



PURCHASE SPECIFICATION FOR LRB ROCK WOOL MATTRESS

01. Material shall be Rock wool.
 02. Material shall conform to Group-3 and Group-4 of IS:8183(Latest), Density 100 Kg/cu.m for Group-3 and 150 Kg/cu.m for Group-4.
 03. **Wire netting :**
Wire dia. = 0.56 mm (24 SWG) and Aperture 13 mm.
 - a). GI Wire netting on one side up to 400°C.
 - b). GI Wire netting on both sides up to 400°C
 - c). SS Wire netting on one side above 400°C
 - d). SS Wire netting on both sides above 400°C.
 04. **Tieing Wire:**
 - a). 0.4 mm GI Wire – for GI wire netting.
 - b). 0.4 mm SS Wire – for SS wire netting.
– Continuous stitching of equal spacings.
 05. **Mattress:**
Thickness : 40,50,60,70,75 mm
 06. **Inspection and Testing procedure :**
As mentioned in the Annexure (Drg.No. 4-33-021-00834/04)
 07. **Packing:** The material shall be packed in polythene laminated HDPE or polythene laminated polypropelene bags with Marking details.
 08. **Marking:** The following details are to be legibly written on the packing as well as on a sheet of paper which is to be kept inside, between wool and wire netting.
 - a). Supplier's Name, b). Customer Number/Project,
 - c). Purchase Order Number/Date d). Serial No.of Packing,
 - e). Batch No. f). Thickness of Mattresses,
 - g). No.of Mattresses in the Packing, h). Weight of the packing in Kgs.
- Caution Note:**
"Always store under covered shed and on raised platforms"
shall also be marked on the packing.

REV: 03	ALTD: A.R.JOTHI	Group-04 and 150 Kg/cu.m added in sl.no.02.	REV: 06	ALTD:		
05.04.10	APPD: C.G.S			APPD:		
REV: 02	ALTD: A.R.JOTHI	Revision 01 marked on drg.no. 4-33-021-00834.	REV: 05	ALTD: A.R.JOTHI	Sl.nos. 03,04,06 and 07 text are altered.	
14.07.07	APPD: C.G.S		31.03.12	APPD: C.G.S		
REV: 01	ALTD: A.R.JOTHI	Packing details altered as per Purchase request.	REV: 04	ALTD: A.R.JOTHI	SS wire added in sl.no. 03 and 04.	
25.05.07	APPD: C.G.S		10.02.11	APPD: C.G.S		
INSULATION	PREPARED	A.R.JOTHI GURUNATHAN.		21.06.05	DRAWING NO : 4-33-021-00833	REV 05
	CHECKED	C.GUNASEKARAN		22.06.05		
	APPROVED	C.S.ATHITHYAN		22.06.05		



INSPECTION & TESTING REQUIREMENTS FOR LRB ROCK WOOL MATTRESS (Annexure to 4-33-021-00833/05)

1.0 ROUTINE TEST:

The following tests are to be conducted for every batch.

- a). Bulk density Kg/Cu.m , Tolerance $\pm 10\%$
- b). Shot content
- c). Percentage of moisture
- d). Chloride content
- f). Alkalinity
- g). Sulphur content

2.0 TYPE TEST:

The following type tests shall be done once in three months.

- a). Moisture absorption
- b). Incombustability
- c). Heat resistance at 550°C for Group-3 and 750°C for Group-4.
- d). Resistance to vibration and jolting
- e). Compressibility and resilience
- f). Fibre diameter (7 microns max.)

The above Tests are to be conducted as per IS:3144 (Latest) and acceptance standard shall be IS:8183 unless specified otherwise.

3.0 THERMAL CONDUCTIVITY TEST:

The above test shall be conducted once in twelve months at any one of the following approved laboratories as per IS:3346.

- a). Dept of Mechanical Engineering , IIT, Chennai.
- b). Central Building Research Institute, Roorkee.
- c). PIBCO, New Delhi.
- d). NIRMA University, Ahmedabad.

A Test Certificate containing all the above results shall be furnished.

REV: 03	ALTD: A.R.JOTHI	Annexure drg.no. revised as 4-33-021-00833/04.	REV: 06	ALTD:	
11.05.11	APPD: C.G.S			APPD:	
REV: 02	ALTD: A.R.JOTHI	Temp for heat resistance test for group-4 included.	REV: 05	ALTD:	
05.04.10.	APPD: C.G.S			APPD:	
REV: 01	ALTD: A.R.JOTHI	Periodicity of TC test changed from 6 to 12 months.	REV: 04	ALTD: A.R.JOTHI	Approved laboratories updated for TC test.
14.07.07	APPD: C.G.S		31.03.12	APPD: C.G.S	
INSULATION	PREPARED	A.R.JOTHI GURUNATHAN.	21.06.05	DRAWING NO : 4-33-021-00834 REV 04	
	CHECKED	C.GUNASEKARAN	22.06.05		
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