

# ISOLE+

## DOP 36

MW - EN 13162 - T3 - WS

**RISE**  
Research Institutes  
of Sweden



# TERMOLAN

ISOLAMENTOS TERMO-ACÚSTICOS, S.A.



Protection against fire



Thermal insulation



Acoustical insulation

### DEFINITION:

Semi rigid slabs of uniform thickness made of stone wool fibres bonded with synthetic binder, without facing.

### APPLICATIONS:

Multiple applications in various constructive solutions, as thermal and acoustic insulation.

### BENEFITS:

- Easy and quick application;
- Easy adaptation to structural elements;
- Stability: applied vertically neither bend nor breaks;
- Flexibility and cohesion;
- Very good insulation performances;
- Fire safety;
- Good water behaviour;
- Inert product respecting the environment (CFC and HCFC free).

### PRESENTATION:

Slabs packed in packages. Options:

THICKNESS (mm) [NP EN 823]	DIMENSIONS (mm) [NP EN 822]
40 to 100	1350x600

### Tolerances:

THICKNESS (CLASS T3): -3 % OR -3 mm <sup>a)</sup> TO +10 % OR +10 mm <sup>b)</sup>

LENGTH: ±2 %

WIDTH: ±1.5 %

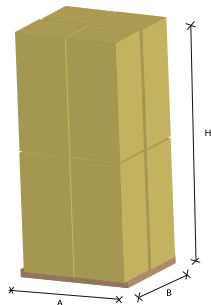
<sup>a)</sup> Is valid the greatest numerical tolerance

<sup>b)</sup> Is valid the lowest numerical tolerance

### PACKAGING:

Packages packed in retractile plastic.

Geometry (AxBxH):



## PHYSICAL PROPERTIES OF MATERIALS

### THERMAL RESISTANCE, $R_D$

EN 12667  
EN 12939

THICKNESS (mm)	40	50	60	75	80	100
$R_D$ (m <sup>2</sup> .K/W)	1.10	1.40	1.70	2.10	2.25	2.85

### THERMAL CONDUCTIVITY, $\lambda_D$

EN 12667  
EN 12939

Declared value:  $\lambda_D = 0.035$  W/m.K

### FIRE REACTION

EN 13501-1  
ISO 1182

Incombustible - **EUROCLASS A1**

### WATER ABSORPTION

NP EN 1609

$WS \leq 1.00$  kg/m<sup>2</sup>

### WATER VAPOUR DIFFUSION FACTOR

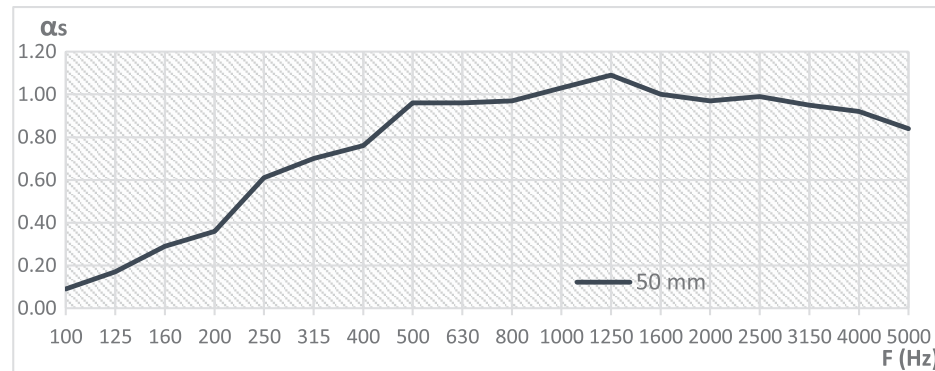
EN 12086

$\mu = 1.30$

### ACOUSTICAL ABSORPTION COEFFICIENT, $\alpha_s$

EN ISO 354

THICKNESS 50 mm	F (Hz)	100	125	160	200	250	315	400	500	630
	$\alpha_s$		0.09	0.17	0.29	0.36	0.61	0.70	0.76	0.96
	F (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
	$\alpha_s$		0.97	1.03	1.09	1.00	0.97	0.99	0.95	0.92



### EQUIVALENT ABSORPTION COEFFICIENT, $\alpha_w$

EN ISO 11654

$\alpha_w = 0.85$  (MH) CLASS B

### OTHER PROPERTIES

SQUARENESS [NP EN 824]

Deviation length / width < 5mm/m

FLATNESS [NP EN 825]

Deviation ≤ 6 mm

DIMENSIONAL STABILITY,  $\Delta\epsilon$  [NP EN 1604]

23 °C / 90% HR: the relative deviation (length and width) doesn't exceed 0.1%

AIR FLOW RESISTIVITY, AFR [EN 29053]

> 10 kPa.s/m<sup>2</sup>



# TERMOLAN

www.termolan.pt/en | www.rocterm.com | termolan@termolan.pt