✓ 2 pairs of opposing loops per stack for sideways restraint.

Cross-over straps to restraint in rearward direction.

This Load Restraint Guideline has been designed and tested to meet the forces for road and sea transport as stated in EN 12195-1:2010 and VDI 2700.

LOAD RESTRAINT GUIDELINE

Low friction sheet packs

1000 mm minimum length 700 mm minimum width

1. This guideline applies to:

TATA STEEL

- Low friction banded steel sheet packs. Low friction products are:
 - Pickled and oiled sheets
 - Cold reduced sheets
 - Coated sheet products.

The lowest friction factor for these products, determined as per EN 12195:2010-1 Annex B.1.2, is $\mu = 0.31$.

2. Essential requirements

- Packs must be banded with a minimum of 2 longitudinal and 2 lateral bands.
- All restraints must be web lashings compliant with EN 12195-2, minimum lashing capacity LC 2000 daN. .
- Web lashings must be protected from all sharp edges and abrasive surfaces, including trailer side raves.
- Maximum stack weight 8 tonnes.
- Maximum stack height 900 mm.

✓ Stacks blocked forward.

3. Overview of load configuration and restraint

Maximum weight of each stack must not exceed 8 tonnes. Maximum height of each stack must not exceed 900 mm. 900 mm max stack height





LOAD RESTRAINT GUIDELINE Low friction sheet packs

4. Overview of forward blocking options



5. Pyramid stacking



Sheet packs of different sizes can be stacked together:

- Align stacks at the front to allow restraints to be applied for forward forces (see Section 4 for options).
- If different sizes of sheet packs are stacked together apply additional straps to the longer packs.
- Top packs must be restrained for forward, sideways and rearward forces.
- Total weight of packs secured using opposing loops must be 2.5 tonnes minimum.



Note: Edge protection must be applied to webbing straps in contact with sharp edges. Dunnage must be positioned away from edges of the material.

Care has been taken to ensure that the contents of this publication are accurate, but Tata Steel UK Ltd and its subsidiaries do not accept responsibility or liability for errors or information that is found to be misleading.