# CHASSIS ENGINEERING GUIDELINES

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## DESIGN GUIDELINES FOR: FUSO ENDURO FI 4x2

#### **MODELS**:

FIV1 PKX

### **APPLICATIONS - FLAT DECK, CURTAINSIDER**

These recommendations have been prepared for design engineers and body builders as a guide to assist when selecting and specifying chassis modification and/or body fitment.

These guidelines should be read in conjunction with the Mitsubishi Fuso Truck & Bus Body Equipment Mounting Directives available on the FUSO Body Builder Portal.

#### **CHASSIS FRAME MATERIAL**

Hot Rolled Steel, 500 MPa tensile, 460 MPa yield. Refer to chassis section modulus drawing for each model.

#### LOAD CONSIDERATIONS

#### **FLAT DECK**

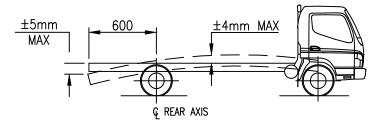
U.D.L	Consider as a uniformly distributed load over whole or part of deck length.
CURTAINSIDER	Consider as a uniformly distributed load over whole or part of deck length in conjunction with point loads imposed by body and taillifts.

#### MAXIMUM DESIGN STRESS

Recommended maximum design stress = 35% of chassis yield stress (161 MPa) for sections of frame that are unmodified or do not contain stress raisers. Appropriate allowance should be made for details in the frame that have been modified or contain stress raisers. Refer to the body builders manual for stress levels using static load applications.

#### MAXIMUM CHASSIS DEFLECTION

CASE 1	Between front and rear axis. Maximum permissible deflection: ±4mm.
CASE 2	Rear overhang. Maximum permissible deflection: 5mm at 600mm or greater, rear of rear axis.



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