

# LOAD RESTRAINT GUIDELINE

## Stocksbridge Bar

Issue 1 - DRAFT



### 1. This guideline applies to:

- The transportation of turned bar, rolled bar and drawn bar, (both bundled and loose) by road and by sea.

The friction factor for untreated product on timber dunnage, determined as per EN 12195-1:2010 Annex B.1.2, is  $\mu=0.49$  and for oiled / treated product on Anti-slip matting, determined as per EN 12195-1:2010 Annex B.1.2, is  $\mu=0.39$

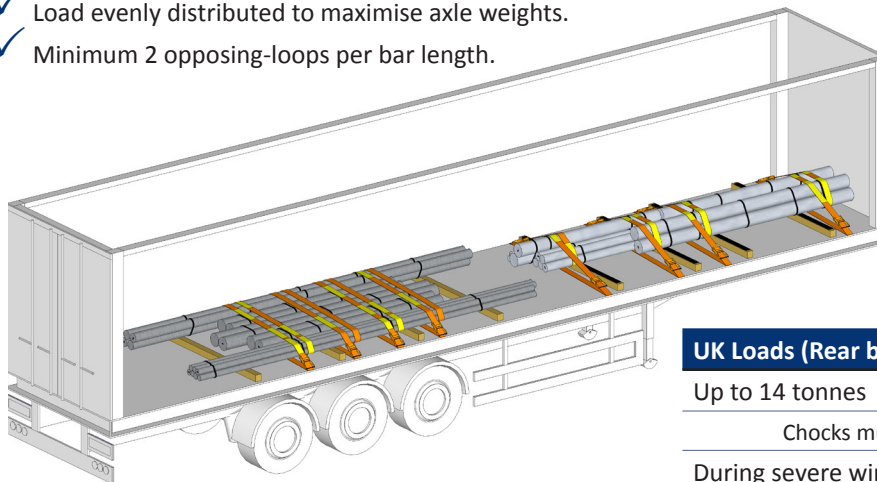
### 2. Essential requirements

- All webbing restraints must be compliant with EN 12195-2, with a minimum rating of LC 2000 daN.
- Base timbers must have a minimum cross-section of 100 mm x 100 mm.
- Chocks must be fitted and secured to base timbers to prevent individual bars from rolling sideways.
- Suitable dunnage must be used to control load gaps.
- Product must only be loaded in a single layer - NO DOUBLE STACKING of product is allowed - however, nesting of untreated bundled product is permitted.
- Oiled products greater than 150 mm OD to be banded in a maximum bundle of 2 bars.
- Oiled products must be placed on anti-slip matting and blocked in the forward direction at ALL times.
- Edge protection must be fitted to webbing straps located within 300 mm of banding.

### 3. Restraint systems for UK loads

#### 3.1 Split loads

- ✓ Oiled bar on ASM and blocked to the headboard.
- ✓ Load evenly distributed to maximise axle weights.
- ✓ Minimum 2 opposing-loops per bar length.



Side pins are strongly recommended (excluded for image clarity)



**Caution: Be aware of rolling risk whilst loading and unloading round bar - apply chocks as required.**

LC 2000 daN straps



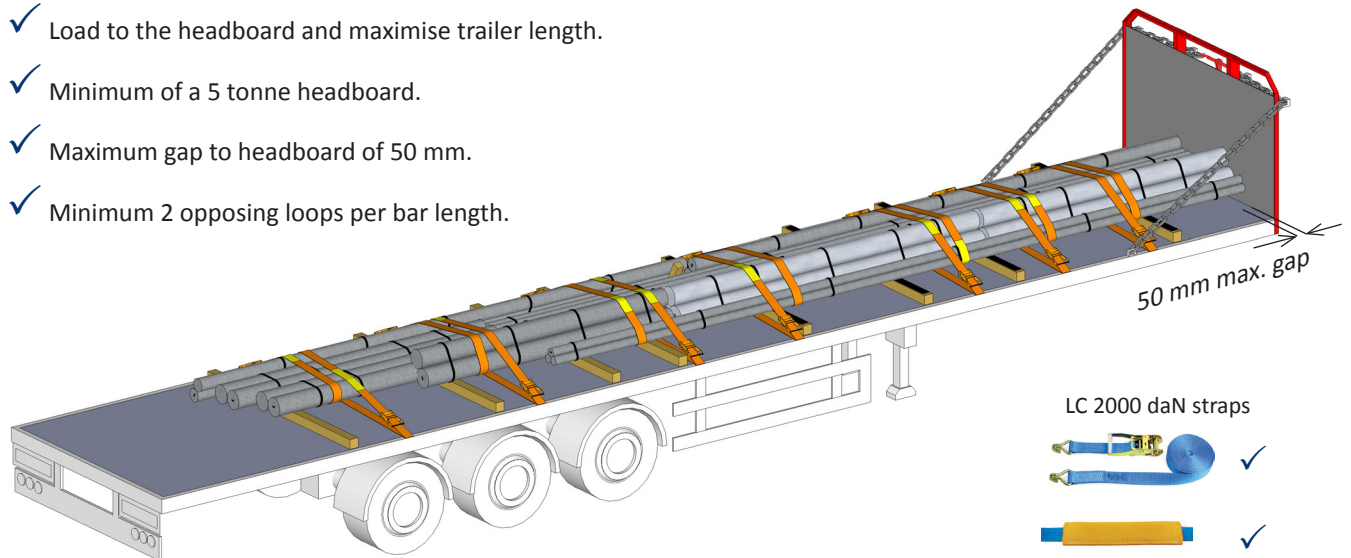
UK Loads (Rear bundle)	Opposing-loops
Up to 14 tonnes	4
Chocks must be fitted to loose bars at all times	
During severe winter weather advisory periods	+ 3 pairs of opposing-loops

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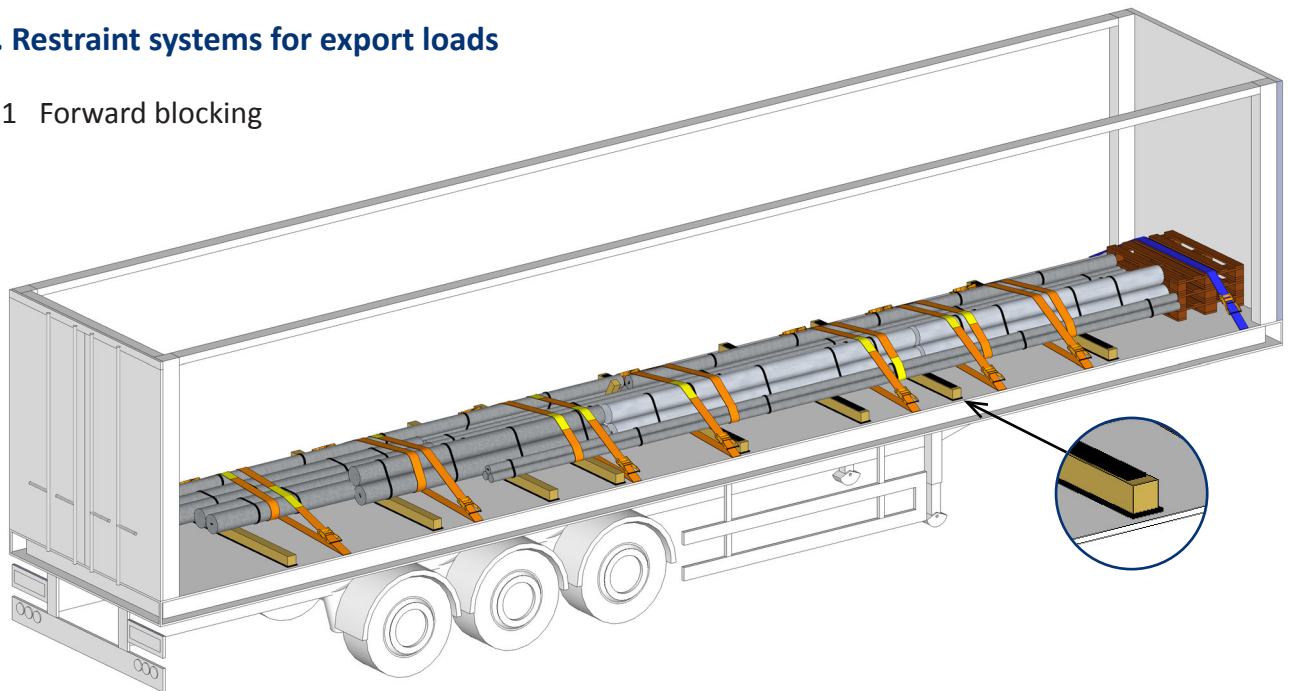
### 3.2 Loaded / blocked to the headboard

- ✓ Oiled bar placed on anti-slip matting at the front of the load.
- ✓ Load to the headboard and maximise trailer length.
- ✓ Minimum of a 5 tonne headboard.
- ✓ Maximum gap to headboard of 50 mm.
- ✓ Minimum 2 opposing loops per bar length.

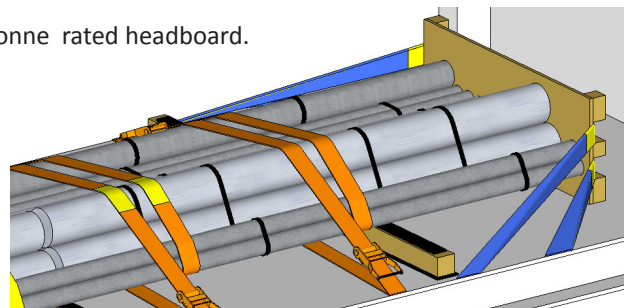


## 4. Restraint systems for export loads

### 4.1 Forward blocking



- ✓ If blocked with pallets: trailers must have a minimum of a 10 tonne rated headboard.
- ✓ Load product 800 mm from headboard and block.
- ✓ False headboard same width as product.
- ✓ Anti-slip matting under all base timbers.
- ✓ Oiled product at front of load.

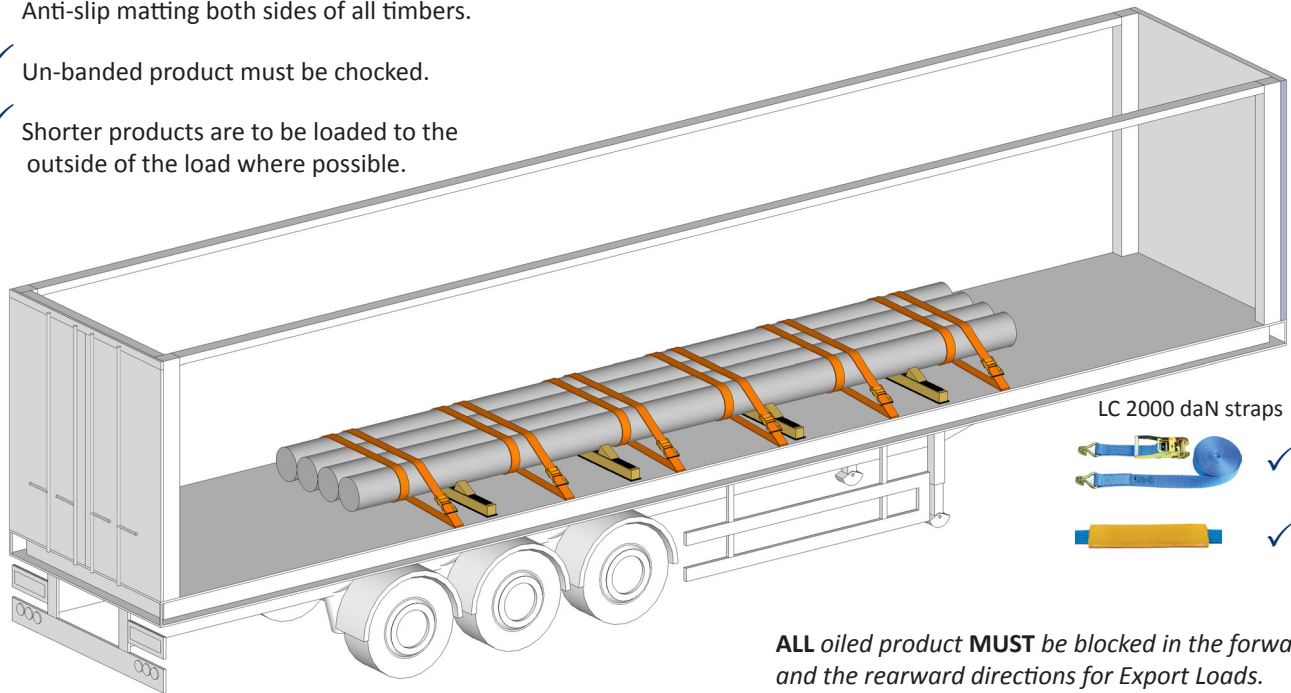


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### 4.2 Loaded away from the headboard (Un-oiled product only)

- ✓ Load product centrally along trailer.
- ✓ Anti-slip matting both sides of all timbers.
- ✓ Un-banded product must be chocked.
- ✓ Shorter products are to be loaded to the outside of the load where possible.



**ALL oiled product MUST be blocked in the forward and the rearward directions for Export Loads.**

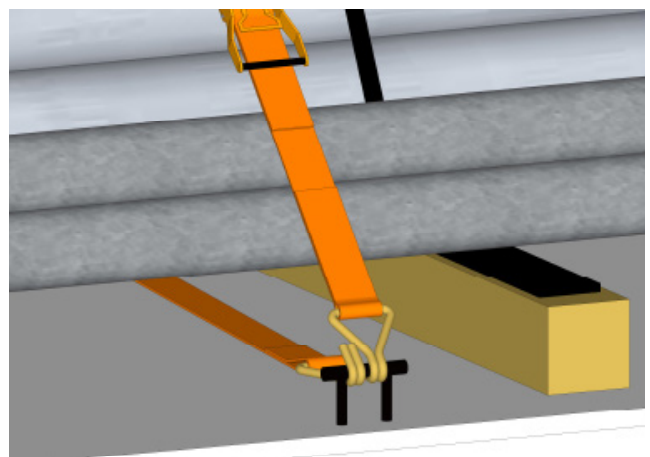
Note: Restraint system for a 20 tonne load.

Restraint Requirements						
Load weight (tonnes)	<10	11-14	15-17	18-21	22-24	25-28
Opposing-loops (pairs)	3	4	5	6	7	8
Chocks must be fitted to loose bars at all times						
During severe winter weather advisory periods	Anti-slip matting + 3 pairs of opposing-loops					

## 5. Equipment

### 5.1 Opposing-loops application

- ✓ Lashing points rated to a minimum of 2 tonnes.
- ✓ Maximum of 2 hooks per lashing point.
- ✓ Minimum of 2 pairs of opposing-loops per bar length.
- ✓ If product is blocked to the headboard, restraints can be attached to the side rails.



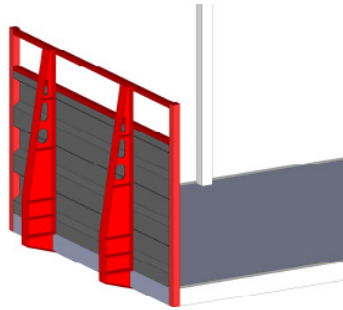
Note: Should lashing points not be available, the restraints must be secured in such a way that prevent the hooks sliding along the side rails.

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### 5.2 Headboard requirements

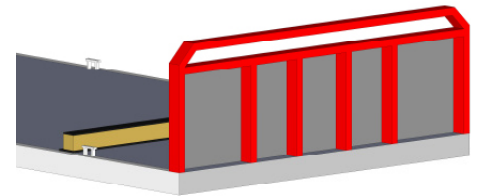
#### Rated headboards



- ✓ Code XL headboards are suitable for all methods of transport.

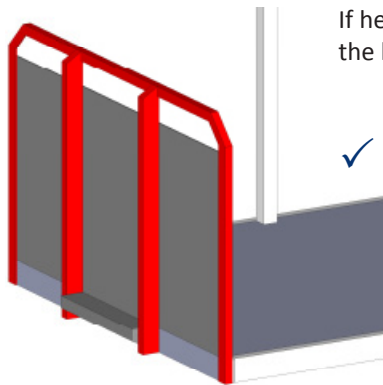
THIS VEHICLE BODY COMPLIES WITH THE STANDARD  
**EN 12642-XL**

OR



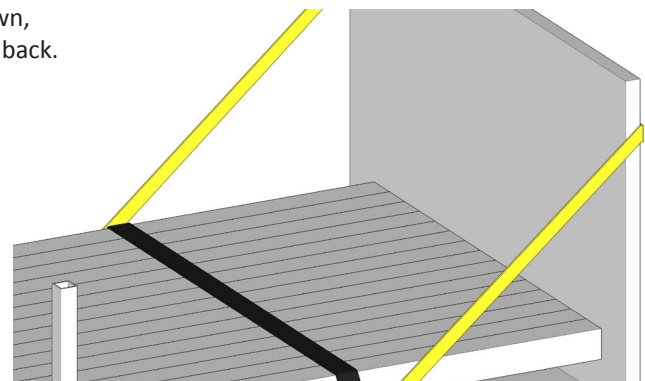
- ✓ Minimum of 5 tonne headboard for UK loads.

#### Un-rated headboards



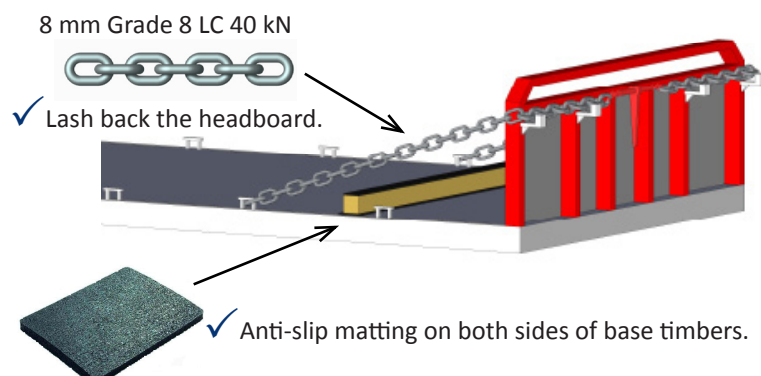
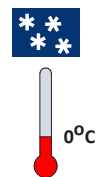
If headboard strength is unknown, the headboard requires lashing back.

- ✓ 8 mm Grade 8 LC 40 kN
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## 6. Severe winter weather advisory periods

- Anti-slip matting to be placed **on both sides** of ALL base timbers for ALL loads.
- Trailers with headboards rated to 10 tonnes or above, or approved by Tata Steel Load Restraint Engineers, or trailers with headboards manufactured to EN 12642 Code XL, can be loaded with product blocked to the trailer headboard to provide forward restraint.
- If the headboard strength cannot be verified, the headboard will require lashing back with a minimum 8 mm Grade 8 LC 40 kN chain (as shown)



8 mm Grade 8 LC 40 kN

- ✓ Lash back the headboard.

- ✓ Anti-slip matting on both sides of base timbers.

OR

THIS VEHICLE BODY COMPLIES WITH THE STANDARD  
**EN 12642-XL**