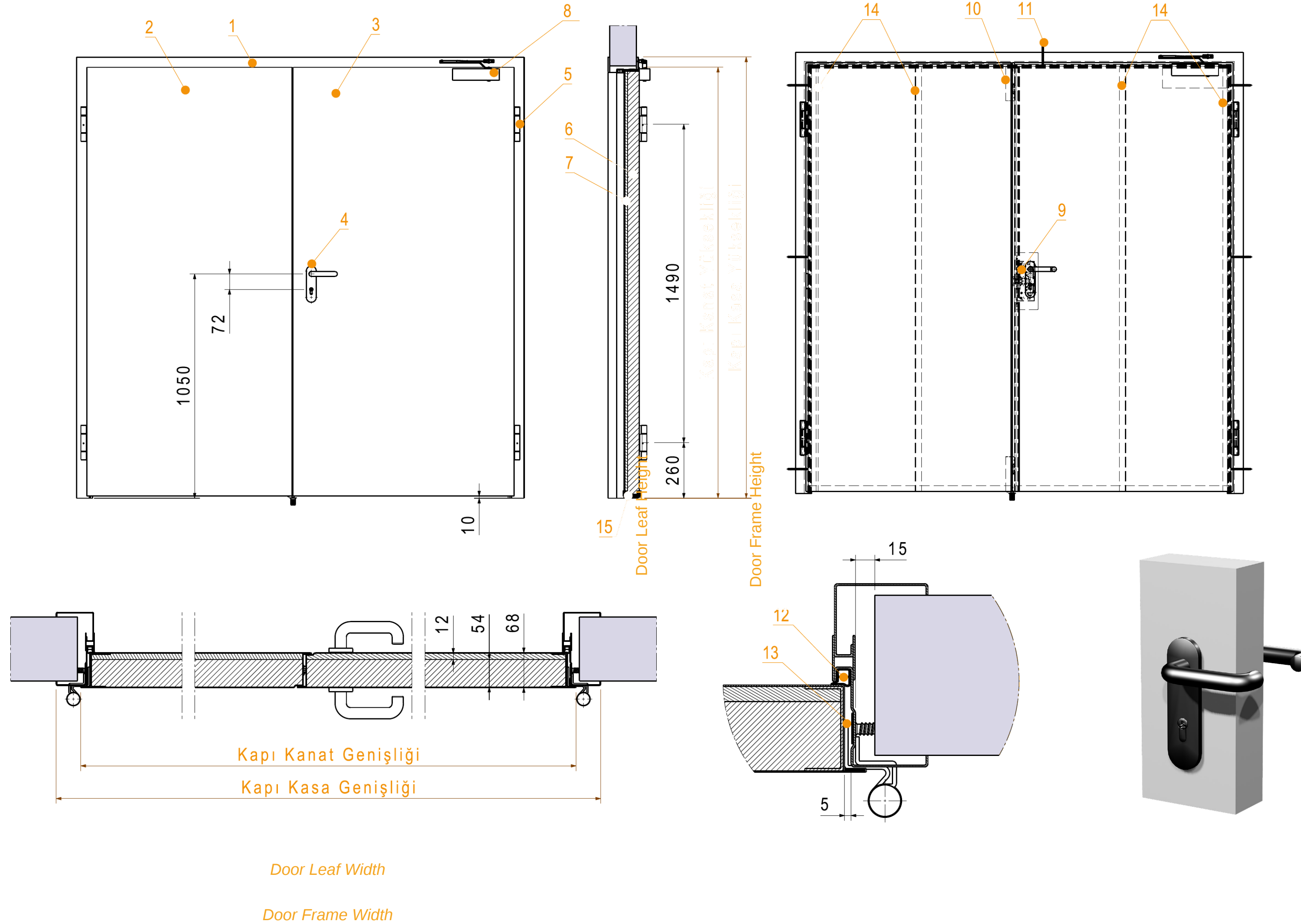
Ceramic Wool

Double Leaf

Fire Rated Metal Doors

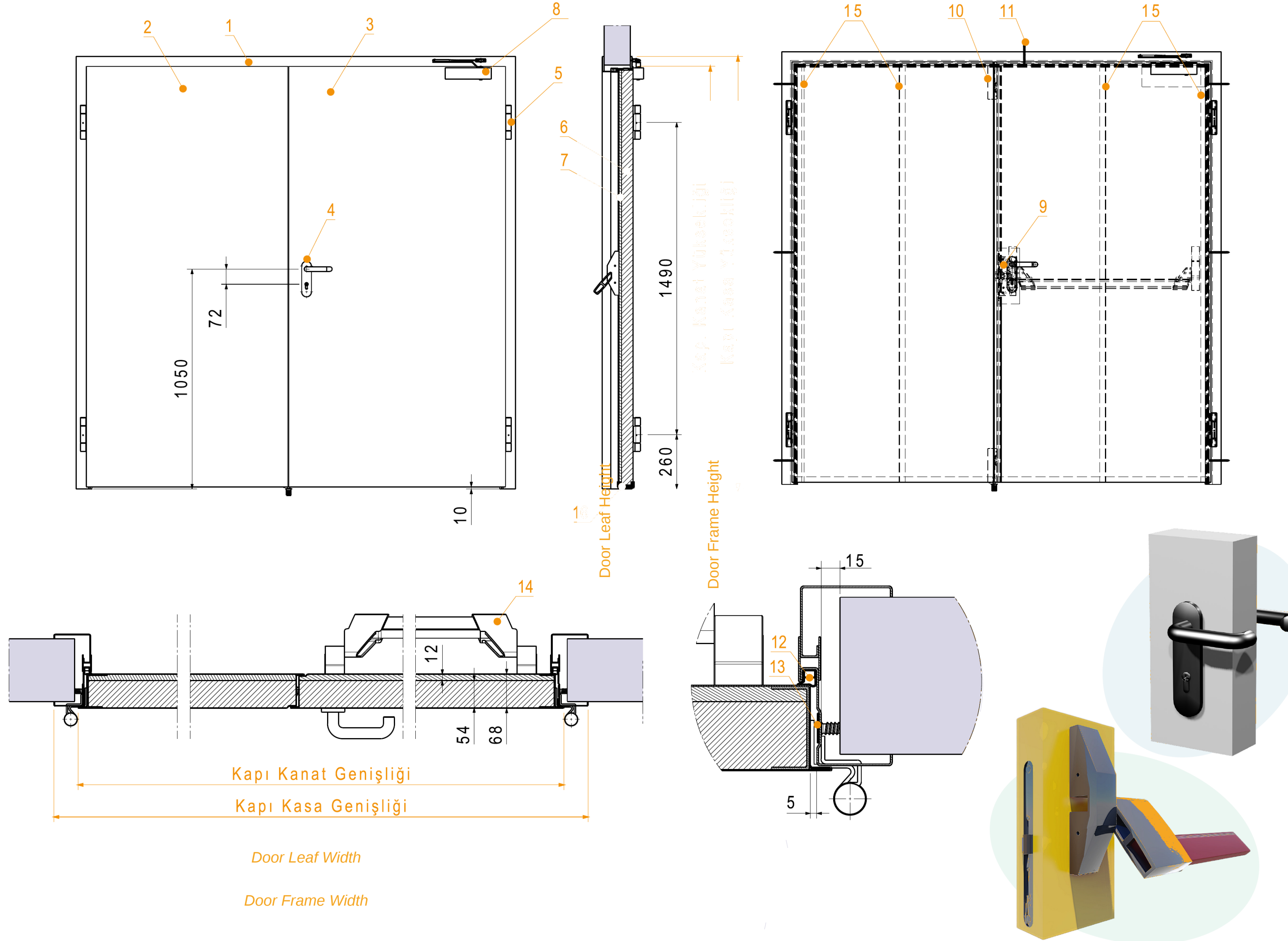


FIRE RATED DOUBLE LEAF METAL DOORS



1. Door Frame
2. Door Leaf (Passive)
3. Door Leaf (Active)
4. Double Side Push Handle (66M-PSL)
5. Hinge Set (YM-SH-STF KL)
6. Rockwool (150 kg/m³)
7. Gypsum Board (12 mm)
8. Door Closer
9. Deadbolt Mortise Lock (660GKN-CE)
10. Flush Bolt (GS)
11. Buldex Screw (7.5×100 mm)
12. Intumescent Door Seal
13. PVC Frame Gasket
14. U-Profile Reinforcement (Vert.) (2 mm)
15. Door Bottom Guillotine Profile (2 mm)

U-Value : 1.99
Acoustic Rating : 38dB

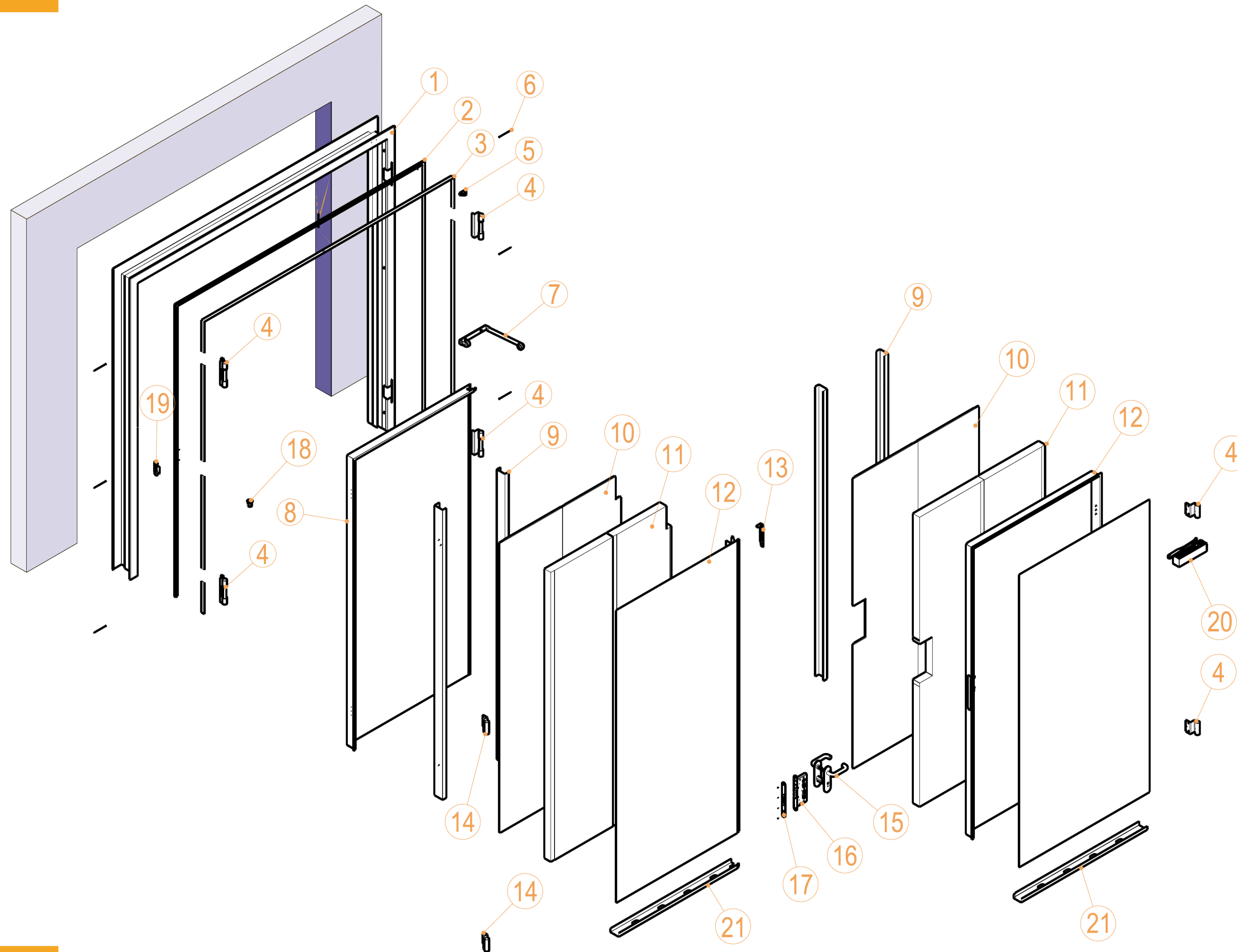


FIRE RATED DOUBLE LEAF METAL DOORS

1. Door Frame
2. Door Leaf (Passive)
3. Door Leaf (Active)
4. Double Side Push Handle (66M-PSL)
5. Hinge Set (YM-SH-STF KL)
6. Rockwool (150 kg/m³)
7. Gypsum Board (12 mm)
8. Door Closer
9. Panic Function Mortise Lock (660GKN-CE)
10. Flush Bolt (GS)
11. Buldex Screw (7.5×100 mm)
12. Intumescent Door Seal
13. PVC Frame Gasket
14. Panic Bar
15. U-Profile Reinforcement (Vert.) (2 mm)
16. Door Bottom Guillotine Profile (2 mm)

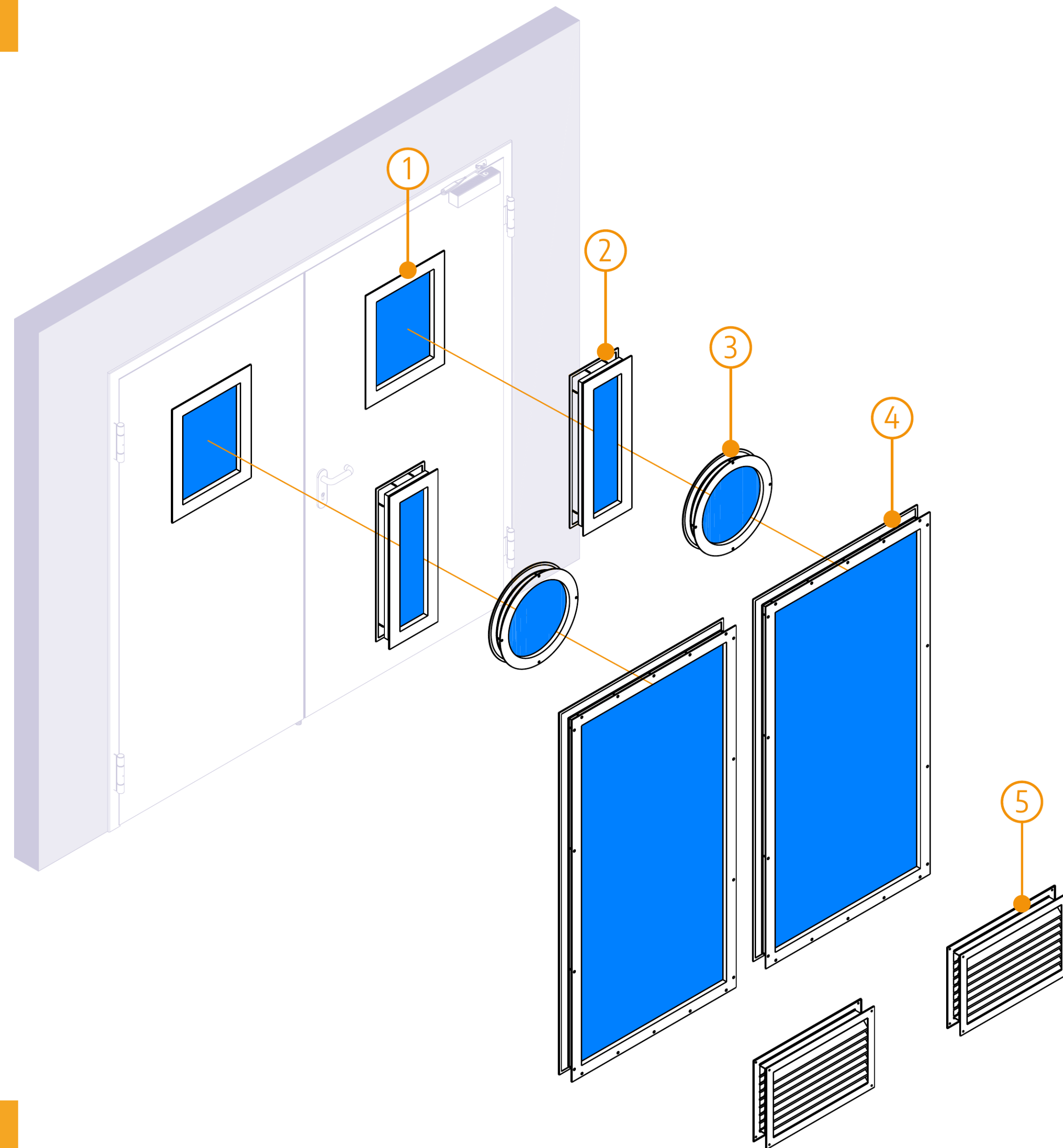
U-Value : 1.99
Acoustic Rating : 38dB

FIRE RATED DOUBLE LEAF METAL DOORS



1. Door Frame
2. Intumescent Door Seal
3. Smoke Seal
4. Hinge Set (YM-SH-STF KL)
5. Door Closer Mounting Bracket
6. Buldex Screw (7.5×100 mm)
7. Door Closing Sequencer
- (Only Double Leaf Double Panic Bar Type)
8. Door Sheet-1 (1 mm steel)
9. U-Profile Reinforcement (Vert.) (2 mm)
10. Gypsum Board
11. Rockwool (150 kg/m³)
12. Door Sheet-2 (1 mm steel)
13. Flush Bolt (GS)
14. Hinge Set (YM-SH-STF KL)
15. Double Side Push Handle (66M-PSL)
16. Deadbolt Mortise Lock
- (660GKN-CE)
17. Mortise Lock Cover
18. Flush Bolt Strike Plate
19. Lock Strike Plate
20. Door Closer
21. Door Bottom Guillotine Profile (2 mm)

FIRE RATED DOUBLE LEAF METAL DOORS



- | | | |
|----|-------------------------|---------|
| 1. | Square Glass/Frame | (2 Pcs) |
| 2. | Rectangular Glass/Frame | (2 Pcs) |
| 3. | Circular Glass/Frame | (2 Pcs) |
| 4. | Full Glass/Frame | (2 Pcs) |
| 5. | Ventilation Louver | (2 Pcs) |

#	Model	Fire Class	Lab	Max Door Size	Features	Fill
1	ISK-D 90	E 90 EI ₂ 90 EW 90	TSE	190×235 cm	Cat B	
2	MFD-D 60	E 120 EI 60	Efectis	221×260 cm	Cat B	
3	MFD-D 90	E 120 EI 90	TSE	280×276 cm	Cat B	
4	MFD-D E90	E 90	TSE	300×350 cm	Cat A	
5	MFD-D 120	EI 120	Efectis	203×248 cm	Cat B	
6	MFD-D 90 DS	E 90 EI 90	Efectis	203×249 cm	Dual DirectionCat B	
7	MFD-D G90	E 90 EI 90	TSE	170×220 cm	Glass: 55×75Smoke ProofCat A	
8	MFD-D 90 UL	EI 90	Efectis	180×210 cm	UL 10BCat A	
9	MSA 120	E 120 EI 120	TSE	49×109 cm	Cat A	

9 of 9 double leaf certificates shown. Full portfolio available on request.
All tests per EN 1634-1 (ISO 834). Category B = +15% extended application. Contact us for full technical data.

Insulation Key:

Rockwool

Gypsum Board

Ceramic Wool

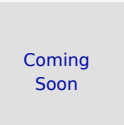
Accessories

Door Hardware & Components

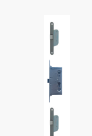
Hinges · Lock Sets · Handles · Panic Bars
Door Closers · Stoppers · Seals & Gaskets
Guillotine Seals · Euro Cylinders · Flush Bolts



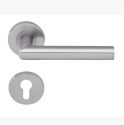
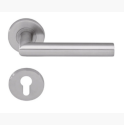
Hinges

	Code	Brand	Model / Series	Specification	
	HNG-002	Maggi / Menpa / Omni	Roller Hinge	Roller Hinge — Steel Door	\$
	HNG-004	Assa Abloy	Ceam 1230s	Concealed Hinge	
	HNG-005	Simonswerk	VX 7739	Stainless Steel Hinge	

Lock Sets

	Code	Brand	Model / Series	Specification	
	LCK-006	Dorma	ISEO 216	Cylinder Mortise Lock	
	LCK-007	Dorma	ISEO 214	Panic Mortise Lock	
	LCK-008	Dorma	ISEO 212	Passive Panic Lock	
	LCK-009	Hafele	Shaft Lock	Shaft Door Lock	
	LCK-010	Assa Abloy	EL560	Electric Lock	
	LCK-013	Assa Abloy	1729/1729	Multi-Point Cylinder Lock	
	LCK-014	Assa Abloy	1729/1729	Multi-Point Panic Lock	
	LCK-017	Dorma	232A	Roller Latch Lock	

Handles / Panic Bars

	Code	Brand	Model / Series	Specification	
	HDL-003	Dorma	Black Handle	Black Lever Handle	\$
	HDL-002	Dorma	8100 Pure WC	SS Lever Handle WC	
	HDL-009	Assa Abloy	AHW020	SS Lever Handle L-Type	
	HDL-004	Dorma	8100 Pure	SS Lever Handle U-Type	
	HDL-005	Dorma	8906 Pure	SS Lever Handle L-Type	
	HDL-007	Dorma	32412	SS Plate Handle	
	HDL-008	Assa Abloy	AHW010	SS Lever Handle U-Type	
	HDL-013	Menpa	Panic Bar	Flush Mount Panic Bar	\$
	HDL-012	Dorma	ISEO Palmo	Flush Mount Panic Bar	
	HDL-014	Assa Abloy	PED180	Surface Mount Panic Bar	
	HDL-015	Hafele	PH2121	Push-Pull Handle	
	HDL-016	Hafele	Push-Pull	Push-Pull Plate Handle	

Door Closers				
	Code	Brand	Model / Series	Specification
	CLS-002	Yuma	No3 Arm	Scissor Arm — Metal Door
	CLS-003	Yuma	No4 Arm	Scissor Arm — Metal Door
	CLS-001	Yuma	No3 Slide	Slide Arm Closer
	CLS-004	Dorma	TS Compact	Scissor Arm Closer
	CLS-005	Dorma	TS 89	Scissor Arm Closer
	CLS-006	Dorma	TS Match	Slide Arm Closer
	CLS-007	Assa Abloy	DC 140	Scissor Arm Closer
	CLS-008	Dorma	TS 92	Slide Arm Closer
	CLS-009	Dorma	TS 93	Slide Arm Closer
	CLS-010	Dorma	DC 120	Scissor Arm Closer

Flush Bolts				
	Code	Brand	Model / Series	Specification
	FB-002	Hafele	Bolt 04	Flush Bolt — Metal Door

Cable Guide				
	Code	Brand	Model / Series	Specification
	CG-001	Assa Abloy	DDL-400	Concealed Cable Transfer

Door Stoppers				
	Code	Brand	Model / Series	Specification
	STP-001	Assa Abloy	DS010	Half Moon Floor Stopper
	STP-002	Assa Abloy	DS030	Cylindrical Floor Stopper

Seals & Gaskets				
	Code	Brand	Model / Series	Specification
	SL-001	Plastfit	Metal Frame Seal	PVC Frame Gasket
	SL-003	Kerafix	Flexpan200 20x1.5	Intumescent Strip

Bottom Guillotine				
	Code	Brand	Model / Series	Specification
	GYT-001	Garlin	DRS9100	Automatic Drop Seal
	GYT-002	Albatur	Underline 300	Automatic Drop Seal

Euro Cylinders				
	Code	Brand	Model / Series	Specification
	BR-001	ITO	45x45	Full Cylinder — Metal Door
	BR-002	ITO	45x10	Half Cylinder
	BR-005	ITO	45x45	Thumbturn Cylinder

DMSteel - EI90 - S - 100×210 - L - RAL7035 - G55 - PB

1ProductDMSteel

- DMSteelFire Rated Steel Door
- MSAShaft Access Cover

2Fire RatingEI90

- E6060 min Integrity
- EI9090 min Integrity + Insulation
- EI120120 min Integrity + Insulation
- E90-S90 min + Smoke Proof

3ConfigurationS

- SSingle Leaf
- DDouble Leaf
- DSDouble Leaf — Dual Direction

4Size (W×H)100×210

- W×H cmClear opening in centimeters
- MaxSee certificate table for limits

5Hinge SideL

- LLeft Hand (hinges on left)
- RRight Hand (hinges on right)

6FinishRAL7035

- RAL____Any RAL color
- GALGalvanized (unpainted)
- SSStainless Steel Finish

7GlazingG55

- No glass (solid door)
- G55Vision Panel 55×75 cm
- G20Long Panel 20×160 cm
- GFFull Glass
- LVVentilation Louver

8HardwarePB

- STDStandard (handle + lock)
- PBPanic Bar (flush mount)
- PBSPanic Bar (surface mount)
- PPPush-Pull Handle
- ELElectric Lock

Example: DMSteel - EI90 - S - 100×210 - L - RAL7035 - G55 - PB

Single leaf, EI90, 100×210cm, left hand, light grey, 55×75 vision panel, flush panic bar



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