EN 12 195-2
STANDARD
March 2001

The European Committee of Normalization (CEN) have agreed and decided that lashing devices shall be manufactured according to the European Standard for lashing EN-12195-2. This standard provides the user with all information as regards to the products itself and its follow up which is similar to the regulation applied to lifting equipment.

Features:

- **WLL or LC**: Working Load Limit (WLL) or Lashing Capacity (LC) = Maximum direct tensile strength which a lashing device can withstand when used.
- **Safety factor**: 2 times for the complete system, 2 times for fittings, 3 times for non-woven webbing.
- **Test**: hooks and accessories including the lashing devices must not show any signs of deformation likely to affect their performance at a LC of 1,25; they must also withstand a safety factor of at least 2.
- **Elongation**: The webbing must not elongate more than 7% when subjected to the LC.

Product description and ordering:

The description of lashing systems must include all the following information:

- the type of lashing device represented with its reference:
  - One part system (endless),
  - Two parts (short part and long part),
  - Reference of type, according to the manufacturer,
  - Working Load Limit (WLL) in daN,
  - Length of the short part in meters,
  - Total length (L) in meters,
  - Reference to this standard.

Marking:

End fittings, buckles, tensioning devices and load indicators must at least bear the name or the symbol of their manufacturer or supplier. Each complete set of products or subset, in case components have to be separated, must bear the following information on a tag.

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**LASHING PRODUCT LABEL**

** записи:

<table>
<thead>
<tr>
<th>S_{MF} = standardized manual force</th>
</tr>
</thead>
<tbody>
<tr>
<td>This is the manual action force of 500 N (50 daN) on the label in order to not overload the lashing webbing slings. Do not use any accessories such as bars, levers...</td>
</tr>
<tr>
<td>This regulation is specified in the EU standard 12195-2:2001 (see enclosure).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>S_{TF} = standardized capacity load</th>
</tr>
</thead>
<tbody>
<tr>
<td>This is the residual force after loosening the handle of the ratchet and pawl, fixed to 10 % of the loading capacity, i.e. 10 % of the loading capacity mentioned on the label.</td>
</tr>
<tr>
<td>This 10 % value is specified in the EU standard EN 12195-1 (see enclosed).</td>
</tr>
</tbody>
</table>

**Features**:

- **TMU**: 2000 daN
- **TMU**: 4000 daN
- **LC (daN)**: Manufacturer's number and code, follow up identification number and raw material used
- **Supplier**
- **Year of production**
- **Identification number of the standard**
- **Lashing capacity**
- **Standardized capacity load**
- **Webbing material**
- **Length**
- **Warning instruction**
- **Identical identification number of the standard**

**LABEL COLOURS**:

- Blue for polyester webbing slings
- Green for polyamide webbing slings
- Brown for polypropylene webbing slings

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**Check the LC with the lashing load**

**Do not make knots or use cut webbing slings**

**Protect webbing slings against sharp edges**

**Use them at temperatures between -40°C to +100°C**

**Do not lash slantwise**

**Standard reference**

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**REMINDER**
LASHING SYSTEMS
OPERATING INSTRUCTIONS IN 25 POINTS

1. The lashing systems must be used and selected according to:
   a) The required loading capacity,
   b) The kind of use,
   c) The type of load.
   This selection will be made according to:
   a) The size, the shape and the weight of the load,
   b) The expected method of use,
   c) Transportation,
   d) The type of load.
   The minimal lashing is made up of:
   a) A pair of lashing systems for a rubbing lashing,
   b) Two pairs of lashing systems, for a direct lashing.
   Selected lashing systems should be strong enough and should have the appropriate length for its use.
   Follow exactly the given instructions for the lashing: foresee the fixing and removing of the lashing systems before transportation starts.
   Remove all the lifting equipment before lashing the load.
   Remember that the loading can be partly unloaded in case of long distance transportation.
   Count the amount of lashing systems in accordance with the EN 12195-1 standard.
   Only the lashing systems meant for rubbing lashing with STF mentioned on the label can be used for this type of lashing.
   Different kinds of lashing systems (lashing chain and lashing webbing slings) must not be used to lash the same load because of their different performances and elasticity when they are loaded.
   Take into account the different fixing and secondary lashing devices; they must be compatible with the lashing systems.
   When using large hooks, ensure that the anchoring place is situated along the whole hook width.
   When releasing the load, make sure the load stability is independent from the lashing. Its releasing must not allow the load to fall out of the vehicle, which could be dangerous for the staff.
   For other means of transport, fix the lifting equipment in the load before releasing the buckles in order to avoid falls.
   Before unloading, lashing systems must be released in order to unload freely.
   While you load or unload, ensure that no high tension line is close to you.
   Lashing systems in accordance with the EN 12195 standard may be used between the following range of temperatures:
   a) Between -40°C to +80°C for polypropylene,
   b) Between -40°C to +100°C for polyamide,
   c) Between -40°C to +100°C for polyester.
   These temperatures can change in a chemical environment. In this case, ask manufacturer or supplier for advice.
   During the transportation, a variation of the ambient temperature can modify the strength of the lashing system. After entering heated areas, check the tension effort.
   Lashing systems are made up of materials which can resist chemical product attacks. Ask the manufacturer or supplier for advice if such hazardous conditions may occur. Chemical product effects can increase according to temperatures. See the resistance of some chemical textiles in chemical active environments below.
   a) Polyamide does not react to alkalis effects. However, it is not resistant to mineral acids attacks;
   b) Polyester resists mineral acids but not alkalis attacks;
   c) Polypropylene is lightly altered by acids and alkalis: suitable for uses requiring high resistance to chemical products (other than organic solvents);
   d) Innocuous acids or alkalis solutions can become concentrated by evaporation and can therefore damage the material. Remove the damaged lashing systems, clean it in cold water and let it dry in the open air.
   All damaged lashing systems must be sent back to the manufacturer for repairing. Products are considered damaged if any of the following is visible:
   a) For webbing slings (to reject): tears, cuts, snags or crushed web on carrying fibres, broken or worn threads in the stich patterns; distortion due to heat exposure;
   b) For end fitting and buckles: when they are pitted, corroded, distorted, cracked or broken.
   Repairing should only be carried out under the manufacturer’s responsibility. Only the lashing systems which have an identification label can be repaired. After repairing, the manufacturer must guarantee that the original lashing system performances are maintained or restored.
   In case of accidental exposure to chemical products, lashing systems must be removed from service and the manufacturer or supplier asked for advice.
   Ensure that the lashing system is protected from any sharp corners on the load.
   Lashing systems, and all others fixing means, must be frequently inspected after a first detailed check which has to be carried out by a qualified technician; if there is any doubt about their state, they should be withdrawn from service immediately. Visual inspection is recommended after each use.
   Only use lashing systems with a legible capacity tag.
   Lashing systems must not be overloaded: only the maximal manual tension strength 50 daN (1 daN = 1 Kg) must be applied. Do not use any mechanical helps such as lever, bars... unless they have been especially made for the lashing system.
   Lashing systems should never be knotted.
   Avoid damaging capacity tag: protect it from any sharp corners on the load or the load itself.
   Lashing system should be protected against rubbing, abrasive wear and damage due to sharp edges on the load by using protection mantles and/or corner protectors.
Recommendations for use (EN 12 195-2)

- Lashing devices should be used according to the instructions for use supplied with the products.
- They can not be used for lifting loads.
- The forces used should not exceed the LC capacity indicated on both the labels and the products.
- The webbing slings should not be knotted.
- Protection against sharp edges, abrasive surfaces is necessary. Use appropriate protection equipment.
- Lashing devices should not be used at temperatures between -40°C or above +100°C. When operating in an active chemical environment, first check with the manufacturer.
- Connections of end fittings to fasten anchoring points must comply with the manufacturer’s recommendations. These recommendations should be specified in case of tie-down accessories used for fastening to a vehicle (tie-down tracks inside trucks/trailers). The maximum distance between the fastening points to which the tie-down accessories have to be attached should be particularly specified, as well as the maximum tension and the shearing force which the fastening points can withstand. The use of any accessory which has not been approved by the manufacturer to operate the buckles, especially to amplify belt tension, is prohibited.
- Lashing devices should be stored in a cool and dry place. They must not be exposed to sunlight and also protected from a chemical environment.

Maintenance, repair, limitation of use

- Lashing devices should be withdrawn from service or returned to the manufacturer for repair when they show any sign of damage.
- Remove from service if any of the following is visible: tears, cuts, snags, broken or worn thread in bearing fibres or in the stitch; deformations resulting from heat exposures; missing identification tags; for end fittings and buckles: distortion, cracks, excessive wear and corrosion; Repairs can only be carried out under the manufacturer’s responsibility. Only lashing devices with legible identification labels can be repaired after repairing the manufacturer should guarantee that the original performance of the device is restored.
- In case of accidental contact with chemicals, a lashing device can only be returned to service once it has been approved by the manufacturer.

General instructions

Calculation of forces occurring during transport

- The following values are generally accepted:
  a. for starting, accelerating, downhill braking: the load must be fastened with a force at least equal to 50 % of its dead weight;
  b. for breaking, the load should be fastened with a force at least equal to its dead weight;
  c. for going round bends, the load must be fastened with a force at least equal to 50% of its dead weight (centrifugal force increases in tight bends and at high speeds).
- Make sure that you are using a suitable vehicle for each load. Your speed should be adapted to the traffic, to the road conditions and comply with the admissible loading capacity and technical specifications of the vehicle.

IMPORTANT

- Fasten the load so that its centre of gravity is as close as possible to the centreline of the vehicle longitudinal axis (the centre of gravity must be as low as possible).
- When loading, make sure you respect the vehicle’s total permissible weight and the maximum weight per axle. For part loading, share the weight evenly.
- Respect the vehicle’s laden weight and other prescribed weight specifications.
- Anchoring points on the floor should be avoided: fasten the load so that it cannot shift, turn over, roll, fall out or cause the vehicle to topple over (in normal driving conditions i.e. emergency braking, uneven road surface).
- It is possible that the packaging or anchoring points provided on the load can bear the forces generated by acceleration.

Load capacity and corresponding systems?

<table>
<thead>
<tr>
<th>Direct tension in daN</th>
<th>Width webbing in mm</th>
<th>LC</th>
<th>Double tension</th>
<th>Min. breaking straight webbing in daN</th>
<th>Standard length in m</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMJ 5 000 daN</td>
<td>75</td>
<td>5 000</td>
<td>10 000</td>
<td>15 000</td>
<td>9, 10</td>
</tr>
<tr>
<td>TMJ 3 500 daN</td>
<td>75</td>
<td>3 500</td>
<td>7 000</td>
<td>11 000</td>
<td>9, 10</td>
</tr>
<tr>
<td>TMJ 2 500 daN</td>
<td>50</td>
<td>2 500</td>
<td>5 000</td>
<td>7 500</td>
<td>8, 9, 10</td>
</tr>
<tr>
<td>TMJ 2 000 daN</td>
<td>50</td>
<td>2 000</td>
<td>4 000</td>
<td>6 000</td>
<td>8, 9, 10</td>
</tr>
<tr>
<td>TMJ 800 daN</td>
<td>45</td>
<td>800</td>
<td>1 600</td>
<td>3 000</td>
<td>4, 5, 6</td>
</tr>
<tr>
<td>TMJ 900 daN</td>
<td>35</td>
<td>900</td>
<td>1 800</td>
<td>3 400</td>
<td>6, 7</td>
</tr>
<tr>
<td>TMJ 400 daN</td>
<td>25</td>
<td>400</td>
<td>800</td>
<td>1 200</td>
<td>4, 5, 6</td>
</tr>
</tbody>
</table>

Note: A lashing system includes a sewn belt and metal components. Lashing webbing refers only to the non sewn sling.

Fastening in safety

Basic rules for fastening

Loading repartition plan

Loading taking into account the occurring forces

Loading blocking methods

Oblique fastening or in diagonal

Fastening on plate

Hooping
LASHING SYSTEMS - LC 5 000 daN - 15 tons
FOR VEHICLE CARRIER - HEAVY DUTY LASHING SYSTEMS

Webbing 75 mm width – Ratchet load binder with secured opening (breaking strength of the webbing only: 15 Tons)
Complying with EN 12195-2 standard

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**Ref : 975T5/1**

<table>
<thead>
<tr>
<th>Weight / 8 m</th>
<th>5 200 g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight / m+</td>
<td>230 g</td>
</tr>
</tbody>
</table>

**Ref : 975T5/1069**

<table>
<thead>
<tr>
<th>Weight / 8 m</th>
<th>6 270 g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight / m+</td>
<td>230 g</td>
</tr>
</tbody>
</table>

**Ref : 975T5/1067**

<table>
<thead>
<tr>
<th>Weight / 8 m</th>
<th>6 680 g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight / m+</td>
<td>230 g</td>
</tr>
</tbody>
</table>

**Ref : 975T5/25502**

<table>
<thead>
<tr>
<th>Weight / 8 m</th>
<th>7 850 g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight / m+</td>
<td>230 g</td>
</tr>
</tbody>
</table>

**Ref : 975T5/Delta**

<table>
<thead>
<tr>
<th>Weight / 8 m</th>
<th>7 800 g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight / m+</td>
<td>230 g</td>
</tr>
</tbody>
</table>

**Ref : 975T5/Delta/Cro**

<table>
<thead>
<tr>
<th>Weight / 8 m</th>
<th>9 450 g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight / m+</td>
<td>230 g</td>
</tr>
</tbody>
</table>

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**IMPORTANT:** Using a lever to stretch the lashing system is strictly forbidden.

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**TECHNICAL FEATURES**

- Marking
- Customized length upon request
- Polyester
- Traceability
- EAN13 bar code labelling
- Colour: Green " army "

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Standard total length of the system : 8 m
LASHING SYSTEMS - LC 2 500 daN - 7.5 tons
WITH AN ERGONOMIC RATCHET LOAD BINDER FEATURING A PROGRESSIVE RELEASE

Webbing 50 mm width - Ratchet load binder with secured opening, high performance (breaking strength of the webbing only: 7.5 tons) - Complying with EN 12195-2 standard

Standard total length of the system: 9 m

Ref: 811ALL2,5/1065
Weight / 9 m: 3 130 g
Weight / m+: 130 g

Ref: 811ALL2,5/1006
Weight / 9 m: 3 195 g
Weight / m+: 130 g

Ref: 811ALL2,5/1014
Weight / 9 m: 3 640 g
Weight / m+: 130 g

NOTICE: A standardized lashing system is a safe lashing system.

TECHNICAL FEATURES
- Marking
- Customized length upon request
- Polyester
- Traceability
- EAN13 bar code labelling
- Colours: Orange, Blue

Ref: 811 ALL

SPECIAL OFFER all year
Increasing the safety and enhancing the life of your lashing system is possible thanks to the polyurethane protection keepers we propose at a special price all year. Our offer includes 2 polyurethane protection keepers fitted on the long part for all our lashing systems of 50 mm and 75 mm width. Consult us for more information.
LASHING SYSTEMS - LC 2 000 daN - 6 tons*
HEAVY TRUCK

Webbing 50 mm width - Ratchet load binder with secured opening (breaking strength of the webbing only: 6 Tons) Compling with EN 12195-2 standard

Standard total length of the system: 9 m

### TECHNICAL FEATURES
- Marking
- Customized length upon request
- Polyester
- Traceability
- EAN13 bar code labelling
- Colours: Black, Blue, Orange, Yellow, Red and Green

### AVAILABLE FITTINGS ON YOUR LASHING SYSTEMS

#### Ref: 811PP/1
- Weight / 9 m: 2 065 g
- Weight / m +: 110 g

#### Ref: 811PP/1006
- Weight / 9 m: 2 545 g
- Weight / m +: 110 g

#### Ref: 811PP/1065
- Weight / 9 m: 2 480 g
- Weight / m +: 110 g

#### Ref: 811PP/1014
- Weight / 9 m: 2 985 g
- Weight / m +: 110 g

#### Ref: 811PP/1075
- Weight / 9 m: 3 170 g
- Weight / m +: 110 g

#### Ref: 811PP/1210
- Weight / 9 m: 2 714 g
- Weight / m +: 110 g

#### Ref: 811PP/1209
- Weight / 9 m: 2 730 g
- Weight / m +: 110 g

#### Ref: 811PP/CAT2
- Weight / 9 m: 2 100 g
- Weight / m +: 110 g

#### Ref: 811PP/3018
- Weight / 9 m: 2 300 g
- Weight / m +: 110 g

**ADVICE:** Carefully check the condition of your anchorages.
LASHING SYSTEMS - LC 900 daN - 3.2 tons*

SMALL BUSINESS

Webbing 35 mm width - Ratchet load binder with secured opening or tensioning strap buckle
(breaking strength of the webbing only: 3.2 tons) - Complying with EN 12195-2 standard

Ref: 804/...

Ref: 908/...

Ref: 917/...

TECHNICAL FEATURES

- Marking
- Customized length upon request
- Polyester
- Traceability
- EAN13 bar code labelling
- Colours: Black, Blue, Orange, Red, Yellow, White, Green

ADVICE: Prior to the use of your lashing systems, carefully check their condition.

Weight / 5 m Weight / m +
Ref: 804/1 430 g 80 g
LC : 400 daN

Ref: 804/1004 760 g 80 g
LC : 400 daN

Ref: 908/1 1 080 g 80 g

Ref: 908/1004 1 420 g 80 g

Ref: 908/1066 1 315 g 80 g

Ref: 908/1017 1 390 g 80 g

Ref: 917/1 720 g 80 g

Ref: 917/1004 1 050 g 80 g

Ref: 917/1066 945 g 80 g

Ref: 917/1017 1 020 g 80 g

| Standard total length of the system : 5 m |
| Short part | Long part |
LASHING SYSTEMS - LC 400 daN - 1.2 tons*
LEISURE ACTIVITIES - TOURISM

Webbing 25 mm width - Ratchet load binder or tensioning strap buckle
(breaking strength of the webbing only: 1.2 tons) - Complying with EN 12195-2 standard

Colours: Blue, Orange, Red, Green, Yellow

Standard total length of the system: 5 m

Ref: 803/...

Ref: 906/...

Ref: 909/...

Ref: 803/1

Weight / 5 m 150 g
Weight / m+ 25 g

LC: 175 daN

Ref: 906/1

Weight / 5 m 335 g
Weight / m+ 25 g

Ref: 909/1

Weight / 5 m 515 g
Weight / m+ 25 g

Ref: 803/1017

Weight / 5 m 450 g
Weight / m+ 25 g

LC: 175 daN

Ref: 906/1002

Weight / 5 m 440 g
Weight / m+ 25 g

Ref: 909/1002

Weight / 5 m 620 g
Weight / m+ 25 g

Ref: 803/1202

Weight / 5 m 330 g
Weight / m+ 25 g

LC: 175 daN

Ref: 906/1017

Weight / 5 m 610 g
Weight / m+ 25 g

Ref: 909/1017

Weight / 5 m 790 g
Weight / m+ 25 g

Ref: 906/1202

Weight / 5 m 490 g
Weight / m+ 25 g

LC: 250 daN

A standardized lashing system is a safe lashing system.

Plastic coated hooks avoid all the risks of scratching.

Secure your motorbike
LASHING SYSTEMS - LC 800 daN - 3 tons*
HEAVY TRUCKS & COMMERCIAL VEHICLES

Webbing 45 mm width - Ratchet load binder or load binder (breaking strength of the webbing: 3 tons)
Complying with EN 12195-2 standard
Colour: Green

Standard total length of the system: 3.5 m

<table>
<thead>
<tr>
<th>Ref: 912/1005</th>
<th>Ref: 1005</th>
<th>Ref: 912/1826</th>
<th>Ref: 1826</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight / 3.5 m</td>
<td>740 g</td>
<td>Weight / 3.5 m</td>
<td>730 g</td>
</tr>
<tr>
<td>Weight / m+</td>
<td>80 g</td>
<td>Weight / m+</td>
<td>80 g</td>
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<table>
<thead>
<tr>
<th>Ref: 916/1005</th>
<th>Ref: 1005</th>
<th>Ref: 916/1826</th>
<th>Ref: 1826</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight / 3.5 m</td>
<td>950 g</td>
<td>Weight / 3.5 m</td>
<td>940 g</td>
</tr>
<tr>
<td>Weight / m+</td>
<td>80 g</td>
<td>Weight / m+</td>
<td>80 g</td>
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<table>
<thead>
<tr>
<th>Ref: 916/1827</th>
<th>Ref: 1827</th>
<th>Ref: FA/1005</th>
<th>Ref: 1005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight / 3.5 m</td>
<td>900 g</td>
<td>Weight / 3.5 m</td>
<td>970 g</td>
</tr>
<tr>
<td>Weight / m+</td>
<td>80 g</td>
<td>Weight / m+</td>
<td>80 g</td>
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<tr>
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<th>Ref: 1826</th>
<th>Ref: FA/1827</th>
<th>Ref: 1827</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight / 3.5 m</td>
<td>960 g</td>
<td>Weight / 3.5 m</td>
<td>920 g</td>
</tr>
<tr>
<td>Weight / m+</td>
<td>80 g</td>
<td>Weight / m+</td>
<td>80 g</td>
</tr>
</tbody>
</table>

**ADVICE:** Check the compatibility of your end fittings and your anchorages.
STAINLESS STEEL LASHING SYSTEMS FOR YACHTING ACTIVITIES

Webbing 50, 35 and 25 mm width - Standard lengths: 9 and 5 meters
Complying with EN 12195-2 standard

**Ref : 811PPI-1006I**

- **Width**: 50 mm
- **Weight / 9 m**: 2 657 g
- **Weight / m +**: 110 g

**Ref : 917I-1004I**

- **Width**: 35 mm
- **Weight / 5 m**: 1 020 g
- **Weight / m +**: 85 g

**Ref : 906I-1002I**

- **Width**: 25 mm
- **Weight / 5 m**: 414 g
- **Weight / m +**: 25 g

LASHING SYSTEMS FOR CARS
CAR AND TRUCK TIE DOWN ON FLAT BED TRAILER

Webbing 50 and 35 mm width - Standard lengths: 2.30 and 2.50 meters
Complying with EN 12195-2 standard

**Ref : 811PP/3 1006M**

- **Width**: 50 mm
- **Weight / 2.3 m**: 2 600 g
- **Weight / m +**: 110 g

**Ref : 908/2 1014/1J**

- **Width**: 35 mm
- **Weight / 2.3 m**: 1 823 g
- **Weight / m +**: 85 g

**Ref : 908/3J**

- **Width**: 35 mm
- **Weight / 2.3 m**: 1 973 g
- **Weight / m +**: 85 g

**Ref : 910/2 1014/1J**

- **Length**: 50 mm
- **Weight / 2.3 m**: 2 658 g
- **Weight / m +**: 110 g

**Ref : 910/3J**

- **Width**: 50 mm
- **Weight / 2.3 m**: 2 518 g
- **Weight / m +**: 110 g

**Ref : 910/3 1006**

- **Width**: 50 mm
- **Weight / 2.3 m**: 2 330 g
- **Weight / m +**: 110 g

**INFORMATION:** As well as our entire product range, we propose custom-designed lashing systems.
TELESCOPIC BARS

Adjustable system from 2.15 to 2.70 meters to secure the loads inside trucks fitted with specific cargo control tracks.

Ref : 1811

<table>
<thead>
<tr>
<th>Length</th>
<th>2.21 to 2.59 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>7 500 g</td>
</tr>
</tbody>
</table>

CARGO CONTROL TRACKS AND LASHING END FITTINGS

Ref : 1806

<table>
<thead>
<tr>
<th>Reference</th>
<th>Length</th>
<th>Thickness</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1806</td>
<td>3 m</td>
<td>2 mm</td>
<td>5 000 g</td>
</tr>
</tbody>
</table>

Cargo control tracks used to support telescopic bars and the inner lashing systems fitted with hooks 1005 and 1827.

Ref : 1005

Ref : 1827

Ref : 3009

<table>
<thead>
<tr>
<th>Reference</th>
<th>Length</th>
<th>Thickness</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>3009</td>
<td>3 m</td>
<td>2 mm</td>
<td>6 400 g</td>
</tr>
</tbody>
</table>

Universal cargo control tracks, to be used with the hooks 1826.

Ref : 1826

Ref : PFR 1

End tracks protection for 3009 and 1806.

KARGO KEEPER

Ref : 1867WS

<table>
<thead>
<tr>
<th>Reference</th>
<th>Weight</th>
</tr>
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<tbody>
<tr>
<td>1867WS</td>
<td>5 700 g</td>
</tr>
</tbody>
</table>

Stainless steel version

Please contact us.

In case cargo control tracks are not available, the tensioning mechanism fitted with a spring enables to secure the loads by adjusting the length of the kargo keeper and holding both walls of the vehicle. The standard length is appropriate for wagon whose inner width is ranging from 2.35 m and 2.70 meters.

SPLITTING HOOPS FOR KARGO KEEPER

Ref : 1867HP

<table>
<thead>
<tr>
<th>Reference</th>
<th>Length</th>
<th>Splitting hoops diameter</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1867HP</td>
<td>1 760 mm</td>
<td>25 mm</td>
<td>4 100 g</td>
</tr>
</tbody>
</table>

Increase the supporting area.
**Lashing systems**

---

### Decking / Shoring Beam and Brackets

For assembling additional loading platforms

**Ref: 1839**
- Weight: 9,500 g

Appropriate for wagon whose inner width ranges from 2.31 to 2.53 meters. Frame made of high grade aluminium.

**Ref: 1845**

**Ref: 1804**
- Brackets

Fit into cargo control tracks Ref.3009 and 1800.

---

### Shore for Tautliner Trailers

**Adjustable Version**
- **Ref: BSR 262**
  - Length: 2.42 to 2.62 m
  - Weight: 7,700 g

---

#### We recommend the shore for tautliner trailers for the following reasons:

- Trailer loadings are more and more massive,
- Roads with roundabouts can increase the risks of damaging the goods,
- The goods can be strewn due to unloading by the side,
- Safety controls are more and more frequent regarding the securement of the goods.

#### Main advantages of the shore for tautliner trailers:

- Very easy to set up,
- Its whole body is in contact with the load,
- Made of aluminium, its weight is very light without compromising its resistance,
- Ideal for bundling the load,
- Adjustable clips for any board thickness,
- Two versions: fixed length (2.48m / 7.5kg) and adjustable length,
- Competitive solution.
Lashing systems

**Corners Protections**

Webbing protection

<table>
<thead>
<tr>
<th>Ref: COLG P240</th>
<th>Ref: COLG 240</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>5 000 g</td>
</tr>
<tr>
<td>Length</td>
<td>2.40 m</td>
</tr>
<tr>
<td>Inner dimensions</td>
<td>190 x 230 mm</td>
</tr>
<tr>
<td>Thickness</td>
<td>5 mm</td>
</tr>
<tr>
<td>Material</td>
<td>PVC</td>
</tr>
<tr>
<td>Colour</td>
<td>black</td>
</tr>
</tbody>
</table>

| Weight         | 5 000 g       |
| Length         | 2.40 mm       |
| Inner dimensions | 220 x 190 mm |
| Thickness      | 5 mm          |
| Material       | polyethylene - rotational moulding |
| Colour         | black, red, orange |

1.20 meter length available. Please contact us.

**Corner Protectors**

For 25 to 75 mm webbings

<table>
<thead>
<tr>
<th>Ref: EQ1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>

**Protective Sleeve in PVC**

Ref: PVC/050

- Webbing width: 50 mm

Ref: PVC/080

- Webbing width: 80 mm

Main information page XX

**Polyurethane Protection Keepers**

Ref: DF

<table>
<thead>
<tr>
<th>Reference</th>
<th>Width L mm</th>
<th>Height h mm</th>
<th>a mm</th>
<th>b mm</th>
<th>For lifting slings with width in mm</th>
<th>For lashing webbing with width in mm</th>
<th>For round sling Tons</th>
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</thead>
<tbody>
<tr>
<td>25</td>
<td>250</td>
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<td>120</td>
<td>80</td>
<td>30</td>
<td>65/75</td>
<td>75</td>
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</tbody>
</table>

- Main information page XX
# Lashing systems

**SNOW CRAMP®**

*THE snow chain for heavy trucks which can be installed without moving the vehicle.*

Handy and easy to fix in less than 10 minutes.

## Dimensions given for information only

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Tires size</th>
<th>Tire size (mm edge to mm edge) in cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>7001</td>
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<td>77.5</td>
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<tr>
<td>7001</td>
<td>9 x R x 20</td>
<td>79</td>
</tr>
<tr>
<td>7001</td>
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<td>83.5</td>
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<td>11 x R x 22</td>
<td>88.5</td>
</tr>
<tr>
<td>7001</td>
<td>11 x R x 22.5</td>
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<td>95</td>
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<tr>
<td>7001</td>
<td>12 x R x 22.5</td>
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<td>75</td>
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<td>7001</td>
<td>285 x 75 x 22.5</td>
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</tr>
<tr>
<td>7001</td>
<td>295 x 80 x 22.5</td>
<td>80.5</td>
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<tr>
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<td>305 x 70 x 19.5</td>
<td>76.5</td>
</tr>
<tr>
<td>7001</td>
<td>315 x 60 x 22.5</td>
<td>77</td>
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<td>7001</td>
<td>315 x 70 x 22.5</td>
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<tr>
<td>7001</td>
<td>315 x 75 x 22.5</td>
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<tr>
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<td>315 x 80 x 22.5</td>
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<td>7001</td>
<td>425 x 65 x 22.5</td>
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**Ref. | Tires size | Tire size (mm edge to mm edge) in cm**

<table>
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<th>Tires size</th>
<th>Tire size (mm edge to mm edge) in cm</th>
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<td>8.25 x R x 15</td>
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<td>7002</td>
<td>8.25 x R x 16</td>
<td>70.5</td>
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<tr>
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<td>70</td>
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<td>9.5 x R x 19.5</td>
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<td>7002</td>
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<tr>
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</tr>
<tr>
<td>7012</td>
<td>7 x R x 20</td>
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</table>

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Tires size</th>
<th>Tire size (mm edge to mm edge) in cm</th>
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<tbody>
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<tr>
<td>7012</td>
<td>7.5 x R x 20</td>
<td>66.2</td>
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<tr>
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<td>59.8</td>
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<td>8.25 x R x 16</td>
<td>58.9</td>
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<td>7012</td>
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<tr>
<td>7012</td>
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<tr>
<td>7012</td>
<td>7 x R x 19.5</td>
<td>50.5</td>
</tr>
<tr>
<td>7012</td>
<td>7 x R x 20</td>
<td>60</td>
</tr>
</tbody>
</table>

*Dimensions given for information only*
Based on a new design, our snow chains for heavy trucks ensure easy, handy and fast installation in the most adverse conditions. Less than 10 minutes — without any particular effort — are needed to install SNOW CRAMP chains on your vehicle. Once fixed, SNOW CRAMP® chains become part of the tire without being subjected to any tension and, therefore, SNOW CRAMP chains are remarkably reliable in any situation.

1. Place the chain on the upper part of the tire, ratchet outside, webbing inside.
2. Thread the webbing through one of the rim holes.
3. Insert the webbing in the ratchet.
4. Strain the chain (To maximize the efficiency and reliability, we recommend to strain a second time after having driven few meters). Up to 4 units can be installed on the same tire.

**3 to 4 units per tire**

<table>
<thead>
<tr>
<th>Ref</th>
<th>Weight of 1 unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>7001</td>
<td>5 200 g</td>
</tr>
<tr>
<td>7002</td>
<td>4 800 g</td>
</tr>
<tr>
<td>7012</td>
<td>1 900 g</td>
</tr>
<tr>
<td>87010J</td>
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<tr>
<td>87010R</td>
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<tr>
<td>7006</td>
<td></td>
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<tr>
<td>917</td>
<td></td>
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</tbody>
</table>

Don’t let the snow affect your performances and safety!

PVC protection for Snow Cramp® webbing
Ratchet (only) for item 7001 and 7002
Ratchet (only) for item 7012
BARRIER SEAL LOCK

Ref : FDS

WEBBING WINNDER

Ref : EDS

- Save time, just few seconds are necessary to rewind the webbing.
- Save space, trunks are more tidy.
- Easy to install, the webbing winder is provided along with its steel back-plate.

MANUAL WINCH

Opening from 50 to 100 mm. Suitable for webbing, cable, rope...

Ref : 1880

<table>
<thead>
<tr>
<th>Weight</th>
<th>1 600 g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Webbing width</td>
<td>50 mm</td>
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</table>

Ref : 1860/50

<table>
<thead>
<tr>
<th>Weight</th>
<th>3 800 g</th>
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</thead>
<tbody>
<tr>
<td>Webbing width</td>
<td>50 à 100 mm</td>
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</table>