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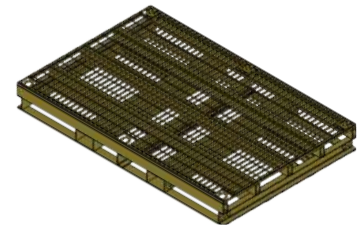
Assess the condition of each Daywalk bolt before use. Discard bolts with visible signs of damage, including (but not limited to):

- *Bending, damage or deformation of the threaded rod, washer plate or base plate*
- *Missing or damaged roll pins or spring washer*
- *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

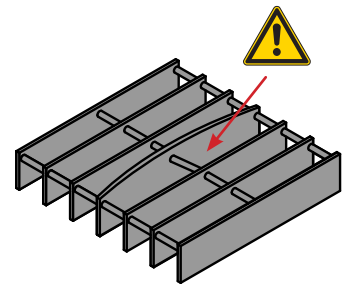
- Covers singular items secured to an Daywalk 3t rated medium duty steel pallet (SKU 13-PMGG2320-1500) by Daywalk securing bolts, transported by road in Australia
- Meets the requirements of the Performance Standard forces specified in Schedule 7 of the Heavy Vehicle (Mass, Dimension and Loading) National Regulation 2018
- Does not cover restraint of the combined pallet and item on the truck



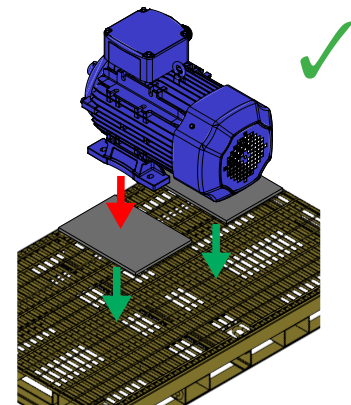
Daywalk 3t
Rated Medium
Duty Pallet

Key Elements

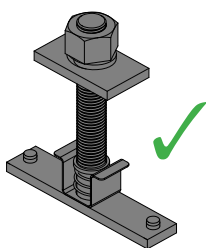
- ✓ Equipment must be in good working order
- ⚠ Damaged pallets should be inspected by a competent person to confirm their structural capacity before use
- ✓ Ensure all pallet bearers are in contact with the deck of the truck
- ✓ Place rubber with minimum coefficient of friction of 0.6 and minimum load capacity of 6.0 N/mm² between the item and pallet
- ✓ Rubber must have capacity to withstand load without failing (i.e. crushing, tearing or disintegrating etc.)
- ✗ No low friction surfaces (i.e. steel on steel)
- ⚠ Rubber may be required between the pallet and the deck of the truck to permit application of adequate restraint
- ✓ Use Daywalk securing bolts to attach the item to the pallet
- ✓ Bolts must be tightened to the required torque specified in Table 4
- ✓ Mounting points on the item must be strong enough to withstand the applied forces (Performance Standard + bolt torque)
- ✗ Do not apply lashings over the item - this will apply additional load to the pallet and may overload it
- ✓ Use spreader plates where required to increase the load capacity of the pallet



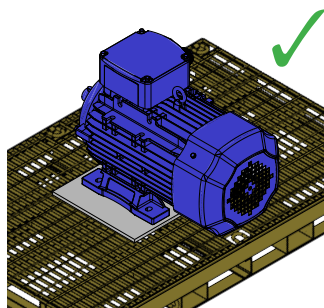
Damaged load bars



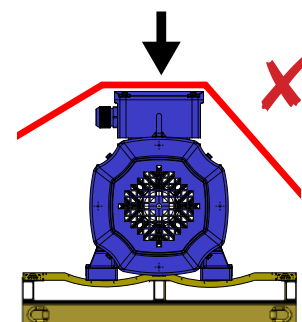
Rubber between
pallet and item



Daywalk securing bolt



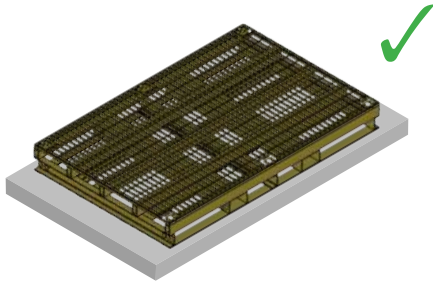
Spreader plate



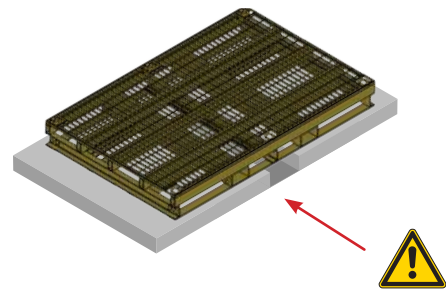
Do not lash over item

How to Use

- ✓ Place the pallet on a rigid surface and ensure all bearers of the pallet are supported



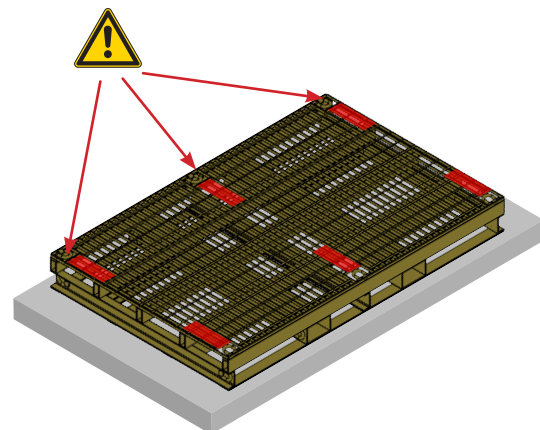
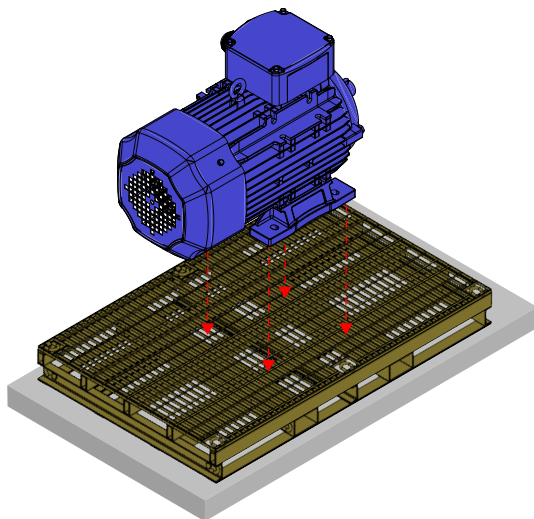
All bearers supported



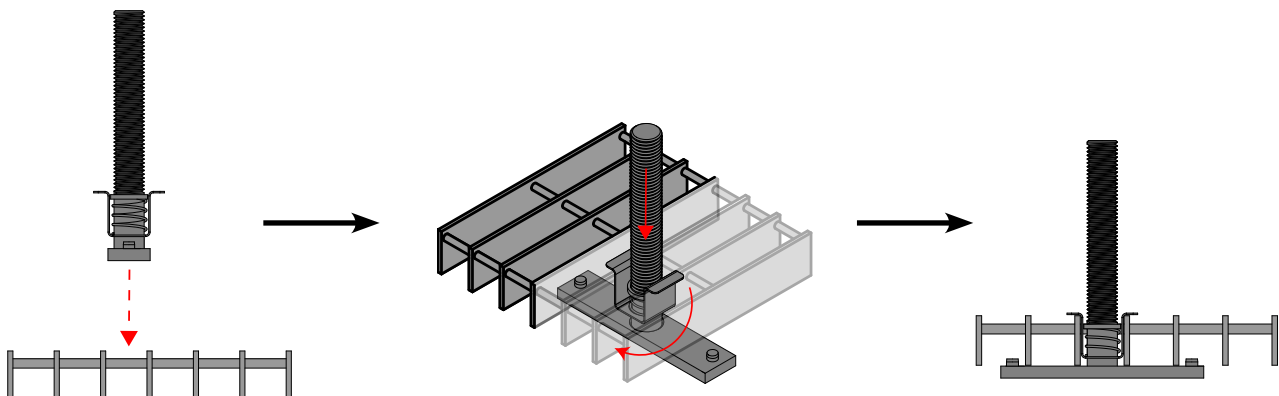
Middle bearers unsupported

- ✓ Identify locations where securing bolts can be placed to secure the item to the pallet. The item should be placed such that the centre of gravity is centred on the pallet.

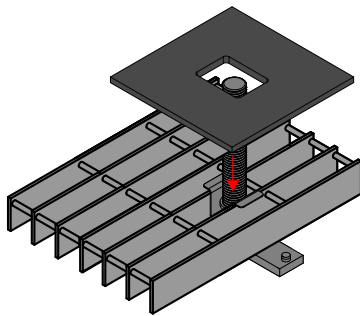
- ⚠ The load capacities identified in this document do not apply to the load bars adjacent to the lashing points - contact Daywalk for more information



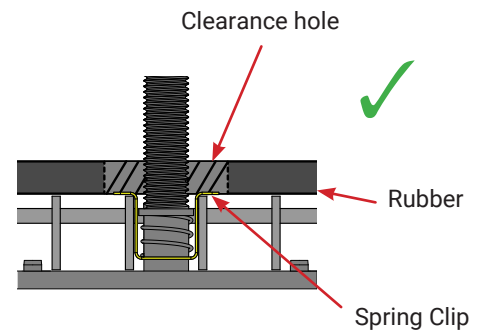
- ✓ Insert bolt between mesh, rotate and hold in place with the spring clip at each location



- ✓ Place rubber over bolt at each location
- ✓ Rubber must have a hole cut in it to clear the spring clip

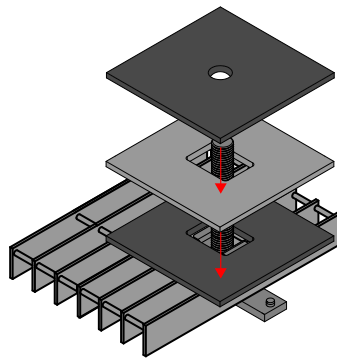


Rubber strip over bolt



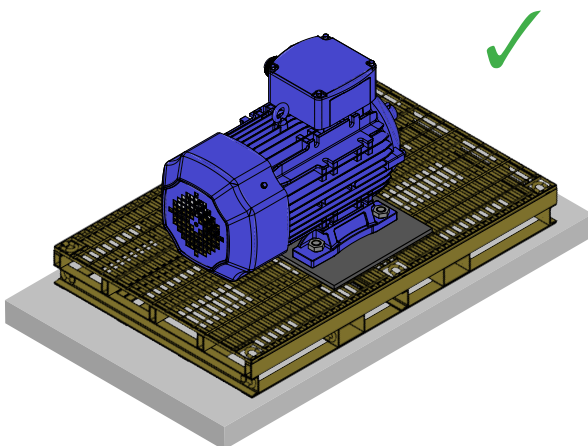
Rubber clearance

- ✓ If spreader plates are required, place spreader plate followed by another piece of rubber over bolt at each location

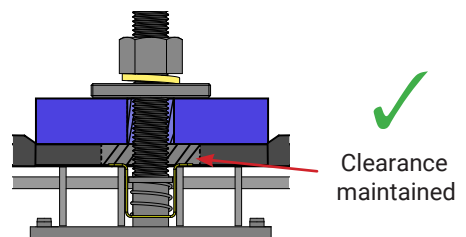


Spreader plate

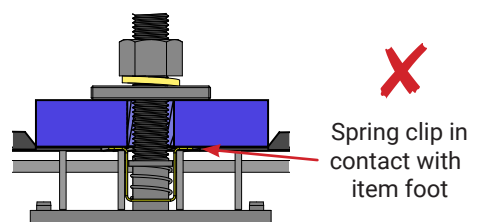
- ✓ Load item onto pallet and secure by tightening bolts to the required torque
- ✓ Rubber must have capacity to prevent contact between the item (or spreader plate) and the spring clip under the applied load



Item secured to pallet



Clearance maintained



Spring clip in contact with item foot

Load Capacity - Forklift Lift

- ✓ The load capacity of the pallet depends on the total number of contact points and the area of each
- ⚠ Load capacity is also affected by the stability of the item - Table 1 must be read in combination with Tables 2 and 3
- ✓ The capacity of the pallet is determined by identifying the relevant value from each Table (1, 2 and 3) and taking the lesser of the three
- ✓ Only lift the pallet with forklift tynes in the tyne pockets - do not locate tynes in any other position
- ✗ Medium duty pallets are not suitable for crane lifting

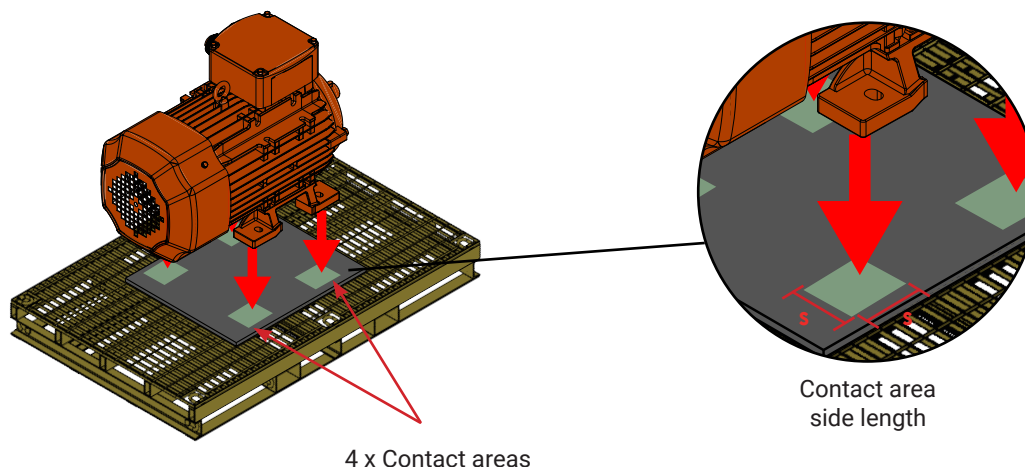
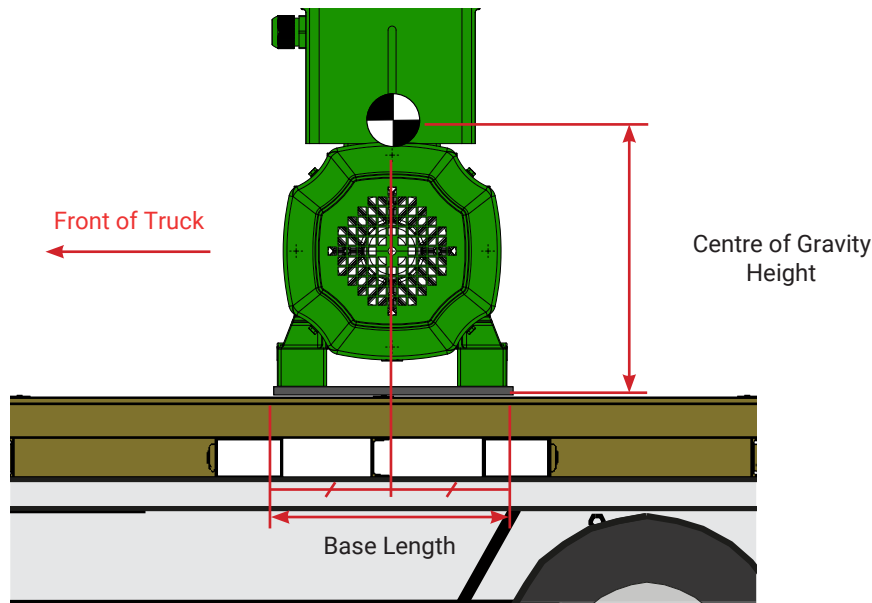


Table 1: Maximum Load Capacity (not for crane lift)

Contact Area Side Length (S)	Number of Contact Areas			
	2	3	4	6
100 - 125mm	195kg	295kg	395kg	595kg
126 - 150mm	310kg	465kg	620kg	930kg
151 - 175mm	445kg	670kg	890kg	1340kg
176 - 200mm	605kg	910kg	1215kg	1825kg
250 x 250mm spreader plate	1225kg	1840kg	2455kg	3500kg
400 x 150mm spreader plate	1180kg	1770kg	2365kg	3500kg
400 x 400mm spreader plate	3150kg	3500kg	3500kg	3500kg
500 x 350mm spreader plate	3445kg	3500kg	3500kg	3500kg

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
- ⚠ Items may topple **forwards** if they have a narrow **base length**

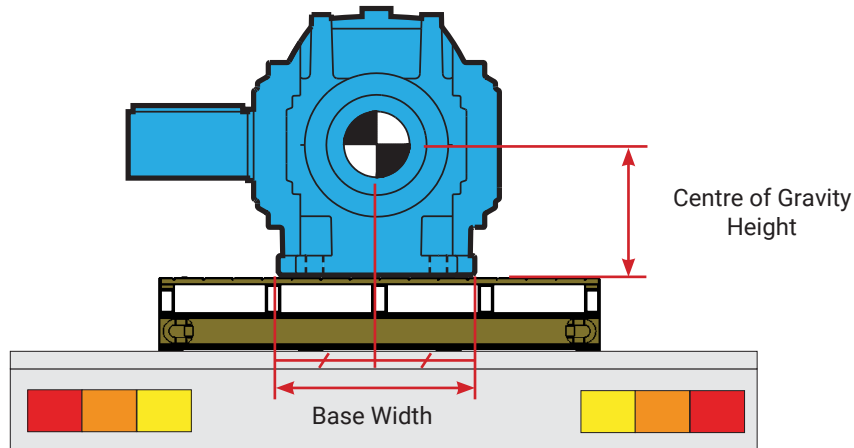


- ✓ The maximum **forwards** toppling load capacity for items with a centre of gravity at the mid point of the base length is shown in Table 2

Table 2: CoG Limitations - Forwards Toppling

Base Length	Centre of Gravity Height (mm)				
	200 - 400	401 - 600	601 - 800	801 - 1000	1001 - 1200
400 - 500mm	120kg	50kg	30kg	20kg	15kg
501 - 600mm	260kg	80kg	45kg	30kg	25kg
601 - 700mm	1105kg	120kg	65kg	40kg	30kg
701 - 800mm	3500kg	195kg	85kg	55kg	40kg
801 - 900mm	3500kg	370kg	120kg	70kg	50kg
901 - 1000mm	3500kg	1110kg	175kg	95kg	65kg
1001 - 1100mm	3500kg	3500kg	260kg	120kg	80kg
1101 - 1200mm	3500kg	3500kg	450kg	160kg	95kg

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




 The maximum **sideways** toppling load capacity for items with a centre of gravity at the mid point of the base width is shown in Table 3

Table 3: CoG Limitations - Sideways Toppling

Base Width	Centre of Gravity Height (mm)				
	200 - 400	401 - 600	601 - 800	801 - 1000	1001 - 1200
400 - 500mm	3500kg	145kg	70kg	45kg	35kg
501 - 600mm	3500kg	370kg	120kg	70kg	50kg
601 - 700mm	3500kg	3500kg	220kg	110kg	70kg
701 - 800mm	3500kg	3500kg	515kg	170kg	100kg
801 - 900mm	3500kg	3500kg	3500kg	295kg	145kg
901 - 1000mm	3500kg	3500kg	3500kg	665kg	220kg
1001 - 1100mm	3500kg	3500kg	3500kg	3500kg	370kg
1101 - 1200mm	3500kg	3500kg	3500kg	3500kg	810kg

Required Bolt Torque

- ✓ The required bolt torque for Daywalk bolts is shown in Table 4
- ⚠ Exceeding the bolt torques specified below may damage the rubber between the item and the pallet
- ✓ A spring washer must always be placed between the nut and washer plate to prevent loosening during transport

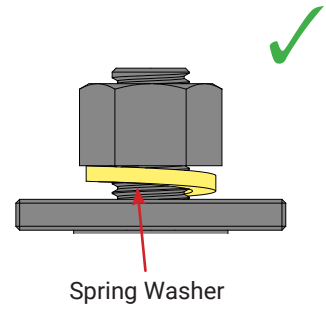
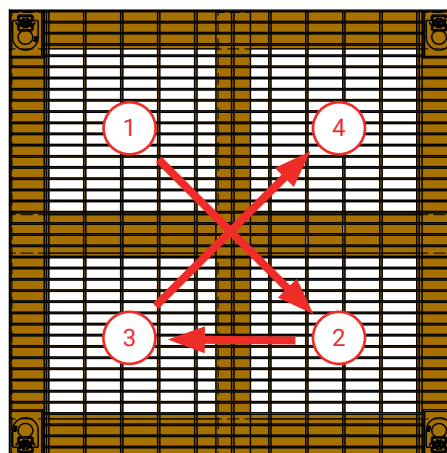


Table 4: Required Bolt Torque

Item Weight	Number of Bolts			
	2	3	4	6
0 - 500kg	20 Nm	20 Nm	20 Nm	20 Nm
501 - 1000kg	30 Nm	20 Nm	20 Nm	20 Nm
1001 - 1500kg	45 Nm	30 Nm	25 Nm	20 Nm
1501 - 2000kg	55 Nm	40 Nm	30 Nm	20 Nm
2001 - 2500kg	70 Nm	50 Nm	35 Nm	25 Nm
2501 - 3000kg	85 Nm	55 Nm	45 Nm	30 Nm
3001 - 3500kg	100 Nm	65 Nm	50 Nm	35 Nm

Bolt Torque Sequence

- ✓ Bolts should be torqued in a 'criss-cross' sequence over multiple passes to ensure all bolts achieve the required torque
- ✓ Incrementally increase the applied torque with each pass until the required torque is achieved



(A) Bolt Location

Example Bolt Torque 'Criss-Cross' Sequence