



ROCKAL FELT LDB40-LDB50-LDB60 ROCKAL FELT HDB70-HDB80-HDB90-HDB100

DESCRIPTION:

ROCKAL felt 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 felts are normally produced at low densities and Complying with **ASTM C-553-92 & ASTM C -665 Requirements.**

APPLICATION:

- For Thermal and Acoustical Insulation for cold stores, refrigerated tanks & curved duct.
- Used in Commercial, Industrial, and Residential Buildings Especially For prefabricated houses , cavity walls , steel structure buildings under or over purlins and double cladding system , sandwich system , wall partitions ,and poultry farms and suspended ceiling .
- Helps In Controlling Heat Loss Or Gain And Condensation aluminum foil acts as a vapor barrier prevent condensation.

Product Name	Dimension		Density kg/m ³ Rang (30 To 56)	Thickness (mm)	Thermal Conductivity W/mk @ 10 °C
	Length (m)	Width (m)			
ROCKAL LDB 30	12.5	1.2	30	30&100	0.035 TO 0.04
ROCKAL LDB 40	12.5	1.2	40	30&100	
ROCKAL LDB 50	12.5	1.2	50	30&100	
ROCKAL LDB 60	12.5	1.2	60	30&100	

NOTE:

any other sizes can be produced upon special order

FACING:

ROCKAL Felts are faced with reflective vapor brier material as aluminum or non-reflective facing (kraft paper), bgt, bgf and vinyl (colored)

THERMAL CONDUCTIVITY:

(0.37 W/M K@ 10 °C (ASTM C-177))

MEAN TEMPERATURE (°C)	THERMAL CONDUCTIVITY W/MK			
	60 KG/M3	50 KG/M3	40 KG/M3	60 KG/M3
50	0.042	0.043	0.044	0.045
100	0.050	0.053	0.048	0.057
150	0.061	0.066	0.053	0.071
200	0.074	0.078	0.065	0.085
250	0.089	0.099	0.072	0.109





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	
SHOT CONTENT	< 25% BY WEIGHT	

SOUND ABSORPTION COEFFICIENT FOR DENSITY 50KG/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 or ROCKAL ROCK WOOL is negligible
For vapor diffusion through a structure .
It is usually considered to be zero when compared with other
bulding materials

PACKING:

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

