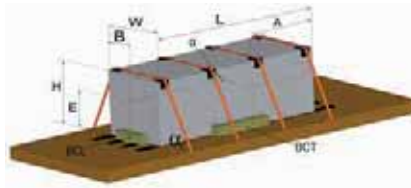




VELTKAMP

CARGO SECURING SYSTEMS



GLOBAL CARGO SECURING AND LIFTING SUPPORT



Your global supplier of professional cargo securing and lifting supplies

Veltkamp is established in 1925 and specialist in the development, engineering, production and trading of supplies for:

- load securing
- cargo securing
- lifting slings

In this market Veltkamp focuses in particular on the support and delivery of professional end users. Veltkamp has its headquarter in The Netherlands – Europe with several offices and warehouses spread over various countries in Europe.

Outside Europe Veltkamp corporates with specific educated and trained dealers at various strategic locations in the world. This allows customers always and everywhere to be quickly and appropriately supported and supplied.

To be able to provide optimal performance and optimal customer service, our headquarters and our production facilities use an integral management system, certified according:

- ISO 9001 – management of our product and process quality
- ISO 14001 – management of our environmental safety
- BS/OHSAS 18001 – safety and welfare of our employees
- AEO – Authorised Economic Operator for Customs

Lashing and lifting products are safety products. Often precious loads must be lifted and secured in containers, trains, on deck or in ships, aircraft, etc in accordance with international guidelines and conditions of insurance companies.

Veltkamp has his own testing facility for strapping, lashing and lifting slings. This facility is accredited by DNV-GL. The therefore necessary certificates can be sent directly to our customers, load masters and / or insurance companies or downloaded from the website.

In addition to the delivery of products, customers often also need specific support. Therefore Veltkamp supports her customers also with:

- advice on the method of securing
- calculations how a load at least must be secured
- maintaining customer specific stocks
- training in how to use products and how to calculate
- customizing products and labelling packaging
- just in time deliveries





Strapping & Accessoires for Load Securing

Strapping is designed for light applications, for example securing a load on a pallet, keep boxes together or for the use in strapping machines.

There are no specific requirements to strapping, there are also no standards. It is on the market in widths from 5 to 19 mm and sometimes even up to 35 mm.

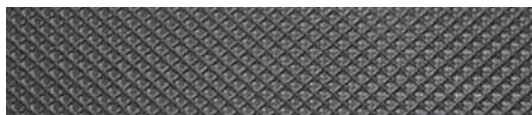
It is available in various types:

- PP polypropylene – smooth and embossed = to strap boxes, etc
- PET polyethylene terephthalate = is not resistant to heat and cold, high elongation
- Hotmelt polyester yarns coated with glue = splits easy in the longitudinal direction
- Composite polyester yarns coated with polyester = is not resistant to heat and cold
- Woven polyester = strongest of all, but usually with a to high elongation

Just to get the lowest possible price, the quality is often so poor that specified tensile strengths often are not achieved. There are also suppliers that sell strapping as being lashing. Just because of the lower price. Note that this can cause unsafe situations.

In addition with this is the quality of load securing not only depending on the strapping, but certainly also on the quality of buckles.

Strapping



PP



PET (smooth and embossed)



Hotmelt



Composite



Woven



Strapping Closures



Seals – Smooth and Serrated
Width 12 and 16mm Length 25, 28 and 32mm



Plastic Buckles
13 and 16mm



Galvanized Buckles
13 up to 32mm – standard use



Sherardized Buckles
13 up to 32mm – standard and heavy duty

Strapping Corner Protectors



CP20
Width = 20mm



CP40
Width = 40mm



CP20 Flat
Width = 20mm



CP20 Flat with Spikes
Width = 20mm



CCP – Closed Corner Pieces
Width = 15 – 18 – 22 – 28mm



EXCP – Expandable Corner Pieces
Available in Medium and Large



C-Pro
Width = 25mm



Strapping Tensioners



Strapping Tensioner - P173
9 up to 13mm / PP



Strapping Tensioner - H21
9 up to 19mm / PP - PE



Strapping Tensioner – H22
9 up to 19mm / PP – PET – Hotmelt Composite – Woven



Strapping Tensioner + Sealer – OR4000.13 Swiss Quality
13mm / PP – PET



Strapping Tensioner + Sealer – OR4000.16 - Swiss Quality
16mm / PP – PET



Strapping Tensioner – ORS1300-19 - Swiss Quality
9 up to 19mm - PP – PET – Hotmelt – Composite – Woven



Strapping Tensioner + Sealer – H42 12mm Combi Tool
13mm / PP – PET – Hotmelt



Strapping Tensioner + Sealer – H42 16mm Combi Tool
16mm / PP – PET – Hotmelt



Sealer for plastic strapping – C3005
13mm / PP – PET



OR-T120 Battery Tensioner
PP – PET strapping - 9 up to 13mm



OR-T250 Battery Tensioner
PP – PET strapping - 9 up to 16mm



OR-T400 Battery Tensioner
PP – PET strapping - 16 up to 19mm

Dispensers, Reels and Edge Protectors



V405 – Universal
For roll width up to 190mm, adjustable core
diameter steel flanges 610mm



CA244H
For Woven Strap width up to 32mm
roll width 200mm - core 76mm, diameter steel flanges 300mm



V330
For strap width up to 38mm
roll width 160mm - core 200mm, diameter steel flanges 300mm



H83
For strap width up to 32mm
roll width 200mm - diameter steel flanges 500mm



F22
Reels for the protection of strapping roles
Diameter 220mm for core 76mm



F33
Reels for the protection of strapping roles
Diameter 330mm for core 76mm

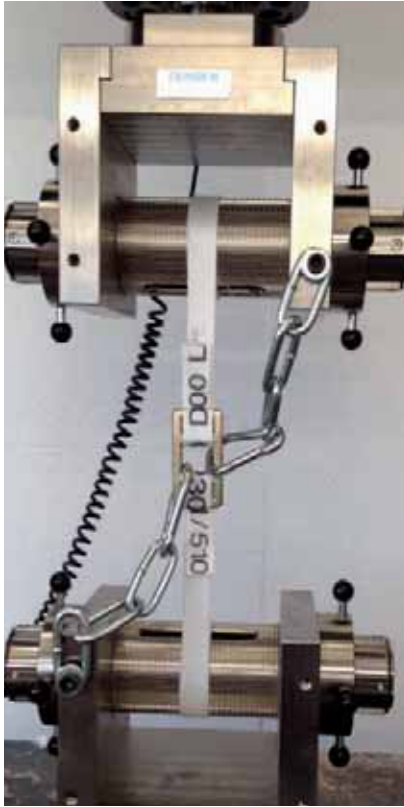


Edge Protectors available
ECO, Tchipgard and ALU - Edge Boards
An extensive range and different sizes on request





Lashing & Accessoires for Cargo Securing



Lashing is designed for heavy applications, for example to secure pallets, coils, machinery, cars, project cargo, etc.

It use to be made from nylon (safety belts in cars) but because of the price it is nowadays made out of polyester.

The quality is determined by the number of yarns, the density of weaving and wich grade of polyester yarns is been used.

In Europe there are no specific requirements for lashing, there are no standards applicable. In the USA and Canada lashing must comply with the ASTM D3950 standard.

Just to get a lower price and to convince customers, suppliers use all kind of different terms and test results. To be clear:

BS = Breaking Strength (also known as **Breaking Load** or **Rated Capacity**)

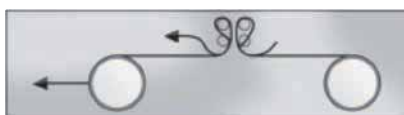
- This is the maximum static load as permitted by the manufacturer

MSL = Maximum Securing Load (also known as **SWL = Safe Working Load**)

- According to the Cargo Storage and Securing (CSS) Second Edition / IMO – Cargo Securing Manual this value is a proportion of the breaking strength, as is the save working load for a device used to secure cargo.
- For Cargo Securing Lashing this value is 50% of the Breaking Strength.

Determine the breaking strength:

- **Linear Strength**
According to the ASTM D-3910 the lashing is straight tensed between two clamps of a calibrated testing device and pulled apart to breakage. Then the test is repeated, but then with the use of a buckle. This result must be at least 54% of the breaking strength of the lashing.
- **System Strength**
To convince customers with a higher tensile strength suppliers often use the System Strength. In this case the lashing will be stuck double around the clamps. In fact, the lashing is double tested so an result will be achieved which is almost twice as high.



Linear Test



System Test

Lashing



Lashing 32mm – 2,000 daN
Woven Polyester – app. 250m / bag
Test Certificate 4572-2014-NLD-DNV-02



Lashing 32mm – 2,300 daN
Woven Polyester – app. 250m / bag
Test Certificate 4572-2014-NLD-DNV-03



Lashing 40mm – 3,500 daN
Woven Polyester – app. 200m / bag
Test Certificate 4572-2014-NLD-DNV-04



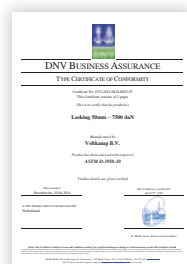
Lashing 40mm – 5,000 daN
Woven Polyester – app. 200m / bag
Test Certificate 4572-2014-NLD-DNV-05



Lashing 50mm – 5,000 daN
Woven Polyester – app. 200m / bag
Test Certificate 4572-2014-NLD-DNV-06



Lashing 50mm – 7,500 daN
Woven Polyester – app. 150m / bag
Test Certificate 4572-2014-NLD-DNV-07



All certified by DNV-GL
Certificates + Test Results per batch
downloadable from internet



Lashing Buckles – welded steel / yellow passivated



LB3030
3,000kg, width = 30mm



LB4040
4,000kg, width = 40mm



LB4050
5,000kg, width = 40mm



LB5050
5,000kg, width = 50mm

Lashing Frames – drop forged steel / yellow passivated



LF3030
3,000kg, width = 30mm



LF4040
4,000kg, width = 40mm



LF5050
5,000kg, width = 50mm



Cross Buckle – CB4040
4,000kg, width = 32mm

Lashing Plates – drop forged steel / yellow passivated



OWB3516P
1,600kg, width = 35mm



OWB5020P
2,000kg, width = 50mm

Lashing Hooks – welded steel wire / yellow passivated



LH3030S
3,000kg, width = 35mm, wire, \varnothing 10.6mm, L= 100mm



LH3030L
3,000kg, width = 35mm, wire, \varnothing 10.6mm, L= 120mm



LH4050
5,000kg, width = 45mm, wire, \varnothing 12mm



LH5050
5,000kg, width = 50mm, wire, \varnothing 12mm





Lashing Corner – LC5050 – 5,000kg



Lashing Corner LC5050
suitable for lashing up to 50mm
width 210mm, height frame 60mm, total height 80mm
for securing heavy crates on flatracks, trains, trucks, ships, etc.



Lashing Tensioners - Manual



H26
9 up to 40mm Composite - Woven



ORS1300.40
9 up to 40mm Composite - Woven



ORS1300.50
9 up to 50mm Composite - Woven



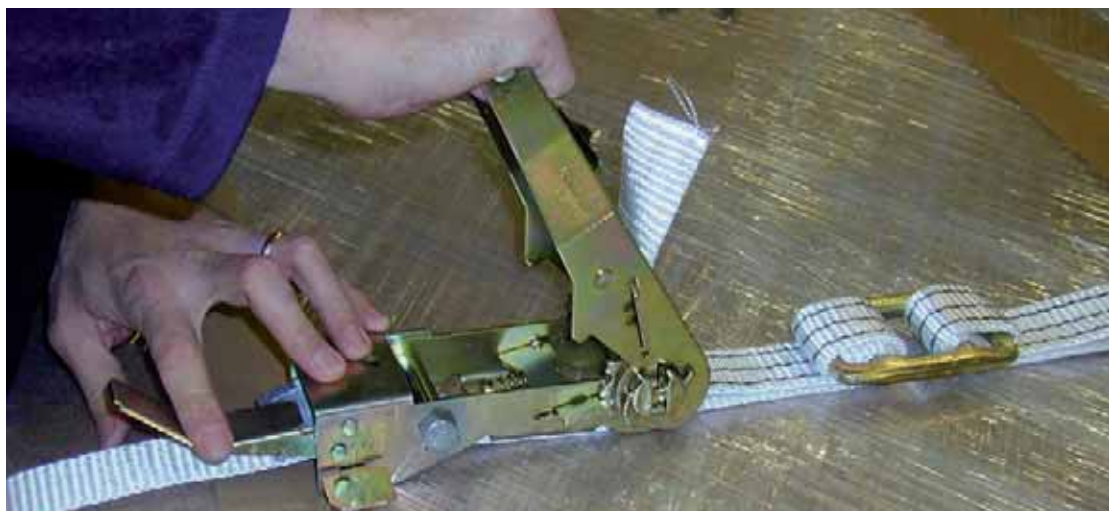
Tension Bar
25 up to 70mm Composite - Woven / crates, forestry



RB5050NS - One Way Ratchet
25 up to 50mm Woven Lashing / for one way purposes



Ratchet R50XXL - Heavy Duty
25 up to 50mm Woven Lashing / for multiple use





Lashing Tenioners - Pneumatic



PT32

Width lashing = 25mm up to 32mm
Thickness Lashing = 0.5 - 2.0mm



PT50

Width lashing = 32mm up to 50mm
Thickness Lashing = 0.5 - 2.4mm

Antislip - Mats, Pads and Rolls



ASM3 - Mats

Length = 800mm, Width = 150mm
Thickness = 3mm for use between pallets, etc.



ASM8 - Mats

Length = 800mm, Width = 150mm
Thickness = 8mm for use between cargo and cargo deck



ASR3 - Rolls

Length = 5,000mm, Width = 150mm
Thickness = 3mm for lighth use between cargo and cargo deck



ASR8 - Rolls

Length = 5,000mm, Width = 150mm
Thickness = 8mm for heavy use between cargo and cargo deck



ASM8 - Pads

Length = 200mm, Width = 100mm, Thickness = 8mm
for use between cargo and cargo deck



All Antislip material is certified by
Fraunhofer-IML Germany
Certificates are downloadable from internet

Lashing – Corner Protectors



CP40

For Lashing up to 40mm
use on a hard surface like wood or steel



CP50

For Lashing up to 50mm
with a cavity to prevent damaging of the edge



CPR70

For Lashing up to 70mm
With a cavity - Especially for paper



CPR70

Certified by Fraunhofer IML
K-factor = 1.9



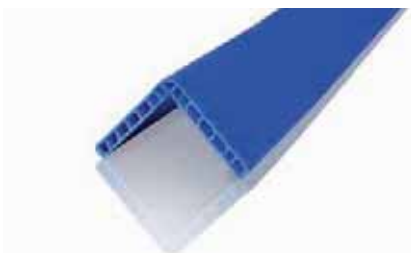
CP100 - black

For Lashing up to 100mm
Especially with T-gap to hold on lashing



CP100 - white

For Lashing up to 100mm
Especially for Steel Coils



CP120 – 120/120mm

Available in different lengths up to 6m
Especially to stabilize longer



CP190 – 190/190mm

Available in different lengths up to 6m
Especially to stabilize longer loads



Dunnage Bags



Eco Quality – Material:

External bag: 1-layer 55 gr/m2 woven polypropylene plus laminated 20 gr/m2 PE coated barrier.

Inside bag: Co-extruded PE 80my

Valve: Turboflow (TF)

Maximum working pressure 0.2 bar = 1.8 PSI

Maximum void: 20-35cm

Inflating time: 10-12 sec (with TF inflator)

Most common sizes Quantity / Pallet box

90 x 120 500pcs

90 x 150 450pcs

90 x 180 425pcs

90 x 210 375pcs

90 x 240 325pcs

Standard Quality – Material:

External bag: 1-layer 85 gr/m2 woven polypropylene plus laminated 20 gr/m2 PE coated barrier.

Inside bag: Co-extruded tubular PE 80my

Valve: Turboflow (TF)

Maximum working pressure 0.2 bar = 1.8 PSI

Maximum void: 20-50cm

Inflating time: 10-12 sec (with TF inflator)

Most common sizes: Quantity / Pallet box

90 x 90 550pcs

90 x 120 450pcs

90 x 180 375pcs

90 x 210 350pcs

120 x 180 300pcs

120 x 210 275pcs

120 x 240 225pcs

All bags are re-usable.

Heavy duty bags of different levels are on request.



Container Desiccant



DM1100

1.1 Kg Desiccant per bag

In accordance with the DIN 55473-A

To protect container loads against moisture



DM2000

2 Kg Desiccant per bag

In accordance with the DIN 55473-A

To protect container loads against moisture





Ratchets Tie Down

There are two types of Ratchets Tie Down, the Standard and the Ergo.

The Standard Ratchet has a STF of 350daN.

Because the Ergo has a slightly longer tension handle the STF is 500 daN.

Due to the length of the handle, it is an advantage that it takes less time to tension.

STF = Standard Tension Force as indicated on the label.

This is the hand force till how far the ratchet tie down must be drawn for optimal use and without damaging the load.

Many users do not know this. They tighten the ratchet as hard as they can. This reduces not only the lifetime of the ratchet, but can also damage the cargo.

Especially when transporting sensitive cargo such as paper coils.

It is also not necessary. The lashing of the ratchet is made of polyester, a synthetic material. Depending on the temperature, the tensioning in the lashing will decrease during transport to an average STF within a few minutes.

Quality:

Ratchets tie Down must meet the standards EN12195-2 for Europe and the ASTM D-3910-10 for the USA/Canada.

This means:

- a linear breaking test of the lashing and a result of at least 3 x LC
- at full load may hooks and ratchet not bend or break
- at full load the operator must be able to unlock the ratchet without problems or risks
- elongation of the lashing <7%
- the complete ratchet must sustain at 1.25 x LC without relevant distortion
- if this last test passes, the ratchet must sustain at 2 x LC without breaking

Only on this basis is a ratchet tie down safely, works properly and a certificate can be issued.

Most of the ratchets tie down are from China and do not meet the standards.

Most Chinese products are not strong enough and even the labels are not according the standards. Often are Chinese standards (CCC) mentioned and almost always a CE mark regarding the European Machinery Directives. This is even illegal and an economic offense because ratchets tie down are not covered by the European Machinery Directives.

It will be clear that these products are not suitable and definitely not appropriate for professional use.





Standard



Ergo


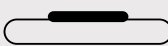
Standard Specifications

L = 9m, W = 50mm, STF = 350 / 500daN, LGL/LGF = 8.5 / 0.5m, LC-linear = 2,500Kg,
LC-system = 5,000Kg, BS = 7,500Kg

Available in the required version, tensile strength, color, etc. and with the required printing and end fittings.

All produced and supplied with certificate according to the EN12195-2.

With the certificate- and batch number the DNV-GL certificate as well as the test results of that batch can be downloaded from the website.

Veltkamp	Name supplier / Certificate holder
R50509-Ergo	Type of ratchet tie down
 LC-linear = 2,500 daN	LC-linear = Lineair Lashing Capacity = the maximum allowed force on the strap in straight pull
 LC-system = 5,000 daN	LC-System = Lashing Capacity in System = the maximum allowed force on the strap in round pull
SHF = 50 daN / STF = 500 daN	SHF = Standard Hand Force = force applied to the handle which creates the tensile force in the webbing STF = Standard Tension Force = residual force after release of the handle of the ratchet
LG 9.0m/LGL 8.5m/LGF 0.5m	LG = overall System Length LGL = the Length of an adjustable end, measured from the free end of the webbing to the force bearing point of the end fitting LGF = the Length of a fixed end, measured from the force bearing point of the end fitting to the outer turning radius of the connection of the webbing to the tensioning device
Webbing 100% PES	The webbing is made from 100% polyester
Webbing Elongation < 7% at LC	According to the EN 12195-2 the maximum elongation of the webbing at full Lashing Elongation at LC < 7%
Not for lifting!	Only to tie down cargo! Use for lifting is not allowed!
Approved by DNV-GL	Name certifying body
Certificate N° 4572-2014-NLD-DNV-08	Number Certificate as issued by the certifying body – to download from the website via the customer portal
Production Test N° 211641	Number production batch – to download from the website via the customer portal
Production Year 2014	The year in which the ratchet tie down is produced
According standard EN 12195-2	Manufactured and tested in accordance with the European standard



Round Slings & Lifting Slings

1 ton up to 180 tons or Custom Spec

Slings can be divided into Round Slings and Lifting Slings. Both according the European Standard EN 1492-2.

The Safety Factor – SF of the slings = 7 : 1. This means a Breaking Strength (BS) of 7 x the Working Load Limit (WLL).

The SF for chain work = 4 : 1. The SF for polyester slings = 7 : 1.
This is because by the influence of weather and the use of the sling the SF very soon falls back to 5 : 1.

One Way Round Slings do have a SF of 5 : 1. They are manufactured according the DIN 60005 and solely intended for single use!

Please note that most Single Use Slings on the market that do not meet the standard. In case of accidents this can cause major problems concerning liability.

All products also conform to Machinery Directive 2006/42/EC and therefore provided with a CE mark.

Dyneema

Dyneema is an high tech UHMWPE yarn, an ultra high molecular weight polyethylene, developed by DSM Netherlands.

It is up to 15 times stronger and more wear resistant than polyester

Dyneema is extremely light, 80% lighter than steel cable and 59% lighter than standard polyester.

- It is also extremely high wear resistance and cut resistance
- The Working Temperature Range = -60°C up to 70°C / -76°F up to 158°F
- The Elongation at WLL is only 0.5
- 8 to 15 x stronger than steel
- 5 x stronger than polyester

Please note that many competitive products are sold as Dyneema, but that often they are made for example out of 80% Dyneema en 20% Polyester. This because of the price.

**Veltkamp focus on professional end users
which would not compromise
in terms of quality and liability**



Slings and Protection



ROUND SLINGS



LIFTING SLINGS



ENDLESS SLINGS 7:1



ENDLESS SLINGS 5:1



DYNEEMA



PROTECTION

Veltkamp focuses with lifting equipment under the hook especially on the professional market. Different types, sizes and project specific products are available on request.

Also on a project basis or customized.

All delivered products comply with the EN 1492-1, EN 1492-2 with safety factor SF 7:1.

Exception are the Endless Slings. These are supplied in 2 variants:

- multiple use = according to EN 1492-2 = SF 7:1
- single use (transport) = according to DIN 60005 = SF 5:1

All products also conform to Machinery Directive 2006/42/EC and are therefore provided with a CE mark.



CROSS REFERENCE TABEL
USE OF STRAPPING OR LASHING
IN COMBINATION
WITH CLOSURES AND TENSIONERS

Strapping Hotmelt



Strapping	Part number	Description	Packaging	Fittings	Tensioners
	30201616	Hotmelt 13mm Meter/coil: 1,100m Core diameter: 76mm Linear Tensile Strength: 390Kg	2 coils/Box 80 coils/Pallet	B4, BP4	H22 ORS1300.19
	30201529	Hotmelt 16mm Meter/coil: 850m Core diameter: 76mm Linear Tensile Strength: 450Kg	2 coils/Box 80 coils/Pallet	B5, BP5	H22 ORS1300.19
	30201636	Hotmelt-HD 16mm Meter/coil: 600m Core diameter: 76mm Linear Tensile Strength: 600Kg	2 coils/Box 80 coils/Pallet	B5	H22 ORS1300.19
	30201568	Hotmelt 19mm Meter/coil: 600m Core diameter: 76mm Linear Tensile Strength: 550Kg	2 coils/Box 80 coils/Pallet	B6	H22 H25 H26 ORS1300.19 ORS1300.25 ORS1300.40
	30201637	Hotmelt-HD 19mm Meter/coil: 500m Core diameter: 76mm Linear Tensile Strength: 725Kg	2 coils/Box 80 coils/Pallet	B6	H22 H25 H26 ORS1300.19 ORS1300.25 ORS1300.40
	30201649	Hotmelt 25mm Meter/coil: 500m Core diameter: 76mm Linear Tensile Strength: 1,050Kg	2 coils/Box 60 coils/Pallet	B8-5.0	H25 H26 ORS1300.25 ORS1300.40
	30201638	Hotmelt 35mm Meter/coil: 150m Core diameter: 76mm Linear Tensile Strength: 1,400Kg	7 coils/Box 210 coils/Pallet	B10	H26 ORS1300.40



Strapping Composite

Strapping	Part number	Description	Packaging	Fittings	Tensioners
	30201648	Composite 13mm Meter/coil: 1,100m Core diameter: 200mm Linear Tensile Strength: 340Kg	2 coils/Box 90 coils/Pallet	B4, BF4	H22 ORS1300.19
	30201574	Composite 16mm Meter/coil: 850m Core diameter: 200mm Linear Tensile Strength: 450Kg	2 coils/Box 90 coils/Pallet	B5, BF5	H22 ORS1300.19
	30201635	Composite-HD 16mm Meter/coil: 600m Core diameter: 200mm Linear Tensile Strength: 540Kg	2 coils/Box 90 coils/Pallet	B5, BF5	H22 ORS1300.19
	30201618	Composite 19mm Meter/coil: 600m Core diameter: 200mm Linear Tensile Strength: 500Kg	2 coils/Box 90 coils/Pallet	B6, BF6	H22 H25 H26 ORS1300.19 ORS1300.25 ORS1300.40
	30201653	Composite-HD 19mm Meter/coil: 500m Core diameter: 200mm Linear Tensile Strength: 625Kg	2 coils/Box 90 coils/Pallet	B6, BF6	H22 H25 H26 ORS1300.19 ORS1300.25 ORS1300.40
	30201645	Composite 25mm Meter/coil: 500m Core diameter: 200mm Linear Tensile Strength: 785Kg	2 coils/Box 90 coils/Pallet	B8-5.0, BF8-5.0 B8-6.0, BF8-6.0	H25 H26 ORS1300.25 ORS1300.40
	30201651	Composite-HD 25mm Meter/coil: 500m Core diameter: 200mm Linear Tensile Strength: 1,000Kg	2 coils/Box 90 coils/Pallet	B8-5.0, BF8-5.0 B8-6.0, BF8-6.0	H25 H26 ORS1300.25 ORS1300.40
	30201592	Composite 32mm Meter/coil: 300m Core diameter: 200mm Linear Tensile Strength: 1,600Kg	2 coils/Box 90 coils/Pallet	B10, BF10	H26 ORS1300.40

Strapping Woven Polyester



Strapping	Part number	Description	Packaging	Fittings	Tensioners
	30201655	Woven Polyester 13mm Meter/coil: 1,100m Core diameter: 76mm Linear Tensile Strength: 375Kg	2 coils/Box 80 coils/Pallet	BF4	H22 ORS1300.19
	30201656	Woven Polyester 16mm Meter/coil: 850m Core diameter: 76 mm Linear Tensile Strength: 450Kg	2 coils/Box 80 coils/Pallet	BF5	H22 ORS1300.19
	30201632	Woven Polyester-HD 16mm Meter/coil: 600m Core diameter: 76mm Linear Tensile Strength: 600Kg	2 coils/Box 80 coils/Pallet	BF5	H22 ORS1300.19
	30201670	Woven Polyester 19mm Meter/coil: 600m Core diameter: 76mm Linear Tensile Strength: 600Kg	2 coils/Box 80 coils/Pallet	BF6	H22 H25 H26 ORS1300.19 ORS1300.25 ORS1300.40
	30201589	Woven Polyester 19 mm HD Meter/coil: 500m Core diameter: 76mm Linear Tensile Strength: 1,000Kg	2 coils/Box 80 coils/Pallet	BF8-6.0	H25 H26 ORS1300.25 ORS1300.40
	30201752	Woven Polyester 25mm Meter/coil: 500m Core diameter: 76mm Linear Tensile Strength: 1,000Kg	2 coils/Box 80 coils/Pallet	BF6-4	H22 H25 H26 ORS1300.19 ORS1300.25 ORS1300.40
	30201633	Woven Polyester-HD25mm Meter/coil: 400m Core diameter: 76mm Linear Tensile Strength: 1,400Kg	2 coils/Box 60 coils/Pallet	BF8-5.0 BF8-6.0	H25 H26 ORS1300.25 ORS1300.40
	30201634	Woven Polyester 35mm Meter/coil: 150m Core diameter: 76mm Linear Tensile Strength: 1,400Kg	7 coils/Box 210 coils/Pallet	BF10-7.0	H26 ORS1300.40



Lashing	Part number	Description	Packaging	Fittings	Tensioners
	30201575	L32-2000 Woven Polyester - 32mm Linear Tensile Strength: 2.000daN / 4,400 Lbs	250 m/Bag 16 Bags/Pallet (1 Pallet Box)	LB3516P LB3030 LF3030 BF10-7.0 CB3040	H26 ORS1300.40 Spanbar
	30201558	L32 - 2300 Woven Polyester - 32mm Linear Tensile Strength: 2.300daN / 5,100 Lbs	250 m/Bag 16 Bags/Pallet (1 Pallet Box)	LB3516P LB3030 LF3030 BF10-7.0 CB3040	H26 ORS1300.40 Spanbar
	30201565	L40 - 3500 Woven Polyester - 40mm Linear Tensile Strength: 3.500daN / 7,700 Lbs	200 m/Bag 14 Bags/Pallet (1 Pallet Box)	LB4040 LB4050 LF4040	H26 ORS1300.40 R50XXL R5050NS Spanbar
	30201573	L40 - 5000 Woven Polyester - 40mm Linear Tensile Strength: 5.000daN / 11,000 Lbs	200 m/Bag 14 Bags/Pallet (1 Pallet Box)	LB4040 LB4050 LF4040	H26 ORS1300.40 R50XXL R5050NS Spanbar
	30201578	L50-5000 Woven Polyester - 50mm Linear Tensile Strength: 5.000daN / 11,000 Lbs	200 m/Bag 12 Bags/Pallet (1 Pallet Box)	LB5050 LF5050	ORS1300.50 R50XXL R5050NS Spanbar
	30201579	L50 - 7500 Woven Polyester - 50mm Linear Tensile Strength: 7.500daN / 16,500 Lbs	150 m/Bag 16 Bags/Pallet (1 Pallet Box)	LB5050 LF5050	ORS1300.50 R50XXL R5050NS Spanbar

Buckles Galvanized



Buckle	Part number	Description	Packaging	Strapping	Tensioners
	13058124	Buckle Galvanized – B4-3.0 Strapping Width: 13mm = 0.512 Inch Wire: Ø 3.0mm / Ø 0.118 Inch	1,000 Pcs/Box 112,000 Pcs/Pallet	Hotmelt Composite	H22 ORS1300.19
	1305812A	Buckle Galvanized – B4-3.3 Strapping Width: 13mm = 0.512 Inch Wire: Ø 3.3mm / Ø 0.130 Inch	1,000 Pcs/Box 112,000 Pcs/Pallet	Hotmelt Composite	H22 ORS1300.19
	1305803A	Buckle Galvanized – B5-3.5 Strapping Width: 16mm = 0.630 Inch Wire: Ø 3.5mm / Ø 0.138 Inch	1,000 Pcs/Box 80,000 Pcs/Pallet	Hotmelt Composite	H22 ORS1300.19
	1305813A	Buckle Galvanized – B6-4.0 Strapping Width: 19mm = 0.748 Inch Wire: Ø 4.0mm / Ø 0.157 Inch	1,000 Pcs/Box 60,000 Pcs/Pallet	Hotmelt Composite	H22 H25 H26 ORS1300.19 ORS1300.25 ORS1300.40
	1305814A	Buckle Galvanized – B8-5.0 Strapping Width: 25mm = 0.984 Inch Wire: Ø 5.0mm / Ø 0.197 Inch	500 Pcs/Box 24,000 Pcs/Pallet	Hotmelt Composite	H25 H26 ORS1300.40 ORS1300.25
	1305926A	Buckle Galvanized – B8-6.0 Strapping Width: 25mm = 0.984 Inch Wire: Ø 6.0mm / Ø 0.236 Inch	400 Pcs/Box 19,200 Pcs/Pallet	Hotmelt Composite	H25 H26 ORS1300.40 ORS1300.25
	1305814B	Buckle Galvanized – B10-7.0 Strapping Width: 32mm = 1.260 Inch Wire: Ø 7.0mm / Ø 0.276 Inch	250 Pcs/Box 12,000 Pcs/Pallet	Hotmelt Composite	H26 ORS1300.40
	13059160	Buckle Galvanized – B12-7.0 Strapping Width: 38mm = 1.496 Inch Wire: Ø 7.0mm / Ø 0.276 Inch	200 Pcs/Box 9,600 Pcs/Pallet	Hotmelt Composite	H26 ORS1300.40



Buckles Sherardized

Buckle	Part number	Description	Packaging	Strapping	Tensioners
	1305812S	Buckle Sherardized – BF4-3.3 Width = 13mm = 0.512 Inch Wire = Ø 3.3mm / Ø 0.130 Inch	1,000 Pcs/Box 112,000 Pcs/Pallet	Woven Polyester Composite	H22 ORS1300.19
	1305803S	Buckle Sherardized – BF5-3.5 Width = 16mm = 0.630 Inch Wire = Ø 3.5mm / Ø 0.138 Inch	1,000 Pcs/Box 80,000 Pcs/Pallet	Woven Polyester Composite	H22 ORS1300.19
	1305813S	Buckle Sherardized – BF6-4.0 Width = 19mm = 0.748 Inch Wire = Ø 4.0mm / Ø 0.157 Inch	1,000 Pcs/Box 60,000 Pcs/Pallet	Woven Polyester Composite	H22 H25 ORS1300.19 ORS1300.25
	1305814S	Buckle Sherardized – BF8-5.0 Width = 25mm = 0.984 Inch Wire = Ø 5.0mm / Ø 0.197 Inch	400 Pcs/Box 19,200 Pcs/Pallet	Woven Polyester Composite	H25 H26 ORS1300.40 ORS1300.25
	1305926S	Buckle Sherardized – BF8-6.0 Width = 25mm = 0.984 Inch Wire = Ø 6.0mm / Ø 0.236 Inch	400 Pcs/Box 19,200 Pcs/Pallet	Woven Polyester Composite	H25 H26 ORS1300.40 ORS1300.25
	1305881S	Buckle Sherardized – BF10-7.0 Width = 32mm = 1.260 Inch Wire = Ø 7.0mm / Ø 0.276 Inch	250 Pcs/Box 12,000 Pcs/Pallet Composite	Woven Polyester Lashing	H26 ORS1300.40 Tension Bar
	1305916S	Buckle Sherardized – BF12-7.0 Width = 38mm = 1.496 Inch Wire = Ø 7.0mm / Ø 0.276 Inch	200 Pcs/Box 9,600 Pcs/Pallet	Woven Polyester Composite	H26 ORS1300.40 Tension Bar



Lashing buckles - LB




LB	Part number	Description	Packaging	Lashing	Tensioners
	30201562	Lashing Buckle - LB3030 Lashing Width: 30mm / 1.18 Inch Breaking Strength: 3,000 daN / 6,615 Pounds	50 Pcs/Bag 3,000 Pcs/Pallet	L32-2000 L32-2300	H26 ORS1300.40 Tension Bar
	30201515	Lashing Buckle - LB4040 Lashing Width: 40mm / 1.57 Inch Breaking Strength: 4,000 daN / 8,992 Pounds	25 Pcs/Bag 3,000 Pcs/Pallet	L40-3500 L40-5000	H26 ORS1300.40 R50XXL R5050NS Tension Bar
	30201551	Lashing Buckle - LB4050 Lashing Width: 40mm / 1.57 Inch Breaking Strength: 5,000 daN / 11,240 Pounds	25 Pcs/Bag 2,500 Pcs/Pallet	L40-3500 L40-5000	H26 ORS1300.40 R50XXL R5050NS Tension Bar
	30201502	Lashing Buckle - LB5050 Lashing Width: 50mm / 1.97 Inch Breaking Strength: 5,000 daN / 11,240 Pounds	25 Pcs/Bag 2,500 Pcs/Pallet	L50-5000 L50-7500	H26 ORS1300.40 Tension Bar



Lashing frames - LF (drop forged)



LF	Part number	Description	Packaging	Lashing	Tensioners
	30201547	Lashing Frame – LF3030 Lashing Width: 30mm / 1.18 Inch Breaking Strength: 3,000 daN / 6,615 Pounds	50 Pcs/Box 2,500 Pcs/Pallet	L32-2000 L32-2300	H26 ORS1300.40 Tension Bar
	30201546	Lashing Frame – LF4040 Lashing Width: 40mm / 1.57 Inch Breaking Strength: 4,000 daN / 8,819 Pounds	50 Pcs/Box 2,500 Pcs/Pallet	L40-3500 L40-5000	H26 ORS1300.40 Tension Bar
	30201548	Lashing Frame – LF5050 Lashing Width: 50mm / 1.97 Inch Breaking Strength: 5,000 daN / 11,024 Pounds	40 Pcs/Box 1,440 Pcs/Pallet	L50-5000 L50-7500	ORS1300.50 R50XXL R5050NS Tension Bar

Cross buckle

LF	Part number	Description	Packaging	Lashing	Tensioners
	30201584	Cross Buckle CB3040 Lashing Width: 35mm / 1.38 Inch Breaking Strength: 4,000 daN / 8,992 Pounds	40 Pcs/Box 2,000 Pcs/Pallet	L32-2000 L32-2300	H26 ORS1300.40 Tension Bar

Lashing - plates



LB	Part number	Description	Packaging	Lashing	Tensioners
	30201552	Lashing Plate: OWB3516P Lashing Width: 35 mm / 1.38 Inch Breaking Strength: 1,600 daN / 3,597 Pounds	125 Pcs/Box 10,000 Pcs/Pallet	L32-2000 L32-2300	H26 ORS1300.40 Tension Bar
	30201554	Lashing Plate: OWB5020P Lashing Width: 50 mm / 1.968 Inch Breaking Strength: 2,000 daN / 4,496 Pounds	125 Pcs/Box 6,250 Pcs/Pallet	L50-2000 L50-3000	ORS1300.50 R50XXL R5050NS Tension Bar



Lashing - hook



LB	Part number	Description	Packaging	Lashing	Tensioners
	30201516	Lashing Hook Short: LH3530S Lashing Width: 35 mm / 1.38 Inch Tensile Strength: 3,000 daN / 6,615 Pounds	50 Pcs/Bag 2,250 Pcs/Pallet	L32-2000 L32-2300	H26 ORS1300.40 Tension Bar
	30201550	Lashing Hook: LH4050 Lashing Width: 40 mm / 1.57 Inch Tensile Strength: 5,000 daN / 11,240 Pounds	25 Pcs/Bag 1,250 Pcs/Pallet	L40-3500 L40-5000	H26 ORS1300.40 R50XXL R5050NS Tension Bar
	30201517	Lashing Hook: LH5050 Lashing Width: 50 mm / 1.97 Inch Tensile Strength: 5,000 daN / 11,240 Pounds	25 Pcs/Bag 1,200 Pcs/Pallet	L50-5000 L50-7500	ORS1300.50 R50XXL R5050NS Tension Bar

Tensioners



Tensioner	Part number	Description	Packaging
	30201542	Lashing Tensioner: H26 Lashing Width: 19 – 40 mm / 0.75 – 1.58 Inch For heavy duty applications	Per piece
	30201524	Lashing Tensioner: Orgapack – ORS1300.40 Lashing Width: 19 – 40 mm / 0.75 – 1.58 Inch Swiss Quality	Per piece
	30201543	Lashing Tensioner: ORS1300.50 Lashing Width: 19 – 50 mm / 0.75 – 1.97 Inch Swiss Quality	Per piece
	30201566	Lashing Tensioner: Ratchet 5050NS Ratchet RB5050NS – One Way Lashing Width: 25 – 50 mm / 1.0 – 2.0 Inch	Per piece
	30201527	Lashing Tensioner: Tension Bar Lashing Width: 25 – 50 mm / 1.0 – 2.0 Inch For extreme heavy duty applications	Per piece
	30201564	Lashing Tensioner: Ratchet R50XXL Lashing Width: 25 – 50 mm / 1.0 – 2.0 Inch For extreme heavy duty applications	Per piece
	30201522	Strapping Tensioner: H22 Strapping Width: 9 – 19 mm / 0.35 – 0.75 Inch	Per piece
	30201727	Strapping Tensioner: H25 Strapping Width: 9 – 25 mm / 0.35 – 1.00 Inch	Per piece
	30201518	Strapping Tensioner: ORS1300.19 Strapping Width: 9 – 19 mm / 0.35 – 0.75 Inch	Per piece
	30201523	Strapping Tensioner: ORS1300.25 Strapping Width: 9 – 25 mm / 0.35 – 1.00 Inch	Per piece



Ratchet	Part number	Description	Packaging
	30201606	Ratchet Tie Down – Standard Length: 9 Meter Width Lashing: 50mm LGL - 8.5m / LGF - 0.5m STF: 350 Kg Lashing Capacity: LC2500 / 5,000daN Approved according Standard: EN 12195-2 Certificate N°: 4572-2014-NLD-DNV-08	10 Pcs / Box
	30201608	Ratchet Tie Down – Ergo Length: 9 Meter Width Lashing: 50mm LGL - 8.5m / LGF - 0.5m STF: 500 Kg Lashing Capacity: LC2500 / 5,000daN Approved according Standard: EN 12195-2 Certificate N°: 4572-2014-NLD-DNV-01	8 Pcs / Box

**Different tonnages, colors, lengths, prints,
et cetera, on request**



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