

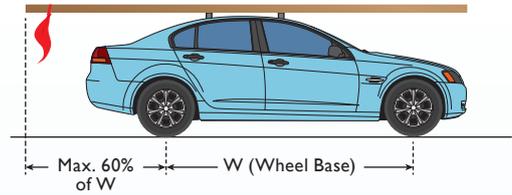
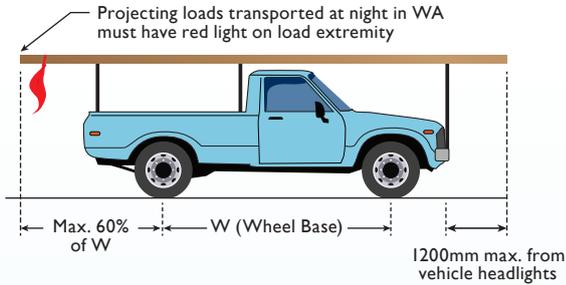
# Load Restraint Guidelines for Customer Pick-ups

## VEHICLES LESS THAN 4.5GVM



### SEDAN AND UTILITY VEHICLES: LOAD DIMENSION REQUIREMENTS

- ✓ Drivers vision must not be obstructed by product loaded on overhead racks
- ✓ All projected loads must be fitted with a red flag 300mm x 300mm or larger
- ✓ Maximum front and rear overhang is 1200mm or 60% of wheel base, the lesser of the two
- ✓ Maximum 20% front and rear overhang for sheet product loaded on racks

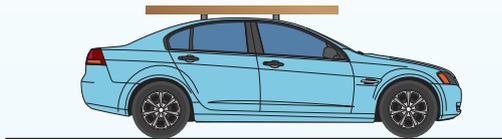


### MASS LIMITS FOR PRODUCT ON ROOF RACKS

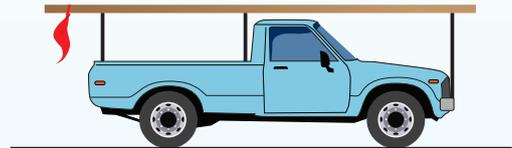
- ✓ Maximum mass on commercial factory standard roof racks is 40kg for two racks\*
- ✓ Be aware that loads secured onto racks will impact vehicle stability, particularly in sideways direction
- ✓ Maximum mass for racks includes the product payload, any supporting items and restraint equipment

\*Maximum mass limit without written certification for racks and vehicle

\*40kg for 2 racks - Non commercial vehicles (sedans / wagons etc.)

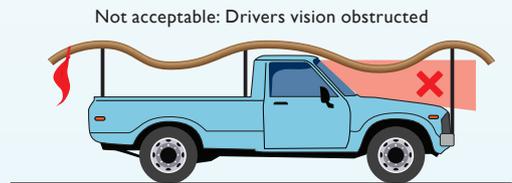


100kg for 2-3 racks for utes - tray back vehicles with a sedan or 4WD style passenger compartment



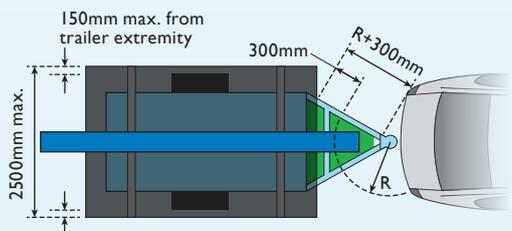
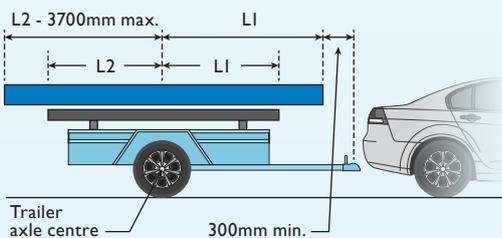
### LONG PRODUCT: MERCHANT BAR, REINFORCING BAR AND PIPE AND TUBE LOADS

- ✓ Drivers vision must not be obstructed by product loaded on overhead racks
- ✓ All projected loads must be fitted with a red flag 300mm x 300mm or larger
- ✓ Maximum front and rear overhang is 1200mm or 60% of wheel base, the lesser of the two
- ✓ Maximum 20% front and rear overhang for sheet product loaded on racks



### REQUIREMENTS FOR TRAILERS

- ✓ Product must be supported to prevent flex more than 100mm
- ✓ Maximum width of load is 2500mm
- ✓ Maximum side overhang is 150mm each side
- ✓ Product placement should provide some weight (approx. 10% of load) on the towball



- ✓ L2 must be equal or less than LI (LI is the distance from the centre of the axle to the front of the load carrying area)
- ✓ For box trailers this is the front of the box
- ✓ Maximum front overhang is limited to:
  - Minimum of 300mm from the towball if product width is within the area of the drawbar structure,
  - Or if wider than the drawbar structure;
  - A clearance of 300mm to any possible impact point with the turning car (R+300mm, see diagram)
- ✓ Must have appropriate supports and restraint points to allow any overhang of trailer box
- ✓ The forward load overhang must not project outside the drawbar structure

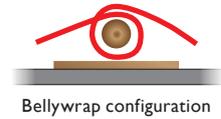
# Load Restraint Guidelines for Customer Pick-ups

## VEHICLES LESS THAN 4.5GVM



### LOAD RESTRAINT REQUIREMENTS

- ✓ All loads recommended to be loaded into cargo area (eg. vehicle boot, ute tray etc.)
- ✓ Minimum 1 restraint per 1.5m of product length is recommended
- ✓ All product longer than 1m to have minimum 2 lashings
- ✓ Use bellywrap or choke lashings for round objects, any bundles, for objects with low lashing angles, or for multiple packs (more than 2) next to each other
- ✓ All products that are loaded with an incline must be lashed, preferably bellywrapped
- ✓ Any product loaded into a passenger compartment must be placed on the floor and be unable to slide
- ✗ No steel on steel contact. Product must be placed on surfaces such as timber or rubber
- ✓ The use of cargo nets or covers over trailers and utes is highly recommended



### MASS LIMITS PER RESTRAINT

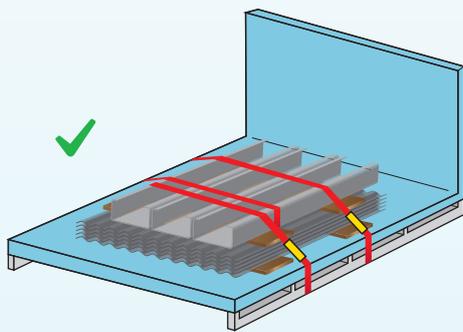
Lashing angle to horizontal	50mm webbing strap and ratchet	35mm webbing strap and ratchet	25mm ratchet webbing	25mm hand tightened webbing	8mm synthetic rope with single hitch
30-45 degrees	380 kg **	320 kg **	120 kg **	60 kg	60 kg
45-60 degrees	540 kg **	455 kg **	180 kg **	90 kg	90 kg
60-90 degrees	660 kg **	550 kg **	220 kg **	100 kg	100 kg

\*\* Check the rack capacity on previous page before applying the limits shown above.

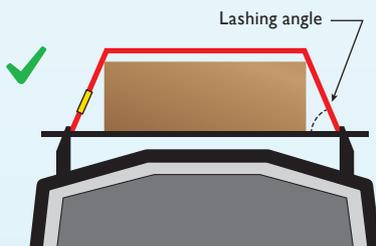
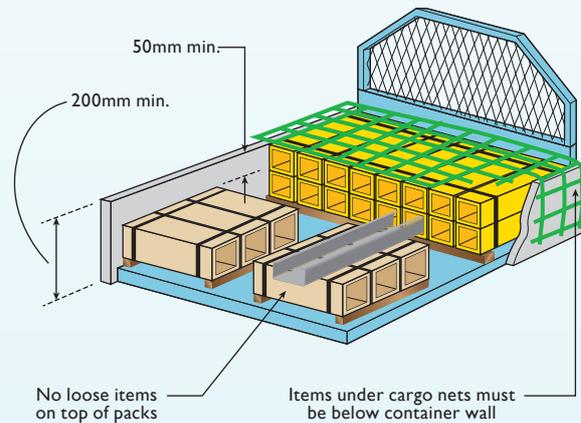
### RESTRAINT OF PRODUCT TO THE VEHICLE

All items not restrained by lashings:

- ✓ Must be contained so that the bottom of the pack is at least 200mm from the top of the container, and the top of the pack is at least 50mm below the top of the container
- ✓ Must be blocked in a way that will not allow the load to pierce the container
- ✗ Cannot be prone to movement
- ✗ No loose items to be stacked on top of packs
- ✗ Items placed under cargo nets must not extend above the top of the container



Bellywrap all long product where possible



Steeper lashing angles above 60 degrees are preferred

**LOAD RESTRAINT IS STATE LEGISLATION AND IS BEING ENFORCED. FINES DO APPLY.**

**PLEASE ASK A STRATCO TEAM MEMBER FOR FURTHER ADVICE.**