

CHASSIS ENGINEERING GUIDELINES

(ISSUE A, AUGUST 2018)

**DESIGN GUIDELINES FOR:
FUSO FIGHTER 6x2**

**MODELS:
FU1828, FU2328**

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 and/or Bus Body Equipment Mounting Directives available on the FUSO Body Builder Portal.

CHASSIS FRAME MATERIAL

Hot Rolled Steel, 540 Mpa tensile, 390 Mpa yield.

MAXIMUM DESIGN STRESS

Recommended maximum design stress = 35% of chassis yield stress (136 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.

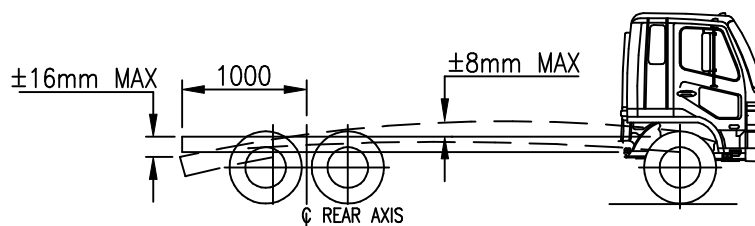
LOAD CONSIDERATIONS

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.
TAIL LIFT	Depending on rear overhang, fitment of a taillift may require additional chassis reinforcement.
REAR OVERHANG	Body or unreinforced chassis rear overhangs exceeding 3.5m may require chassis reinforcement.
LOAD CENTRE	Determined as water level load 600mm above chassis.

MAXIMUM CHASSIS DEFLECTION

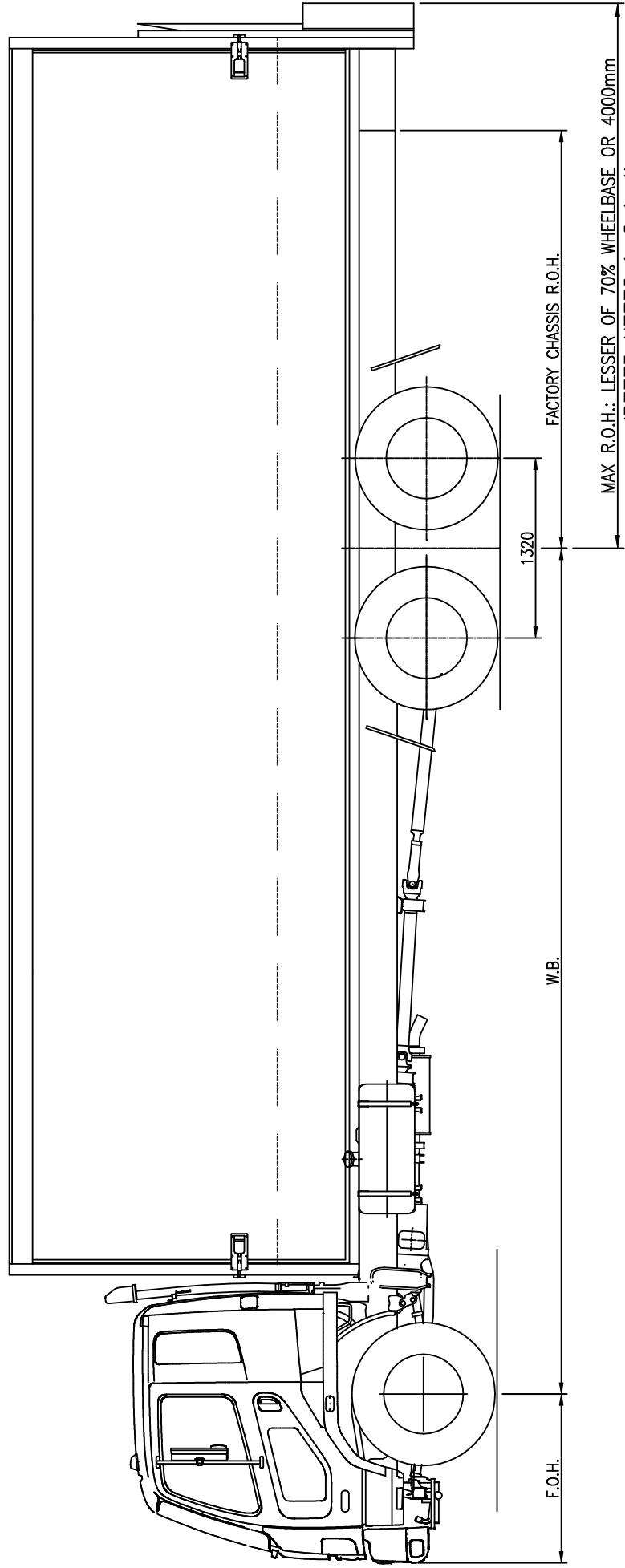
CASE 1	Between front and rear axis. Maximum permissible deflection: $\pm 8\text{mm}$.
CASE 2	Rear overhang. Maximum permissible deflection: 16mm at 1000mm or greater, rear of axis.



This specification sheet applies to vehicles supplied by Fuso NZ for the New Zealand market. REF: J22974 / FU-FIGHTERSUA.DWG
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NOTES:

- 01) THIS DRAWING IS FOR USE AS A GUIDE ONLY, TO ASSIST WHEN SELECTING AND SPECIFYING CHASSIS MODIFICATION AND/OR BODY FITMENT.
- 02) THE FITTING OF A BODY AND ANY WORK ON THE CHASSIS FRAME MUST BE CARRIED OUT IN ACCORDANCE WITH THE FUSO GUIDELINES FOR THIS MODEL AND GOOD INDUSTRY PRACTICE.
- 03) THIS CHASSIS WITH FACTORY INNER FLITCH IS SUITABLE FOR FITTING A CURTAIN -SIDER BODY & LOADS (INCLUDING 2000KG CAPACITY TAIL LIFT) UP TO THE MANUFACTURER'S GVM PROVIDED THE BODY/CHASSIS DOES NOT EXCEED THE MAX R.O.H. LIMITS STATED IN NOTE 4.
- 04) FOR FITTING A 2000KG CAPACITY TAIL LIFT, THE MAXIMUM ALLOWED BODY R.O.H. IS SHOWN ON THE TABLE BELOW.



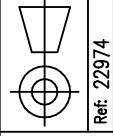
MODEL	WHEELBASE	F.O.H.	FACTORY R.O.H.	REFER NOTE 4
FK65FL (6x2)	5870mm	1135mm	2900mm	2700mm
FN63FU2	6530mm	1245mm	3255mm	3100mm
FK65FMZ (6x2)	6200mm	1135mm	2900mm	2700mm
FM65FM2 (6x2)	6210mm	1245mm	3270mm	3100mm

ISSUE DATE	CHANGES MADE	BY
A. 1/8/2018	FIRST ISSUE	K.H.



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FIGHTER FU 6 x 2
SAMPLE CURTAINSIDER/FLAT DECK LAYOUT



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