

1. This guideline applies to:

- Wire rod in coil loaded for UK road, Export ferry crossings and Intermodal transportation.

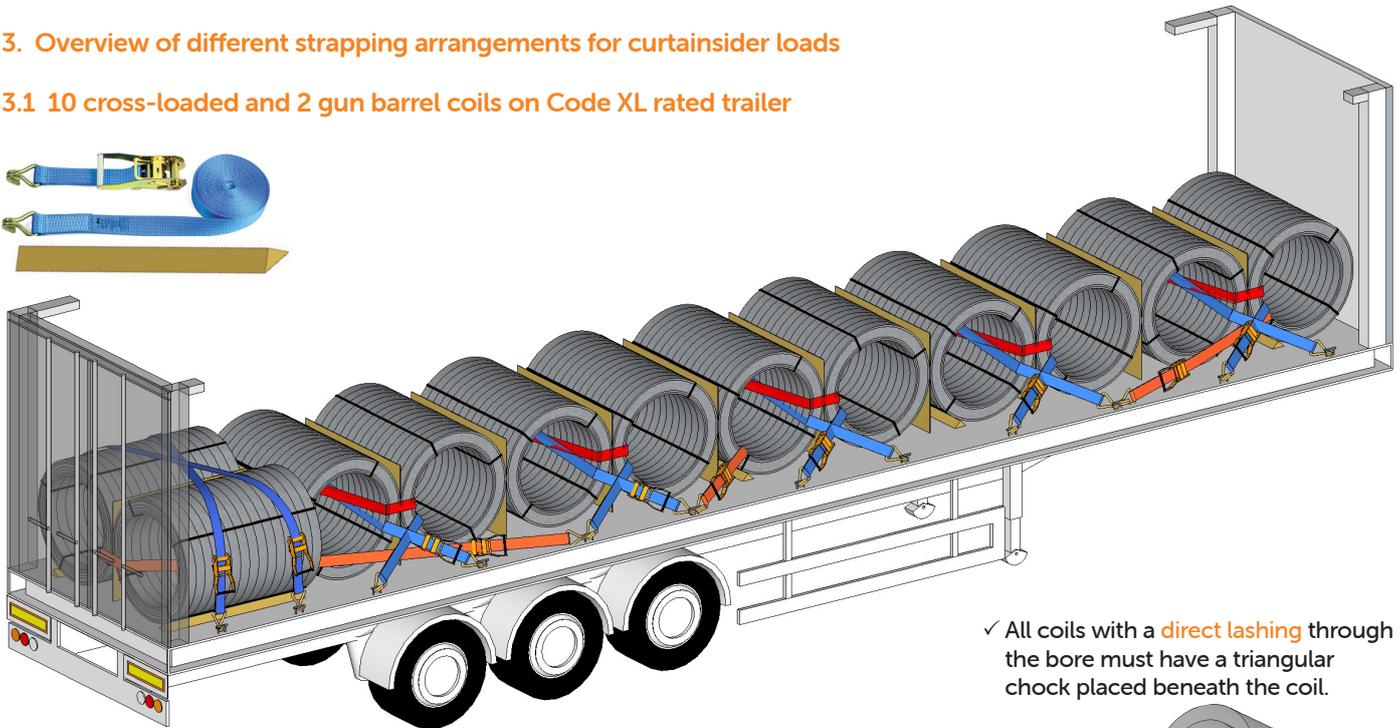
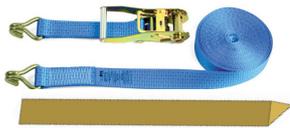
Note: The friction factor between coils and trailer decks determined as per EN 12195-1:2010 Annex B.1.2 is $\mu=0.49$

2. Essential requirements

- All restraints must be a minimum of LC 2000 daN webbing straps and must be compliant with EN 12195-2.
- All loads must be loaded or blocked against a Code XL trailer headboard.
- 2 small coils loaded side-by-side across the trailer to be treated as one standard coil.
- All coils securely banded with minimum of 4 evenly distributed steel bands.
- Triangular chocks must be used as shown to prevent coils rolling.
- DO NOT overload lashing points (see TIS-0009 Lashing Points for further details).

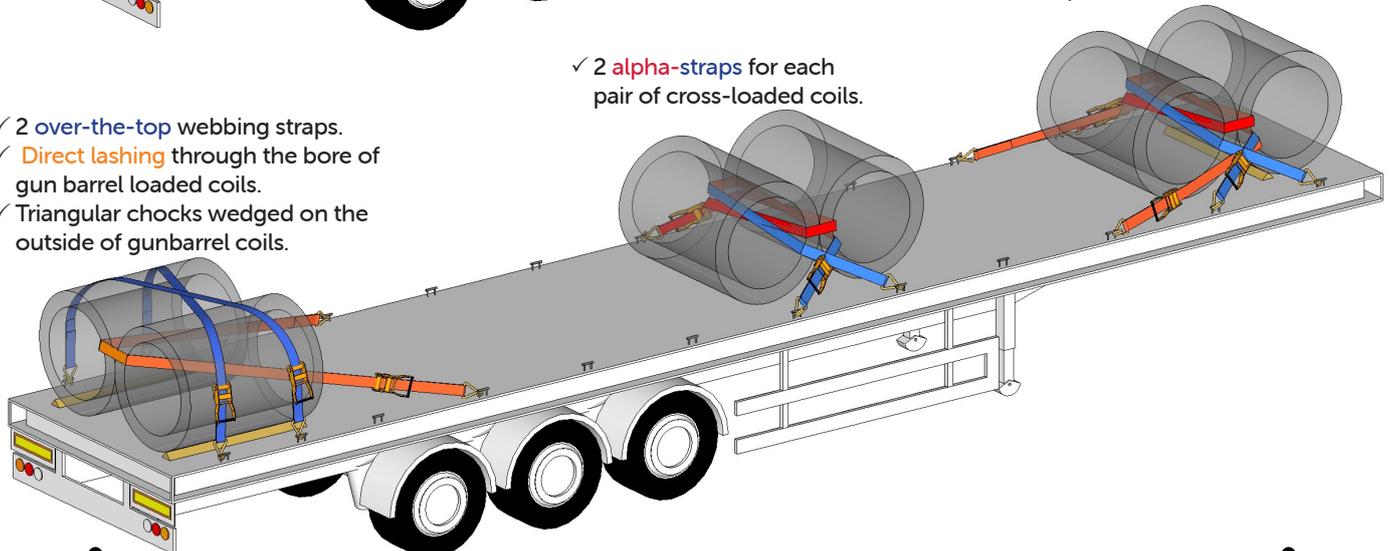
3. Overview of different strapping arrangements for curtainsider loads

3.1 10 cross-loaded and 2 gun barrel coils on Code XL rated trailer



- ✓ 2 **over-the-top** webbing straps.
- ✓ **Direct lashing** through the bore of gun barrel loaded coils.
- ✓ Triangular chocks wedged on the outside of gunbarrel coils.

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



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

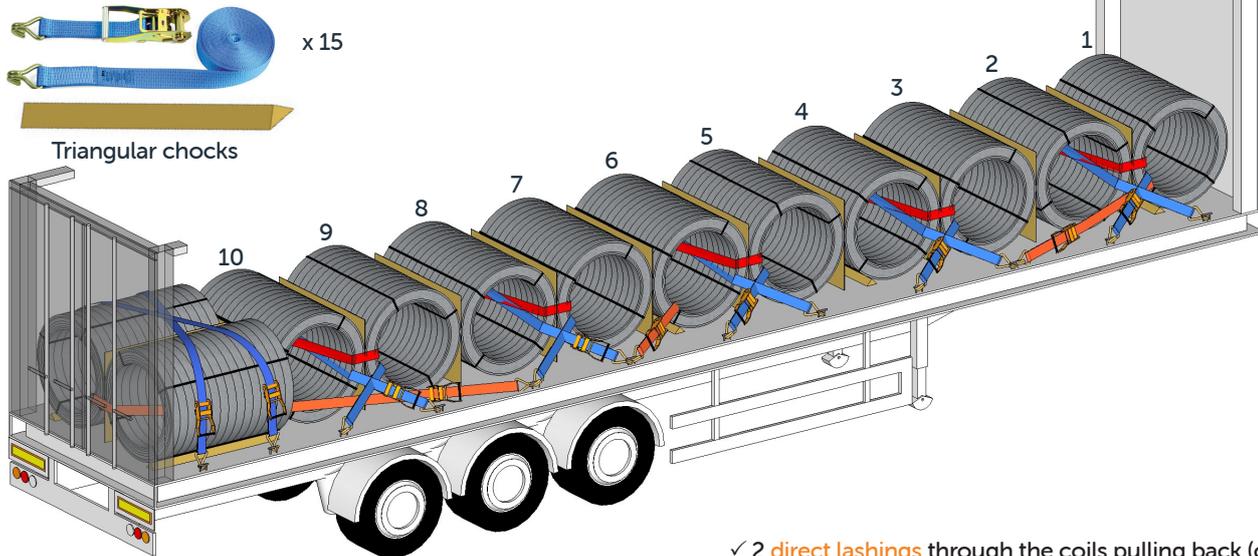


4. Restraint system for UK and Export loads on Code XL curtainsider trailers



EN 12642 Code XL trailers must visually display the correct certification.

4.1 10 cross-loaded and 2 gun barrel coils on Code XL curtainsider trailer

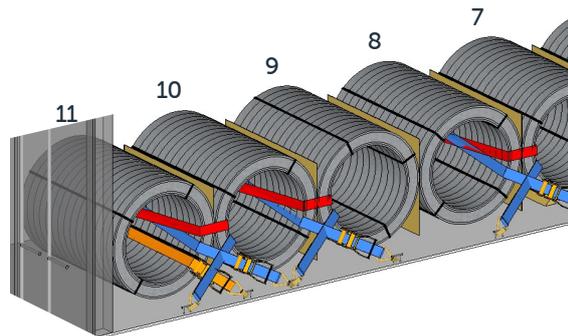


- ✓ Load to the headboard, and rear coils will be close to the rear doors (if the gap is greater than 150mm, a **direct restraint** is required on the gun barrel coils).
- ✓ 2 **over-the-top** straps applied to the pair of gun barrel coils at the rear.

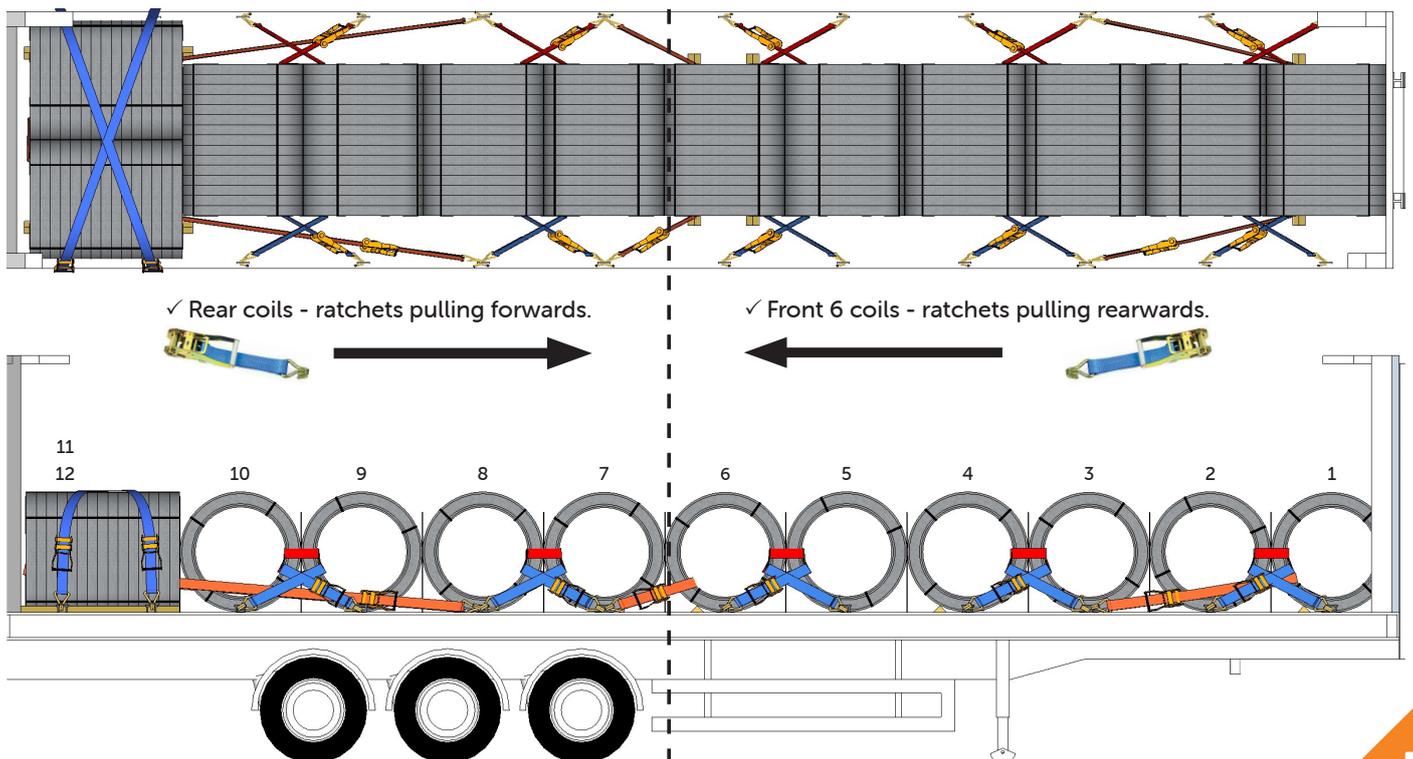
- ✓ 2 **direct lashings** through the coils pulling back (coils 1 and 6).
- ✓ 2 **alpha-straps** for each pair of cross-loaded coils.
- ✓ Triangular chocks fitted on all coils with **direct lashings**.

4.2 11 cross-loaded coils on Code XL rated trailer

- ✓ 11 coil load - **direct lashings** and **alpha-strap** layout on rear coil.

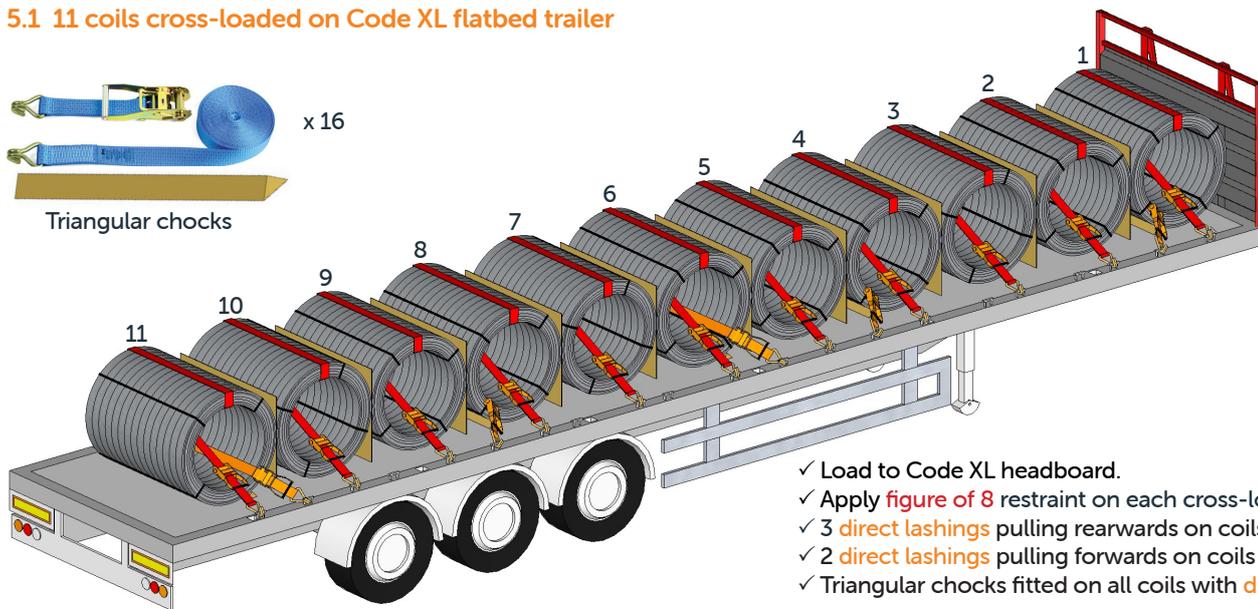


4.3 Ratchet positions and direction of pull



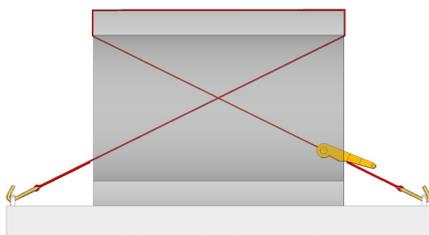
5. Restraint system for UK road loads on Code XL flatbed trailers

5.1 11 coils cross-loaded on Code XL flatbed trailer

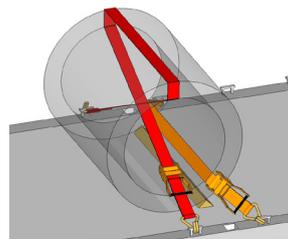


- ✓ Load to Code XL headboard.
- ✓ Apply **figure of 8** restraint on each cross-loaded coil.
- ✓ 3 **direct lashings** pulling rearwards on coils 1, 4 and 8.
- ✓ 2 **direct lashings** pulling forwards on coils 6 and 11.
- ✓ Triangular chocks fitted on all coils with **direct lashings**.

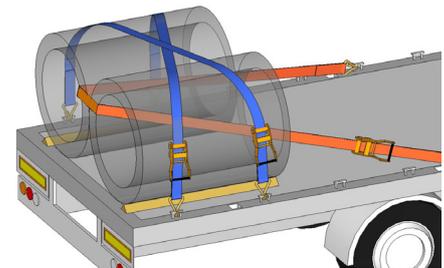
5.2 Flatbed restraint arrangements



- ✓ 1 **figure of 8** webbing strap per cross-loaded coil.



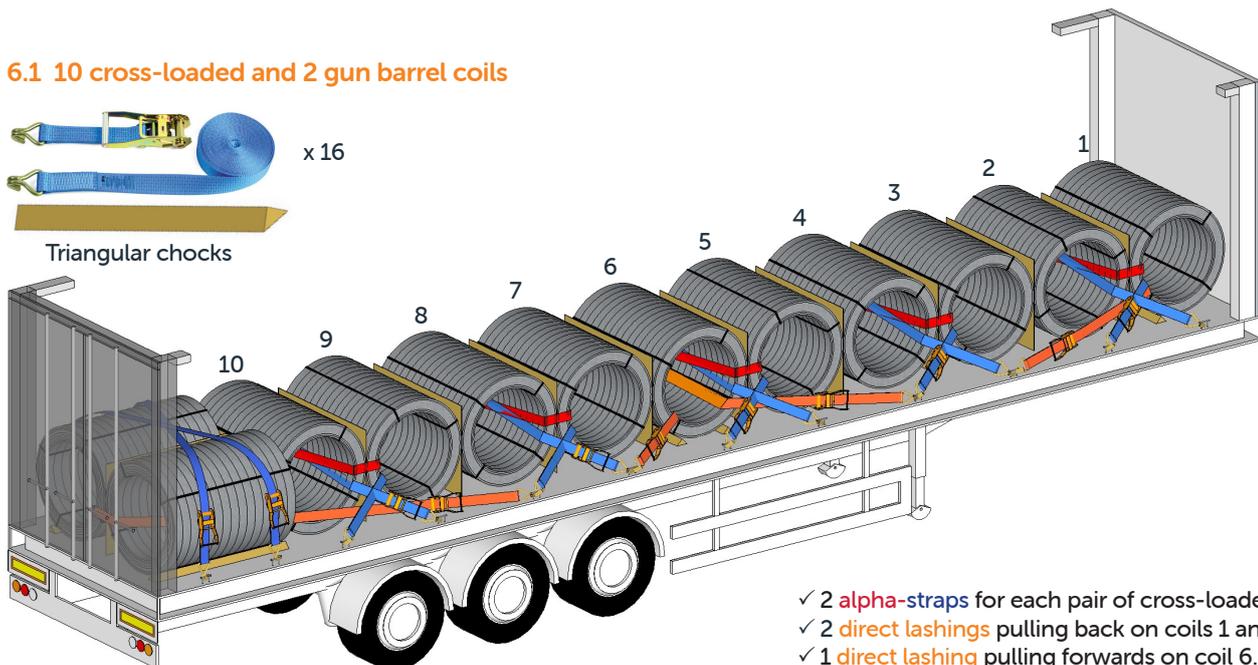
- ✓ Ensure **figure of 8** restraints are fitted centrally and pull down vertically.



- ✓ Rear gun barrel coils must have a **direct restraint** fitted for all flatbed loads.

6. Intermodal rail loads - Code XL curtainsider trailer

6.1 10 cross-loaded and 2 gun barrel coils

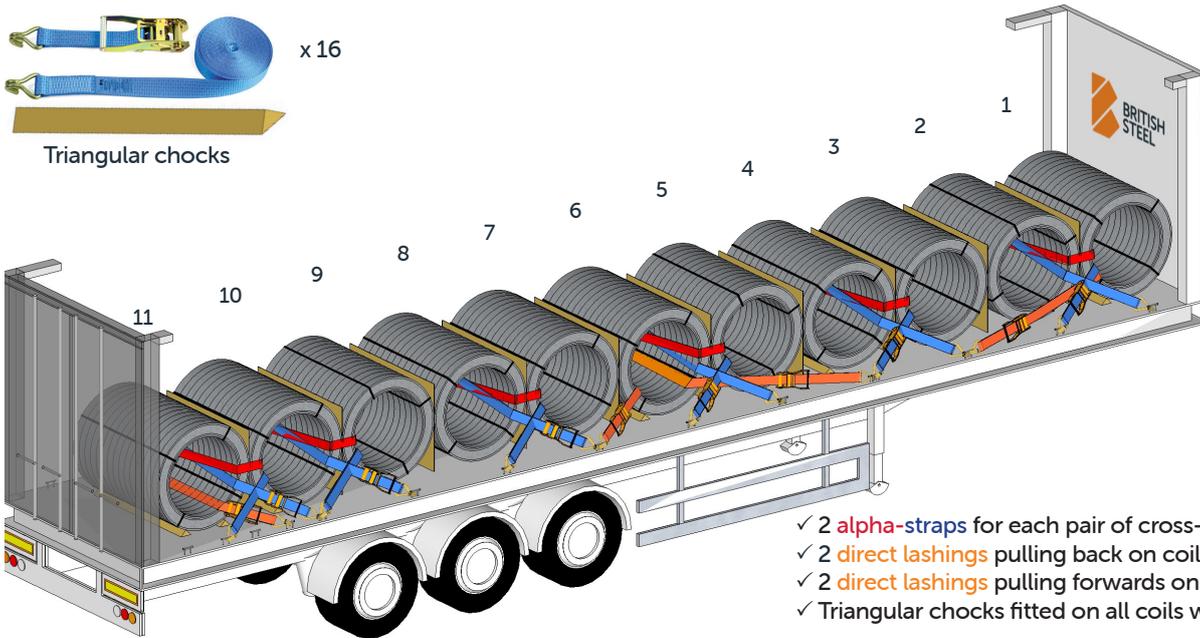
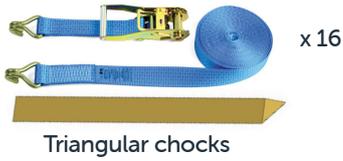


- ✓ 2 **over-the-top** straps applied to the pair of gun barrel coils at the rear. Rear coils must be within 150mm of the rear doors.
- ✓ Block rear gap to door if required.
- ✓ Triangular chocks fitted on all coils with **direct lashings**.

- ✓ 2 **alpha-straps** for each pair of cross-loaded coils.
- ✓ 2 **direct lashings** pulling back on coils 1 and 6.
- ✓ 1 **direct lashing** pulling forwards on coil 6.
- ✓ 1 **direct lashing** through the rear gun barrel coils pulling forwards.



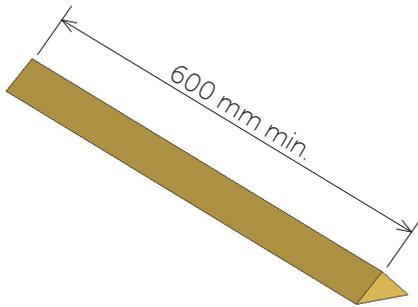
6.2 11 cross-loaded coils



✓ Block any gap greater than 150mm between coils and rear doors.

- ✓ 2 **alpha-straps** for each pair of cross-loaded coils.
- ✓ 2 **direct lashings** pulling back on coils 1 and 6.
- ✓ 2 **direct lashings** pulling forwards on coils 6 and 11.
- ✓ Triangular chocks fitted on all coils with **direct lashings**.

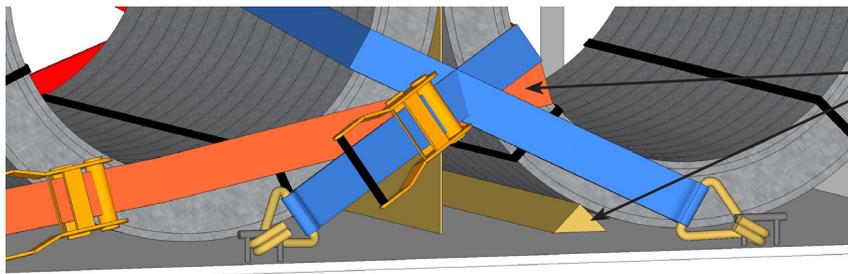
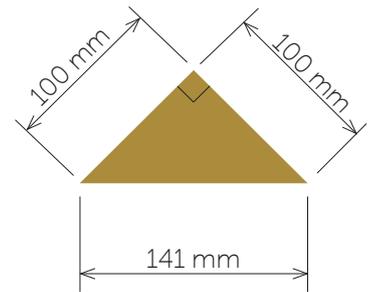
7. Timber dunnage



Timber chocks must be a **minimum** size of 100mm x 100mm right angled triangles positioned on the 141 mm face as shown.

Minimum length 600 mm.

Chocks must be wedged tightly under the coils and re-checked after restraint straps are applied.



✓ All coils with **direct restraints** applied must have a timber chock fitted beneath.

8. Winter weather advisory periods



Curtainsider and flatbed trailers - UK and Export loads

- ✓ Add 1 **direct restraint** pulling rearwards.
- ✓ Add 1 **direct restraint** pulling forwards.



Curtainsider trailers - Intermodal loads

- ✓ Add 2 **direct restraints** pulling rearwards.
- ✓ Add 2 **direct restraints** pulling forwards.

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4 BUILDING STRONGER FUTURES

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