

TECHNICAL ADVICE DOCUMENT

Winter conditions - Plate - UK loads

1. This Technical Advice Document applies when:

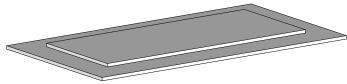
• Air temperature is below 3°C and there is a risk of frost, ice or snow.



Note: Testing has shown that friction coefficients of steel products can be reduced by as much as 50% in freezing conditions. This means that extra restraints are needed to make loads safe when there is a risk of ice.

This Technical Advice Document covers the following product:

Reversing mill plate



2. Essential requirements

- Trailers must be clear of debris, snow and ice.
- Do not load above the height of the trailer headboard.
- All restraint equipment must be inspected before use and be in good condition see relevant Technical Information Sheets for *Belly-wrapping*, *Timber dunnage*, *Transport chains and tensioners*, and *Anti-slip matting*.
- All chains must be 8 mm minimum and be compliant with EN 12195-3 (Grade 8 chain).
- Webbing ratchets are not an acceptable tensioner type for use with chains.





3. Winter weather alert

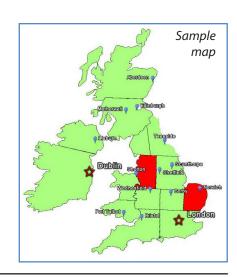
Throughout the winter period a system will be in place to notify hauliers and Tata Steel despatch points of the risk of freezing conditions.

Regions of the UK will be deemed Red Flag restraint areas for a period of 24 hours if there is a risk of ice forming on the load. These regions will be coloured red on a map sent out daily to all despatch points and hauliers.

Loads despatched from or transiting the Red Flag regions will require the restraints identified in this document.

Note: It is the **driver's responsibility** to apply the winter weather restraints when the load transits a region identified as **Red Flag**, or conditions deteriorate at the loading point or enroute and there is a risk of ice forming on the load.





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4. Loading and restraint requirements

4.1 Fully blocked load

- ✓ Use dry timbers where possible.
- ✓ Minimum number of restraints according to Table 1 and 2.
- Restraints over product less than trailer width are to be belly-wrapped.
- ✓ All product to be:
 - Loaded to trailer headboard or stanchions or
 - Blocked using wooden constructions or
 - Have direct restraint in the form of cross-over chains.

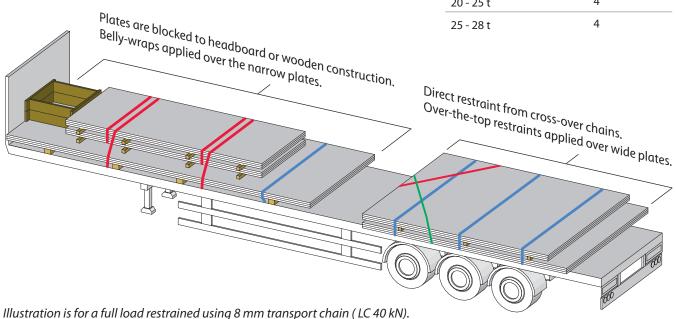
Illustration below shows how all three methods can be utilised.

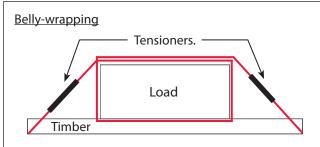
Table 1: 8 mm chain (LC 40 kN)

Load	Tie-down restraints
0 - 10 t	2
10 - 15 t	3
15 - 20 t	4
20 - 25 t	5
25 - 28 t	6

Table 2: 10 mm chains (LC 63 kN)

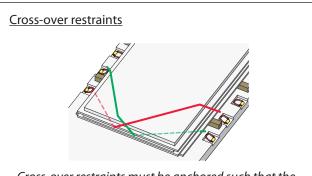
Load	Tie-down restraints
0 - 10 t	2
10 - 15 t	2
15 - 20 t	3
20 - 25 t	4
25 - 28 t	4





See Technical Information Sheet on Belly-wrapping for more detail.

Longer chains may be required in order to apply a belly-wrap. Alternatively, two chains may be connected together provided the chains have suitable end attachments.



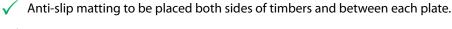
Cross-over restraints must be anchored such that the hooks of the restraints are prevented from sliding forward, ideally anchored to lashing points.

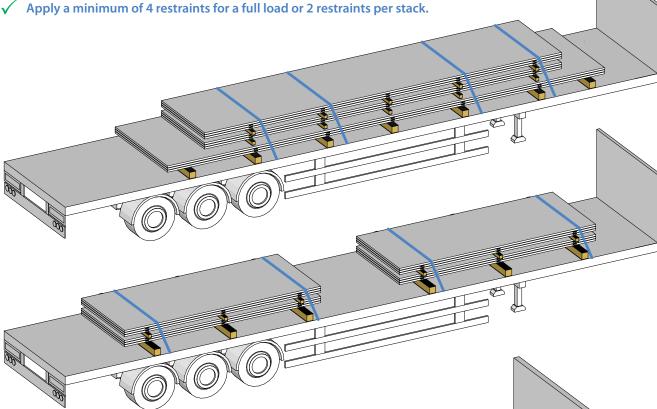
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4.2 Making use of anti-slip matting

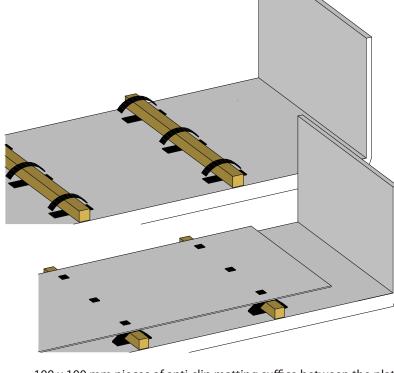






Loading with anti-slip matting

- 1. Place 500 mm long strips of anti-slip matting lengthways on the trailer, where the base timbers will be positioned.
- 2. Position base timbers across the anti-slip matting.
- 3. Place 500 mm long strips of anti-slip matting lengthways over the base timbers.
- 4. Load first plate.
- 5. Place anti-slip matting at regular intervals along the length of the plates, typically aligned with the timbers.
- 6. Load next plate and repeat.



100 x 100 mm pieces of anti-slip matting suffice between the plates.

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