

HEAVY MOTOR-HOME SEAT / SEAT-BELT INSTALLATIONS REQUIREMENTS

A vehicle registered as, or converted to motor-home before 1 October 03, must have seat-belts appropriate to its class prior to conversion to a motor-home.

Vehicle registered as or converted to a motor-home on, or after 1 October 2003, is considered as class MB and must have seat-belts installed as per Seat-belt Rule 32011 and in table 2.4 of the seat-belt rule, ie:

- Retracting lap-diagonals for driver and front outer seats.
- The front centre seating position and all other positions to the rear of the front row may have lap belts or retracting lap-and-diagonal seat-belts as per Rule 32011.

TSV in Aucland or Cambridge are specialist in design and certification of all type of seats and seatbelts in motorhomes and campervans. And will be pleased to assist you with your project.

Side facing seats are permitted in heavy and light motor-homes. Side facing seats may only be fitted with lap belts. (Light motor-homes have restrictions on the number and location of side-facing lap-belts where heavy motor-homes do not. See the design considerations information sheet and consult your nearest Heavy Vehicle Certifier / Low Volume Certifier or Vehicle Testing Station for further information.)

Loads to be applied to seat-belt anchorages may derived from any one of following standards:

- UN ECE 14.
- ADR 05.
- Japanese Industrial Standard.
- New Zealand Low Volume Vehicle Standard.

Note that vehicle Original Equipment Manufacturers (OEMs) spend considerable money on physical testing which simulates actual accident conditions as closely as practically possible. This generally results in the absolute minimum dimensions and material requirements. Heavy



TSV developed double lap/diagonal seat for Kea Campers and C.I. Munro.

TSV are consulting mechanical engineers providing a wide range of engineering design and analytical services, ranging from specialised rollover protective structures to process engineering solutions.



Vehicle Certifiers generally make use of calculation or very limited physical testing facilities in the absence of dynamic physical testing facilities to verify installation designs.



TSV developed test rig for full load testing of seat frames and anchorages.

Certification by a Heavy Vehicle Certifier covers only the strength / integrity of the seat-belt anchorages, not the general consideration of interior impact (positioning of the seating arrangement). You should be made aware, by the certifier, of the implications of seat positioning and any potential resulting hazards during your design stages.

Where seat-belt anchorage loads are supported by the seat-frame, the certification includes the seat design also.