



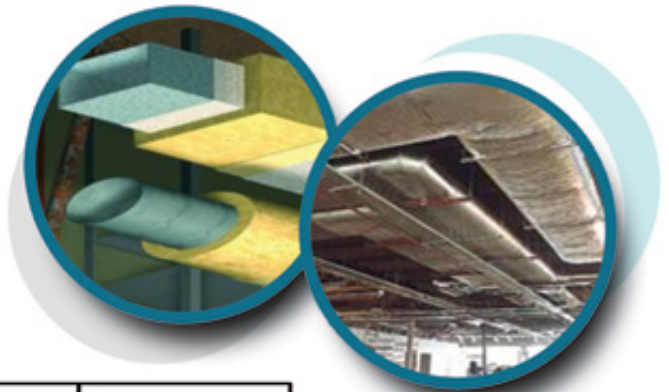
ROCKAL DUCT WRAP ROCKAL DW30-DW40-DW56

DESCRIPTION:

ROCKAL DUCT WRAP Products are composed of mineral rock fibers, processed from the volcanic basaltic rocks, fibers are bonded together with a thermosetting binder which are giving flexibility and resilience to the product, ROCKAL DUCT WRAP are complying with ASTM C-553-92 type VII.

APPLICATION:

- For thermal and acoustical insulation to the exterior of rectangular and round .
Heating, Ventilating and air conditioning duct work at temperature up to 400 °C (Hot Side)
- Used in commercial, Industrial, and residential Buildings especially for small areas
- Helps In controlling heat Loss or gain and condensation During system operations.



AVAILABLE PRODUCTS:

Product Name	Dimension		Density kg/m ³ Rang (30 To 56)	Thickness (mm)	Thermal Conductivity W/mk @ 10 °C
	Length (m)	Width (m)			
ROCKAL DW30	12.5	1.2	30	25 & 50	0.035 - 0.04
ROCKAL DW40	12.5	1.2	40	25 & 50	
ROCKAL DW56	12.5	1.2	56	25 & 50	





NOTE:

any other sizes can be produced upon special order

FACING:

ROCKAL DUCT WRAP blanket are faced with reflective vapor brier material as aluminum foil, BGT and BGF - ASJ

THERMAL CONDUCTIVITY:

(0.35 TO 0.04) W/M K@ 10 °C (ASTM C-177)

AVAILABLE PRODUCTS:

MEAN TEMPERATURE (°C)	THERMAL CONDUCTIVITY W/MK		
	56 KG/M3	40KG/M3	30KG/M3
50	0.043	0.044	0.045
100	0.047	0.048	0.049
150	0.052	0.053	0.054
200	0.063	0.065	0.065
250	0.071	0.072	0.073
300	0.075	0.076	0.077
350	0.090	0.092	0.094



TECHNICAL PROPERTIES:

PROPERTY	VALUE	PRODUCT COMPLIANCE
SERVICE TEMP.(HOT SIDE) ROCKWOOL MELTING TEMP. OUTER FACING LIMITING TEMP.	400 °C 1500 °C 100	ASTM C 411
FIRE CLASSIFICATION FLAME SPREAD INDEX SMOKE DEVELOPED	NON- COMBUSTIBLE < 10 < 15	ASTM E 136, BS 476 P , 4, DIN 4120, IMO RESOLUTION A 4729 (XII) ASTM E 84 ASTM E 84
MOISTURE SORPTION	< 1 % (BY WEIGHT, WATER REPELLANT NON HYGROSCOPIC NON CAPILLARY NO EFFECT ON ITS STABILITY	ASTM C 1104
CORROSION RESISTANCE SOLUBLE CHLORIDES	PH 7 OR SLIGHTLY ALKALINE 6 PPM	ASTM C 871 , ASTM C 692-77 (CORROSION TEST) ASTM C 871-77 (CHEMICAL TEST)
FUNGI RESISTANCE	DOES NOT ENCOURAGE FUNGI GROWTH	(ASTM C -665)
NOISE REDUCTION COEFFICIENT (NRC)	0.85	ASTM C 423-90A
ASBESTOS CONTENT	DOES NOT CONTAIN : AMPHIBOLE { CA2 MG3(OH)2 SI8 O22} NOR SERPENTINE ASBESTOS {MG3 SI2 (OH)4 O5}	
ENVIRONMENT		CFC AND HCFC FREE
EXPANSION AND CONTRACTION		COMPLETELY STABLE





ASSEMBLY DETAILS:

Length of each section will correspond to duct perimeter plus 8 times the insulation thickness plus 5 cm for making a flap that will be stapled at the other side of the blanket, closing union with aluminum adhesive tape of , at least 50 mm wide .

Unions between sections will be also sealed with aluminum adhesive tape .

for rectangular ducts with great section (LARGEST SIDE ≥ 600 MM), the blanket should be adjusted with adhesive straps or meshers (5 or 6 for in2) fixed by a welded bar or hit to the duct follow the advises of the aluminum adhesive tape producer in order to assure the needed air vapor retarded .

SOUND ABSORPTION COEFFICIENT FOR DENSITY 40KG/M3

INSULATION THICKNESS (MM)	SOUND ABSORPTION COEFFICIENT AT FREQUENCIES (HZ)						
	125	250	500	1000	2000	4000	NRC
25	0.33	0.58	0.62	0.88	0.96	1.04	0.70
50	0.38	0.63	1.10	1.07	1.05	1.05	0.95

CONDENSATION:

The vapor resistance of ROCKAL ROCK WOOL is negligible for vapor diffusion through a structure . It is usually considered to be zero when compared with other building materials .

PACKING:

each roll packed in polyethylene bag protected from uv light rays and fixed with sticker.

INSTALLATION GUIDELINES:

Cut the lamella mat to the right length:

Circular Air Ducts: (Diameter+2 x thickness insulation) +3.14+30 mm

Right-angled ducts:

Circumference +8x thickness insulation +30mm For Ducts with flanged Joints, we recommend fitting the insulation to the exact width between the flanged joints ROCKAL DUCT WRAP can be mechanically fixed using self-adhesive stick pins, adhesive coating or tie rods according .

To preference .where there is a risk of condensation on the flange , place an additional loose strip over the flange joint .all joints are to be securely taped with an aluminum tape (e.g. Rockwool Alufix ; see below)with a minimum width of 75mm. provide vents ducts Joints.

Storage:

ROCKAL DUCT WRAP must be stored in a dry, frost – free environment in the original packing

