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Assess the condition of each bolt before use. Discard bolts with visible signs of damage, including (but not limited to):

- Bending, damage or deformation of the threaded rod, washer plate or base plate
- Cracked or damaged welds, base plate or thread body
- · Damaged or stripped threads on the bolt or nut
- Galvanisation or coating peeling off or exposed base metal
- Variation in the thread pitch in diameter or width for the nut or thread body
- Sharp or flaky threads on the nut or thread body

Bolts are recommended by the manufacturer to be single use only.



## This Guide

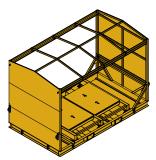
- Covers the DAYWALK Transporta Frame (SKU 13-PCTR/4000/2320/8.5T) with a single item weighing up to 8500kg secured to it and transported by road in Australia
- Meets the requirements of the Performance Standard forces specified in Schedule 7 of the Heavy Vehicle (Mass, Dimension and Loading) National Regulation 2018

### Key Elements

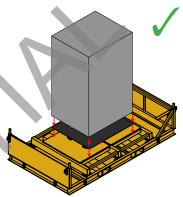
- Equipment must be in good working order
- Damaged pallets should be inspected by a competent person to confirm their structural capacity before use
- Place rubber with minimum coefficient of friction of 0.6 and minimum load capacity of 6.0 N/mm<sup>2</sup> between the item and the pallet
- Rubber must have capacity to withstand load without failing (i.e crushing, tearing or disintegrating etc.)
- Rubber should be inspected prior to use of thepallet. If noticeable wear and tear is present, rubber should be removed and replaced
- X No low friction surfaces (i.e. steel on steel)
- Position the item such that the Centre of Gravity [CoG] is located between the type pockets and centrally across the width of the pallet
- Minimum item foot size is 4 off 100 x 100mm
- Secure the item to the pallet with a minimum of 4 Grade 8.8 bolts, torqued per the requirements specified in Table 1
- The maximum load capacity of the pallet is also dependent on the stability of the item refer to Tables 2 & 3

#### Table 1: Required Bolt Torque for Items up to 8500kg

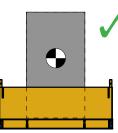
Bolt Diameter	Number of Bolts				
	4	6	8		
30mm	180 Nm	120 Nm	90 Nm		
36mm	215 Nm	145 Nm	110 Nm		
42mm	250 Nm	165 Nm	125 Nm		
48mm	285 Nm	190 Nm	145 Nm		
56mm	330 Nm	220 Nm	165 Nm		
64mm	375 Nm	250 Nm	190 Nm		
72mm	425 Nm	285 Nm	215 Nm		
80mm	470 Nm	315 Nm	235 Nm		



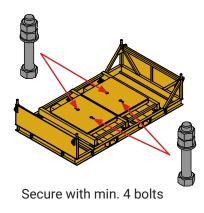
DAYWALK Transporta Frame



Rubber between item and pallet



Central CoG Position



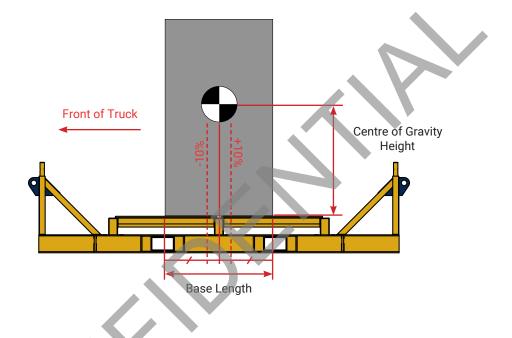
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## Load Capacity - Load Stability

- The maximum load capacity of the pallet is also dependent on the stability of the item in the forwards and sideways directions (i.e. the base width, base length and centre of gravity height)
- Tables 2 and 3 specify the maximum pallet capacity based on load stability in the forwards and sideways directions respectively
  - The pallets capacity is the lesser value obtained from the two tables
- Items may topple **forwards** if they have a narrow **base length**



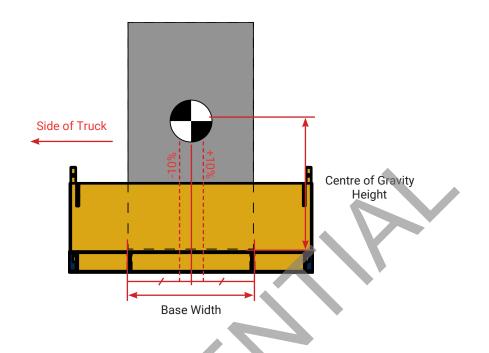
The maximum **forwards** toppling load capacity for items with a centre of gravit<u>within 10% of the base length from the mid point</u> is shown in Table 2

Base Length	Centre of Gravity Height (mm)					
	400 - 600	601 - 800	801 - 1000	1001 - 1200	1201 - 1400	
1200 - 1400mm	8500kg	8500kg	5310kg	3540kg	2655kg	
1401 - 1600mm	8500kg	8500kg	8265kg	4955kg	3540kg	
1601 - 1800mm	8500kg	8500kg	8500kg	7080kg	4720kg	
1801 - 2000mm	8500kg	8500kg	8500kg	8500kg	6375kg	
2001 - 2200mm	8500kg	8500kg	8500kg	8500kg	8500kg	
2201 - 2400mm	8500kg	8500kg	8500kg	8500kg	8500kg	

Table 2: CoG Limitations - Forwards Toppling



Items may topple **sideways** if they have a narrow **base width** 



The maximum **sideways** toppling load capacity for items with a centre of gravit<u>within</u> <u>10% of the base width from the mid poin</u>tis shown in Table 3

#### Table 3: CoG Limitations - Sideways Toppling

Base Width	Centre of Gravity Height (mm)					
	400 - 600	601 - 800	801 - 1000	1001 - 1200	1201 - 1400	
700 - 900mm 🔦	8500kg	8265kg	4505kg	3095kg	2360kg	
901 - 1100mm	8500kg	8500kg	8500kg	5310kg	3750kg	
1101 - 1300mm	8500kg	8500kg	8500kg	8500kg	5990kg	
1301 - 1500mm	8500kg	8500kg	8500kg	8500kg	8500kg	
1501 - 1700mm	8500kg	8500kg	8500kg	8500kg	8500kg	
1701 - 1900mm	8500kg	8500kg	8500kg	8500kg	8500kg	

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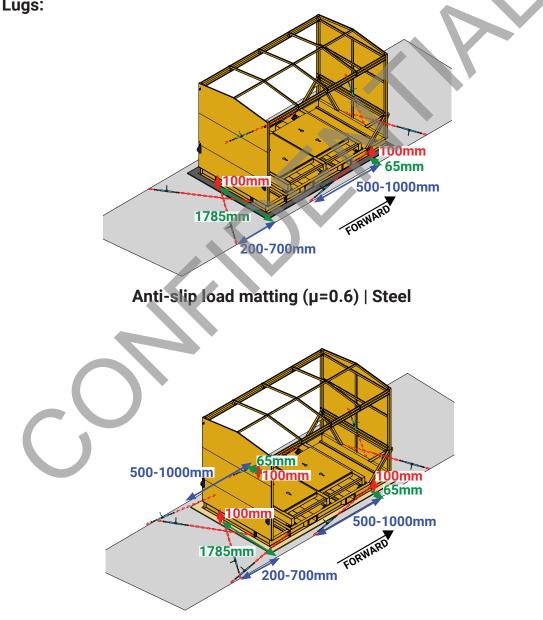
#### Load Restraint

Place rubber (with min. coefficient of friction of 0.6 and min. load capacity of 6.0 N/mm<sup>2</sup>) or rough sawn timber (with min. coefficient of friction of 0.4) between the pallet and the deck

Load the pallet centrally across the truck

- Secure the pallet to the truck with chains in the arrangements shown
- Chains must be min. 8mm, compliant to AS4344 and pre-tensioned to 1000kg
- Maximum allowable total weight (Pallet TARE + Item) is 11000kg for the restraint systems
  shown

Base Lugs:

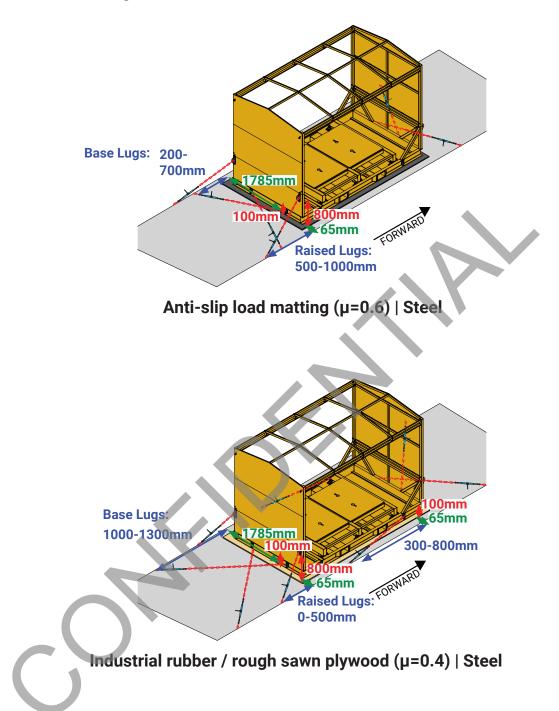


Industrial rubber / rough sawn plywood ( $\mu$ =0.4) | Steel

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Raised + Base Lugs:



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