TATA STEEL

TECHNICAL ADVICE DOCUMENT
Scrap coil in well - Trostre

1. This Technical Advice Document applies to

- The transportation of scrap coils in the well from Trostre.
- Scrap coil weights of up to 10 tonnes each.
- This document **DOES NOT** cover narrow coils.

*The internal friction factor for coils, determined as per EN 12195-1:2010 Annex B.1.2 is $\mu=0.30$*

2. Essential requirements

- ALL scrap coils must have a minimum of 2off circumferential bands fitted.
- Well trailers with a minimum 30° well angle.
- All webbing straps must have a minimum lashing capacity of 2000 daN and must be compliant with EN 12195-2.
- Load coils tight against the front of the coil well, or against heavy duty well posts, with all coils butted up together.
- Well posts must have a minimum cross-section of 90mm x 90mm x 5mm thick.
- Suitable timber dunnage placed between the coils and the well posts to prevent forward telescoping.
- Well boards with the addition of 2 webbing straps (pulling forwards) must be used to prevent rearwards telescoping.
- 1 webbing strap over the top of each coil.
- Webbing sleeve edge protection must be used on all edges in contact with the webbing straps.
- Consider axle weight loadings at all times.

3. Load configuration and restraint

3.1 Restraint system using stanchions

✓ Stanchions: 90mm x 90mm x 5mm minimum.

✓ Timber dunnage to cover coil bore (See Table 1).

✓ Well board with 2 webbing straps to prevent rearward telescoping
  + 1 over-the-top restraint per coil.
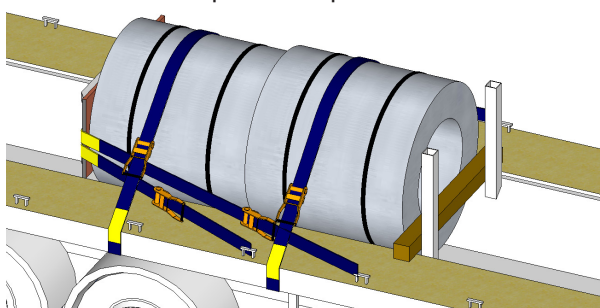
LC 2000 daN straps
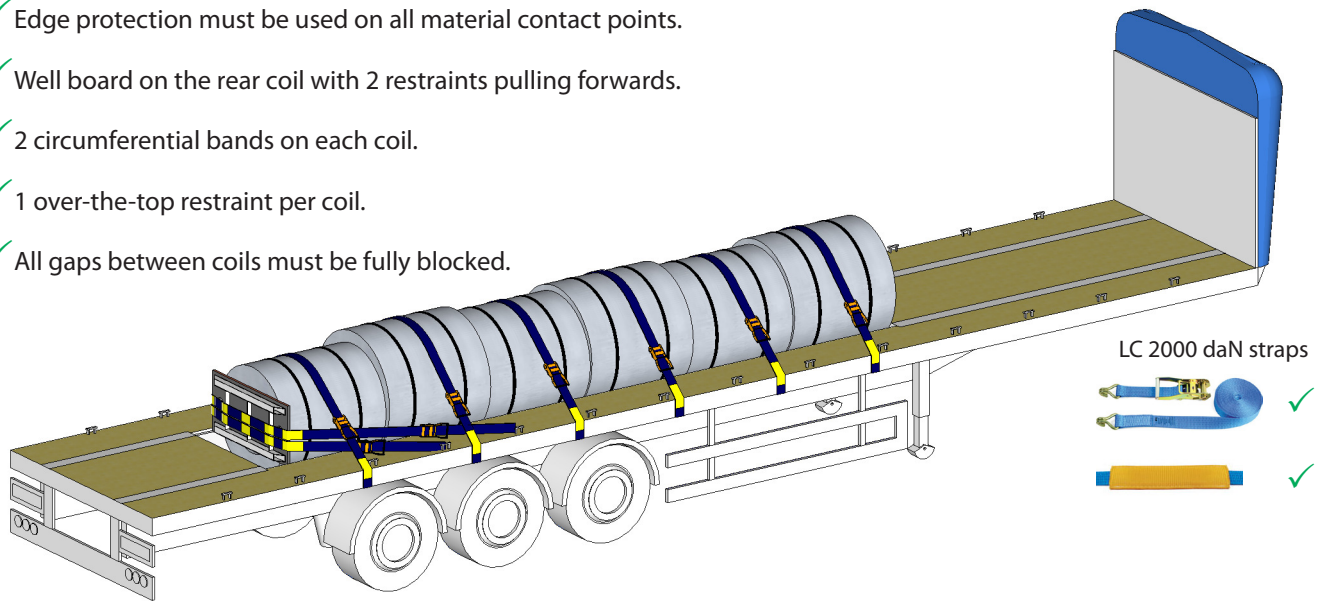
Table 1: Minimum blocking height (mm)

Coil Outside Diameter	Minimum blocking height
1400	100
1500	150
1600	190
1700	230
1800	270
1900	300
2000	340
Max height	450

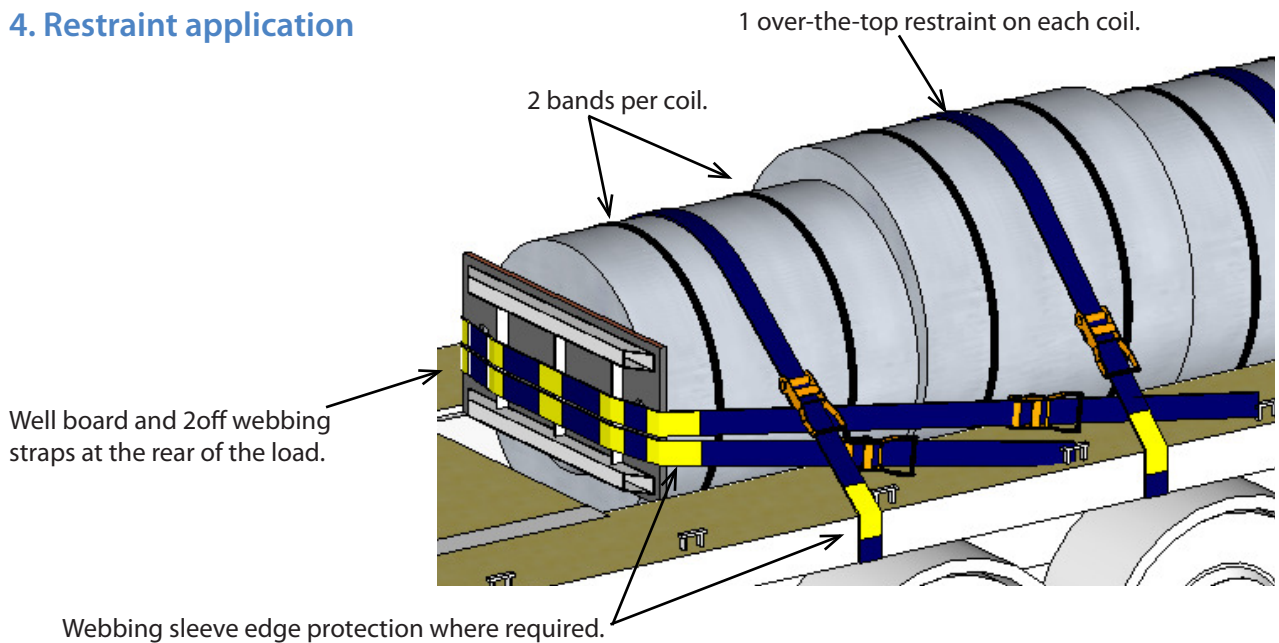# TECHNICAL ADVICE DOCUMENT
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3.2 Restraint system - blocked to front of well

✓ Edge protection must be used on all material contact points.

✓ Well board on the rear coil with 2 restraints pulling forwards.

✓ 2 circumferential bands on each coil.

✓ 1 over-the-top restraint per coil.
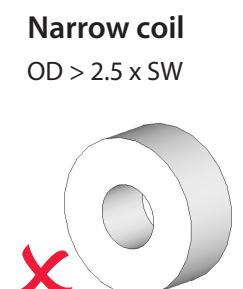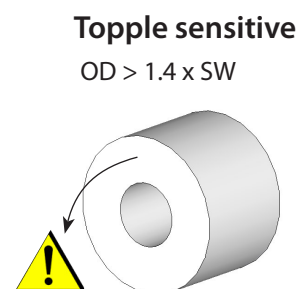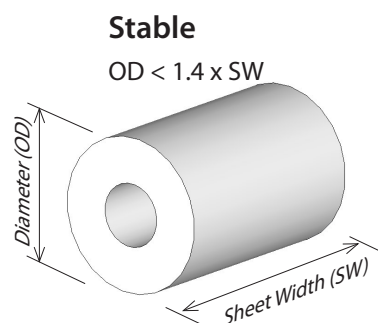
✓ All gaps between coils must be fully blocked.

LC 2000 daN straps

✓

✓

4. Restraint application

1 over-the-top restraint on each coil.

2 bands per coil.

Well board and 2off webbing straps at the rear of the load.

Webbing sleeve edge protection where required.

Note:

✓ **Stable coils**
   10 tonnes max

❗ **Topple sensitive**
   10 tonnes max

✗ **Topple sensitive**

Stable
OD < 1.4 x SW

Topple sensitive
OD > 1.4 x SW

Narrow coil
OD > 2.5 x SW

Diameter (OD)

Sheet Width (SW)

⚠

✗