This Poster Applies To:

- Road transport to the performance standards of the NTC Load Restraint Guide (2nd Ed.).
- Light and Heavy Vehicles restrained by Tie-Down and Direct Restraint methods

Load Restraint Equipment:

8mm & 10mm transport chain, conforming to AS/NZ 4344 tensioned to a minimum \checkmark pre-tension of 750kg.f.

50mm webbing, conforming to AS/NZS4380 tensioned to a minimum pre-tension of 300kg.f.

- Equipment must be in good working order. Inspect the chains for wear.
- All chain fittings must be in good condition and have at least the same rated capacity as the chains being used.
- Chains with excessively damaged, worn or bend links must not be used. X
- Over center lever load binders (dogs) are a high risk and are not to be used. X
 - Ausbinders, Turnbuckle ratchet, Web-dog binders or similar are a suitable alternative to dogs provided a minimum pre-tension of 750kg.f can be achieved.



Mobile Plant:

Applies to:

• Fork Lifts, Front End Loaders, Semi Trailers

- 🔀 Do not mix lashing types i.e. chain and webbing.
- Four lashings will be required, two angled forwards and two backwards.
- All lashings to be similar geometry.
- Apply any brakes provided
- A Beware of shock forces generated through bouncing. Aim for lower restraint angles of approximately 25°.
- 👿 Over-centre lever load binders are a high risk and are not permitted.
- x No Webbing Straps to be used for direct restraint
- ✓ Webbing ok for accessories (e.g. buckets)
- Chains for mobile plant restraint
- All on board equipment must be secured (e.g. booms and buckets)
- All hydraulic and mechanical equipment must be isolated to prevent inadvertent movement in transit.

Fork Lifts:

Table 1. Direct Restraint Wheeled

	Anchor Point Across Deck (m)	Location Along Combing Rail for Lashing (m)	Mass per 4 x 8mm Chains
1	0 to 0 5	0.5 to 1	3000 kg
an	0 to 0.5	1 to 1.5	2200 kg
of		0.5 to 1	2500 kg
ght	0.5 to 1	1 to 1.5	4300 kg
lei	1 + 0 1 5	0.5 to 1	2000 kg
	1 to 1.5	1 to 1.5	3600 kg
<u> </u>	0 to 0 5	0.5 to 1	1700 kg
an	0 to 0.5	1 to 0.5	3200 kg
of		0.5 to 1	1600 kg
ght	0.5 to 1	1 to 1.5	3000 kg
lei(1 + 0 1 5	0.5 to 1	1400 kg
	1 10 1.5	1 to 1.5	2700 kg



Load Restraint

Front End Loaders

4.5 T- 17.5T Unblocked - 6 x 8mm Chain Combination 17.5 - 26T Unblocked - 6 x 10mm Chain Combination



Semi Trailers TARE: 9 Tonnes

Unblocked - 8 x 8mm Chain Combination



Tie Down:

Table 2. Tie-down 50mm Webbing Restraint a) Freight on Rough sawn timber surface

Payload (kg)	Number of Lashings Require BLOCKED (Lashing angle)		Payload (kg)	Number of Lashings Required NOT BLOCKED (Lashing angle)				
	(80 - 90°)	(60 - 80°)	(30 - 60°)		(80 - 90°)	(60 - 80°)	(30 - 60°)	
0 - 1200	1	1	1	0 - 500	1	1	2	
1200 - 2300	1	2	2	500 - 1000	2	2	4	
2300 - 4600	2	3	4	1000 - 1500	3	3	5	
4600 - 6900	3	4	6	1500 - 2300	4	5	8	

b) Freight on Antislip Load Mat - Not Conveyor Belt or general rubber

Payload (kg)	Number of Lashings Required BLOCKED (Lashing angle)		Payload (kg)	Number of Lashings Required NOT BLOCKED (Lashing angle)			
	(80 - 90°)	(60 - 80°)	(30 - 60°)		(80 - 90°)	(60 - 80°)	(30 - 60°)
0 - 2500	1	1	2	0 - 1500	1	1	2
2500 - 2950	1	2	2	1500 - 2500	2	2	3
2950 - 5900	2	3	4	2500 - 3500	2	3	4
5900 - 8850	3	4	6	3500 - 5300	3	4	6

Select the distance

along the combing rail to tie off to achieve the **4** desired mass restraint.

> Measure the horizontal distance across the deck to the anchor point.

s document is certified to comply with the requirements stipulated in the NTC performance standards (NTC Load Restraint Guide 2nd Edition 2004 s F(1), certification provided by RPEQ, CPEng 3121238) for Pickles Auctions. Compliance can only be achieved when all aspects of this document are adhered to in full. Additional requirements may be necessary under some conditions that are outside the scope of this certification. The information contained in this certification is confidential to and remains the property of Pickles Auctions and Engistics. Any changes to this certification must be approved by Engistics.

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