

Load Restraint Technical Advice

Laser Plate Packs

Load Restraint Advice for:

- The transportation by road of Laser Plate with a sheet width range of 1200 mm to 1800 mm.
- Laser Plate covered in VCI Tri-Paper wrapping in packs of up to 2.8T nominally for 2.4m and 3.0m lengths, and 7.0T nominally for 6m lengths.

Certification:

This load restraint system has been certified as meeting the Performance Standards in the NTC's Load Restraint Guide (2nd edn, 2004) by the Senior Risk Engineer, RPEng (0845).

Design parameters:

- Restraint System - Indirect (tensions with load shift)
- Minimum Friction - Static 0.421, Dynamic: 0.336

Essential Requirements:

- Position the packs single file on the centre line of the vehicle.
- **Use the rubber covered dunnage** supplied or place rubber between the top of the base dunnage and the pack.
- Product stacks are to be a minimum of 150 mm and a maximum of 1500 mm above the vehicle deck. (Fig.1.1)
- All restraints must be 8 mm transport chain with a minimum 3.0 tonnes lashing capacity to Australian Standard AS/NZS4344.
- **The minimum number of over-the-top chains required MUST comply with Table 1.**
- **ALL other requirements in LRG153 for Tru-Spec Steel are to be followed. Configurations MUST comply with LRG153.**
- **For uneven length packs in a single stack either:**
 - Place all required chains over the top of the highest pack and add an extra chain over the longest pack if the difference between the pack lengths is greater than 1.5 m, or;
 - Treat each pack size as an individual load and restrain as per the requirements of Table 1.

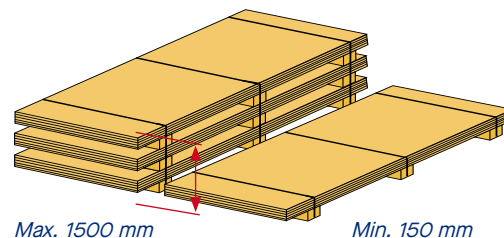


Fig.1.1: Laser Plate steel packs are covered with a low friction plastic paper.



Fig.1.2: Dunnage must be covered in rubber and rebated to stop steel strap being in contact with the below surface.

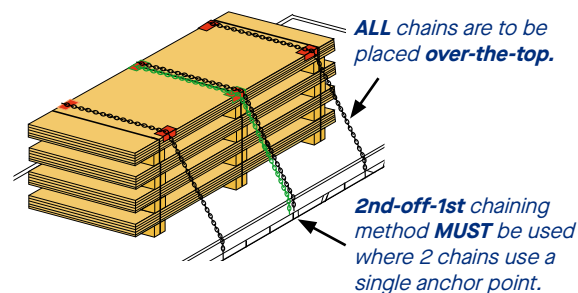


Fig.1.3: Over-the-top restraint with 2nd-off-1st.

Table 1 - Laser Plate Steel on Rubber Covered Dunnage

Stack Weight (Tonnes)	Number of Over the Top Chains Required		
	Stack Height 150 - 499 mm	Stack Height 500 - 999 mm	Stack Height 1000 - 1500 mm
0.0 to <5.0	3	2	2
5.0 to <10.0	6	3	2
10.0 to <15.0	9	4	3
15.0 to <20.0	12	5	4
20.0 to 25.0	14	7	5

For clarification or further advice contact John Hickling - Risk Engineer 0402 956 792

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