

Technical Data Sheet

FM Insulation Supplies

Therm-o-Lag Bio-soluble Rockwool Slab, Wired Mat and Sectional Pipe insulation

These products are supplied as semi-rigid & rigid sheets, flexible rolls with stainless steel or galvanised wire facing and Sectional Pipe Sections

Typical Insulation properties

density kg/M3	Maximum continuous service temp C	Thermal conductivity (W/m.K)				
		mean temperature C				
		23	100	200	300	400
60	350 C	0.035	0.051	0.074	0.104	
80	450 C	0.035	0.049	0.069	0.094	0.123
100	650 C	0.033	0.046	0.064	0.088	0.115
125	650 C		0.047	0.063	0.085	0.110
140	650 C		0.045	0.067	0.094	0.115

N.B. Properties noted for 125kg/m3 relate specifically to moulded pipe sections

density kg/M3		Typical Sound Absorption Coefficients				
		Frequency (Hz)				
		250	500	1000	2000	4000
60	kg/m3	0.7	1.19	1.04	1.14	1.06
80	kg/m3	0.91	1.19	1.2	1.07	1.05
100	kg/m3	0.97	1.18	1	1.04	1.02
140	kg/m3	0.74	1.2	1.2	0.98	1.14

R-values based on AWTA tests No. 19-006680 March 2020 (100kg/m3x 100mm) & 19-006685 March 2020 (100kg/m3 x 25mm)

R-values based on AWTA tests No. 20-000607 July 2020 (80kg/m3x 100mm) & 20-000606 July 2020 (80kg/m3 x 50mm)

R-values based on AWTA tests No. 24-00191 (60kg/m3 x 50mm) & 24-00190 (60kg/m3 x 100mm July 2024

100kg/m3 thickness	R-value	80kg/m3 thickness	R-value	60kg/m3 thickness	R-value
25mm	0.73				
40mm	1.17				
50mm	1.46	50mm	1.45	50mm	1.45
80mm	2.34	80mm	2.24	80mm	2.24
90mm	2.63	90mm	2.52	90mm	2.52
100mm	2.95	100mm	2.80	100mm	2.80

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Fire performance properties

When tested to AS 1530 part 3 1999 the following results were obtained
(refer AWTA Test no. : 7-552135-CN 03/5/2007)

<u>Ignitability index</u>	0
<u>Spread of flame index</u>	0
<u>Heat evolved index</u>	0
<u>Smoke developed index</u>	0-1

Combustibility Test For Materials

When tested to AS 1530 part 1 1994 the material was NOT deemed combustible
(refer CSIRO Report No. FNC10774 & FCN12601)

Formaldehyde ASTM D5116

When tested by CETEC for the presence of Formaldehyde emissions the result was below the detection limit

Volatile Organic Compounds ASTM D5116

When tested by CETEC for the presence of Volatile Organic Compounds the result was below the detection limit

Zero ODP

Rockwool products packaged & marketed under the Therm-o-lag brand have been certified by the manufacturer as being free of ozone depleting substances.

In addition no ozone depleting substances have been used in the manufacturing process

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Moisture Resistance : FMIS rockwool products are unaffected by moisture. After wetting the products will, once dried out, retain their thermal properties.

All insulation should be installed in such away as to prevent moisture ingress

Off-gassing : All rockwool products contain resin & solvent refined oils to bind the fibres together and minimise the release of fibres during handling of the material.

At temperatures of approx. 180C initial off-gassing may occur.

Chemical Neutrality : FMIS rockwool products are chemically neutral and will not cause nor promote corrosion. The products are suitable for use over austenitic stainless steel (ASTMC795-77) when measured in accordance with standard method ASTM C 692-77 (corrosion test) and ASTM C871-77 (chemical analysis)

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tech data sheet updated: 20-8-2024