

RAIL COACH FACTORY, KAPURTHALA

MD46111

•Date: 27.08.2011

Sub: Specification no. MDTS229 Rev-00 for Technical Requirements of Scrapper matting on Lavatory Floor.

Please find enclosed a copy of specification no MDTS229 Rev-00 for Schedule of Technical of Requirements of scrapper mating on Lavatory Floor. This general specification is issued in lieu of earlier specification of scrapper matting with description as 'Scrapper Matting 3 M Nomad 9100 or equivalent.'

Encl. MDTS229 Rev-00


Dy CME/D-1

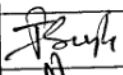
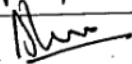

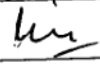
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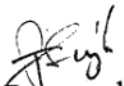
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CQM, CPLE, CWE/Fur, CMM/RCF, CMT, CMM/TKJ
SSE/Record
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(3)

Rail Coach Factory Kapurthala	SCHEDULE OF TECHNICAL REQUIREMENTS OF SCRAPPER MATTING ON LAVATORY FLOOR OF IR COACHES.	MDTS- 229 REV - 00 Page 1 of 4 Date 25.08.2011
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Name	Designation	Signature	Date	Level
T.P.Singh	SSE/D/Fur-2		25/8/2011	Prepared
Pradeep Sharma	SME/DEV-1		25/8/11	Agreed
Prashant Kumar	Dy. CME/D-1		25/8/11	Reviewed
Parmanand Singh	CDE		27/8/11	Approved


Prepared By


Agreed By

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1. Scope:

The product is to be used in Coach toilet wet floor to provide barefoot slip resistant protection and walking comforts. This specification covers technical, general & testing requirements of matting to be used to remove dirt elements in the lavatory floor in IR Coaches. Its open construction allows dirt and debris to fall through the mat for easy cleaning, while helping to prevent dirt from being put into the floor.

2. General Requirements :

- 2.1. The intended use of the scrapper matting shall be for all type of lavatories of IR coaches
- 2.2. The tenderer should submit clause wise comments on the specification without which RCF reserves the right to summarily reject the offer. Deviations, if any should be indicated against the relevant clause.
- 2.3. Material Data sheet & Test results from NABL or reputed Test Lab to be submitted with offer.
- 2.4. Any portion / particular of scrapper matting should not fall apart from any joints within the warranty period.
- 2.5. Color of the scrapper matting should not fade within the warranty period.
- 2.6. Contractor shall submit OEM's Warranty card confirming the warrantee period, alongwith each lot of supply.
- 2.7. Tenderer shall submit technical data sheet of OEM detailing material, construction, Design, Color shade and other relevant documents along with offer and pilot sample.
- 2.8. Tenderer should submit test report, from the OEM, of the properties mentioned in the table given in clause 4.
- 2.9. Railway may get the material tested from own lab or outside lab for the tests mentioned in the specification.
- 2.10. Tender wise authorization from the OEM should be submitted along with the offer.

3. Technical Requirements:**3.1 Design & Material:**

- 3.1.1 Z Web shaped scrapper matting (Figure 1)
- 3.1.2 The all PVC Z edge matting should have the dipped Z edge to provide scrapping technology to remove dirt elements.


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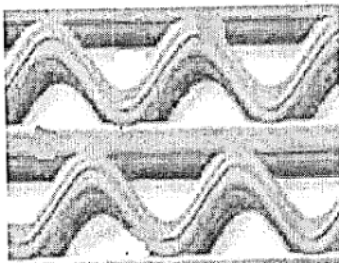


Figure 1

- 3.2 The product should be coated with antimicrobial coating to eliminate the fungus and bad odors in the mat, a confirmation from OEM in this regards must accompany with the offer.

4. Technical Specifications:

S.No.	Property	Value	Methods of tests
1.	Weight (minimum)	6.25 lbs./yd ² (3.4 kg/m ²)	ASTM D418-68
2.	Width (minimum)	35.8 inches (0.91 m)	
3.	Thickness (minimum)	5.3 mm	ASTM D418-68
4.	Microbiological Properties	Inhibiting to fungal growth (No growth = 0%)	ASTM G-21-90
5.	Flammability	Passes (as per test method)	DOCF1-70(PILL TEST)
6.	Flooring Radiant Panel Test	>1.0 watts/cm ² (no ignition)	ASTM E-648 Flooring
7.	Electrical Properties	0.9 KV	AATCC-134
8.	Backing	Un backed	
9.	Environmental Resistance	-5° C to 70° C	It is service condition
10.	Coefficient of Friction		ASTM D-1894
	Dry Leather	1.2	
	Dry Rubber	1.1	
	Wet Leather	1.2	
	Wet Rubber	1.1	
	Oiled Leather	1.1	
	Oiled Rubber	1.0	

[Signature]
Prepared By

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5. Prototype Approval:

Pilot sample should be got approved before bulk supply.

6. Marking:

- 6.1 Each roll/sheet shall be legibly marked on back at a distance 2 Metres approx by hot stamping or indelible ink with the following details:

- 6.1.1 Manufacture's initial/trade mark, month and year of supply.
- 6.1.2 Each carton shall be marked with product name, size, color, and manufacturer's trade name or mark.

7. Colour:


The preferred color is grey or as desired by the purchaser.

8. Packing:

The material shall be suitable packed to avoid distortion damage etc. during transit.

9. Warranty:

The Scrapper Matting supplied shall be deemed to bear a warranty against defective materials/workmanship and performance for a minimum period of 30 months from the date of supply or 24 months from the date put into service whichever is earlier. The product shall be warranted against any cracking, discoloring/fading and deformation during service. The thickness of Scrapper Matting should not decrease by more than 5% of original thickness during minimum service life of 3 years. In case the material shows any defect/fails within the warranty period, it shall be replaced without any cost by the supplier.


Prepared By


Agreed By

No. RBL-MD46901

Date: 18.04.2026

Dy.CME/MP/Fur,
MCF/RBL

28/04/26

Sub: Furnishing PSL and drawings for LWCBC with intermediate heating capacity (63.5 kW approx.).

Ref: i. Dy.CME/MP/Fur's letter no. M-400/MCF/RBL/B/Fur-34 dated 11.04.2026.

ii. RCF/KXH's letter no. RCF/HSQ/ED/LHB/2008 dated 09.04.2025.

iii. This office letter no. RBL-MD46901 dated 03.05.2025.

In reference to above, detail of applicable PSL for 26 nos. of LWCBC coaches with intermediate heating capacity, which is compatible with Shell PSL (MD663 Ver-04), is as under:

Coach variant	Furnishing PSL
LWCBC coaches with intermediate heating capacity	MD664 Ver-04

Following additional modifications in PSL (MD664 Ver-04) are also required:

- Modification/additionally required furnishing items as mentioned in letter (Ref.-iii above)
- Builder plate shall be used as per drg. No. MCF-LE64101 alt nil in lieu of CC26237 alt-c (Item no. 8 of drg no. LH26104 alt-a)
- Furnishing Plate shall be provided as per drawing no. MCF-LE64102 alt-b instead of CC64116 alt-f (Item no.8 of drg no. LH64100 Alt-g).
- IoT based Water Level Indicator shall be provided as per RDSO specification no. IS/RDSO-CG/002:2025
- CCTV system shall be provided as per RDSO Specification RDSO/SPN/TC/106 /2025 Version 3.1 and Drawing no. MI008206 alt-b.
- Insulation of coach:
 - Heat insulation (Drawing no. 1 10113.0.21.120.001 Alt-DR1 (Item-18 of LH90012 Alt-Nil) shall be used with following modification:
Thermal cum sound insulation material (thickness=25mm mm) to be used as per MCF specification no. MMDTS18009 Rev.4 in place of thermal insulation foam [thickness=25mm as per MDTs 28001 Rev.3].
Thermal cum sound insulation material (thickness=50mm) to be used as per MCF specification no. MMDTS18009 Rev.4 in place of Resin bonded glass wool (thickness=60mm as per MDTs 207 Rev.5.2) & thermal insulation foam [50mm as per MDTs 28001 Rev.3].
 - Sound insulation (Drawing no. 1 10113.0.21.110.001 Alt-CR1 (Item-17 of LH90012 Alt-Nil) deleted.
- Painting of entrance body side doors shall be done to silver grey to RAL-7001 as per RCF letter no. MD46411 dated 19.12.2022. Accordingly, drawing no. LH83106 Alt-Nil not be followed for the same.
- Fire extinguisher drawings no. LH64011 alt- b & specification no. RCF-MD-PS-2021-2 Rev-02 is to be used in place of 1 10113.0.75.100.001 alt-Nil.

o/c

MCF/RBL



9. Fire Detection cum suppression system (FDSS) is not mentioned in GI drawing no. LH90012 alt-Nil. Hence, as an additional item, FDSS system shall be provided as per RDSO Specification No. IS/RDSO/CG/S/22001 with Amendment-1.
10. Sanitary facility shall be provided as per drg. no. LH63001 alt-j instead of LH63001 alt-h. Additional improvements/modifications/changes shall be done as detailed in "Annexure-I- LWCBC-Intermediate heating capacity".
11. Bio-Digester system (item no. 4 & 5 of drg. no. LH63001 alt-j) (without Bolted type) shall be provided as per drg. no. MI005710 alt-m instead of MI005710 alt-e. Chlorine Filter shall be provided as per drg. no. MI005548 alt-d instead of MI005548 alt-b.

OR

Bio-Digester system (item no. 4 & 5 of drg. no. LH63001 alt-j) (Bolted type) shall be provided as per drg. no. MI005710 alt-n instead of MI005710 alt-e.

Furnishing Planning may please finalize regarding procurement of type of Bio-Digester system compatibility with available Shell.

12. Body side door/Entrance door of LWCBC coach shall be as per Drg no. MI007545 alt-nil instead of LA51100 (item no 3 of LH56100 alt-j).
13. Grips & Labels mounting arrgt. c'g no. LH26104 alt-a shall be used instead of LH26100 alt-a

In view of above, please find enclosed one (01) no. DVD containing PSL and drawings of furnishing items for further necessary action please

Further to above, Confirmation of drawings may be taken from the Design office before procurement.

Encl: 01 no. DVD

[Signature]
18-42-26
Dy.CME/Design-II
MCF/RBL

Copy to: for kind information please.

CDE

CPLE

CEDE

Dy.CME/D-I

Dy.CME/MP/S&B

Dy.CEE/D&D: May please examine from Electrical point of view & advise if any modification required.

