Load Restraint Technical Advice
TRU-SPEC® Low Friction LVL Dunnage

TS

Load Restraint Advice for:

- TRU-SPEC® steel on rubberised LVL dunnage with a lower than standard coefficent of friction, which is indicated by pink coloured dunnage ends or easily visible labelling, and;
- Wrapped in VCI Quad-paper that is transported by road with a minimum sheet width of 700 mm and a maximum sheet width of 1550 mm, and;
- Any stack containing one or more of these packs.

Certification:

This load restraint system has been certified as meeting the Performance Standards in the NTC's Load Restraint Guide (3rd edn, 2018) by the Transport Safety Manager, RPEng (1465).

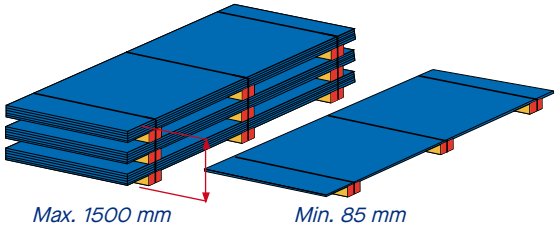

Fig.1. TRU-SPEC® steel packs covered in VCI Quad-paper strapped to rubber LVL dunnage.

Essential Requirements:

- **This advice is used in conjunction with all the requirements specified in LRG153-TU Issue 3 except for the following:**
  - **Load Restraint Requirements (Table 1).**
  - **Applies to any stack with one (1) or more low friction packs.**
  - **All stacks MUST have 2 belly wrapped chains. (Refer to Fig.3.)**
  - **All belly wrapped chains must be secured with two binders per chain (one each side).**
  - **Uneven length packs requiring an extra chain will require this chain to be also belly wrapped using two binders.**
  - **Ensure product is protected from chain on all corners.**
  - **Load Chokers may be used in place of belly wrapped chains.**

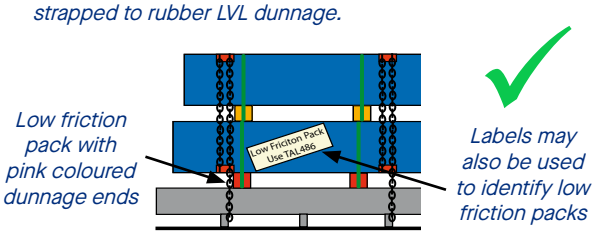

Fig.2. Low friction packs are marked by dunnage with pink coloured ends and/or easily visible labelling on both sides.

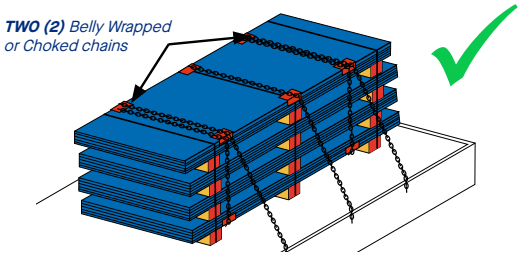

Fig.3. All stacks MUST have two (2) belly wrapped chains with binders on both sides.

4. Load Restraint Requirements

Table 1. Number of Restraints (Friction μ_s = 0.39)

Stack Weight (Tonnes)	No. of Chains Required - Minimum 2 chains to be Belly Wrapped		
	Stack Height 85 - 500 mm	Stack Height 500 - 1000 mm	Stack Height 1000 - 1500 mm
0.0 to 5.0	3	2	2
5.0 to 10.0	6	3	3
10.0 to 15.0	8	5	4
15.0 to 20.0	11	6	5
20.0 to 25.0	13	8	6

Design Parameters: Restraint System - Combined (tensions with load shift to 3T), Friction - Static = 0.398 / Dynamic 0.318