



ULTIMATE Protect Slab 4.0/4.0 Alu1

Fire protection in rectangular metal ducts.

High-density ISOVER **ULTIMATE** flexible wool panels; **ULTIMATE Protect Slab 4.0** not covered. **ULTIMATE Protect Slab 4.0 Alu1** the external facing is covered with reinforced aluminium foil which acts as a vapour barrier. Because of its exceptional thermal and acoustic properties and excellent fire-safety behaviour, the **ULTIMATE Protect** range is the ideal solution for external insulation, capable of providing fire resistance in networks of rectangular section metal in thermal installations within air-conditioning systems in buildings, both residential and industrial.

Technical Properties

Symbol	Parameter	Icon	Units	Value	Standard
λ_D	Thermal conductivity declared as a function of temperature		W/m·K (°C)	0,031 (10)	EN 12667 EN 12939
				0,035 (50)	
				0,040 (100)	
				0,047 (150)	
				0,054 (200)	
				0,072 (300)	
—	Sound absorption coefficient		α_w	1,00	EN 11654
	Air flow resistance (measurement on non-faced product)		AF _R	60	EN 29053
—	Reaction to fire		Euroclass	A1	EN 13501-1 EN 15715
	Fire resistance		—	From EI15 to EI120	EN 1366
ST	Maximum operating temperature		°C	400	EN 14706
MU	Mineral wool: water-vapour diffusion resistance, μ		—	1	EN 12086
Z	Facing: water-vapour diffusion resistance		m ² ·h·Pa/mg	MU1 (4,0) MV2 (4.0 Alu1)	EN 12086
MV	The vapour diffusion-equivalent air layer thickness, S _d		m	200	EN 12086

Thickness d, (mm)	Designation code	ISOVER solution ULTIMATE Protect
EN 823	EN 14303	
30-100	MW-EN 14303-T5-MV1	Slab 4.0
	MW-EN 14303-T4-ST(+)-400-MV2	Slab 4.0 Alu1

Insulation thickness needed (Both fire scenarios: interior and exterior)			
Type of duct	Fire-resistance classification (minutes)	Thickness (mm)	Duct orientation
Ventilation & Multisector extraction	EI 120	90	Both (Horizontal & Vertical)

Presentation

Thickness d* (mm)	Length l (m)	Width b (m)	m ² /package	m ² /pallet	m ² /truck load
30	1,20	0,60	9,36	112,32	2.471
40			7,20	86,40	1.901
60			4,32	51,84	1.140
70			3,60	43,20	950
80			3,60	43,20	950
90			2,88	34,56	760
100			2,88	34,56	760

* In some countries not all the thicknesses will be available. Please contact the local Isover Team for specific installation details

Advantages

- Maximum protection against fire, in accordance with EN 13501-1.
- Fire resistant in section metal ducts. In accordance with EN 13501-3, EN 1366-1 and EN 1366-8.
- CE certificate for fire protection according to ETA 18/0691.
- Quick and easy installation.
- Up to 65% lighter than conventional products.
- Maximum compressibility, highly reliable and adaptable.
- Easy to transport.
- Optimal thermal and acoustic performance with low thickness solutions.
- Meets the highest safety standard guidelines.
- Inert material, inhospitable for micro-organisms.
- Sustainable product. 100% recyclable. Recycled material > 50%.



Certification



Installation Guide

Consult the guidelines in the ULTIMATE Protect Assembly Manual. Additional information available at: www.isover.es