

U Protect for fire, thermal and acoustic insulation of ventilation and smoke extraction ducts



U Protect Slab 4.0 is part of ISOVER solutions for providing fire resistance in HVAC applications by using high performing ULTIMATE mineral wool.

U Protect slabs provide fire resistant, an easy to install, lightweight and efficient thermal and acoustic insulation solution in HVAC for rectangular ventilation and smoke extraction ducts up to EI 120. Installation guidelines must be followed and all ISOVER U Protect components used.



THERMAL INSULATION

High class insulation keeps the medium temperature as designed and secures system operating with minimal losses



FIRE RESISTANCE

Passive fire protection system



SOUND INSULATION

The ability of mineral wool to act as a spring results in reducing vibration and noise emissions in industrial processes



FAST INSTALLATION

Thanks to its light weight and high flexibility, it can be installed by one person without any special equipment



CHARACTERISTICS	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES							STANDARD
Thermal conductivity	T	[°C]	10	50	100	150	200	300	400	EN 12667
	λ	[W/(m·K)]	0.033	0.035	0.040	0.047	0.054	0.072	0.096	
Thermal behaviour			< 400 °C (tape and alu-facing 80 °C)							EN 14706
Melting point	T	[°C]	> 1,000 °C							-

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES	THICKNESS [mm]	STANDARD
Acoustics	α_w	-	Weighted sound absorption coefficient = 0.90	-	EN 11654
	-	kPa·S/m³	Specific airflow resistance Afr = 60 (measured without facing)		EN 29053

CHARACTERISTIC (FIRE RESISTANCE)	SYMBOL	UNIT	QUANTITIES AND MEASURED VALUES					STANDARD
Duct orientation			EI15	EI30	EI60	EI90	EI120	EN 1366-1 EN 1366-8
Horizontal thickness		mm	30	40	60 (70)	70 (80)	90	
Vertical thickness	-		40	50	80	90		

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES	STANDARD
Reaction to fire	-	-	Non-combustible, Euroclass A1	EN 13501-1
Chemical behaviour	-	-	Silicone-free, Sulphide-free	AGI Q 132
Application field	-	-	U Protect Slab 4.0 is part of ISOVER system for providing fire resistance in HVAC applications by using high performing ULTIMATE mineral wool. U Protect slabs provides fire resistant, an easy to install, lightweight and efficient thermal and acoustic insulation solution in HVAC for rectangular ventilation and smoke extraction ducts up to EI 120	EN 1366-1 EN 1366-8
Water behaviour	-	-	Hydrophobic	EN 12086
CE marking	-	-	MW-EN14303-T4-ST(+)-400-MV2	EN 14303
Quality management	-	-	ISOVER is certified according to EN ISO 9001 and EN ISO 14001	EN ISO 9001 EN ISO 14001

DELIVERY FORM: STANDARD DIMENSIONS / PACKAGING INFORMATION*

Thickness d [mm]	Width b [mm]	Length [mm]	m²/pack	m²/pallet
100	600	1,200	2.88	34.60
30	600	1,200	9.36	112.30
40	600	1,200	7.20	86.40
50	600	1,200	5.76	69.10
60	600	1,200	4.32	51.80
70	600	1,200	3.60	43.20
80	600	1,200	3.60	43.20
90	600	1,200	2.88	34.60

* Check availability and delivery details from your local ISOVER supplier.



www.isover-technical-insulation.com

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