

1. This Technical Advice Document applies to

- The transportation by road and sea of Type 436 steel railway sleepers.

The lowest friction factor determined as per EN 12195-1:2010 Annex B.1.2 is $\mu=0.6$ (Product-on-Anti Slip Matting).

2. Essential requirements

- Anti-slip matting must be placed on BOTH sides of all timbers.
- All restraints must be a minimum of LC 2000 daN webbing straps and must be compliant with EN 12195-2.
- Suitable edge protection where required.
- Side pins fitted for loading and unloading safety on all loads.
- Additional restraint measures must be added during Winter Weather Advisory Periods.

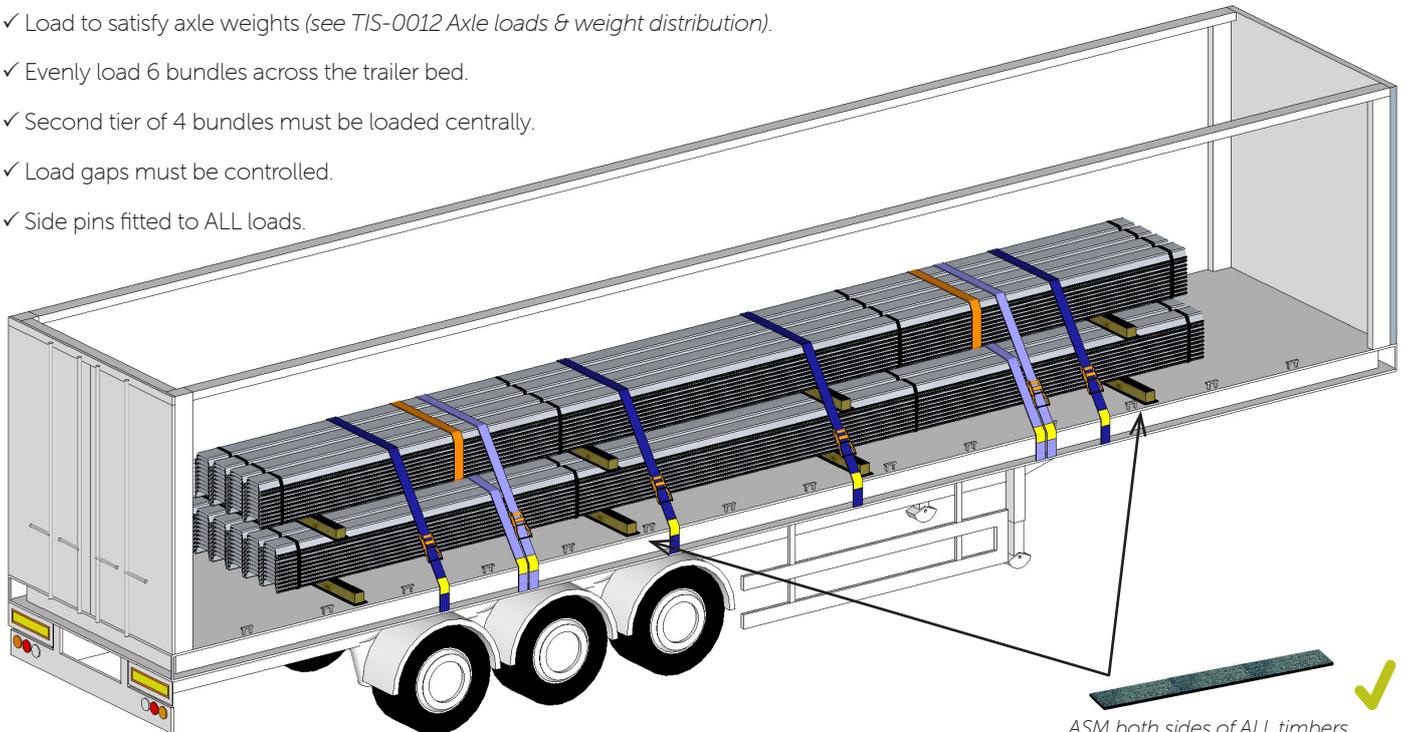
3. Load configuration and restraint

3.1 Sleeper plate dispatch - UK loads

- ✓ All timbers to be a minimum of 125mm x 125mm full width timbers.
- ✓ Anti-slip-matting on both sides of all timbers.
- ✓ Load to satisfy axle weights (*see TIS-0012 Axle loads & weight distribution*).
- ✓ Evenly load 6 bundles across the trailer bed.
- ✓ Second tier of 4 bundles must be loaded centrally.
- ✓ Load gaps must be controlled.
- ✓ Side pins fitted to ALL loads.



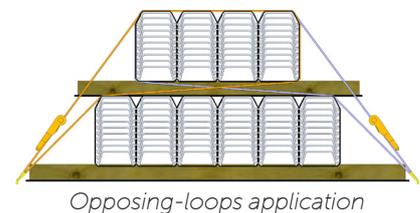
Minimum of
LC 2000 daN straps



Example Load: 26.3t Sleeper plate load to Wallasey - Side pins excluded for image clarity

Table 1: Minimum number of restraints for unblocked sleeper plate loads

Load	Anti-slip-matting	Opposing-Loops	Over-the-top Restraints
Up to 22t	Both sides of all timbers	2 Pairs	3
22-28t	Both sides of all timbers	2 Pairs	4



This Technical Advice Document has been designed to meet the forces for road transport as stated in EN 12195-1:2010 and VDI 2700.

3.2 Loaded to or blocked to the headboard - UK & Export loads

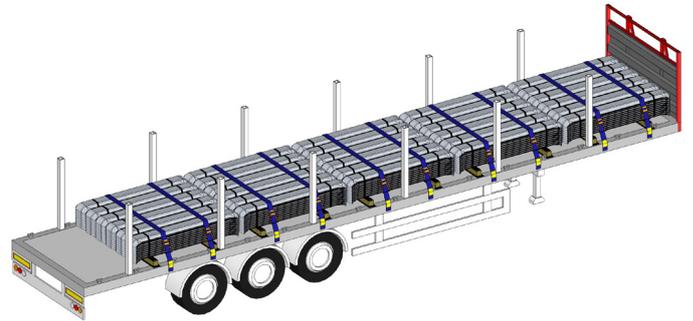
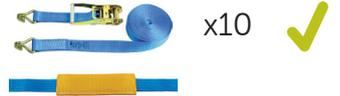
- ✓ Headboard rated to 10 tonnes minimum.
- ✓ Load or block ALL loads to the headboard.
- ✓ Anti-slip-matting on both sides of all FULL width timbers.
- ✓ Load 6 bundles across the trailer bed.
- ✓ 2 over-the-top webbing straps per row of material.
- ✓ Suitable edge protection where required.
- ✓ Side pins fitted to ALL loads.



Example Load: Export load blocked to the headboard



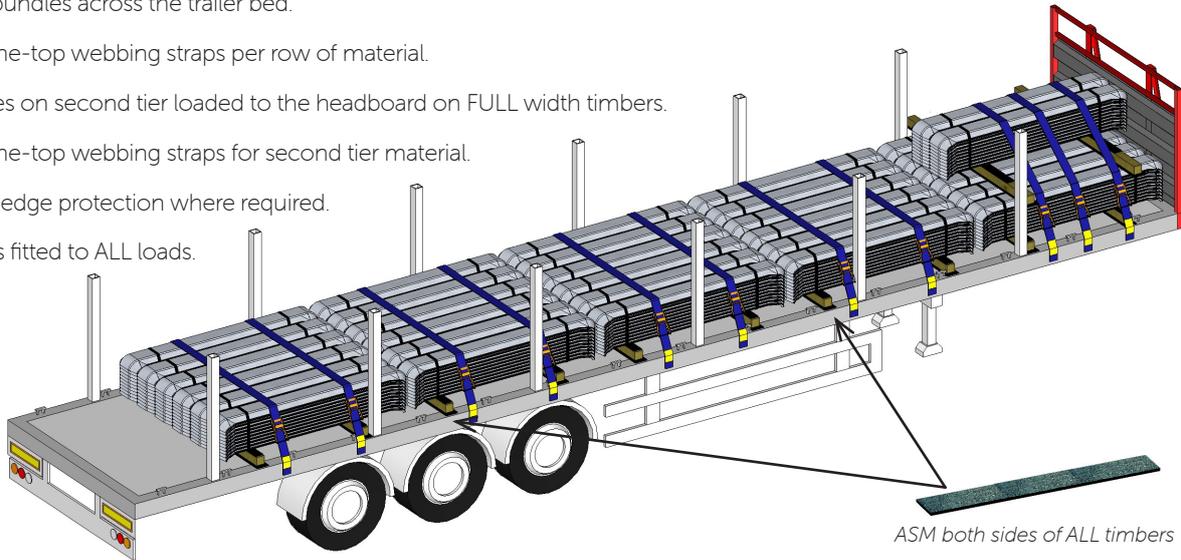
Minimum of LC 2000 daN straps



Example Load: UK load loaded to the headboard

3.3 Loaded to the headboard - UK Locker Freight loads (32 Bundles)

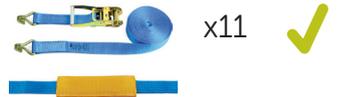
- ✓ Headboard rated to 10 tonnes minimum.
- ✓ Load to the headboard.
- ✓ Anti-slip-matting on both sides of all FULL width timbers.
- ✓ Load 6 bundles across the trailer bed.
- ✓ 2 over-the-top webbing straps per row of material.
- ✓ 2 bundles on second tier loaded to the headboard on FULL width timbers.
- ✓ 3 over-the-top webbing straps for second tier material.
- ✓ Suitable edge protection where required.
- ✓ Side pins fitted to ALL loads.



Example Load: Locker Freight loads ONLY



Minimum of LC 2000 daN straps

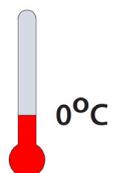


4 Winter weather advisory periods

During winter weather advisory periods when there is likelihood of frost and ice forming, additional restraint measures must be applied:

- ✓ Add 1 additional webbing strap restraint per material length.

Minimum of LC 2000 daN straps



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2 BUILDING STRONGER FUTURES

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