

1. This guideline applies to:

- Wire Rod in coil loaded for export ferry crossings.

Note: The friction factor between coils and trailer decks determined as per EN 12195-1:2010 Annex B.1.2 is  $\mu=0.49$

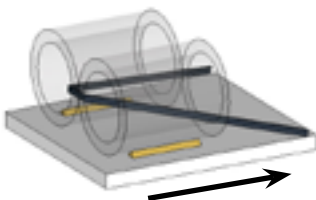
2. Essential requirements

- All restraints must be webbing straps with minimum lashing capacity of 2000 daN compliant with EN 12195-2.
- All loads must be loaded or blocked against the trailer headboard.
- 2 small coils loaded side-by-side across the trailer to be treated as one.
- All coils securely banded with minimum of 4 evenly distributed steel bands.
- Triangular chocks must be used as shown on drawings to prevent coils rolling.

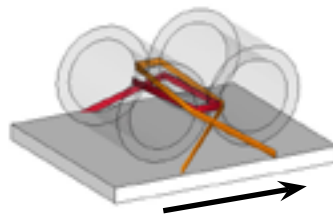


Warning: Unchocked coils may roll whilst loading and unloading. Use temporary chocks as necessary.

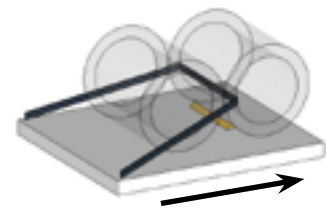
3. Overview of different strapping arrangements



- ✓ Direct lashing through the bore of cross-loaded coils.
- ✓ Triangular chocks wedged on the outside of gunbarrel coils.



- ✓ 2 alpha-straps for each pair of cross-loaded coils.



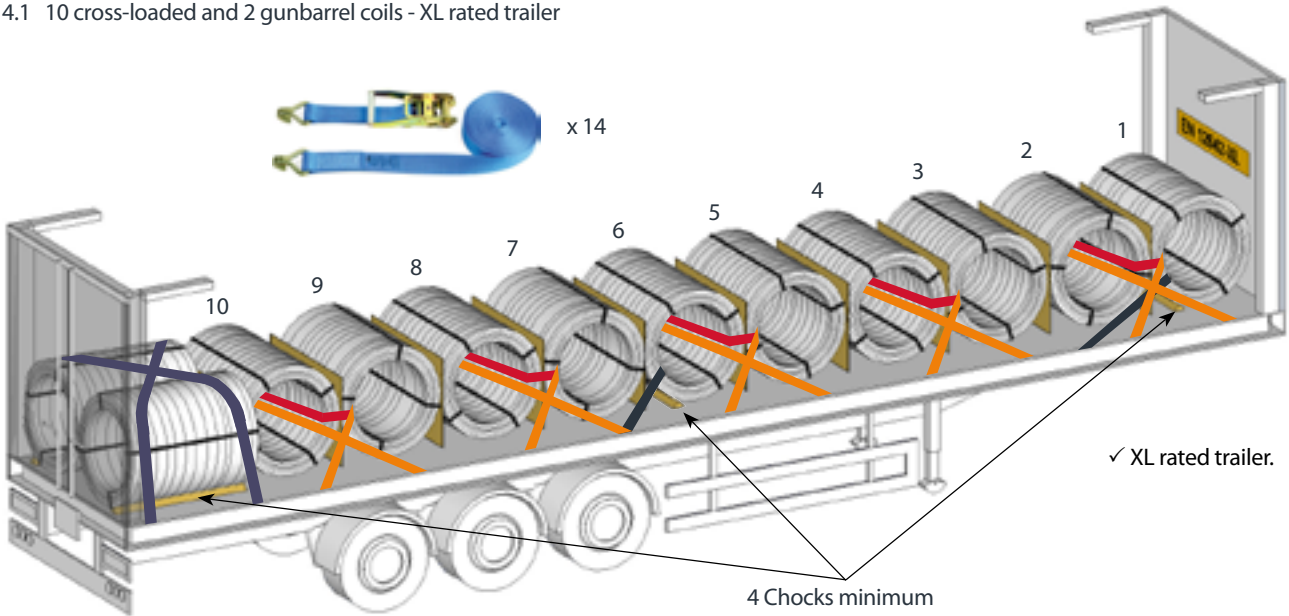
- ✓ Direct lashing through the bore of cross-loaded coils.
- ✓ Triangular chocks under each coil secured with a direct strap.

#### 4. Restraint system for XL rated trailers



Typical plaque on a trailer with a headboard and rear doors rated to EN 12642 Code XL.

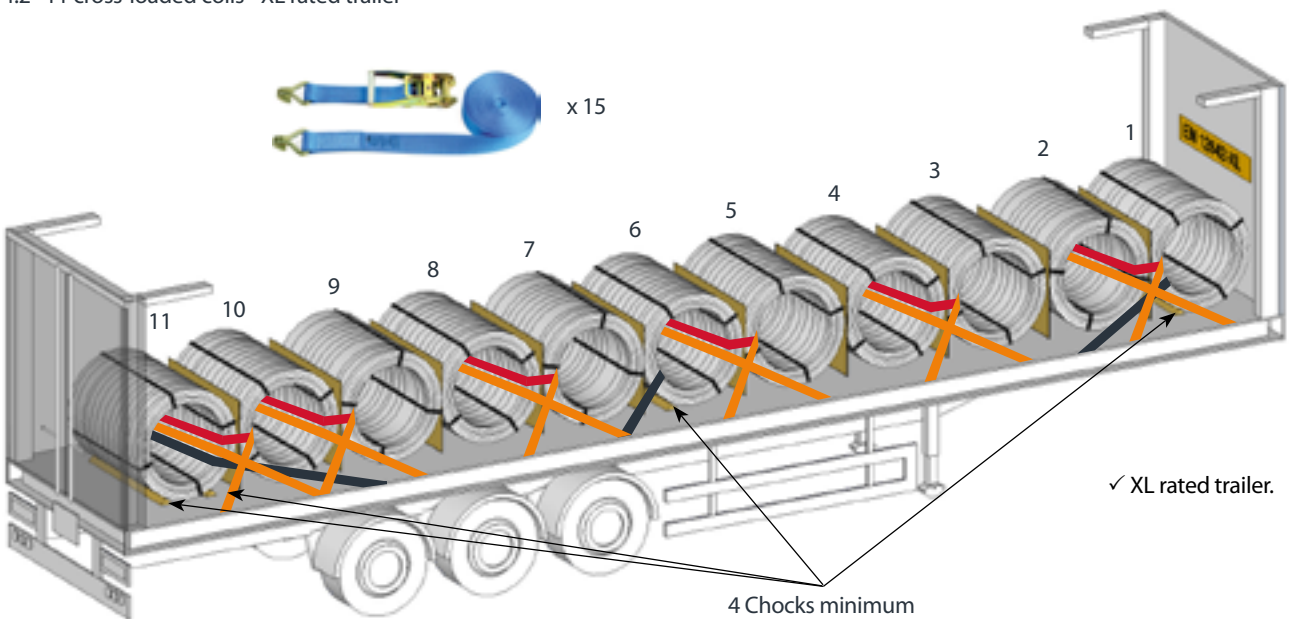
##### 4.1 10 cross-loaded and 2 gunbarrel coils - XL rated trailer



- ✓ Load to the headboard, and rear coils will be close to the rear doors.
- ✓ 2 over-the-top straps applied to the pair of gunbarrel coils at the rear.

- ✓ 2 direct lashings through the coils pulling back (coils 1 and 6).
- ✓ 2 alpha-straps for each pair of cross-loaded coils.
- ✓ Triangular chocks positioned as per drawing.

##### 4.2 11 cross-loaded coils - XL rated trailer



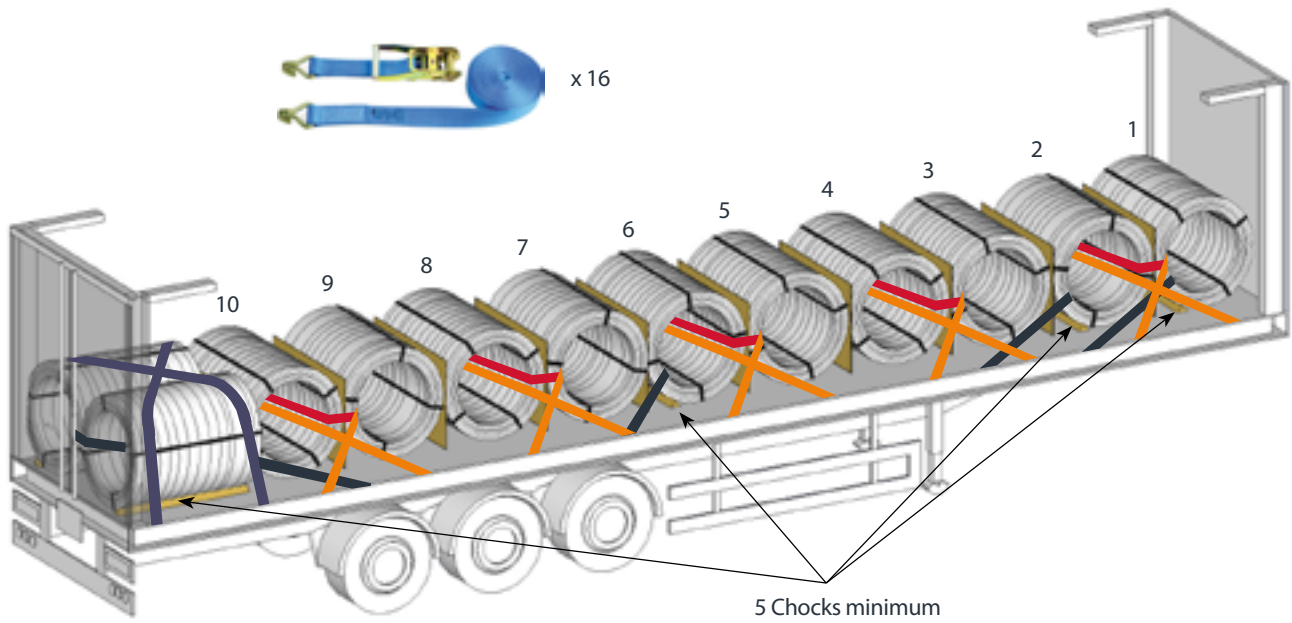
- ✓ 1 direct lashing through the rear coil pulling forwards.
- ✓ 2 alpha-straps for each pair of cross-loaded coils.

- ✓ 2 direct lashings through the coils pulling back (coils 1 and 6).
- ✓ Triangular chocks positioned as per drawing.



5. Restraint system for non XL rated trailers

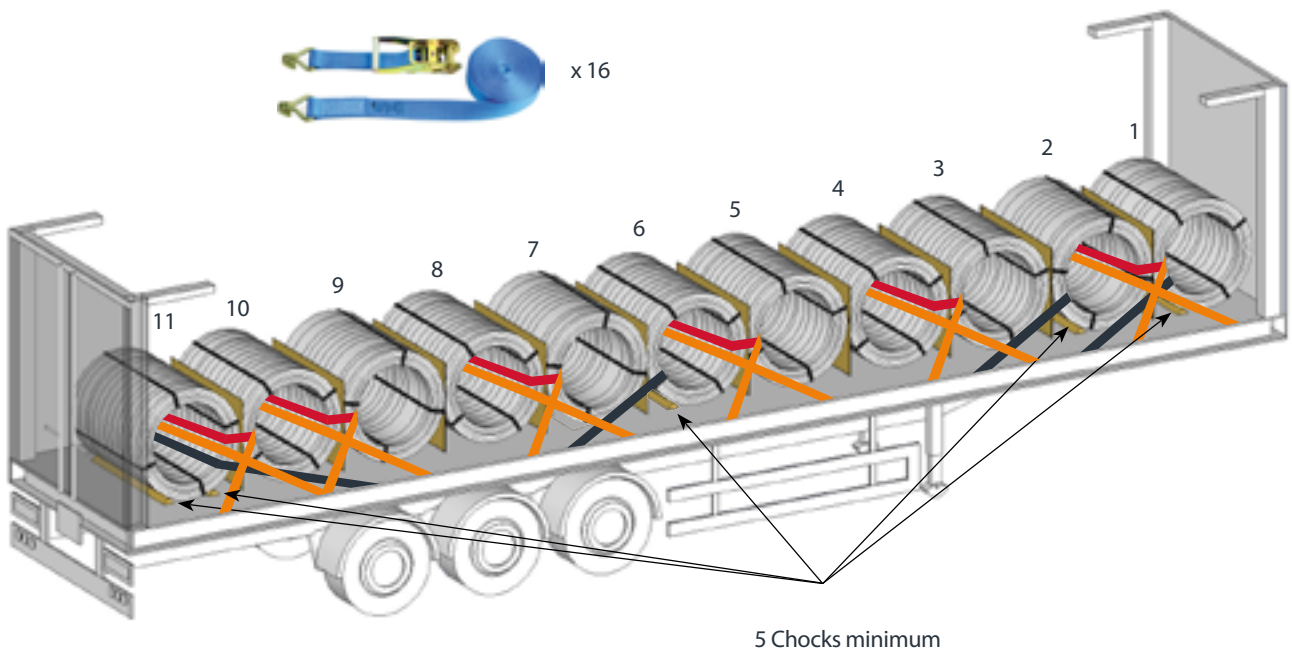
5.1 10 cross-loaded and 2 gunbarrel coils - non XL rated trailer



- ✓ 1 direct lashing through the pair of gunbarrel coils at the rear pulling forwards.
- ✓ 2 over-the-top straps applied to the pair of gunbarrel coils at the rear.

- ✓ 3 direct lashings through the front coils pulling back (coils 1, 2 and 6).
- ✓ 2 alpha-straps for each pair of cross-loaded coils.
- ✓ Triangular chocks positioned as per drawing.

5.2 11 cross-loaded coils - non XL rated trailer



- ✓ 1 direct lashing through the rear coil pulling forwards (coil 11).
- ✓ 2 alpha-straps for each pair of cross-loaded coils.

- ✓ 3 direct lashings through the front coils pulling back (coils 1, 2 and 6).
- ✓ Triangular chocks positioned as per drawing.

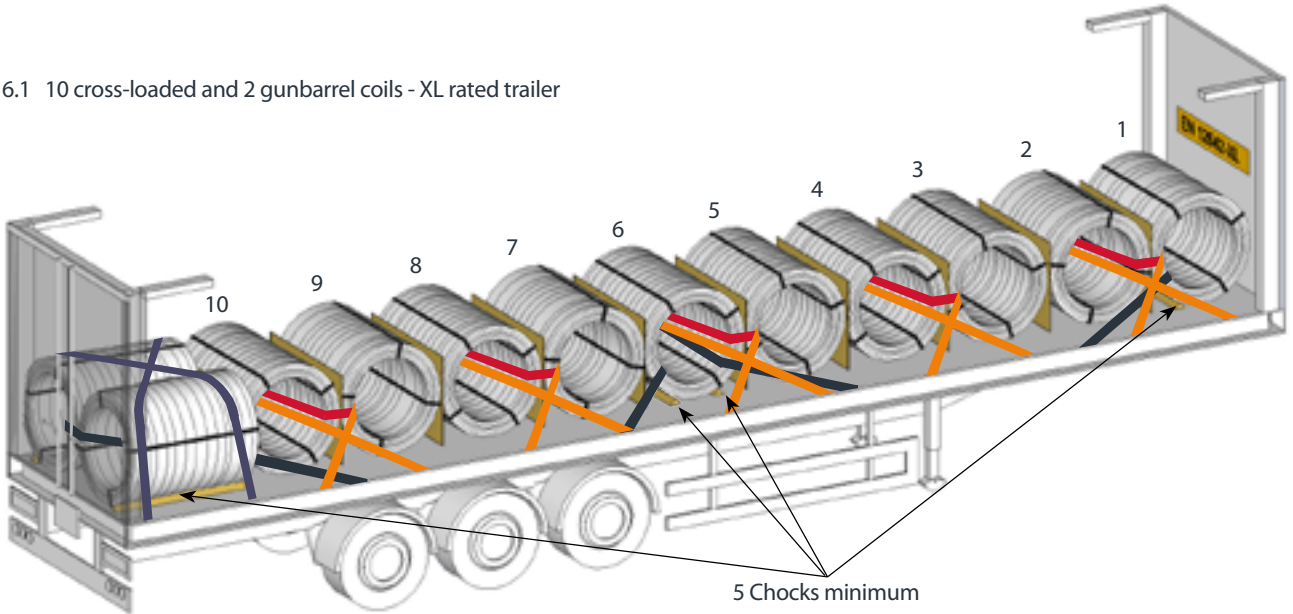


6. Intermodal rail loads - MUST use XL rated trailers



Typical plaque on a trailer with a headboard and rear doors rated to EN 12642 Code XL.

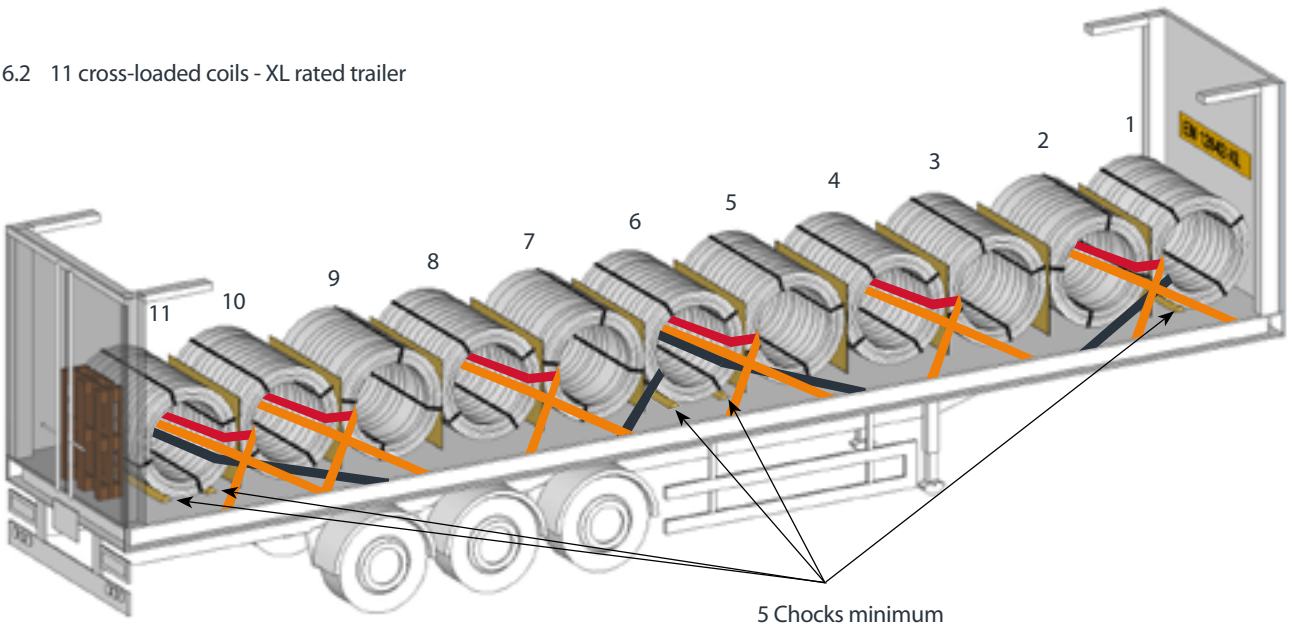
6.1 10 cross-loaded and 2 gunbarrel coils - XL rated trailer



- ✓ 2 over-the-top straps applied to the pair of gunbarrel coils at the rear. Rear coils must be close to rear doors.
- ✓ 1 direct lashing through the pair of gunbarrel coils at the rear pulling forwards.
- ✓ 1 direct lashings through middle coil pulling forwards (coil 6).

- ✓ 2 direct lashings through the front coil pulling back (coils 1 and 6).
- ✓ 2 alpha-straps for each pair of cross-loaded coils.
- ✓ Triangular chocks positioned as per drawing.

6.2 11 cross-loaded coils - XL rated trailer



- ✓ 2 direct lashings through coils pulling forwards (coils 6 and 11).
- ✓ Block any gap between coils and rear doors.

- ✓ 2 direct lashings through the coils pulling back (coils 1 and 6).
- ✓ 2 alpha-straps for each pair of cross-loaded coils.
- ✓ Triangular chocks positioned as per drawing.

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