

CQ 70**CQ 70 AL**

DOP 54

DOP 55

MW - EN 14303

**RI
SE**Research Institutes
of Sweden**TERMOLAN**

ISOLAMENTOS TERMO-ACÚSTICOS, S.A.



Protection against fire



Thermal insulation



Acoustical insulation

DEFINITION:

Pipe sections of uniform thickness cutted from blocks, made of stone wool fibres bonded with synthetic binder, without facing- CQ 70 - or aluminium faced - CQ 70 AL.

APPLICATIONS:

Multiple applications as thermal (both hot and cold) and acoustical insulation of pipes for steam, fluid transport pipe work, central heating and air conditioning systems. Product also ideal for acoustical insulation of water evacuation pipes.

BENEFITS:

- Easy and quick application;
- High insulation performances;
- Very good mechanical performance;
- Fire safety;
- Chemically neutral and non corrosive;
- Excellent water behaviour;
- Inert product respecting the environment (CFC and HCFC free).

PRESENTATION:

Pipe sections. Options:

THICKNESS (mm) [NP EN 823]	DIMENSIONS (mm) [NP EN 822] / [EN 13467]
25 to 100	1200×Φ*

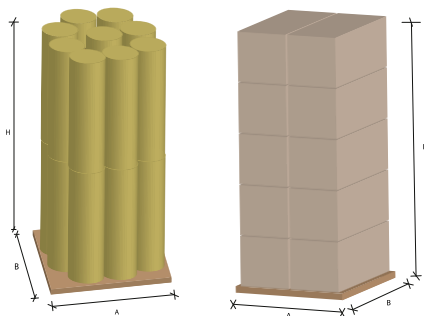
* Φ are presented in MANUFACTURING DIAMETERS

Tolerances:

THICKNESS AND DIAMETER: CLASSES T8 - T9
LENGTH: ± 5mm

PACKAGING:

Pipe sections in retractile plastic bags or cardboard boxes. Geometry (A×B×H):

**PHYSICAL PROPERTIES OF MATERIALS****NOMINAL DENSITY****70 kg/m³**EN 13470
ASTM C302**MAXIMUM SERVICE TEMPERATURE****ST(+) = 400 °C**EN 14706
ASTM C447
ASTM C411

NOTE: The service temperature of the aluminum facing must not exceed 90 ° C.

SPECIFIC HEAT FACTOR**c = 0.84 kJ/kg.°C****MANUFACTURING DIAMETERS, Φ**NP EN 823
EN 13467

DIAMETER		THICKNESS (mm)								
(mm)	(in)	25	30	40	50	60	70	80	90	100
18	3/8"	○	○	○	○	○	○	○	○	○
22	1/2"	○	○	○	○	○	○	○	○	○
27	3/4"	○	○	○	○	○	○	○	○	○
34	1"	○	○	○	○	○	○	○	○	○
42	1 1/4"	○	○	○	○	○	○	○	○	○
49	1 1/2"	○	○	○	○	○	○	○	○	○
60	2"	○	○	○	○	○	○	○	○	○
76	2 1/2"	○	○	○	○	○	○	○	○	○
89	3"	○	○	○	○	○	○	○	○	○
102	3 1/2"	○	○	○	○	○	○	○	○	○
114	4"	○	○	○	○	○	○	○	○	○
140	5"	○	○	○	○	○	○	○	○	○
169	6"	×	○	○	○	○	○	○	○	○
219	8"	×	○	○	○	○	○	○	○	○

LEYENDA:

- - Manufacturing in pipe sections
- - Manufacturing in cutted pipe sections
- ×

Not manufactured



PHYSICAL PROPERTIES OF MATERIALS

THERMAL CONDUCTIVITY, λ

EN ISO 8497
ASTM C335

MEAN TEMPERATURE (°C)	10	50	100	150	200	250	300	350	400
λ (W/m.K)	0.033	0.039	0.046	0.055	0.066	0.078	0.093	0.109	0.128
λ (kcal/h.m.K)	0.028	0.034	0.040	0.047	0.057	0.067	0.080	0.094	0.110

FIRE REACTION

EN 13501-1
ASTM E84

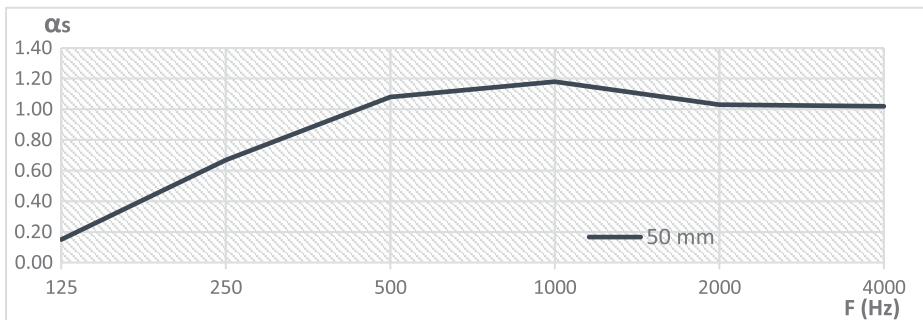
CQ 70 Incombustible - **EUROCLASS A1L**

CQ 70 AL Not determined - **NPD**

ACOUSTICAL ABSORPTION COEFFICIENT, α_s

EN ISO 354

THICKNESS 50 mm	F (Hz)	125	250	500	1000	2000	4000
α_s		0.15	0.67	1.08	1.18	1.03	1.02



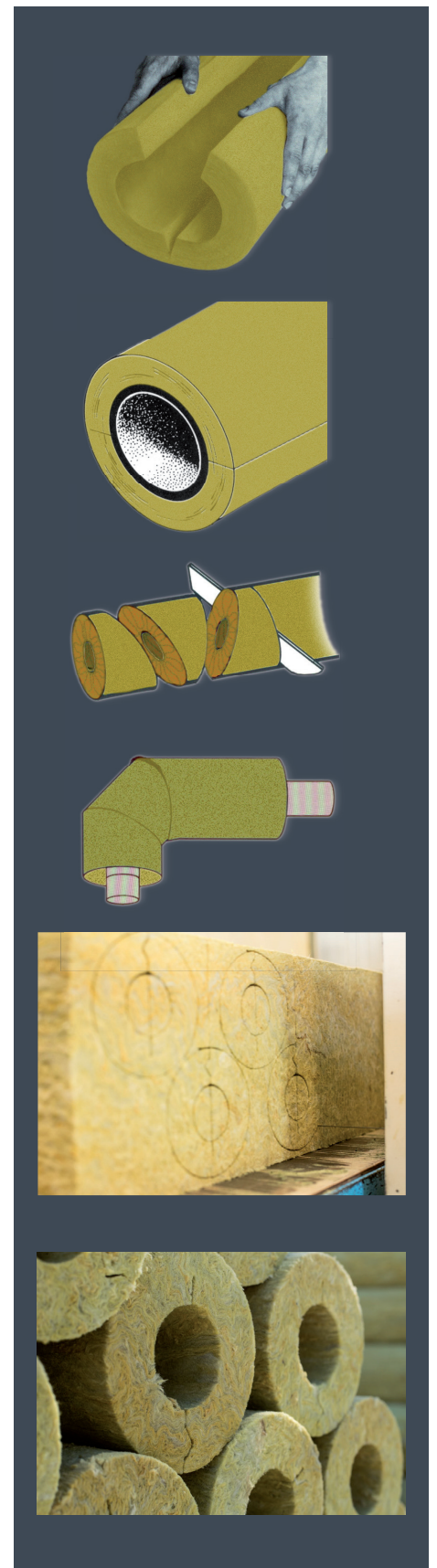
EQUIVALENT ABSORPTION COEFFICIENT, α_w

EN ISO 11654

$\alpha_w = 1.00$ CLASS A

OTHER PROPERTIES

DIMENSIONAL STABILITY, $\Delta\epsilon$ [NP EN 1604]	23 °C / 90% HR: the relative deviations (length and width) doesn't exceed 0.0%
WATER ABSORPTION [ASTM C1104 / C1104M]	WS $\leq$ 1.00 kg/m ²
WATER VAPOUR PERMEABILITY [EN ISO 12572]	0.05 g/m ² /24h (depending of the aluminium facing)
WATER VAPOUR DIFFUSION FACTOR [EN ISO 14303]	$\mu = 1.00$
AIR FLOW RESISTIVITY [EN 29053]	AF > 40 kPa.s/m ² (for unfaced product)



TYPE APPROVED PRODUCT
MED - B / MED - D

DNV

