

SCHEDULE OF REQUIREMENTS FOR 'KEVLAR' BASED PACKING SHIMS

| NAME | DESIGNATION | SIGNATURE | DATE | LEVEL |
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| Issue/Rev | Details of Changes | Date |
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SCHEDULE OF REQUIREMENTS FOR 'KEVLAR' BASED PACKING SHIMS
1.0 FOREWARD

This schedule has been adopted for the "kevlar" based packing shims cut from sheets. The shims will be used in the fastening of various assemblies to ensure noise and vibration free fastening.

2.0 SCOPE

This schedule specifies the requirements for the "Kevlar" based packing shims of nominal thickness varying from 0.5 mm to 8 mm (with incremental of 0.5 mm) thick for providing sealing and sound damping in the fastening of various coach sub-assemblies.

3.0 MATERIAL REQUIREMENTS:

Base : This is asbestos free material with "Kevlar" fibre as base (Kevlar fibre is a special nylon fibre with extreme toughness and strength and is manufactured under patent by M/s Dupont, USA) .

Specific weight: $1.6 \text{ g/cm}^3 \pm 0.4$

Thickness : Shall be available from 0.5 to 8 mm (with incremental of 0.5 mm) in sheet thickness.

It shall retain its mechanical properties up to 100° C temperature.

It shall be full proof against steam, gas , petrol, oil, water and acid.

Fire Requirement: Fire resistance as per DIN-5510 shall be :

| | | |
|-----------------------------|----|-----|
| Fire resistance requirement | -- | S2 |
| Smoke development | -- | SR2 |
| Drop forming | -- | ST2 |

It shall have the followings additional properties :

Elastic, glueable and workable with operations like boring, cutting and grinding. It shall have smooth surface with no decays.

hmg!
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