



VAN LEEUWEN PIPE AND TUBE

Hollow sections

European delivery programma
2010

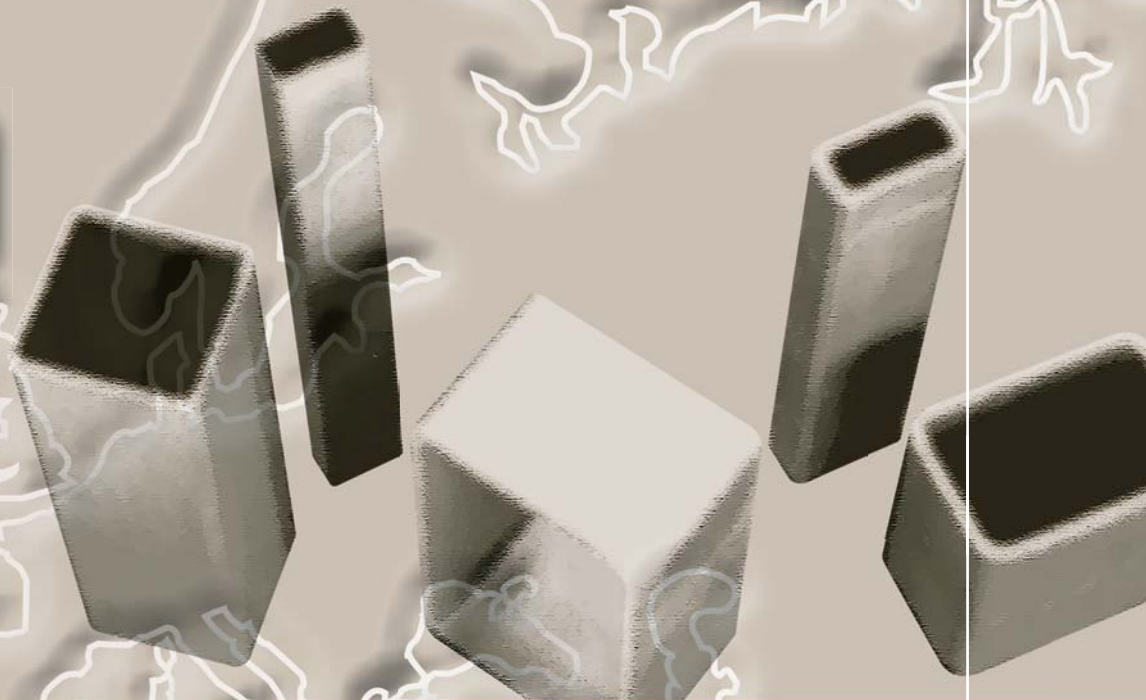
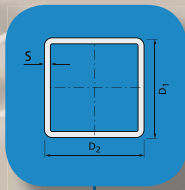


Table of contents

Delivery programme hollow sections	3
Customized service for hollow sections	4
Material treatments	4
Logistical services	7
Consultancy and customized services	8
Technical information for hollow sections	9
Standards and steel grades	9
Tolerances cold formed hollow sections	10
Tolerances hot formed hollow sections	12
Special shaped hollow sections	13
Ledru tear shaped profiles	13
Stanchions	14
Product descriptions for hollow sections	15
Buisprofielen	16

Foreword

Dear reader,

We proudly present to you our brand-new catalogue. The layout has been refreshed and modernized to increase its ease of use. Many changes were also made to its content. Indeed, our portfolio is constantly changing in response to changes in both demand and supply. For example, the transition from DIN standards to Euro Standards is currently still in full swing. The Euro Standard has already been adopted for many items, while other items are still in a transition phase. The product tables and the technical information reflect the most recent state of affairs.

We hope that you will find the information you are looking for in this document. We would also like to refer you to our website, www.vanleeuwen.com, for additional information. Our website was completely revamped at the beginning of 2009. Continuous investment in modern communication tools is a top priority for us. The proper exchange of information is at the root of an enjoyable business relationship. A printed catalogue naturally cannot compete with the internet and other electronic resources. However, the demand for our catalogues to this very day is still so high that we are pleased to respond to this need.

Please do not hesitate to contact us should you have any questions. Our contact information is listed on the back of this publication.

I hope you enjoy perusing this catalogue!



M.A.L.W.J. van Engelen

Managing Director

Van Leeuwen Buizen, Zwijndrecht, the Netherlands

Overview delivery programme from stock

Hollow sections

EUROPEAN STANDARD

EN 10219-1/2	Cold-formed square and rectangular hollow sections, steel grade S235 JRH
EN 10219-1/2	Cold-formed square and rectangular hollow sections, steel grade S275 J0H
EN 10219-1/2	Cold-formed square and rectangular hollow sections, steel grade S355 J2H
EN 10210-1/2	Hot-formed square and rectangular hollow sections, steel grade S355 J2H
EN 10305-5	Cold formed square and rectangular precision tubes, steel grade E220+CR2

N.B.: In most cases, coated versions of these hollow sections can be supplied on request.

On request, tubes to any other standard or material grade can be supplied.



Customized Service

Van Leeuwen Buizen is more than just a supplier of materials. We offer a wide range of services to provide you with the most comprehensive product offering possible. This way we anticipate our customers' needs. Our services are designed to speed up delivery, and make delivery easier and more complete, enabling you to focus on your own core activities. Our services are subdivided into material treatments, logistics services and customer-specific services.

1 Material Treatments

a. Cutting

We can cut your circular pipes and tubes to fix lengths at our own facilities:

- Maximum outside diameter: 813 mm
- Minimum length: 20 mm
- Maximum length: 12 meters

For outside diameters > 813 mm, pipes can be cut to fix lengths by oxygen cutting:

- Maximum outside diameter: 1.280 mm
- Minimum length: 50 mm
- Maximum length: 12 meters

Hollow sections can also be cut to measure. The maximum outside dimension of the hollow sections is 400x400 mm or 500x300 mm (the abovementioned specifications otherwise apply).

b. Angular cutting

We can make angle cuts of square and rectangular hollow sections in accordance with your drawings. We can make simple, as well as square and trapezoidal miter cuts. Only a single angle cut is possible at each pipe end. The angle tolerance is $-0,25^{\circ}/+0,25^{\circ}$.

c. Laser and Plasma Cutting

Laser and plasma cutting allow many variously shaped cut-outs to be made at the end as well as in the middle of the pipe. The possibilities and benefits are countless. For example, such cuts can be made with higher precision in comparison to traditional cutting methods and there is less loss of material, no burr-forming and the cutting speed is higher. We would be pleased to make the necessary computations for you to determine if this treatment is beneficial for you as well.

d. Shot-blasting and Priming

Circular pipes and tubes and hollow sections can be shot-blasted and primed.

The following options are available:

- External SA 2.5 shot-blasting to Swedish Standard SIS 05 59 00 – 1967.
- Priming using red-brown KPC 7205* Aqua Welding Primer; layer thickness approx 25 μ .
- Priming using a Europon or Sigma epoxy shop primer; layer thickness approx 20 μ .
- Priming using a Sigmaweid MC silicate shop primer; layer thickness approx 20 μ .

* A fast drying water-borne resin-based primer.

e. Chemical Cleaning of Pipes and Pipe Components

In addition to shot-blasting, pipes and pipe components can also be chemically cleaned. Internal and external cleaning then takes place at the same time. Depending on the contamination of the pipe or pipe component supplied and the desired delivery state of the product, the overall treatment can be more extensive.

By completely removing the mill scale and other contamination, this cleaning method not only cleans the surface, but also makes the product vulnerable to renewed corrosion. If no additional treatment is effected, it is recommended that external protection be provided by applying a thin layer of oil. Internal contamination can be prevented by using plastic caps as a protective measure.

The following options are available to you:

- Degreasing
- Pickling, rinsing and phosphating
- Pickling, rinsing, phosphating and capping
- Degreasing, pickling, rinsing and phosphating
- Degreasing, pickling, rinsing, phosphating and capping
- Pickling, rinsing, phosphating and internal and/or external oiling
- Pickling, rinsing, phosphating, internal and/or external oiling and capping
- Degreasing, pickling, rinsing, phosphating and internal and/or external oiling
- Degreasing, pickling, rinsing, phosphating, internal and/or external oiling and capping

Definition of concepts used above:

Degreasing: contaminants such as oil and grease are removed prior to pickling.

Pickling: removal of layers of oxidation, annealing and mill scale, and corrosion products.

Phosphating: treatment using a hot phosphoric acid solution to prevent rust (temporary protective layer).

Oiling: Internal and/or external oiling (up to a maximum of 12 meters) using Shell Ensis Fluid E.

f. Hot-dipped galvanizing and Electrolytic zinc plating

Hot-dipped galvanizing involves immersing the material in a bath of liquid zinc. Once it solidifies, the zinc layer acquires a matte appearance. When pipes with relatively thin walls compared to their diameter are galvanized using this method, there is a risk of warping. The advantage of hot dipping is that the inside and outside of the material are evenly galvanized. The thickness of the zinc layer depends on the thickness of the material to be galvanized.

Specifications:

- Hot-dipped galvanized to NEN EN 1461 or A-123
- Minimum diameter: 17 mm
- Minimum length: 6 meters
- No guarantee that pipes will not warp

With **electrolytic zinc plating** the zinc layer is deposited electrolytically by immersing the product in a water-based solution and passing an electric current through the product and fluid. The layer of zinc is then passivated, which significantly increases its resistance to corrosion. The passivation layer is a thin layer of zinc chromate on top of the zinc layer and can assume various colors, such as blue, yellow, green and black. This gives the material a satin appearance. In contrast to hot dipped galvanizing, there is no risk of relatively thin-walled pipes warping. A disadvantage of electrolytic galvanizing is that pipes are only galvanized on the outside. If the inside also needs to be galvanized, an additional auxiliary anode is required on the inside.



Specifications:

- Layer thickness: 8-12 µm
- Standard blue passivated; yellow is also available
- For 5-7 meter pipes
- Standard packaging: perforated film

g. External Polyethylene Coating

Pipes and pipe components can be given an external polyethylene (PE) coating to extend their service life. A coating like this is usually applied to pipes that are buried underground. The polyethylene is applied by hose or wrapping extrusion following the application of an epoxy primer base.

Specifications:

- PE coated to DIN 30670N/n or EN 6901/6902, standard layer thickness with epoxy base layer (3-layer coating) using the hose extrusion process
- Color: standard is black; yellow is also available
- Layer thickness in accordance with standard
- If required, the KIWA mark can be applied (for delivery within the Netherlands)

Additional options:

- PE coating using the sintering method
- External PE coating combined with internal cement lining

h. Annealing

We offer the following options:

- GBK annealing at approx. 720°C
- NBK annealing at approx. 930°C

Unless otherwise specified, the pipes will be lightly oiled using spray guns after annealing. Lack of oiling increases the risk of corrosion significantly.

** NKB annealed circular pipes and tubes are straightened afterwards.*

2 Logistics Services

a. Storage

One of our core competencies consists of maintaining a broad and in-depth inventory of steel pipes, pipe components and valves. Our strategic inventories are stored at various sites in Europe, the Middle East, Asia and Australia.

Managing inventories consequently is a very important activity for us. The optimization of inventory levels and at the same time our ability to guarantee a high level of service to our customers requires our day-to-day attention. We therefore invest a great deal in our people, training, software systems and resources to be able to achieve this. For example, a few years ago we introduced an advanced platform elevator for storing a major portion of our components. Furthermore, we introduced an innovative software system for managing our inventories.

b. Distribution

The speed of our services is a key success factor. Every day, large volumes of steel pipes and other materials make their way from strategically located logistics centers to customers all over the world. Intensification of the shuttle services between our various stock locations has given us a high degree of flexibility and raised our level of service. Furthermore, we continually invest in modern equipment designed to improve our distribution. Recently, for instance, we purchased a LoadPlate, which enables closed containers to be loaded much faster. Another example of custom distribution is our Heavy Wall Express® service within the Benelux. Cut or uncut heavy wall seamless pipes can be ordered up to 17:00 hours, and are delivered before 12:00 the next day.

c. Export Packaging and Marking

Our materials are shipped all over the world. We therefore offer various types of export packaging, including crates, boxes and film packaging. Naturally we also package to a customer's specification, with straw edgings under the cable ties and skids between the bundles if required. Furthermore, we also apply all required markings, such as paint dots, lines or stencils, including the desired brand name identification.

d. Document Control

To verify and confirm that our products are made and supplied according to specifications, design drawings, laws and regulations and other contract-specific requirements, we provide full documentation and document management services. The documentation may consist of packing lists, material certificates, purchase specifications, order confirmations, invoices, (online) price lists, (online) catalogues and QA certificates. We provide the material certificates electronically and can put them together on CD-ROM on a per project basis, for example.

3 Consultancy and Customer-specific Services

a. Project Management

We put together project teams for large-scale projects that, if desired, can also work at the customer's site. Aside from looking after the purchase of the necessary materials, this enables us to provide excellent support in the area of expediting, delivery and document control before, during and after the project.

b. Consultancy

All of our employees are thoroughly familiar with our products. The continuity of this knowledge is assured through internal training programs facilitated by senior staff and training programs facilitated by branche organizations. We also actively contribute to this area. Furthermore, we have our own metallurgist on staff. He can advise you concerning standards, different quality steel levels and other material properties to enable you to select the right product for the right application.

c. Testing and Inspection

We can carry out various inspections and material tests for you, destructive and non-destructive. The most common type of **destructive testing** consists of additional 3.2 testing under the supervision of Lloyd's or another independent inspection body.

The following additional tests are also available:

- Tensile strength test
- Hot yield test
- Impact test at different temperatures
- Bending test
- Flaring test
- Ring tensile test
- Ring bending test
- Ring flaring test
- Hardness test
- Spectral analysis
- Positive Material Identification (PMI) test

Non-destructive testing includes:

- Ultrasonic test
- Magnetic Particle Examination (MPE) test
- PMI test
- Ferrite test
- Eddy Current test

Materials can also be inspected prior to being shipped. This can be done by an inspector from our own inspection department, by the customer or by an independent inspection body.

d. Customer-dedicated Inventories

We service all of our customers from our general inventories maintained at various sites around the world. But in some cases we also manage specific inventories reserved for a single customer only, based on that customer's projected purchasing requirements. This assures our customers of sufficient materials without having to maintain extensive inventories themselves. This service is particularly appropriate for customers who specialize in standard production (the so-called Original Equipment Manufacturers). Customer-specific inventories are also maintained for large projects.

Product information

1 Standards and qualities

Explanation of the main European standards for hollow sections

- EN 10210-1/2 Hot-finished structural hollow sections
- EN 10219-1/2 Cold-formed welded structural hollow sections

The distinction between cold or hot formed can be essential for hollow sections. This is because it influences the possible applications for which the pipe can be used. In Eurocode 3, an often used standard for steel constructions, this distinction is also often made. For instance, hot-formed hollow sections are very suitable for dynamically loaded structures including lifts, fairground attractions, agricultural machines and cranes. Because the pipe is hot formed, no appreciable stress is created in the corners and the pipe retains a homogenous structure with an even hardness. Therefore, hot-formed hollow sections can be highly loaded, are resistant to buckling and brittle fracture, and offer high safety margins for structures where this is important.

In cold-formed hollow sections, the hardness is higher at the corner areas due to the cold forming of the section. In many cases this is absolutely no problem. However, for some structures where Eurocode 3 is applicable, restrictions are enforced related to welding in the corner area. For this reason, hot-formed hollow sections must then be chosen.

Cold-formed hollow sections are always welded. Some mills first manufacture a welded round pipe and then form it into the desired hollow section. Other mills use 'direct forming'. The steel strip is then folded directly into a square or rectangular shape and then welded. Hot-formed hollow sections on the other hand usually are seamless, as the mill uses a seamless round tube as the base material.

Standard	Description of standard	Other denominations
EN 10210-1	Technical delivery conditions	DIN 17121, DIN 17100, VS 4360, NFA-49501
EN 10210-2	Tolerances, dimensions and section properties	DIN 59410, BS 484, NFA-49501
EN 10219-1	Technical delivery conditions	DIN 17120, DIN 17119, BS 6363, NFA 49541
EN 10219-2	Tolerances, dimensions and section properties	DIN 59411, BS 6363, NFA 49541

Standard	Associated grades	Verdere Other denominations
EN 10210	S355J2H	St.52.3N (Fe 510 D)
EN 10219	S235JRH	RSt.37.2 (Fe 360 B)
	S275J0H	St.44.3 (Fe 430 C)
	S355J0H	St.52.3 (Fe 510 C)
	S355J2H	St.52.3N (Fe 510 D)

The material grades mentioned above are derived from standard EN 10027 and are included in the standards EN 10210 and EN 10219. Below is an example and explanation of these material grades:

S275J2H:

- S Structural steel
- 275 Minimum yield strength in N/mm²
- J Impact value minimum 27 Joules
- 2 Impact test temperature -20° C.
- H Hollow section

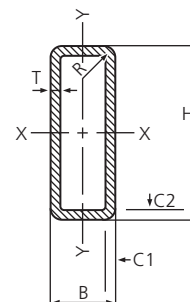
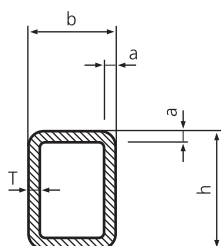
2 Tolerances of cold-formed steel hollow sections to EN 10305-5 and EN 10219-2

Standard for tolerances:

EN 10305 - 5

EN 10219 Part 2

Denomination of height, width and wall thickness:



Tolerance on height/width:

See Table 1

See Table 2

Tolerance on wall thickness:

$T \leq 1.5 \text{ mm}$: $\pm 0.15 \text{ mm}$
 $T > 1.5 \text{ mm}$: $\pm 0.1 \text{ mm}$ with a minimum of $\pm 0.35 \text{ mm}$

$T < 5 \text{ mm}$ +/- 10%
 $T > 5 \text{ mm}$ +/- 0.5mm

Corner shape on the outside a, C1, C2 or R

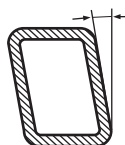
Corner radius (a)
 $T \leq 2.5 \text{ mm}$: a max. 1.5 T
 $T > 2.5 \text{ mm}$: a max. 2.2 T

Wall thickness T		C1, C2 or R
>	≤	
-	6	2,0.T
6	10	2,5.T
10		3,0.T
Tolerance +/-20%		

Tolerance on vaulting:

Max. 0.8% with a minimum of 0.5 mm

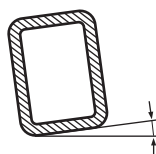
Tolerance on squareness:



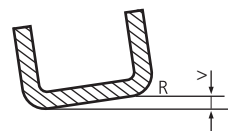
$90^\circ \pm 1^\circ$

$90^\circ \pm 1^\circ$

Tolerance on twist (on torsion):



$B \text{ or } H \leq 30 \text{ mm}$: $\leq 3 \text{ mm}$
 $B \text{ or } H > 30 \text{ mm}$: $\leq B/10 \text{ or } H/10$



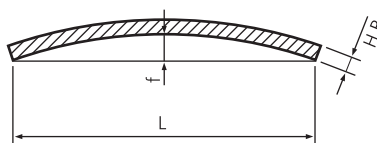
Max. 2 mm (+ 0.5 mm/m)

Standard for tolerances:

EN 10305 - 5

EN 10219 deel 2

Tolerance on straightness



B or H ≤ 30 mm: max. 0.0025 L*

Max. 0.0015. L and max.3 mm over 1 metre

B or H > 30 mm: max. 0.0015 L

and max. 3 mm over 1 metre

*For hot-dipped galvanized or normalized annealed pipes, max. 0.005. L

Tolerance on mass:

+/-6% for individual lengths

Tolerance on dimensions (height and width):

Table 1: EN 10305

Height/width in mm	Tolerance in mm
longest side ≤ 20	+/- 0,20
20 < longest side ≤ 35	+/- 0,25
35 < longest side ≤ 50	+/- 0,30
50 < longest side ≤ 60	+/- 0,35
60 < longest side ≤ 70	+/- 0,40
70 < longest side ≤ 80	+/- 0,50
80 < longest side ≤ 90	+/- 0,60
90 < longest side ≤ 100	+/- 0,65
100 < longest side ≤ 120	+/- 0,70

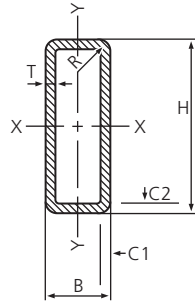
The longest side is applicable for determination of the tolerance.

Table 2: EN 10219

Height/width (H/B) in mm	Tolerance in mm
H / B < 100	+/- 1% with a minimum of 0.5 mm
100 ≤ H / B ≤ 200	+/- 0,8 %
H / B > 200	+/- 0,6 %

3 Tolerances of hot-formed steel hollow sections to EN 10210 Part 2

Denomination of height, width, wall thickness and radius:



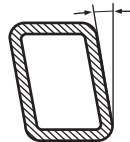
Tolerance on height/width: $\pm 1\%$ with a minimum of ± 0.5 mm

Tolerance on wall thickness: -10% and as per tolerance on mass

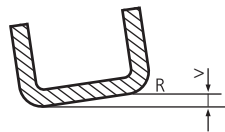
Corner shape on the outside A, C1, C2 or R: Max. $3 \times T$

Tolerance on vaulting: Max. 1%

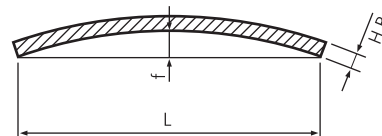
Tolerance on squareness: $90^\circ \pm 1^\circ$



Tolerance on twisting (on torsion): V max. 2 mm
+ 0,5 mm /m



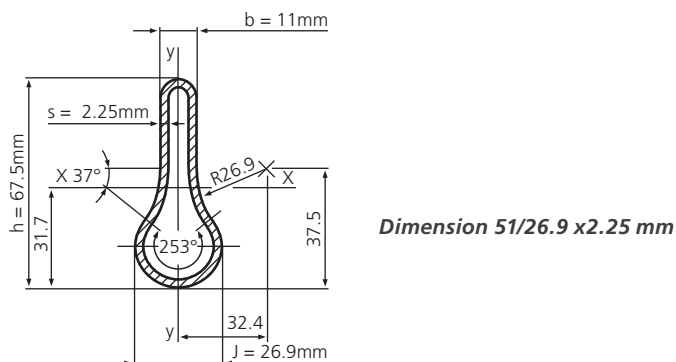
Tolerance on straightness: F max = $0.002 L$ and 3mm over every m¹



Tolerance on mass: $\pm 6\%$ for individual lengths

Special shaped hollow sections

1 LEDRU ® tear-shaped hollow sections



LEDRU ® tear-shaped hollow sections, cold formed, steel grade S235JRH to EN 10219 (Fe360/St.37), manufactured from unpickled hot rolled strip, leak tested, in lengths of 6.40 m, if desired with mill test report to EN 10204/2.2

Heating advantages of tear-shaped hollow sections

- 60 percent less water compared to traditional greenhouse heating tube diam. 51 mm
- Reduction of on average 12,500 liters of water per hectare
- Better temperature control due to faster reaction speed
- Optimal sideward radiation to crop; no heat and radiation loss upwards
- Higher efficiency

Mechanical advantages of teardrop hollow sections

- Vertically strong and therefore a more stable mono or tube rail system
- No annoying undulations
- Easy to weld

Comparison of traditional greenhouse tube and teardrop hollow section:

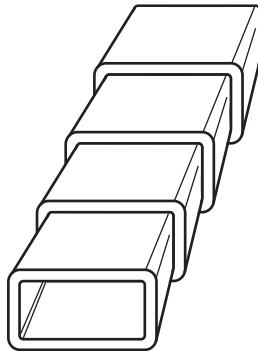
Type of hollow section	Dimensions	Delivery	Weight of pipe	Water volume	Weight of pipe incl. water	Application
Greenhouse tube Ø51	51 x 2.25mm	100%	2.7 kg/m	1.7ltr/m	4.4 kg/m	tube rail / pick rail
Teardrop hollow section LEDRU®	51x26.9x2.25mm (height 68mm)	100%	2.7kg/m	0.7ltr/m	3.4 kg/m	tube rail/monorail

Available in the following versions:

- Black
- Electrolytic zinc plated
- Powder coated
- Shot blasted /primed

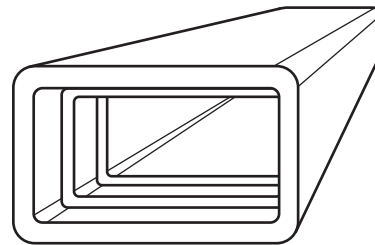
2 Stanchions

Combination A



60 x 30 x 3 mm
 fits in 70 x 40 x 4 mm
 fits in 81 x 51 x 5 mm
 fits in 96 x 66 x 6 mm

Combination B



60 x 30 x 3 mm
 fits in 70 x 40 x 4 mm
 fits in 83 x 53 x 6 mm

Available in the following versions:

Stanchions in accordance with EN 10219, steel grade S275J0H (Fe 430 C/St 44.3), cold-formed, manufactured from unpickled hot rolled strip, if desired with mill test certificate to EN 10204/2.2, in lengths as indicated per dimension.

Available in the following dimensions:

Art. no.	Size in mm	Theor. weight in kg/m	Standard lengths in stock (m)	Norm	Materiaal / uitvoering	VL code
8023	60 x 30 x 3	3.800	7.50	Rong / EN 10219	S275J0H	530
8349	70 x 40 x 4	6.140	7.50	Rong / EN 10219	S275J0H	530
8873	81 x 51 x 5	8.900	7.50	Rong / EN 10219	S275J0H	530
8910	83 x 53 x 6	10.650	7.50	Rong / EN 10219	S275J0H	531
9129	96 x 66 x 6	13.040	7.50	Rong / EN 10219	S275J0H	531

Product descriptions

Square and rectangular hollow sections

VL codes 529, 530, 531, 532, 540 and 541

VL Code	Norm	Steel grade	Product description
529/530/531	EN 10219	S235JRH	Cold formed hollow sections according to EN 10219, steel grade S235JRH (RSt.37.2), from hot rolled strip, if desired with test report to EN 10204/2.2.
529	Ledru ®	S235JRG2	Ledru ® tear-shaped hollow section, cold formed, steel grade S235JRG2 according to EN 10025 (RSt.37-2), from hot rolled strip.
530 / 531	EN 10219	S275J0H	Cold formed hollow sections according to EN 10219, steel grade S275J0H (St.44.3) from hot rolled strip, if desired with test report to EN 10204/2.2.
530 / 531	Stanchion	S275J0H	Stanchions according to EN 10219, steel grade S275J0H (St.44.3), cold formed, from hot rolled strip, if desired with test report to EN 10204/2.2.
532	EN 10210	S355J2H	Hot formed hollow sections according to EN 10210, steel grade S355J2H (St.52.3N) if desired with inspection certificate to EN 10204/3.1.
540	EN 10305-5	E220+CR2 (KB)	Cold formed precision tubes according to EN 10305-5, steel grade E220+CR2 S3, from cold formed strip
540	EN 10305-5	E220+CR2 / E235+CR1 S2 (GWB)	Cold formed precision tubes according to EN 10305-5, steel grade E220+CR2 / E235+CR1 S2, from hot rolled pickled strip (bright).
540	EN 10305-5	E220+CR2 / E235+CR1 S2 (GWB)	Cold formed precision tubes, flat oval, according to EN 10305-5, steel grade E220+CR2 / E235+CR1 S2, from hot rolled pickled strip (bright).
541	EN 10219	S355J2H	Cold formed hollow sections according to EN 10219, steel grade S355J2H (St.52.3N), if desired with inspection certificate to EN 10204/3.1.

Leveringsprogramma buisprofielen

Afmetingen en gewichten

Art. nr.	D1 mm	D2 mm	s mm	VL Code	Norm	Steel grade	Execution	Surface	Ends	Length in m	Kg/m
2060	12	12	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	0.49
2725	15	15	1	540	EN 10305-5	E220+CR2 S3(COLD)		bright	plain	6	0.44
2727	15	15	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	0.63
2728	15	15	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	0.81
3351	18	18	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	0.77
3997	20	10	1	540	EN 10305-5	E220+CR2 S3(COLD)		bright	plain	6	0.44
3999	20	10	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	0.63
4012	20	15	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	0.75
4029	20	20	1.25	540	EN 10305-5	E220+CR2 S3(COLD)		bright	plain	6	0.73
39023	20	20	1.5	529	EN 10219	S235JRH		bl oiled	plain	6	0.87
4031	20	20	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	0.87
39025	20	20	2	529	EN 10219	S235JRH		bl oiled	plain	6	1.05
4032	20	20	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.12
4825	25	15	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	0.87
4826	25	15	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.12
4834	25	20	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.28
39027	25	25	1.5	529	EN 10219	S235JRH		bl oiled	plain	6	1.10
4838	25	25	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.10
39029	25	25	2	529	EN 10219	S235JRH		bl oiled	plain	6	1.36
4840	25	25	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.44
4841	25	25	2.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.76
4842	25	25	3	530	EN 10219	S275J0H		bl oiled	plain	6	1.92
5579	30	10	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	0.87
5582	30	15	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	0.99
5583	30	15	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.28
5585	30	20	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.10
39032	30	20	2	529	EN 10219	S235JRH		bl oiled	plain	6	1.44
5586	30	20	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.44
128902	30	20	3	529	EN 10219	S235JRH		bl oiled	plain	6	1.92
5593	30	30	1.5	529	EN 10219	S235JRH		bl oiled	plain	6	1.34
5594	30	30	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.34
5595	30	30	2	529	EN 10219	S235JRH		bl oiled	plain	6	1.68

Art. nr.	D1 mm	D2 mm	s mm	VL Code	Norm	Steel grade	Execution	Surface	Ends	Length in m	Kg/m
5596	30	30	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.75
5597	30	30	2.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	2.03
103162	30	30	3	529	EN 10219	S235JRH		bl not oil	plain	6	2.36
5598	30	30	3	530	EN 10219	S275J0H		bl oiled	plain	6	2.36
5600	30	30	4	529	EN 10219	S235JRH		bl oiled	plain	6	3.00
5640	31	16	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK	oval	bright	plain	6	0.89
5689	32	32	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.88
60016	34	34	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	2.00
6229	35	15	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.44
6233	35	20	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.59
6238	35	25	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.75
6242	35	35	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.57
6243	35	35	2	529	EN 10219	S235JRH		bl oiled	plain	6	2.07
6244	35	35	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	2.07
101224	35	35	3	529	EN 10219	S235JRH		bl oiled	plain	6	2.86
6245	35	35	3	530	EN 10219	S275J0H		bl oiled	plain	6	2.86
6428	38	20	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK	oval	bright	plain	6	1.11
6429	38	20	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK	oval	bright	plain	6	1.45
6824	40	10	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.10
6825	40	15	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.22
6826	40	15	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.59
6830	40	20	1.5	529	EN 10219	S235JRH		bl oiled	plain	6	1.34
6831	40	20	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.34
6832	40	20	2	529	EN 10219	S235JRH		bl oiled	plain	6	1.68
6833	40	20	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.75
101225	40	20	3	529	EN 10219	S235JRH		bl oiled	plain	6	2.36
6835	40	20	3	530	EN 10219	S275J0H		bl oiled	plain	6	2.36
6838	40	25	2	529	EN 10219	S235JRH		bl oiled	plain	6	1.91
6839	40	25	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.91
6841	40	30	2	529	EN 10219	S235JRH		bl oiled	plain	6	2.07
6842	40	30	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	2.07
6843	40	30	3	530	EN 10219	S275J0H		bl oiled	plain	6	2.86
6845	40	40	1.5	529	EN 10219	S235JRH		bl oiled	plain	6	1.81
6847	40	40	2	529	EN 10219	S235JRH		bl oiled	plain	6	2.31
6848	40	40	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	2.38
6849	40	40	2.5	529	EN 10219	S235JRH		bl oiled	plain	6	2.82
6852	40	40	2.9	532	EN 10210	S355J2H		bl not oil	plain	13	3.31
86653	40	40	3	529	EN 10219	S235JRH		bl not oil	plain	6	3.30
6853	40	40	3	530	EN 10219	S275J0H		bl oiled	plain	6	3.30
6855	40	40	3	530	EN 10219	S275J0H		bl not oil	plain	12	3.30



Art. nr.	D1 mm	D2 mm	s mm	VL Code	Norm	Steel grade	Execution	Surface	Ends	Length in m	Kg/m
6854	40	40	3	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	3.30
86659	40	40	4	529	EN 10219	S235JRH		bl not oil	plain	6	4.20
6859	40	40	4	530	EN 10219	S275J0H		bl oiled	plain	6	4.20
6860	40	40	4	530	EN 10219	S275J0H		bl not oil	plain	12	4.20
6863	40	40	4	532	EN 10210	S355J2H		bl not oil	plain	13	4.39
6865	40	40	5	532	EN 10210	S355J2H		bl not oil	plain	13	5.28
7091	45	25	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	2.07
7096	45	45	3	530	EN 10219	S275J0H		bl oiled	plain	6	3.80
7097	45	45	4	530	EN 10219	S275J0H		bl oiled	plain	6	4.88
7179	48	20	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK	oval	bright	plain	6	1.77
114632	50	10	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.34
7385	50	20	1.5	529	EN 10219	S235JRH		bl not oil	plain	6,35	1.57
7384	50	20	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.57
7386	50	20	2	529	EN 10219	S235JRH		bl oiled	plain	6	2.07
7387	50	20	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	2.07
7390	50	25	1.5	529	EN 10219	S235JRH		bl not oil	plain	6,35	1.69
7389	50	25	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.69
7392	50	25	2	529	EN 10219	S235JRH		bl oiled	plain	6	2.22
31052	50	25	2	530	EN 10219	S275J0H		bl not oil	plain	7,95	2.22
7393	50	25	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	2.22
87469	50	25	2.5	530	EN 10219	S275J0H		bl not oil	plain	9,55	2.74
101226	50	25	3	529	EN 10219	S235JRH		bl oiled	plain	6	3.10
7396	50	25	3	530	EN 10219	S275J0H		bl oiled	plain	6	3.10
87470	50	25	3	530	EN 10219	S275J0H		bl oiled	plain	7,95	3.10
87471	50	25	3	530	EN 10219	S275J0H		bl oiled	plain	9,55	3.10
7399	50	30	1.5	529	EN 10219	S235JRH		bl oiled	plain	6	1.81
7400	50	30	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.81
7402	50	30	2	529	EN 10219	S235JRH		bl oiled	plain	6	2.31
53623	50	30	2	530	EN 10219	S275J0H		bl not oil	plain	9,55	2.31
103826	50	30	2	530	EN 10219	S275J0H		bl not oil	plain	7,95	2.31
7403	50	30	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	2.31
53835	50	30	2.5	530	EN 10219	S275J0H		bl not oil	plain	9,55	2.82
127098	50	30	2.5	530	EN 10219	S275J0H		bl not oil	plain	6	2.82
7409	50	30	2.9	532	EN 10210	S355J2H		bl not oil	plain	13	3.31
101227	50	30	3	529	EN 10219	S235JRH		bl oiled	plain	6	3.30
7410	50	30	3	530	EN 10219	S275J0H		bl oiled	plain	6	3.30
53834	50	30	3	530	EN 10219	S275J0H		bl not oil	plain	9,55	3.30
7411	50	30	3	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	3.30
103163	50	30	4	529	EN 10219	S235JRH		bl not oil	plain	6	4.20
7415	50	30	4	530	EN 10219	S275J0H		bl oiled	plain	6	4.20
7416	50	30	4	532	EN 10210	S355J2H		bl not oil	plain	13	4.39
7418	50	40	1.5	529	EN 10219	S235JRH		bl oiled	plain	6	2.05
7419	50	40	2	529	EN 10219	S235JRH		bl oiled	plain	6	2.69
101228	50	40	3	529	EN 10219	S235JRH		bl oiled	plain	6	3.80
7421	50	40	3	530	EN 10219	S275J0H		bl oiled	plain	6	3.80
7422	50	40	4	530	EN 10219	S275J0H		bl oiled	plain	6	4.83

Art. nr.	D1 mm	D2 mm	s mm	VL Code	Norm	Steel grade	Execution	Surface	Ends	Length in m	Kg/m
7424	50	50	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	2.28
7425	50	50	2	529	EN 10219	S235JRH		bl oiled	plain	6	2.93
7426	50	50	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	3.01
7428	50	50	2.5	529	EN 10219	S235JRH		bl oiled	plain	6	3.60
7437	50	50	2.9	532	EN 10210	S355J2H		bl not oil	plain	13	4.22
78148	50	50	3	529	EN 10219	S235JRH		bl not oil	plain	12	4.25
86691	50	50	3	529	EN 10219	S235JRH		bl not oil	plain	6	4.25
7432	50	50	3	530	EN 10219	S275J0H		bl oiled	plain	6	4.25
7433	50	50	3	530	EN 10219	S275J0H		bl not oil	plain	12	4.25
7434	50	50	3	530	EN 10219	S275J0H		bl not oil	plain	10	4.25
138137	50	50	3	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	4.25
81823	50	50	4	529	EN 10219	S235JRH		bl not oil	plain	10	5.45
81824	50	50	4	529	EN 10219	S235JRH		bl not oil	plain	12	5.45
86657	50	50	4	529	EN 10219	S235JRH		bl not oil	plain	6	5.45
7439	50	50	4	530	EN 10219	S275J0H		bl oiled	plain	6	5.45
7440	50	50	4	530	EN 10219	S275J0H		bl not oil	plain	12	5.45
7443	50	50	4	532	EN 10210	S355J2H		bl not oil	plain	13	5.64
86654	50	50	5	529	EN 10219	S235JRH		bl not oil	plain	6	6.56
103136	50	50	5	529	EN 10219	S235JRH		bl not oil	plain	12	6.56
7447	50	50	5	530	EN 10219	S275J0H		bl oiled	plain	6	6.56
7448	50	50	5	530	EN 10219	S275J0H		bl not oil	plain	12	6.56
7451	50	50	5	532	EN 10210	S355J2H		bl not oil	plain	13	6.85
39590	50	50	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	8.31
7555	51	26.9	2.25	529	Tear shaped profile	S235JRH	LEDRU	bl not oil	plain	6,40	2.71
7592	55	34	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	2.66
8009	60	20	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.81
8010	60	20	2	529	EN 10219	S235JRH		bl oiled	plain	6	2.38
8011	60	20	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	2.38
8014	60	30	2	529	EN 10219	S235JRH		bl oiled	plain	6	2.69
53092	60	30	2	530	EN 10219	S275J0H		bl not oil	plain	9,60	2.69
87472	60	30	2	530	EN 10219	S275J0H		bl not oil	plain	7,95	2.69
8015	60	30	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	2.69
8016	60	30	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK	oval	bright	plain	6	2.32
106456	60	30	2.5	530	EN 10219	S275J0H		bl not oil	plain	9,53	3.21
101229	60	30	3	529	EN 10219	S235JRH		bl oiled	plain	6	3.80
8019	60	30	3	530	EN 10219	S275J0H		bl oiled	plain	6	3.80
8023	60	30	3	530	EN 10219	S275J0H	stanch	bl not oil	plain	7,5	3.80
36763	60	30	3	530	EN 10219	S275J0H		bl not oil	plain	9,55	3.80
87476	60	30	3	530	EN 10219	S275J0H		bl not oil	plain	12,75	3.80
120446	60	30	3	530	EN 10219	S275J0H		bl oiled	plain	6,28	3.80
101230	60	30	4	529	EN 10219	S235JRH		bl oiled	plain	6	4.83
8024	60	30	4	530	EN 10219	S275J0H		bl oiled	plain	6	4.83
8027	60	40	2	529	EN 10219	S235JRH		bl oiled	plain	6	2.93
8028	60	40	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	3.01
8034	60	40	2.9	532	EN 10210	S355J2H		bl not oil	plain	13	4.22
101231	60	40	3	529	EN 10219	S235JRH		bl oiled	plain	6	4.25
8031	60	40	3	530	EN 10219	S275J0H		bl oiled	plain	6	4.25
101232	60	40	4	529	EN 10219	S235JRH		bl oiled	plain	6	5.45
103137	60	40	4	529	EN 10219	S235JRH		bl not oil	plain	12	5.45



Art. nr.	D1 mm	D2 mm	s mm	VL Code	Norm	Steel grade	Execution	Surface	Ends	Length in m	Kg/m
8036	60	40	4	530	EN 10219	S275J0H		bl oiled	plain	6	5.45
8037	60	40	4	530	EN 10219	S275J0H		bl not oil	plain	12	5.45
8040	60	40	4	532	EN 10210	S355J2H		bl not oil	plain	13	5.64
103164	60	40	5	529	EN 10219	S235JRH		bl not oil	plain	6	6.56
8043	60	40	5	530	EN 10219	S275J0H		bl oiled	plain	6	6.56
16219	60	40	5	532	EN 10210	S355J2H		bl not oil	plain	13	6.85
103166	60	50	3	529	EN 10219	S235JRH		bl not oil	plain	6	4.75
8045	60	50	3	530	EN 10219	S275J0H		bl oiled	plain	6	4.75
8046	60	50	4	530	EN 10219	S275J0H		bl oiled	plain	6	6.14
8047	60	60	2	529	EN 10219	S235JRH		bl oiled	plain	6	3.56
8048	60	60	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	3.56
126886	60	60	2.5	529	EN 10219	S235JRH		bl not oil	plain	6	4.39
78149	60	60	3	529	EN 10219	S235JRH		bl not oil	plain	12	5.19
78154	60	60	3	529	EN 10219	S235JRH		bl not oil	plain	10	5.19
86658	60	60	3	529	EN 10219	S235JRH		bl not oil	plain	6	5.19
8051	60	60	3	530	EN 10219	S275J0H		bl oiled	plain	6	5.19
8052	60	60	3	530	EN 10219	S275J0H		bl not oil	plain	12	5.19
8053	60	60	3	530	EN 10219	S275J0H		bl not oil	plain	10	5.19
78150	60	60	4	529	EN 10219	S235JRH		bl not oil	plain	12	6.71
78155	60	60	4	529	EN 10219	S235JRH		bl not oil	plain	10	6.71
101233	60	60	4	529	EN 10219	S235JRH		bl oiled	plain	6	6.71
8060	60	60	4	530	EN 10219	S275J0H		bl oiled	plain	6	6.71
8061	60	60	4	530	EN 10219	S275J0H		bl not oil	plain	12	6.71
8062	60	60	4	530	EN 10219	S275J0H		bl not oil	plain	10	6.71
8065	60	60	4	532	EN 10210	S355J2H		bl not oil	plain	13	6.90
77324	60	60	4	541	EN 10219	S355J2H		bl not oil	plain	12	6.71
101234	60	60	5	529	EN 10219	S235JRH		bl oiled	plain	6	8.13
101235	60	60	5	529	EN 10219	S235JRH		bl oiled	plain	12	8.13
8068	60	60	5	530	EN 10219	S275J0H		bl not oil	plain	6	8.13
8069	60	60	5	530	EN 10219	S275J0H		bl not oil	plain	12	8.13
8072	60	60	5	532	EN 10210	S355J2H		bl not oil	plain	13	8.42
77325	60	60	5	541	EN 10219	S355J2H		bl not oil	plain	12	8.13
8073	60	60	6	531	EN 10219	S275J0H		bl not oil	plain	6	9.45
8074	60	60	6	531	EN 10219	S275J0H		bl not oil	plain	12	9.45
103138	60	60	6	531	EN 10219	S235JRH		bl not oil	plain	6	9.45
8077	60	60	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	10.30
39639	60	60	8	532	EN 10210	S355J2H		bl not oil	plain	13	12.50
138275	70	11	1.5	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	1.84
100531	70	20	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	2.69
8329	70	30	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	3.01
8330	70	30	3	530	EN 10219	S275J0H		bl oiled	plain	6	4.28
104765	70	30	4	529	EN 10219	S235JRH		bl not oil	plain	6	5.51
8331	70	30	4	530	EN 10219	S275J0H		bl oiled	plain	6	5.51
8340	70	40	2	529	EN 10219	S235JRH		bl oiled	plain	6	3.32
97022	70	40	3	529	EN 10219	S235JRH		bl not oil	plain	6	4.75
8343	70	40	3	530	EN 10219	S275J0H		bl oiled	plain	6	4.75
8344	70	40	3	530	EN 10219	S275J0H		bl not oil	plain	12	4.75
8345	70	40	3	530	EN 10219	S275J0H		bl not oil	plain	7,5	4.75
101236	70	40	4	529	EN 10219	S235JRH		bl oiled	plain	6	6.14
104766	70	40	4	529	EN 10219	S235JRH		bl not oil	plain	12	6.14
8347	70	40	4	530	EN 10219	S275J0H		bl oiled	plain	6	6.14
8348	70	40	4	530	EN 10219	S275J0H		bl not oil	plain	12	6.14

Art. nr.	D1 mm	D2 mm	s mm	VL Code	Norm	Steel grade	Execution	Surface	Ends	Length in m	Kg/m
8349	70	40	4	530	EN 10219	S275J0H	stanch	bl not oil	plain	7,5	6.14
8350	70	40	4	532	EN 10210	S355J2H		bl not oil	plain	13	6.27
103139	70	40	5	529	EN 10219	S235JRH		bl not oil	plain	6	7.34
8351	70	40	5	530	EN 10219	S275J0H		bl oiled	plain	6	7.34
8357	70	50	3	530	EN 10219	S275J0H		bl oiled	plain	6	5.19
8360	70	50	4	530	EN 10219	S275J0H		bl not oil	plain	12	6.71
8363	70	70	2	529	EN 10219	S235JRH		bl oiled	plain	6	4.26
139461	70	70	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	4.26
78156	70	70	3	529	EN 10219	S235JRH		bl not oil	plain	10	6.13
78171	70	70	3	529	EN 10219	S235JRH		bl not oil	plain	12	6.13
86633	70	70	3	529	EN 10219	S235JRH		bl not oil	plain	6	6.13
8364	70	70	3	530	EN 10219	S275J0H		bl oiled	plain	6	6.13
8365	70	70	3	530	EN 10219	S275J0H		bl not oil	plain	12	6.13
8366	70	70	3	530	EN 10219	S275J0H		bl not oil	plain	10	6.13
78157	70	70	4	529	EN 10219	S235JRH		bl not oil	plain	10	7.97
78172	70	70	4	529	EN 10219	S235JRH		bl not oil	plain	12	7.97
101237	70	70	4	529	EN 10219	S235JRH		bl oiled	plain	6	7.97
8371	70	70	4	530	EN 10219	S275J0H		bl oiled	plain	6	7.97
8372	70	70	4	530	EN 10219	S275J0H		bl not oil	plain	12	7.97
8373	70	70	4	530	EN 10219	S275J0H		bl not oil	plain	10	7.97
8374	70	70	4	532	EN 10210	S355J2H		bl not oil	plain	13	8.15
78180	70	70	5	529	EN 10219	S235JRH		bl not oil	plain	12	9.70
101238	70	70	5	529	EN 10219	S235JRH		bl oiled	plain	6	9.70
8377	70	70	5	530	EN 10219	S275J0H		bl oiled	plain	6	9.70
8378	70	70	5	530	EN 10219	S275J0H		bl not oil	plain	12	9.70
8380	70	70	5	532	EN 10210	S355J2H		bl not oil	plain	13	9.99
77327	70	70	5	541	EN 10219	S355J2H		bl not oil	plain	12	9.70
8382	70	70	6	531	EN 10219	S275J0H		bl not oil	plain	12	11.30
103140	70	70	6	531	EN 10219	S235JRH		bl not oil	plain	6	11.30
39640	70	70	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	12.30
110225	70	70	8	532	EN 10210	S355J2H		bl not oil	plain	13	15.00
8797	80	20	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	3.01
109005	80	25	3	530	EN 10219	S275J0H		bl oiled	plain	6	4.48
8798	80	30	2	529	EN 10219	S235JRH		bl oiled	plain	6	3.32
104795	80	30	3	529	EN 10219	S235JRH		bl not oil	plain	6	4.75
8800	80	30	3	530	EN 10219	S275J0H		bl oiled	plain	6	4.75
8801	80	40	2	529	EN 10219	S235JRH		bl oiled	plain	6	3.56
8802	80	40	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	3.64
101239	80	40	3	529	EN 10219	S235JRH		bl oiled	plain	6	5.19
103167	80	40	3	529	EN 10219	S235JRH		bl not oil	plain	12	5.19
8806	80	40	3	530	EN 10219	S275J0H		bl oiled	plain	6	5.19
8807	80	40	3	530	EN 10219	S275J0H		bl not oil	plain	12	5.19
101240	80	40	4	529	EN 10219	S235JRH		bl oiled	plain	6	6.71
103168	80	40	4	529	EN 10219	S235JRH		bl not oil	plain	12	6.71
8811	80	40	4	530	EN 10219	S275J0H		bl oiled	plain	6	6.71
8812	80	40	4	530	EN 10219	S275J0H		bl not oil	plain	12	6.71
8814	80	40	4	532	EN 10210	S355J2H		bl not oil	plain	13	6.90
8816	80	40	5	530	EN 10219	S275J0H		bl oiled	plain	6	8.13
8817	80	40	5	530	EN 10219	S275J0H		bl not oil	plain	12	8.13
8818	80	40	5	532	EN 10210	S355J2H		bl not oil	plain	13	8.42
16245	80	40	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	10.30
110910	80	40	8	532	EN 10210	S355J2H		bl not oil	plain	12	12.50
8820	80	50	2	529	EN 10219	S235JRH		bl oiled	plain	6	3.95



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Art. nr.	D1 mm	D2 mm	s mm	VL Code	Norm	Steel grade	Execution	Surface	Ends	Length in m	Kg/m
53624	80	50	2	530	EN 10219	S275J0H		bl not oil	plain	9,10	3.95
31053	80	50	2.5	530	EN 10219	S275J0H		bl not oil	plain	8,10	4.90
101241	80	50	3	529	EN 10219	S235JRH		bl oiled	plain	6	5.69
104796	80	50	3	529	EN 10219	S235JRH		bl not oil	plain	12	5.69
8824	80	50	3	530	EN 10219	S275J0H		bl oiled	plain	6	5.69
8825	80	50	3	530	EN 10219	S275J0H		bl not oil	plain	12	5.69
8826	80	50	3	530	EN 10219	S275J0H		bl not oil	plain	8,10	5.69
101242	80	50	4	529	EN 10219	S235JRH		bl oiled	plain	6	7.39
103144	80	50	4	529	EN 10219	S235JRH		bl not oil	plain	12	7.39
8827	80	50	4	530	EN 10219	S275J0H		bl oiled	plain	6	7.39
8828	80	50	4	530	EN 10219	S275J0H		bl not oil	plain	12	7.39
105045	80	50	4	532	EN 10210	S355J2H		bl not oil	plain	12-12	7.53
101243	80	50	5	529	EN 10219	S235JRH		bl oiled	plain	6	8.91
8829	80	50	5	530	EN 10219	S275J0H		bl oiled	plain	6	8.91
8830	80	50	5	530	EN 10219	S275J0H		bl not oil	plain	12	8.91
101244	80	60	3	529	EN 10219	S235JRH		bl oiled	plain	6	6.13
8832	80	60	3	530	EN 10219	S275J0H		bl oiled	plain	6	6.13
8833	80	60	3	530	EN 10219	S275J0H		bl not oil	plain	12	6.13
101245	80	60	4	529	EN 10219	S235JRH		bl oiled	plain	6	7.97
8834	80	60	4	530	EN 10219	S275J0H		bl oiled	plain	6	7.97
8835	80	60	4	530	EN 10219	S275J0H		bl not oil	plain	12	7.97
103141	80	60	5	529	EN 10219	S235JRH		bl not oil	plain	12	9.70
8836	80	60	5	530	EN 10219	S275J0H		bl oiled	plain	6	9.70
8837	80	60	5	530	EN 10219	S275J0H		bl not oil	plain	12	9.70
78158	80	80	3	529	EN 10219	S235JRH		bl not oil	plain	10	7.07
78173	80	80	3	529	EN 10219	S235JRH		bl not oil	plain	12	7.07
86634	80	80	3	529	EN 10219	S235JRH		bl not oil	plain	6	7.07
8839	80	80	3	530	EN 10219	S275J0H		bl oiled	plain	6	7.07
8840	80	80	3	530	EN 10219	S275J0H		bl not oil	plain	12	7.07
8841	80	80	3	530	EN 10219	S275J0H		bl not oil	plain	10	7.07
48464	80	80	3.6	532	EN 10210	S355J2H		bl not oil	plain	13	8.53
78159	80	80	4	529	EN 10219	S235JRH		bl not oil	plain	10	9.22
78174	80	80	4	529	EN 10219	S235JRH		bl not oil	plain	12	9.22
101246	80	80	4	529	EN 10219	S235JRH		bl oiled	plain	6	9.22
8847	80	80	4	530	EN 10219	S275J0H		bl oiled	plain	6	9.22
8848	80	80	4	530	EN 10219	S275J0H		bl not oil	plain	12	9.22
8849	80	80	4	530	EN 10219	S275J0H		bl not oil	plain	10	9.22
18659	80	80	4	532	EN 10210	S355J2H		bl not oil	plain	13	9.41
77328	80	80	4	541	EN 10219	S355J2H		bl not oil	plain	12	9.22
78160	80	80	5	529	EN 10219	S235JRH		bl not oil	plain	10	11.30
78175	80	80	5	529	EN 10219	S235JRH		bl not oil	plain	12	11.30
101247	80	80	5	529	EN 10219	S235JRH		bl oiled	plain	6	11.30
8854	80	80	5	530	EN 10219	S275J0H		bl oiled	plain	6	11.30
8855	80	80	5	530	EN 10219	S275J0H		bl not oil	plain	12	11.30
8856	80	80	5	530	EN 10219	S275J0H		bl not oil	plain	10	11.30
8859	80	80	5	532	EN 10210	S355J2H		bl not oil	plain	13	11.60
77329	80	80	5	541	EN 10219	S355J2H		bl not oil	plain	12	11.30
8861	80	80	6	531	EN 10219	S275J0H		bl not oil	plain	6	13.20
8862	80	80	6	531	EN 10219	S275J0H		bl not oil	plain	12	13.20
103142	80	80	6	531	EN 10219	S235JRH		bl not oil	plain	6	13.20
103169	80	80	6	531	EN 10219	S235JRH		bl not oil	plain	12	13.20
8866	80	80	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	14.20
139138	80	80	8	531	EN 10219	S275J0H		bl not oil	plain	12	16.40
18661	80	80	8	532	EN 10210	S355J2H		bl not oil	plain	13	17.50
102648	80	80	8	541	EN 10219	S355J2H		bl not oil	plain	12	16.40

Art. nr.	D1 mm	D2 mm	s mm	VL Code	Norm	Steel grade	Execution	Surface	Ends	Length in m	Kg/m
18662	80	80	8.8	532	EN 10210	S355J2H		bl not oil	plain	13	19.00
8873	81	51	5	530	EN 10219	S275J0H	stanch	bl not oil	plain	7,5	9.07
8910	83	53	6	531	EN 10219	S275J0H	stanch	bl not oil	plain	7,5	10.95
9058	90	50	3	530	EN 10219	S275J0H		bl oiled	plain	6	6.13
9062	90	50	3.2	532	EN 10210	S355J2H		bl not oil	plain	13	6.63
9064	90	50	4	530	EN 10219	S275J0H		bl oiled	plain	6	7.97
9065	90	50	4	530	EN 10219	S275J0H		bl not oil	plain	12	7.97
9068	90	50	5	530	EN 10219	S275J0H		bl not oil	plain	12	9.70
9069	90	50	5	532	EN 10210	S355J2H		bl not oil	plain	13	9.99
18669	90	50	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	12.30
9072	90	50	7.1	532	EN 10210	S355J2H		bl not oil	plain	13	13.60
9074	90	70	4	530	EN 10219	S275J0H		bl not oil	plain	12	9.28
78161	90	90	3	529	EN 10219	S235JRH		bl not oil	plain	10	8.01
78176	90	90	3	529	EN 10219	S235JRH		bl not oil	plain	12	8.01
86635	90	90	3	529	EN 10219	S235JRH		bl not oil	plain	6	8.01
9076	90	90	3	530	EN 10219	S275J0H		bl not oil	plain	12	8.01
78162	90	90	4	529	EN 10219	S235JRH		bl not oil	plain	10	10.50
78191	90	90	4	529	EN 10219	S235JRH		bl not oil	plain	12	10.50
145201	90	90	4	529	EN 10219	S235JRH		bl not oil	plain	5,90	10.50
9083	90	90	4	530	EN 10219	S275J0H		bl not oil	plain	12	10.50
9084	90	90	4	530	EN 10219	S275J0H		bl not oil	plain	10	10.50
18677	90	90	4	532	EN 10210	S355J2H		bl not oil	plain	13	10.70
77330	90	90	4	541	EN 10219	S355J2H		bl not oil	plain	12	10.50
9087	90	90	5	530	EN 10219	S275J0H		bl not oil	plain	12	12.80
77341	90	90	5	541	EN 10219	S355J2H		bl not oil	plain	12	12.80
9091	90	90	6	531	EN 10219	S275J0H		bl not oil	plain	6	15.10
9092	90	90	6	531	EN 10219	S275J0H		bl not oil	plain	12	15.10
9093	90	90	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	16.20
18680	90	90	7.1	532	EN 10210	S355J2H		bl not oil	plain	13	18.10
9097	90	90	8	532	EN 10210	S355J2H		bl not oil	plain	13	20.10
18681	90	90	8.8	532	EN 10210	S355J2H		bl not oil	plain	13	21.80
9129	96	66	6	531	EN 10219	S275J0H	stanch	bl not oil	plain	7,5	13.40
713	100	30	4	530	EN 10219	S275J0H		bl not oil	plain	7,5	7.34
714	100	30	4	530	EN 10219	S275J0H		bl not oil	plain	8	7.34
716	100	40	2	540	EN 10305-5	E220+CR2/E235+CR S2-PICK		bright	plain	6	4.26
101248	100	40	3	529	EN 10219	S235JRH		bl oiled	plain	6	6.13
717	100	40	3	530	EN 10219	S275J0H		bl oiled	plain	6	6.13
718	100	40	3	530	EN 10219	S275J0H		bl not oil	plain	12	6.13
720	100	40	4	530	EN 10219	S275J0H		bl not oil	plain	12	7.97
721	100	40	5	530	EN 10219	S275J0H		bl oiled	plain	6	9.70
722	100	50	2	529	EN 10219	S235JRH		bl oiled	plain	6	4.55
31051	100	50	2	530	EN 10219	S275J0H		bl not oil	plain	8,20	4.55
723	100	50	2.5	530	EN 10219	S275J0H		bl not oil	plain	8,10	5.56
37773	100	50	2.5	530	EN 10219	S275J0H		bl not oil	plain	9,10	5.56
101249	100	50	3	529	EN 10219	S235JRH		bl oiled	plain	6	6.60
103170	100	50	3	529	EN 10219	S235JRH		bl not oil	plain	12	6.60
725	100	50	3	530	EN 10219	S275J0H		bl oiled	plain	6	6.60
726	100	50	3	530	EN 10219	S275J0H		bl not oil	plain	12	6.60
87477	100	50	3	530	EN 10219	S275J0H		bl not oil	plain	9,60	6.60
101250	100	50	4	529	EN 10219	S235JRH		bl oiled	plain	6	8.59
103171	100	50	4	529	EN 10219	S235JRH		bl not oil	plain	12	8.59
730	100	50	4	530	EN 10219	S275J0H		bl oiled	plain	6	8.59
731	100	50	4	530	EN 10219	S275J0H		bl not oil	plain	12	8.59
733	100	50	4	532	EN 10210	S355J2H		bl not oil	plain	13	8.78



Art. nr.	D1 mm	D2 mm	s mm	VL Code	Norm	Steel grade	Execution	Surface	Ends	Length in m	Kg/m
101251	100	50	5	529	EN 10219	S235JRH		bl oiled	plain	6	10.50
103143	100	50	5	529	EN 10219	S235JRH		bl not oil	plain	12	10.50
735	100	50	5	530	EN 10219	S275J0H		bl oiled	plain	6	10.50
736	100	50	5	530	EN 10219	S275J0H		bl not oil	plain	12	10.50
738	100	50	5	532	EN 10210	S355J2H		bl not oil	plain	13	10.80
18436	100	50	5.6	532	EN 10210	S355J2H		bl not oil	plain	13	11.90
742	100	50	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	13.30
745	100	50	7.1	532	EN 10210	S355J2H		bl not oil	plain	13	14.70
18437	100	50	8	532	EN 10210	S355J2H		bl not oil	plain	13	16.30
36762	100	60	2.5	530	EN 10219	S275J0H		bl not oil	plain	8,10	5.96
101252	100	60	3	529	EN 10219	S235JRH		bl oiled	plain	6	7.07
104767	100	60	3	529	EN 10219	S235JRH		bl not oil	plain	12	7.07
748	100	60	3	530	EN 10219	S275J0H		bl oiled	plain	6	7.07
749	100	60	3	530	EN 10219	S275J0H		bl not oil	plain	12	7.07
752	100	60	3.6	532	EN 10210	S355J2H		bl not oil	plain	13	8.53
103172	100	60	4	529	EN 10219	S235JRH		bl not oil	plain	6	9.22
104768	100	60	4	529	EN 10219	S235JRH		bl not oil	plain	12	9.22
753	100	60	4	530	EN 10219	S275J0H		bl oiled	plain	6	9.22
754	100	60	4	530	EN 10219	S275J0H		bl not oil	plain	12	9.22
103173	100	60	5	529	EN 10219	S235JRH		bl not oil	plain	6	11.30
757	100	60	5	530	EN 10219	S275J0H		bl oiled	plain	6	11.30
758	100	60	5	530	EN 10219	S275J0H		bl not oil	plain	12	11.30
760	100	60	5	532	EN 10210	S355J2H		bl not oil	plain	13	11.60
764	100	60	6	531	EN 10219	S275J0H		bl not oil	plain	12	13.20
765	100	60	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	14.20
767	100	60	7.1	532	EN 10210	S355J2H		bl not oil	plain	13	15.80
18446	100	60	8	532	EN 10210	S355J2H		bl not oil	plain	13	17.50
103174	100	80	3	529	EN 10219	S235JRH		bl not oil	plain	12	8.01
769	100	80	3	530	EN 10219	S275J0H		bl oiled	plain	6	8.01
770	100	80	3	530	EN 10219	S275J0H		bl not oil	plain	12	8.01
103175	100	80	4	529	EN 10219	S235JRH		bl not oil	plain	12	10.50
772	100	80	4	530	EN 10219	S275J0H		bl not oil	plain	12	10.50
103176	100	80	5	529	EN 10219	S235JRH		bl not oil	plain	12	12.80
774	100	80	5	530	EN 10219	S275J0H		bl not oil	plain	12	12.80
775	100	80	6	531	EN 10219	S275J0H		bl not oil	plain	12	15.10
103145	100	80	6	531	EN 10219	S235JRH		bl not oil	plain	12	15.10
78163	100	100	3	529	EN 10219	S235JRH		bl not oil	plain	10	8.96
78177	100	100	3	529	EN 10219	S235JRH		bl not oil	plain	12	8.96
678	100	100	3	530	EN 10219	S275J0H		bl oiled	plain	6	8.96
679	100	100	3	530	EN 10219	S275J0H		bl not oil	plain	12	8.96
680	100	100	3	530	EN 10219	S275J0H		bl not oil	plain	10	8.96
115078	100	100	3	541	EN 10219	S355J2H		bl not oil	plain	12	8.96
78164	100	100	4	529	EN 10219	S235JRH		bl not oil	plain	10	11.70
78178	100	100	4	529	EN 10219	S235JRH		bl not oil	plain	12	11.70
86637	100	100	4	529	EN 10219	S235JRH		bl not oil	plain	6	11.70
684	100	100	4	530	EN 10219	S275J0H		bl oiled	plain	6	11.70
685	100	100	4	530	EN 10219	S275J0H		bl not oil	plain	12	11.70
686	100	100	4	530	EN 10219	S275J0H		bl not oil	plain	10	11.70
689	100	100	4	532	EN 10210	S355J2H		bl not oil	plain	13	11.90
77342	100	100	4	541	EN 10219	S355J2H		bl not oil	plain	12	11.70
78165	100	100	5	529	EN 10219	S235JRH		bl not oil	plain	10	14.40
78179	100	100	5	529	EN 10219	S235JRH		bl not oil	plain	12	14.40
86638	100	100	5	529	EN 10219	S235JRH		bl not oil	plain	6	14.40
692	100	100	5	530	EN 10219	S275J0H		bl oiled	plain	6	14.40
693	100	100	5	530	EN 10219	S275J0H		bl not oil	plain	12	14.40

Art. nr.	D1 mm	D2 mm	s mm	VL Code	Norm	Steel grade	Execution	Surface	Ends	Length in m	Kg/m
694	100	100	5	530	EN 10219	S275J0H		bl not oil	plain	10	14.40
697	100	100	5	532	EN 10210	S355J2H		bl not oil	plain	12	14.70
77343	100	100	5	541	EN 10219	S355J2H		bl not oil	plain	12	14.40
698	100	100	6	531	EN 10219	S275J0H		bl not oil	plain	6	17.00
699	100	100	6	531	EN 10219	S275J0H		bl not oil	plain	12	17.00
700	100	100	6	531	EN 10219	S275J0H		bl not oil	plain	10	17.00
103177	100	100	6	531	EN 10219	S235JRH		bl not oil	plain	10	17.00
50253	100	100	6	541	EN 10219	S355J2H		bl not oil	plain	12	17.00
704	100	100	6.3	532	EN 10210	S355J2H		bl not oil	plain	12	18.20
139462	100	100	8	531	EN 10219	S275J0H		bl not oil	plain	12	21.40
710	100	100	8	532	EN 10210	S355J2H		bl not oil	plain	12	22.60
709	100	100	8	541	EN 10219	S355J2H		bl not oil	plain	12	21.40
110451	100	100	8	541	EN 10219	S355J2H		bl not oil	plain	15	21.40
675	100	100	10	532	EN 10210	S355J2H		bl not oil	plain	13	27.40
23295	100	100	10	541	EN 10219	S355J2H		bl not oil	plain	12	25.60
39034	100	100	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	33.00
18463	110	60	3.6	532	EN 10210	S355J2H		bl not oil	plain	13	9.09
18465	110	60	4.5	532	EN 10210	S355J2H		bl not oil	plain	13	11.20
909	110	70	4	530	EN 10219	S275J0H		bl not oil	plain	12	10.50
911	110	70	5	530	EN 10219	S275J0H		bl not oil	plain	12	12.80
897	110	110	4	531	EN 10219	S275J0H		bl not oil	plain	12	13.00
899	110	110	5	531	EN 10219	S275J0H		bl not oil	plain	12	16.30
18456	110	110	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	20.20
18448	110	110	10	532	EN 10210	S355J2H		bl not oil	plain	13	30.60
2196	120	40	3	530	EN 10219	S275J0H		bl oiled	plain	6	7.07
103829	120	50	3	530	EN 10219	S275J0H		bl not oil	plain	9,10	7.54
103882	120	50	3	530	EN 10219	S275J0H		bl not oil	plain	10,30	7.54
65984	120	50	4	530	EN 10219	S275J0H		bl not oil	plain	10,10	9.85
103883	120	50	4	530	EN 10219	S275J0H		bl not oil	plain	12	9.85
103884	120	50	5	530	EN 10219	S275J0H		bl not oil	plain	12	12.10
120649	120	50	5	530	EN 10219	S275J0H		bl not oil	plain	11,10	12.10
101253	120	60	3	529	EN 10219	S235JRH		bl oiled	plain	6	8.01
103178	120	60	3	529	EN 10219	S235JRH		bl not oil	plain	12	8.01
2201	120	60	3	530	EN 10219	S275J0H		bl oiled	plain	6	8.01
2202	120	60	3	530	EN 10219	S275J0H		bl not oil	plain	12	8.01
87479	120	60	3	530	EN 10219	S275J0H		bl not oil	plain	10,10	8.01
103179	120	60	4	529	EN 10219	S235JRH		bl not oil	plain	6	10.50
2208	120	60	4	530	EN 10219	S275J0H		bl oiled	plain	6	10.50
2209	120	60	4	530	EN 10219	S275J0H		bl not oil	plain	12	10.50
87480	120	60	4	530	EN 10219	S275J0H		bl not oil	plain	10,10	10.50
114261	120	60	4	530	EN 10219	S275J0H		bl not oil	plain	11,10	10.50
2210	120	60	4	532	EN 10210	S355J2H		bl not oil	plain	13	10.70
103146	120	60	5	529	EN 10219	S235JRH		bl not oil	plain	12	12.80
2213	120	60	5	530	EN 10219	S275J0H		bl not oil	plain	12	12.80
2215	120	60	5	532	EN 10210	S355J2H		bl not oil	plain	13	13.10
2217	120	60	6	531	EN 10219	S275J0H		bl not oil	plain	12	15.10
2220	120	60	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	16.20
18486	120	60	8	532	EN 10210	S355J2H		bl not oil	plain	13	20.10
2200	120	60	10	532	EN 10210	S355J2H		bl not oil	plain	13	24.30
2229	120	80	3	530	EN 10219	S275J0H		bl not oil	plain	12	8.96
101254	120	80	4	529	EN 10219	S235JRH		bl oiled	plain	6	11.70
103147	120	80	4	529	EN 10219	S235JRH		bl not oil	plain	12	11.70
2232	120	80	4	530	EN 10219	S275J0H		bl oiled	plain	6	11.70
2233	120	80	4	530	EN 10219	S275J0H		bl not oil	plain	12	11.70
2236	120	80	5	530	EN 10219	S275J0H		bl not oil	plain	12	14.40



Buisprofielen

Art. nr.	D1 mm	D2 mm	s mm	VL Code	Norm	Steel grade	Execution	Surface	Ends	Length in m	Kg/m
2238	120	80	5	532	EN 10210	S355J2H		bl not oil	plain	13	14.70
2240	120	80	6	531	EN 10219	S275J0H		bl not oil	plain	12	17.00
103148	120	80	6	531	EN 10219	S235JRH		bl not oil	plain	12	17.00
2243	120	80	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	18.20
142564	120	80	8	531	EN 10219	S275J0H		bl not oil	plain	12	21.40
2247	120	80	8	532	EN 10210	S355J2H		bl not oil	plain	13,25	22.60
2246	120	80	8	541	EN 10219	S355J2H		bl not oil	plain	12	21.40
2227	120	80	10	532	EN 10210	S355J2H		bl not oil	plain	13	27.40
54646	120	100	4	531	EN 10219	S275J0H		bl not oil	plain	12	13.00
54647	120	100	5	531	EN 10219	S275J0H		bl not oil	plain	12	16.00
103149	120	100	5	531	EN 10219	S235JRH		bl not oil	plain	12	16.00
141625	120	100	8	541	EN 10219	S355J2H		bl not oil	plain	13,50	23.90
2170	120	120	3	531	EN 10219	S275J0H		bl not oil	plain	12	10.80
2171	120	120	3	531	EN 10219	S275J0H		bl not oil	plain	10	10.80
103150	120	120	3	531	EN 10219	S235JRH		bl not oil	plain	12	10.80
2174	120	120	4	531	EN 10219	S275J0H		bl not oil	plain	12	14.20
2176	120	120	4	531	EN 10219	S275J0H		bl not oil	plain	10	14.20
81825	120	120	4	531	EN 10219	S235JRH		bl not oil	plain	10	14.20
81826	120	120	4	531	EN 10219	S235JRH		bl not oil	plain	12	14.20
2180	120	120	5	531	EN 10219	S275J0H		bl not oil	plain	12	17.50
2181	120	120	5	531	EN 10219	S275J0H		bl not oil	plain	10	17.50
81827	120	120	5	531	EN 10219	S235JRH		bl not oil	plain	10	17.50
81828	120	120	5	531	EN 10219	S235JRH		bl not oil	plain	12	17.50
2182	120	120	5	532	EN 10210	S355J2H		bl not oil	plain	12	17.80
2185	120	120	6	531	EN 10219	S275J0H		bl not oil	plain	12	20.70
2187	120	120	6	531	EN 10219	S275J0H		bl not oil	plain	10	20.70
103151	120	120	6	531	EN 10219	S235JRH		bl not oil	plain	12	20.70
25030	120	120	6	541	EN 10219	S355J2H		bl not oil	plain	12	20.70
2190	120	120	6.3	532	EN 10210	S355J2H		bl not oil	plain	12	22.20
18478	120	120	7.1	532	EN 10210	S355J2H		bl not oil	plain	13	24.70
142568	120	120	8	531	EN 10219	S275J0H		bl not oil	plain	12	26.40
2195	120	120	8	532	EN 10210	S355J2H		bl not oil	plain	12	27.60
2194	120	120	8	541	EN 10219	S355J2H		bl not oil	plain	12	26.40
2167	120	120	10	532	EN 10210	S355J2H		bl not oil	plain	13	33.70
23301	120	120	10	541	EN 10219	S355J2H		bl not oil	plain	12	31.80
39642	120	120	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	40.90
2282	125	125	5	531	EN 10219	S275J0H		bl not oil	plain	12	18.30
103926	140	50	6	531	EN 10219	S275J0H		bl not oil	plain	12,20	16.00
112180	140	60	3	530	EN 10219	S275J0H		bl not oil	plain	12	8.96
103722	140	60	4	530	EN 10219	S275J0H		bl not oil	plain	12	11.70
112182	140	60	5	530	EN 10219	S275J0H		bl not oil	plain	12	14.40
122346	140	60	5	530	EN 10219	S275J0H		bl not oil	plain	10,60	14.40
115664	140	60	6	531	EN 10219	S275J0H		bl not oil	plain	12	17.00
2662	140	70	3	531	EN 10219	S275J0H		bl not oil	plain	12	9.43
2664	140	70	4	531	EN 10219	S275J0H		bl not oil	plain	12	12.40
2666	140	70	5	531	EN 10219	S275J0H		bl not oil	plain	12	15.20
39643	140	70	5	532	EN 10210	S355J2H		bl not oil	plain	13	15.50
2667	140	70	6	531	EN 10219	S275J0H		bl not oil	plain	12	17.92
18511	140	70	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	19.20
2671	140	70	7.1	532	EN 10210	S355J2H		bl not oil	plain	13	21.40
2673	140	70	8	532	EN 10210	S355J2H		bl not oil	plain	13	23.80
2661	140	70	10	532	EN 10210	S355J2H		bl not oil	plain	13	29.00
2678	140	80	4	531	EN 10219	S275J0H		bl not oil	plain	12	13.00
87481	140	80	4	531	EN 10219	S275J0H		bl not oil	plain	10,10	13.00
2681	140	80	5	531	EN 10219	S275J0H		bl not oil	plain	12	16.00

Art. nr.	D1 mm	D2 mm	s mm	VL Code	Norm	Steel grade	Execution	Surface	Ends	Length in m	Kg/m
39591	140	80	5	532	EN 10210	S355J2H		bl not oil	plain	13	16.30
2682	140	80	6	531	EN 10219	S275J0H		bl not oil	plain	12	18.90
18520	140	80	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	20.20
142565	140	80	8	531	EN 10219	S275J0H		bl not oil	plain	12	23.90
18521	140	80	8	532	EN 10210	S355J2H		bl not oil	plain	13	25.10
105261	140	80	8	541	EN 10219	S355J2H		bl not oil	plain	12	23.90
2676	140	80	10	532	EN 10210	S355J2H		bl not oil	plain	13	30.60
2675	140	80	10	541	EN 10219	S355J2H		bl not oil	plain	12	28.70
104703	140	100	5	531	EN 10219	S275J0H		bl not oil	plain	12,40	17.50
2637	140	140	4	531	EN 10219	S275J0H		bl not oil	plain	12	16.80
2640	140	140	5	531	EN 10219	S275J0H		bl not oil	plain	12	20.70
39012	140	140	5	531	EN 10219	S275J0H		bl not oil	plain	15	20.70
2643	140	140	5	532	EN 10210	S355J2H		bl not oil	plain	13	21.00
2645	140	140	6	531	EN 10219	S275J0H		bl not oil	plain	12	24.50
39013	140	140	6	531	EN 10219	S275J0H		bl not oil	plain	15	24.50
50254	140	140	6	541	EN 10219	S355J2H		bl not oil	plain	12	24.50
2650	140	140	6.3	532	EN 10210	S355J2H		bl not oil	plain	12	26.10
18502	140	140	7.1	532	EN 10210	S355J2H		bl not oil	plain	13	29.20
39014	140	140	8	531	EN 10219	S275J0H		bl not oil	plain	15	31.40
142569	140	140	8	531	EN 10219	S275J0H		bl not oil	plain	12	31.40
2655	140	140	8	532	EN 10210	S355J2H		bl not oil	plain	12	32.60
2654	140	140	8	541	EN 10219	S355J2H		bl not oil	plain	12	31.40
2635	140	140	10	532	EN 10210	S355J2H		bl not oil	plain	13	40.00
2634	140	140	10	541	EN 10219	S355J2H		bl not oil	plain	12	38.10
18497	140	140	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	48.70
2777	150	50	3	530	EN 10219	S275J0H		bl not oil	plain	12	8.96
2778	150	50	4	530	EN 10219	S275J0H		bl not oil	plain	12	11.70
2779	150	50	5	530	EN 10219	S275J0H		bl not oil	plain	12	14.40
2780	150	75	4	531	EN 10219	S275J0H		bl not oil	plain	12	13.30
2781	150	75	5	531	EN 10219	S275J0H		bl not oil	plain	12	16.37
2782	150	75	6	531	EN 10219	S275J0H		bl not oil	plain	12	19.34
2737	150	100	4	531	EN 10219	S275J0H		bl not oil	plain	12	14.90
2741	150	100	5	531	EN 10219	S275J0H		bl not oil	plain	12	18.30
2742	150	100	5	532	EN 10210	S355J2H		bl not oil	plain	13	18.60
2743	150	100	6	531	EN 10219	S275J0H		bl not oil	plain	12	21.70
50255	150	100	6	541	EN 10219	S355J2H		bl not oil	plain	12	21.70
2745	150	100	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	23.10
139142	150	100	8	531	EN 10219	S275J0H		bl not oil	plain	12	27.70
2749	150	100	8	532	EN 10210	S355J2H		bl not oil	plain	13	28.90
2748	150	100	8	541	EN 10219	S355J2H		bl not oil	plain	12	27.70
2735	150	100	10	532	EN 10210	S355J2H		bl not oil	plain	13	35.30
43532	150	100	10	541	EN 10219	S355J2H		bl not oil	plain	12	33.40
2736	150	100	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	42.80
2761	150	150	4	531	EN 10219	S275J0H		bl not oil	plain	12	18.00
2762	150	150	5	531	EN 10219	S275J0H		bl not oil	plain	12	22.30
39015	150	150	5	531	EN 10219	S275J0H		bl not oil	plain	15	22.30
2763	150	150	5	541	EN 10219	S355J2H		bl not oil	plain	12	22.30
2765	150	150	6	531	EN 10219	S275J0H		bl not oil	plain	12	26.40
39016	150	150	6	531	EN 10219	S275J0H		bl not oil	plain	15	26.40
23330	150	150	6	541	EN 10219	S355J2H		bl not oil	plain	12	26.40
2768	150	150	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	28.10
39017	150	150	8	531	EN 10219	S275J0H		bl not oil	plain	15	33.90
142570	150	150	8	531	EN 10219	S275J0H		bl not oil	plain	12	33.90
2772	150	150	8	532	EN 10210	S355J2H		bl not oil	plain	13	35.10
2771	150	150	8	541	EN 10219	S355J2H		bl not oil	plain	12	33.90



Buisprofielen

Art. nr.	D1 mm	D2 mm	s mm	VL Code	Norm	Steel grade	Execution	Surface	Ends	Length in m	Kg/m
2758	150	150	10	532	EN 10210	S355J2H		bl not oil	plain	13	43.10
2757	150	150	10	541	EN 10219	S355J2H		bl not oil	plain	12	41.30
39050	150	150	10	541	EN 10219	S355J2H		bl not oil	plain	15	41.30
2760	150	150	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	52.70
116343	150	150	12.5	541	EN 10219	S355J2H		bl not oil	plain	12	48.70
109004	150	150	16	532	EN 10210	S355J2H		bl not oil	plain	12	65.20
3053	160	80	4	531	EN 10219	S275J0H		bl not oil	plain	12	14.20
3056	160	80	5	531	EN 10219	S275J0H		bl not oil	plain	12	17.50
18549	160	80	5	532	EN 10210	S355J2H		bl not oil	plain	13	17.80
3058	160	80	6	531	EN 10219	S275J0H		bl not oil	plain	12	20.70
50256	160	80	6	541	EN 10219	S355J2H		bl not oil	plain	12	20.70
3059	160	80	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	22.20
142566	160	80	8	531	EN 10219	S275J0H		bl not oil	plain	12	26.40
18552	160	80	8	532	EN 10210	S355J2H		bl not oil	plain	13	27.60
50257	160	80	8	541	EN 10219	S355J2H		bl not oil	plain	12	26.40
18543	160	80	10	532	EN 10210	S355J2H		bl not oil	plain	13	33.70
39035	160	80	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	40.90
39644	160	90	4.5	532	EN 10210	S355J2H		bl not oil	plain	13	16.90
3069	160	90	5	531	EN 10219	S275J0H		bl not oil	plain	12	18.30
3072	160	90	6	531	EN 10219	S275J0H		bl not oil	plain	12	21.69
3074	160	90	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	23.10
3080	160	90	8	532	EN 10210	S355J2H		bl not oil	plain	13	28.90
3064	160	90	10	532	EN 10210	S355J2H		bl not oil	plain	13	35.30
3040	160	160	5	531	EN 10219	S275J0H		bl not oil	plain	12	23.80
3042	160	160	6	531	EN 10219	S275J0H		bl not oil	plain	12	28.30
39018	160	160	6	531	EN 10219	S275J0H		bl not oil	plain	15	28.30
3045	160	160	6.3	532	EN 10210	S355J2H		bl not oil	plain	12	30.10
139139	160	160	8	531	EN 10219	S275J0H		bl not oil	plain	12	36.50
3048	160	160	8	532	EN 10210	S355J2H		bl not oil	plain	12	37.60
50259	160	160	8	541	EN 10219	S355J2H		bl not oil	plain	12	36.50
3038	160	160	10	532	EN 10210	S355J2H		bl not oil	plain	13	46.30
26499	160	160	10	541	EN 10219	S355J2H		bl not oil	plain	12	44.40
18537	160	160	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	56.60
3388	180	80	4.5	531	EN 10219	S275J0H		bl not oil	plain	12	17.17
109006	180	80	5	531	EN 10219	S275J0H		bl not oil	plain	12	19.12
18357	180	80	6	531	EN 10219	S275J0H		bl not oil	plain	12	22.60
25015	180	100	5	531	EN 10219	S275J0H		bl not oil	plain	12	20.70
3360	180	100	6	531	EN 10219	S275J0H		bl not oil	plain	12	24.50
18570	180	100	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	26.10
3365	180	100	7.1	532	EN 10210	S355J2H		bl not oil	plain	13	29.20
3366	180	100	8	532	EN 10210	S355J2H		bl not oil	plain	13	32.60
39592	180	100	8.8	532	EN 10210	S355J2H		bl not oil	plain	13	35.60
39038	180	100	10	532	EN 10210	S355J2H		bl not oil	plain	13	40.00
32011	180	100	10	541	EN 10219	S355J2H		bl not oil	plain	12	38.10
39593	180	100	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	48.70
3377	180	180	6	531	EN 10219	S275J0H		bl not oil	plain	12	32.10
3378	180	180	6	531	EN 10219	S275J0H		bl not oil	plain	15	32.10
3381	180	180	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	34.00
39019	180	180	8	531	EN 10219	S275J0H		bl not oil	plain	15	41.50
139140	180	180	8	531	EN 10219	S275J0H		bl not oil	plain	12	41.50
3384	180	180	8	532	EN 10210	S355J2H		bl not oil	plain	13	42.70
50263	180	180	8	541	EN 10219	S355J2H		bl not oil	plain	12	41.50
3373	180	180	10	532	EN 10210	S355J2H		bl not oil	plain	13	52.50
3372	180	180	10	541	EN 10219	S355J2H		bl not oil	plain	12	50.70
3376	180	180	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	64.40

Art. nr.	D1 mm	D2 mm	s mm	VL Code	Norm	Steel grade	Execution	Surface	Ends	Length in m	Kg/m
50264	180	180	12.5	541	EN 10219	S355J2H		bl not oil	plain	12	60.50
142963	200	80	6	531	EN 10219	S275J0H		bl not oil	plain	12	24.50
4050	200	100	4	531	EN 10219	S275J0H		bl not oil	plain	12	18.00
4051	200	100	5	531	EN 10219	S275J0H		bl not oil	plain	12	22.30
4054	200	100	6	531	EN 10219	S275J0H		bl not oil	plain	12	26.40
39026	200	100	6	531	EN 10219	S275J0H		bl not oil	plain	15	26.40
50265	200	100	6	541	EN 10219	S355J2H		bl not oil	plain	12	26.40
4056	200	100	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	28.10
139143	200	100	8	531	EN 10219	S275J0H		bl not oil	plain	12	33.90
4060	200	100	8	532	EN 10210	S355J2H		bl not oil	plain	13	35.10
4059	200	100	8	541	EN 10219	S355J2H		bl not oil	plain	12	33.90
4047	200	100	10	532	EN 10210	S355J2H		bl not oil	plain	13	43.10
4046	200	100	10	541	EN 10219	S355J2H		bl not oil	plain	12	41.30
137572	200	100	10	541	EN 10219	S355J2H		bl not oil	plain	7	41.30
4049	200	100	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	52.70
110223	200	100	16	532	EN 10210	S355J2H		bl not oil	plain	12	65.20
113739	200	100	20	532	EN 10210	S355J2H		bl not oil	plain	12	78.30
4065	200	120	5	531	EN 10219	S275J0H		bl not oil	plain	12	23.80
4066	200	120	6	531	EN 10219	S275J0H		bl not oil	plain	12	28.30
18589	200	120	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	30.10
142567	200	120	8	531	EN 10219	S275J0H		bl not oil	plain	12	36.50
18591	200	120	8	532	EN 10210	S355J2H		bl not oil	plain	13	37.60
84934	200	120	8	541	EN 10219	S355J2H		bl not oil	plain	12	36.50
55490	200	120	10	532	EN 10210	S355J2H		bl not oil	plain	13	46.30
50266	200	120	10	541	EN 10219	S355J2H		bl not oil	plain	12	44.40
18585	200	120	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	56.60
106714	200	150	6	531	EN 10219	S275J0H		bl not oil	plain	12	31.10
106715	200	150	8	541	EN 10219	S355J2H		bl not oil	plain	12	40.20
113740	200	150	20	532	EN 10210	S355J2H		bl not oil	plain	12	94.00
18372	200	200	5	531	EN 10219	S275J0H		bl not oil	plain	12	30.10
4083	200	200	6	531	EN 10219	S275J0H		bl not oil	plain	12	35.80
39020	200	200	6	531	EN 10219	S275J0H		bl not oil	plain	15	35.80
132156	200	200	6	541	EN 10219	S355J2H		bl not oil	plain	12	35.80
4087	200	200	6.3	532	EN 10210	S355J2H		bl not oil	plain	12	38.00
141365	200	200	8	531	EN 10219	S275J0H		bl not oil	plain	12	46.50
4092	200	200	8	532	EN 10210	S355J2H		bl not oil	plain	12	47.70
4091	200	200	8	541	EN 10219	S355J2H		bl not oil	plain	12	46.50
110930	200	200	8	541	EN 10219	S355J2H		bl not oil	plain	15	46.50
4078	200	200	10	532	EN 10210	S355J2H		bl not oil	plain	12	58.80
4077	200	200	10	541	EN 10219	S355J2H		bl not oil	plain	12	57.00
39051	200	200	10	541	EN 10219	S355J2H		bl not oil	plain	15	57.00
4081	200	200	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	72.30
50267	200	200	12.5	541	EN 10219	S355J2H		bl not oil	plain	12	68.30
18595	200	200	16	532	EN 10210	S355J2H		bl not oil	plain	13	90.30
113737	200	200	20	532	EN 10210	S355J2H		bl not oil	plain	12	110.00
4472	220	120	6	531	EN 10219	S275J0H		bl not oil	plain	12	30.20
18601	220	120	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	32.00
4475	220	120	8	532	EN 10210	S355J2H		bl not oil	plain	13	40.20
77579	220	120	8	541	EN 10219	S355J2H		bl not oil	plain	12	39.00
4470	220	120	10	532	EN 10210	S355J2H		bl not oil	plain	13	49.40
23303	220	120	10	541	EN 10219	S355J2H		bl not oil	plain	12	47.50
18598	220	120	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	60.50
86632	220	220	6	531	EN 10219	S275J0H		bl not oil	plain	12	39.60
41608	220	220	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	41.90
50269	220	220	8	541	EN 10219	S355J2H		bl not oil	plain	12	51.50



Buisprofielen

Art. nr.	D1 mm	D2 mm	s mm	VL Code	Norm	Steel grade	Execution	Surface	Ends	Length in m	Kg/m
23305	220	220	10	541	EN 10219	S355J2H		bl not oil	plain	12	63.20
39595	220	220	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	80.10
18608	220	220	16	532	EN 10210	S355J2H		bl not oil	plain	13	100.00
4854	250	100	5	531	EN 10219	S275J0H		bl not oil	plain	12	26.00
97757	250	100	6	541	EN 10219	S355J2H		bl not oil	plain	12	31.10
107672	250	100	8	541	EN 10219	S355J2H		bl not oil	plain	12	40.20
109653	250	100	10	541	EN 10219	S355J2H		bl not oil	plain	12	49.10
113751	250	100	20	532	EN 10210	S355J2H		bl not oil	plain	12	94.00
4861	250	150	6	531	EN 10219	S275J0H		bl not oil	plain	12	35.80
50270	250	150	6	541	EN 10219	S355J2H		bl not oil	plain	12	35.80
39596	250	150	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	38.00
139144	250	150	8	531	EN 10219	S275J0H		bl not oil	plain	12	46.50
4866	250	150	8	532	EN 10210	S355J2H		bl not oil	plain	13	47.70
4865	250	150	8	541	EN 10219	S355J2H		bl not oil	plain	12	46.50
4859	250	150	10	532	EN 10210	S355J2H		bl not oil	plain	13	58.80
4858	250	150	10	541	EN 10219	S355J2H		bl not oil	plain	12	57.00
4860	250	150	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	72.30
109651	250	150	12.5	541	EN 10219	S355J2H		bl not oil	plain	12	68.30
115566	250	150	16	532	EN 10210	S355J2H		bl not oil	plain	13	90.30
4877	250	250	6	531	EN 10219	S275J0H		bl not oil	plain	12	45.20
50271	250	250	6	541	EN 10219	S355J2H		bl not oil	plain	15	45.20
4880	250	250	6.3	532	EN 10210	S355J2H		bl not oil	plain	12	47.90
139141	250	250	8	531	EN 10219	S275J0H		bl not oil	plain	12	59.10
4884	250	250	8	532	EN 10210	S355J2H		bl not oil	plain	12	60.30
50272	250	250	8	541	EN 10219	S355J2H		bl not oil	plain	15	59.10
84935	250	250	8	541	EN 10219	S355J2H		bl not oil	plain	12	59.10
4873	250	250	10	532	EN 10210	S355J2H		bl not oil	plain	12	74.50
49840	250	250	10	541	EN 10219	S355J2H		bl not oil	plain	12	72.70
4874	250	250	12.5	532	EN 10210	S355J2H		bl not oil	plain	12	91.90
109652	250	250	12.5	541	EN 10219	S355J2H		bl not oil	plain	12	88.00
4876	250	250	16	532	EN 10210	S355J2H		bl not oil	plain	13	115.00
113738	250	250	20	532	EN 10210	S355J2H		bl not oil	plain	12	141.00
18626	260	140	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	38.00
110452	260	140	8	541	EN 10219	S355J2H		bl not oil	plain	12	46.50
42577	260	140	10	532	EN 10210	S355J2H		bl not oil	plain	13	58.80
39597	260	140	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	72.30
4932	260	180	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	41.90
4935	260	180	8	532	EN 10210	S355J2H		bl not oil	plain	13	52.70
4927	260	180	10	532	EN 10210	S355J2H		bl not oil	plain	13	65.10
4929	260	180	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	80.10
18637	260	260	7.1	532	EN 10210	S355J2H		bl not oil	plain	13	56.00
53895	260	260	11	532	EN 10210	S355J2H		bl not oil	plain	13	85.00
50273	300	100	6	541	EN 10219	S355J2H		bl not oil	plain	12	35.80
50274	300	100	8	541	EN 10219	S355J2H		bl not oil	plain	12	46.50
117821	300	100	10	532	EN 10210	S355J2H		bl not oil	plain	13	58.80
50275	300	100	10	541	EN 10219	S355J2H		bl not oil	plain	12	57.00
117117	300	100	10	541	EN 10219	S355J2H		bl not oil	plain	15	57.00
119513	300	100	12.5	532	EN 10210	S355J2H		bl not oil	plain	12	72.30
119514	300	100	16	532	EN 10210	S355J2H		bl not oil	plain	12	90.30
50276	300	200	6	541	EN 10219	S355J2H		bl not oil	plain	12	45.20
5620	300	200	6.3	532	EN 10210	S355J2H		bl not oil	plain	13	47.90
5623	300	200	8	532	EN 10210	S355J2H		bl not oil	plain	13	60.30
50277	300	200	8	541	EN 10219	S355J2H		bl not oil	plain	12	59.10
5613	300	200	10	532	EN 10210	S355J2H		bl not oil	plain	13	74.50
49304	300	200	10	541	EN 10219	S355J2H		bl not oil	plain	12	72.70



Art. nr.	D1 mm	D2 mm	s mm	VL Code	Norm	Steel grade	Execution	Surface	Ends	Length in m	Kg/m
5615	300	200	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	91.90
116796	300	200	12.5	541	EN 10219	S355J2H		bl not oil	plain	12	88.00
5617	300	200	16	532	EN 10210	S355J2H		bl not oil	plain	13	115.00
93156	300	300	6	541	EN 10219	S355J2H		bl not oil	plain	12	54.70
5627	300	300	8	532	EN 10210	S355J2H		bl not oil	plain	12	72.80
50278	300	300	8	541	EN 10219	S355J2H		bl not oil	plain	12	71.60
31079	300	300	10	532	EN 10210	S355J2H		bl not oil	plain	12	90.20
50279	300	300	10	541	EN 10219	S355J2H		bl not oil	plain	12	88.40
26490	300	300	12.5	532	EN 10210	S355J2H		bl not oil	plain	12	112.00
50280	300	300	12.5	541	EN 10219	S355J2H		bl not oil	plain	12	108.00
30770	300	300	16	532	EN 10210	S355J2H		bl not oil	plain	12	141.00
128955	300	300	16	541	EN 10219	S355J2H		bl not oil	plain	12	134.00
33807	350	350	8	532	EN 10210	S355J2H		bl not oil	plain	12	85.40
115197	350	350	8	541	EN 10219	S355J2H		bl not oil	plain	12	84.20
33808	350	350	10	532	EN 10210	S355J2H		bl not oil	plain	12	106.00
115198	350	350	10	541	EN 10219	S355J2H		bl not oil	plain	12	104.00
38623	350	350	12.5	532	EN 10210	S355J2H		bl not oil	plain	13	131.00
115199	350	350	12.5	541	EN 10219	S355J2H		bl not oil	plain	12	127.00
33809	350	350	16	532	EN 10210	S355J2H		bl not oil	plain	12	166.00
6876	400	200	8	532	EN 10210	S355J2H		bl not oil	plain	12	72.80
50281	400	200	8	541	EN 10219	S355J2H		bl not oil	plain	12	71.60
23571	400	200	10	532	EN 10210	S355J2H		bl not oil	plain	12	90.20
50282	400	200	10	541	EN 10219	S355J2H		bl not oil	plain	12	88.40
26494	400	200	12.5	532	EN 10210	S355J2H		bl not oil	plain	12	112.00
50283	400	200	12.5	541	EN 10219	S355J2H		bl not oil	plain	12	108.00
26495	400	200	16	532	EN 10210	S355J2H		bl not oil	plain	12	141.00
128956	400	200	16	541	EN 10219	S355J2H		bl not oil	plain	12	134.00
26496	400	400	10	532	EN 10210	S355J2H		bl not oil	plain	12	122.00
115200	400	400	10	541	EN 10219	S355J2H		bl not oil	plain	12	120.00
26497	400	400	12.5	532	EN 10210	S355J2H		bl not oil	plain	12	151.00
115201	400	400	12.5	541	EN 10219	S355J2H		bl not oil	plain	12	147.00
23290	400	400	16	532	EN 10210	S355J2H		bl not oil	plain	12	191.00
128957	400	400	16	541	EN 10219	S355J2H		bl not oil	plain	12	184.00
6880	400	400	20	532	EN 10210	S355J2H		bl not oil	plain	12	235.00
23572	450	250	10	532	EN 10210	S355J2H		bl not oil	plain	12	106.00
115202	450	250	10	541	EN 10219	S355J2H		bl not oil	plain	12	104.00
26532	450	250	12.5	532	EN 10210	S355J2H		bl not oil	plain	12	131.00
115203	450	250	12.5	541	EN 10219	S355J2H		bl not oil	plain	12	127.00
23573	450	250	16	532	EN 10210	S355J2H		bl not oil	plain	12	166.00
7457	500	300	10	532	EN 10210	S355J2H		bl not oil	plain	12	122.00
115204	500	300	10	541	EN 10219	S355J2H		bl not oil	plain	12	120.00
26498	500	300	12.5	532	EN 10210	S355J2H		bl not oil	plain	12	151.00
115205	500	300	12.5	541	EN 10219	S355J2H		bl not oil	plain	12	147.00
26531	500	300	16	532	EN 10210	S355J2H		bl not oil	plain	12	191.00
128958	500	300	16	541	EN 10219	S355J2H		bl not oil	plain	12	184.00
110224	500	300	20	532	EN 10210	S355J2H		bl not oil	plain	12	235.00



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