

This Technical Information Sheet outlines the importance of edge protection for webbing straps that are used to restrain steel loads for road transport.

1. Purpose

Edge protection is required to protect the strap from sharp or abrasive edges of the product or trailer. Failure to apply appropriate edge protection to the strap introduces the risk of cutting the strap and losing some or all of the restraint on the product.

Edge protection also reduces the stress on the outer fibres of the strap by increasing the radius of the corner. Using the a strap over a tight corner without edge protection will reduce strap strength significantly.

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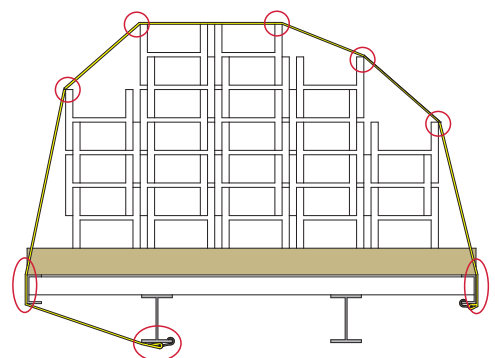
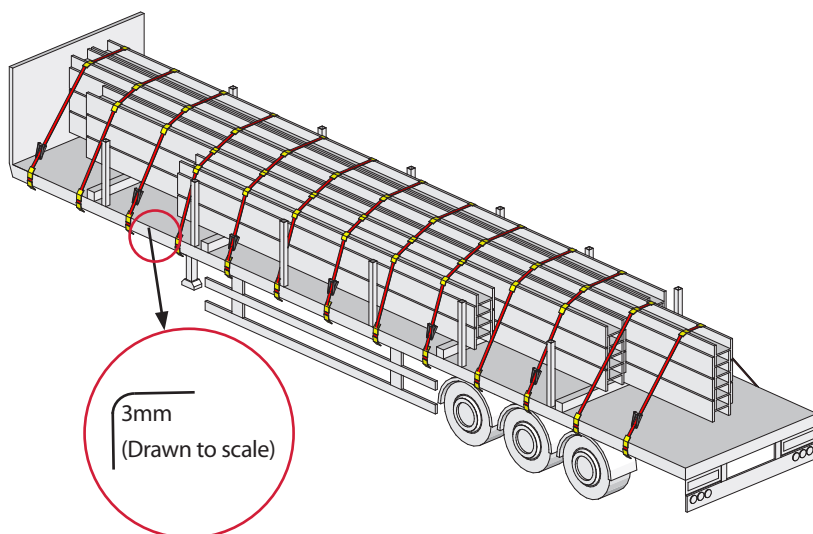
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It is important to note that each strap used to keep the product on the trailer works as part of a system of restraints where failure of one component could compromise the entire system

2. Where to apply

- ✓ Straps must be protected when in contact with any corner of the product or trailer with a radius of less than 3mm.
- ✓ Every point where the strap is in contact with a sharp or abrasive edge of the product must be adequately protected.
- ✓ Where straps are anchored to the trailer chassis beam, edge protection must be applied to protect the strap from trailer side raves.




3. Requirements

- Edge protection must be appropriate for the method of restraint being used:
 - high level of abrasion and cut resistance against sharp and/or rough edges of the product or trailer;
 - flexible enough to form to the shape of curved edges without damage e.g. coil bore;
 - ensure straps cannot slide off during use.

4. Examples of good and poor edge protection

✓ Heavy duty webbing wear sleeve
(Polyester, minimum 3mm thick)




- ✓ Excellent abrasion resistance.
- ✓ Good flexibility.
- ✓ Recommended edge protection for all steel loads.

✗ Lightweight wear sleeve



- ✗ Poor abrasion resistance.
- ✗ Poor cut resistance.
- ✗ Not to be used as edge protection for steel products.

✓ Coil bore packaging



- ✓ Good abrasion resistance.
- ✓ Good flexibility.
- ✗ Slippery - NOT to be used with tie-down restraints .
- ✓ Recommended for direct restraints through coil bores.

✗ Foam edge protection



- ✗ Poor abrasion resistance.
- ✗ Poor cut resistance.
- ✗ Not to be used as edge protection for steel products.

✓ Plastic corner protectors



- ✓ Good abrasion resistance.
- ✗ Poor flexibility.
- ✓ Ideal for tie-down restraints.
- ✓ Recommended edge protection for straight edges only.

✗ Cardboard corner protectors



- ✗ Poor flexibility.
- ✗ Slippery - not to be used with tie-down restraints .
- ✗ Not recommended as edge protection for steel products.

It is not acceptable to use anti-slip matting as a substitute for edge protection.

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