



1. This Technical Advice Document applies to:

- The transportation of profiled, shot blasted and cast blooms with a maximum individual product width of 500 mm by road, sea and intermodal rail.

The lowest friction factor determined as per EN 12195-1:2010 Annex B.1.2 is $\mu=0.6$

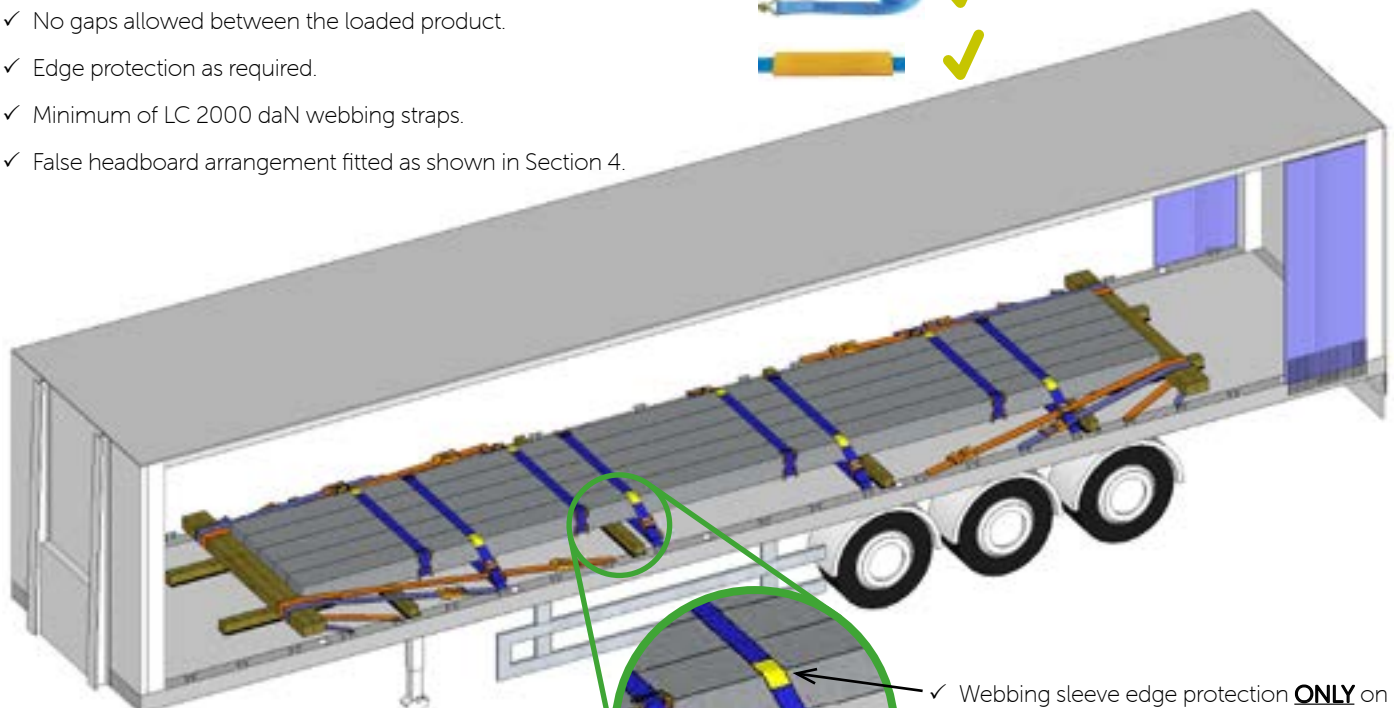
2. Essential requirements

- All loads must be blocked in the forwards direction for Road & Sea transport, and forwards and rearwards direction for Intermodal transport.
- [Timber dunnage](#) must be a minimum of 125mm x 125mm x 2400mm for base timbers and blocking timbers.
- All restraints must be a minimum of [LC 2000 daN webbing straps](#) and must be compliant with EN:12195-2.
- [Webbing sleeve edge protection](#) must be fitted to webbing straps in contact with the product.
- [Anti-slip matting](#) must be placed between all base timbers and the trailer deck.
- Loads must be positioned in accordance with [TIS-0012 Axle loads and weight distribution](#).
- Do not overload [lashing points](#) see Section 5.

3. Overview of restraint systems

- ✓ Anti-slip matting beneath base timbers.
- ✓ 4 pairs of opposing loops (x8 webbing straps).
- ✓ No gaps allowed between the loaded product.
- ✓ Edge protection as required.
- ✓ Minimum of LC 2000 daN webbing straps.
- ✓ False headboard arrangement fitted as shown in Section 4.

LC 2000 daN straps



Example: Intermodal load of 5 blooms at 24.2t loadweight.



* Plastic edge protection is only allowed to be used where shown.

- ✓ Webbing sleeve edge protection **ONLY** on clampdown legs.
- ✓ Plastic edge protection secured to webbing straps may be used here.
- ✓ Anti-slip matting beneath base timbers.

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

4. Blocking arrangement

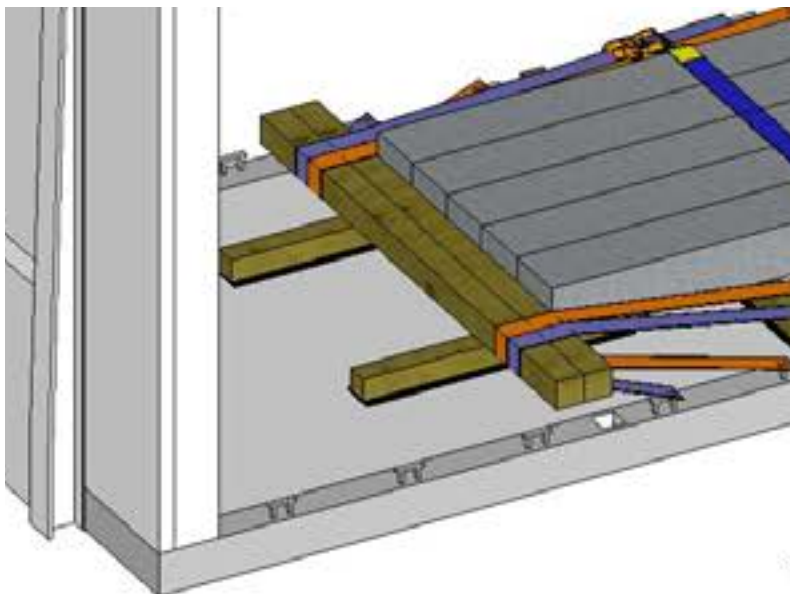
All loads must have the correct blocking arrangement fitted:

UK & Export loads:

Blocking at the front of the load

Intermodal loads:

Blocking at front and rear of the load



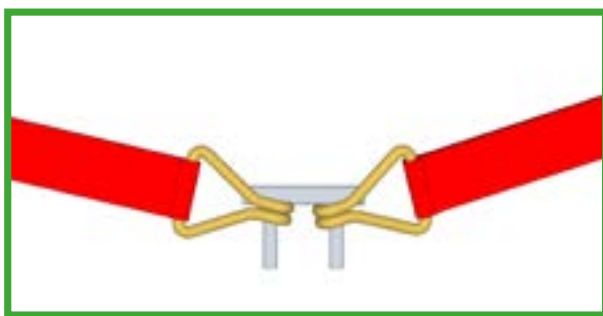
- ✓ Anti-slip matting beneath support timbers.
- ✓ 2 off timbers 125mm x 125mm x 2400mm positioned side-by-side for blocking.
- ✓ 4 webbing straps pulling rearwards (2 on each side of the load).
- ✓ Place webbing straps as close to the material as practicable.
- ✓ Minimum of LC 2000 daN webbing straps.
- ✓ Minimize gaps between product and blocking arrangement.
- ✓ Do NOT overload lashing points.

For Intermodal loads, the blocking arrangements must be replicated at the rear of the load.

5. Lashing points

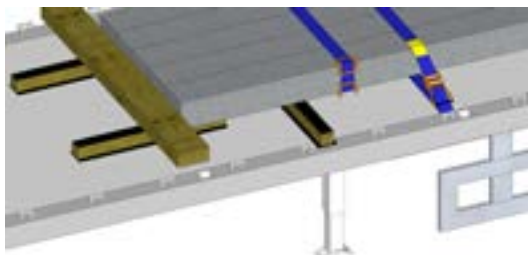


Do NOT overload lashing points by having 2 restraints pulling in the same direction.



Lashing points CAN be used when the 2 restraints are pulling in opposite directions.

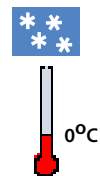
6. Winter weather advisory periods



Blocking restraints removed for image clarity.

During winter weather advisory periods, anti-slip matting must be placed on BOTH sides of all base timbers.

All other restraint requirements remain the same.



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TAD-0138 Bloom Intermodal using Webbing Straps (Issue 1)

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