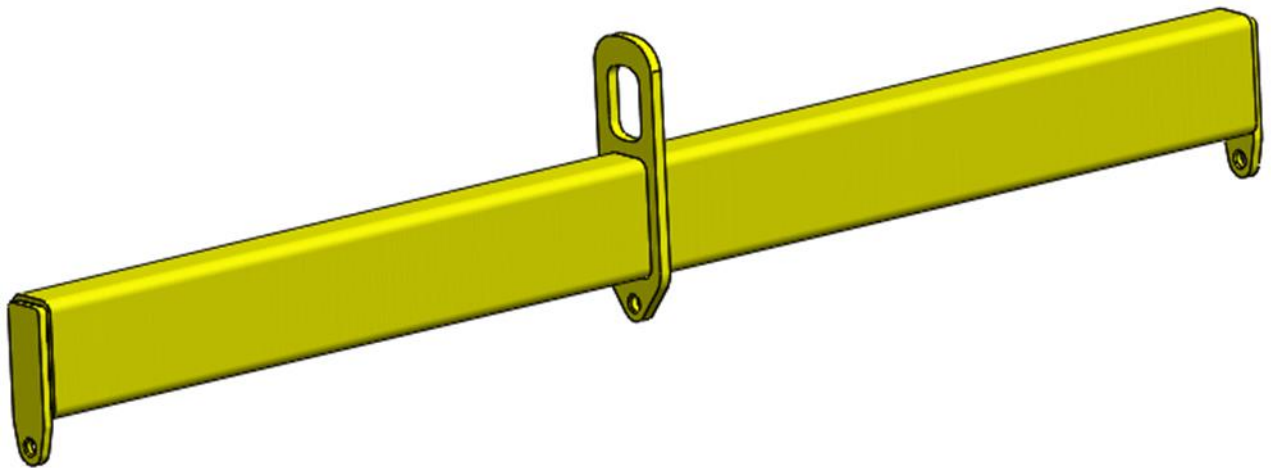
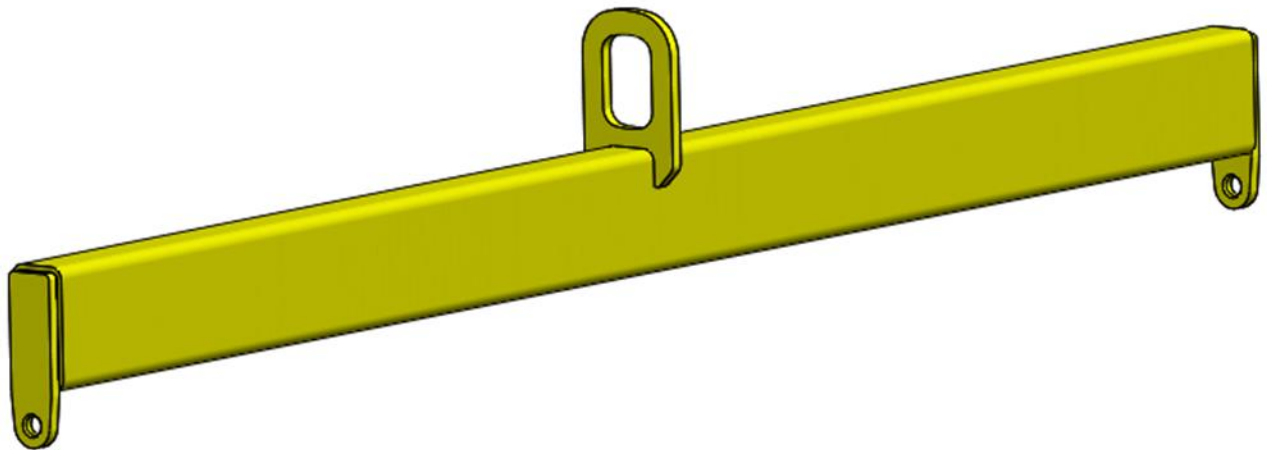




Operating and Maintenance Manual

for

Lifting Beam Type LF / LFC



Document:	Operating and Maintenance Manual	Release date:	2020-03-05
Project:	Lifting Beam Type LF / LFC	Author:	LSC
Doc. No:	13.3561-LF-DK-GM	Doc rev:	6



Dear Customer.

In order to avoid damage to property and/or injury to persons, the given user manual instructions must be observed and the lifting equipment must be properly and adequately maintained.

The instructions provided in this user manual must be read, understood and observed by all people supervising, operating or working with the lifting equipment, or if they will be in the anticipated danger zone of the lifting equipment and/or attached lifting accessories.

This user manual specifies a recommended minimum safety level and personnel protective clothing requirement to operate the lifting machinery and accessories described in this user manual. However, it must be noted that all additional safety recommendations specified by the operators company Health and Safety Manuals must be complied with, as well as all local rules and regulations.

It is important that all lifting accessory user instruction manuals are also read, understood and complied with.

This user manual must be retained with the lifting equipment at all times.

In the case of damage and/or functional disturbance due to incorrect handling, as a result of the fact that the user manual instructions were not complied with, the manufacturer cannot be held responsible or liable.

If difficulties or queries should arise when using the lifting equipment, please contact the manufacturer directly:

**CERTEX Danmark A/S
Trekanten 6-8
DK - 6500 Vojens
Denmark
Phone no.: (45) 74 54 14 37**



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8.1 TABLE 18



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1 Definitions

For the purpose of this instructional user manual, the following definitions apply.

Ref:	1	Directive 2006/42/EC
	2	EN 62079
-	danger zone ¹	Means any zone within and/or around machinery in which a person is subject to a risk to their health and safety.
-	guard ¹	Part of a product specially used to provide protection by means of a physical barrier.
-	harm ²	Physical injury or damage to the health of people or damage to property or the environment.
-	hazard ¹	Means a potential source of injury or damage to health
-	instruction (for use) ²	Information by the producer of a product for the safe and efficient use of the product.
-	instruction manual ²	Any applicable means for the transfer of information containing instructions.
-	intended use ¹	The use of machinery in accordance with the information provided in the user manual.
-	lifting accessories ¹	A linking device, part, chain, sling or other connection part which is attached to the lifting device for connection to the load. These must be independently marked and approved if not forming a part of the full assembly.
-	maintenance ²	Combination of all technical and administrative actions intended to retain an item or product in a usable and safe condition, in which it can perform the intended design function. This includes repairing, adjusting and cleaning.
-	manual ²	Document containing all relevant user information.
-	marking ¹	Legible sign or inscription for the identification of the type of a component or device, attached by the manufacturer of the component or device and the designation of certain features of the product for its safe use.
-	modification ²	Change carried out on a product in order to alter its intended use, and /or a revision of the instructions after a modification of a product,
-	risk ¹	Combination of the probability and the degree of an injury, or damage to health that can arise in a hazardous situation.
-	operator ¹	Person installing, operating, maintaining, cleaning, repairing or moving the machinery.

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- skilled person² Person with relevant education and experience to enable him or her to perceive risk and to avoid hazard which operation or maintenance of a product can create.
- specification² Document that states requirements, functionally related characteristics, processes, or a product shall possess
- supervisor¹ A supervisor is an appointed responsible person for the productivity, training and actions of a small group of employees.
- WLL Working Load Limit – This is the maximum loading limit specified by the manufacturer, and must never be exceeded (EN13155).



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2 Identification

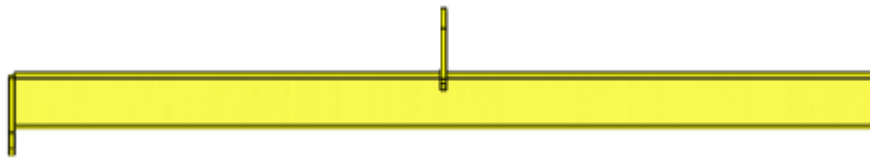
2.1 Product Label

2.1.1 LF

The type LF lifting beam, hereinafter referred to as the “Lifting Beam”, consists of a hollow girder, with 2 x welded end plates for suspension and 1 x lifting eye for fastening to an attachment.

The Lifting Beam is manufactured according to DS/EN13155 and Directive 2006/42/EC and has passed a load test with a static test coefficient of 1.5.

The Lifting Beam is lifted with a crane that is connected to the attachment points.

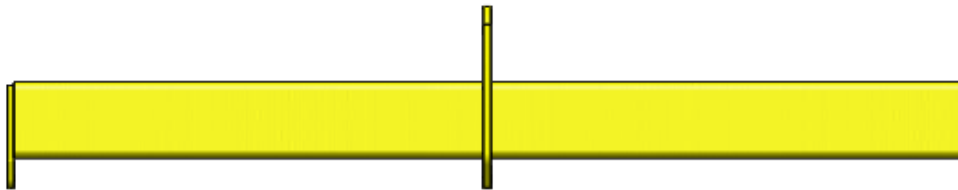


2.1.2 LFC

The type LFC lifting beam, hereinafter referred to as the “Lifting Beam”, consists of a hollow girder, with 2 x welded end plates for suspension, 1 x joint bar at the centre for suspension and 1 x lifting eye for fastening to an attachment.

The Lifting Beam is manufactured according to DS/EN13155 and Directive 2006/42/EC and has passed a load test with a static test coefficient of 1.5.

The Lifting Beam is lifted with a crane that is connected to the attachment points.



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2.2 Product Version / Version No.

2.2.1 Documentation

Revision	Revised by	Date	Comment
0	BHO	23/01/2017	New document
1	BHO	26/03/2018	Revised document
2	BHO	14/06/2018	Revised document
3	BHO	13/08/2018	Revised document
4	BHO	29/10/2018	Revised document
5	BHO	31/11/2018	Revised document
6	BHO	19/12/2018	Revised document

2.3 Limitations Which Must Be Observed

Never make any alterations to the Lifting Beam without the manufacturer's written consent. If this condition is not met, the warranty will be voided.

Never use the Lifting Beam outdoors if there is any risk of lightning.

Never use the Lifting Beam when there is wind with a strength of over 12 m/sec or if the operator cannot control the load because of the high force of the wind.

Never use the Lifting Beam to lift persons or other living things.

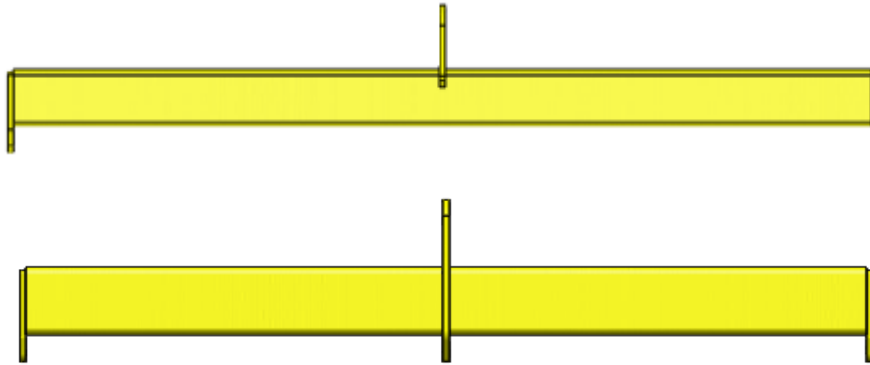
The Lifting Beam is designed for not more than 20,000 lifting cycles.

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3 Product Description

3.1 General Function and Area of Application, Intended Use

The suspension plates are fitted with holes that enable the fastening of various suspensions.



3.2 Dimensions and Weight

See Table 8.1 in Section 8.

3.3 Supply Data for Electric Power, Gas, Water and Other Consumables

N/A (Not Applicable)

3.4 Power Consumption

N/A

3.5 Emissions of Noise, Waste, etc., Terms

N/A

3.6 IP Code

N/A

3.7 Environmental Conditions and Service and Storage Limits

The Lifting Beam is designed for indoor and outdoor use.

Temp.: -10° to +40° C

When the Lifting Beam is not in use, store it indoors in a dry, well-ventilated place on a stand or shelf so that there is no risk of stumbling or falling and thereby of causing someone injuries.

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3.8 Safety Information

Always inspect the Lifting Beam visually before use and check if it has suffered any damage.

Check that the gear has been inspected and approved for the task.

Also check that the Lifting Beam and its accessories are free of any dirt that can weaken the grip of the hoisting accessory.



Do not use the Lifting Beam to lift more than the stated WLL.

The lifting device/crane must be approved to lift, as a minimum, the net weight of the Lifting Beam and the maximum. WLL.

The Lifting Beam may only be used for its intended purpose. If there are any questions about the use of this product, please contact the supervisor before putting the Lifting Beam into service.

Always lift just above the centre of gravity of the load so that the Lifting Beam and the load are always suspended horizontally and the load is distributed evenly/identically across the attachment point. Never use the Lifting Beam to overcome an incline from a horizontal position.

Always connect the Lifting Beam to the lifting device/crane at the attachment point intended for this.

Wherever there is a crush hazard between the load and workpieces, building components, machinery, etc., the operator may not stay in the range of movement of the load.

Never leave the Lifting Beam without supervision once a load is connected.

Do not place your hands or other body parts close to the load or at lifting points exposed to a crush hazard.

No one is ever permitted to stand, work or pass under a suspended load.

Make sure that the lifting movement is steady and do not pull or suddenly reverse with the lifting gear during an ongoing movement as this can cause a pendulum movement and generate a crush hazard.

Mount the load on a stable and secure foundation so that the load cannot fall or tip, thereby posing a risk of injury to the operator.

The operator's working area must be flush and free of any obstacles that can pose a risk of stumbling.

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The operator must always make sure that the assembly between the lifting machine/crane and the Lifting Beam is adequate and secure against accidental de-coupling.

The operator must always ensure that the assembly between the Lifting Beam and the lifting accessories is adequate and secure against accidental de-coupling.

The operator must always ensure that the assembly between the lifting accessories and the load is adequate and secure against accidental de-coupling.

Never use a Lifting Beam or lifting accessories that are suffering from visible faults and deficiencies such as wear and tear, deformations, rust damage and similar.

4 Preparation of the Product Before Use

4.1 Transportation and Storage

Transport the Lifting Beam lying on a wood pallet. Fasten the Lifting Beam to the pallet with straps during transportation.

If any chains/slings/etc. have been mounted to suspension points, pack these securely in during transportation.

Store the Lifting Beam indoors, in a dry and well-ventilated place when it is not in use. Store the Lifting Beam in such a way as not to pose any risk to personnel or any objects around the gear.

See section 3.2 for weight and dimensions.

4.2 Unpacking

Remove the pallet and the packaging that protects the Lifting Beam. Cut the safety straps. The person in charge of unpacking must wear gloves, safety shoes and safety goggles when the straps are cut.

4.3 Safe Disposal of Wrapping Material

All packaging used by Certex Denmark is reusable. Pallets and other wood packaging can be reused or recycled.

All plastic, cardboard and paperboard is sent to the local recycling centre.

Where there is no local recycling facilities, the packaging should be returned to Certex Denmark for disposal at the customer's expense.

4.4 Preparatory Work Before Installation

Inspect the Lifting Beam for damage, if any, after unpacking.

4.5 Installation and Assembly

The Lifting Beam is delivered ready for use.

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4.6 Storage and Protection during Intervals between Periods with Normal Use

The Operator must inspect the Lifting Beam before any use or lifting.

Never use a Lifting Beam or lifting accessories that are suffering from visible faults and deficiencies such as wear and tear, deformations, rust damage and similar.

Always store the Lifting Beam indoors, in a dry and well-ventilated place.

4.7 Orientation of Users, Operators, Service Experts

All operators or persons who stay in the danger zone must receive information about the operation of the Lifting Beam, training from the supervisor and be acquainted with the product and its use before the lifting starts.

4.8 Placement of Manuals

All Operating Manuals must be kept together with the Lifting Beam at all times.

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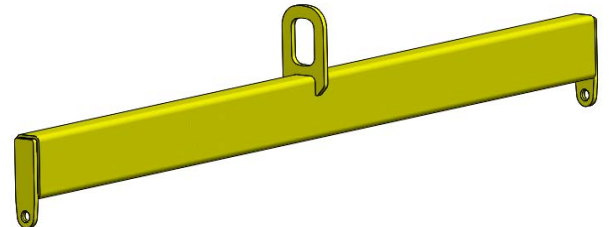
5 Instructions for Use

5.1 Safe Method of Operation / Range of Functions

5.1.1 LF

The Beam is designed to offset horizontal distances between the attachment point (the lifting device) and the suspension points of the load and is used as a secure connection between the load and the lifting device.

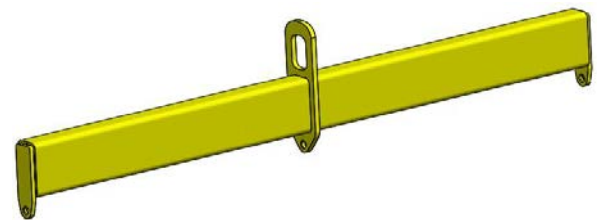
The Beam is designed for lifting loads with a maximum load (WLL), cf. the labelling on the Beam.



5.1.2 LFC

The Beam is designed to offset horizontal distances between the attachment point (the lifting device) and the suspension points of the load and is used as a secure connection between the load and the lifting device.

The Beam is designed for lifting loads with a maximum load (WLL), cf. the labelling on the Beam.



The suspension point in the middle may not lift more than half the WLL.

As regards suspensions and attachments (chains, wire rope, round slings, webbing slings, master links, shackles, etc.) that are mounted to the Beam, refer to their respective instructions for use.

5.2 Secondary Functions

The Lifting Beam has no secondary functions.

5.3 Exceptional Functions/Situations

In case of a power outage to the crane, the Lifting Beam is capable of bearing the load mechanically. Close off the danger zone until power is restored.

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5.4 Signals to Observe

No one is ever permitted to stand, work or pass under a suspended load.

When the Lifting Beam is lowered, the operator must make sure that the load cannot swing over to persons or objects in the danger zone.

Danger Area for Crushing

- Never place your hands or other body parts onto the Lifting Beam, lifting accessories or the load.
- Rigging points.
- Wherever there is a crush hazard between the load and workpieces, building components, machinery, etc., the operator may not stay in the range of movement of the load.

The operator's working area must be flush and free of any obstacles that can pose a risk of stumbling.

5.5 Personal Protection



Always wear, as a minimum, gloves, a hard hat and safety shoes when using the equipment. Keep your hands and other parts of your body away from the Lifting Beam, lifting accessories and the load during use.

5.6 Optional Modules, Accessories

Only use approved lifting accessories.

5.7 Quick Reference Guides

Such a guide is not available – see the Operating Manual.

5.8 Disposal of Waste Materials

The Lifting Beam produces no waste, with the exception of the replacement of damaged parts or in connection with maintenance.

All parts must be handed over to a recycling station or be returned to Certex Denmark for disposal.

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6 Maintenance and Cleaning

Place the Lifting Beam onto a secure foundation before engaging in any form of service and inspection.

6.1 Maintenance and Cleaning by the Users

Daily:

Check and maintain the Lifting Beam and the lifting accessories so that they are always secure during use.

Clean and inspect the equipment for any defects and shortcomings. Where the lifting gear is discovered to suffer from faults, pass this information on to the supervising and maintenance personnel so that the respective parts can be replaced or repaired.

If any form of corrosion, deformation or similar is discovered, the equipment must be put out of operation at once and be clearly labelled as "Defective". Contact the supervisor and the maintenance personnel.

Weekly:

Check and maintain extra carefully the Lifting Beam and the lifting accessories so that they are always secure during use.

6.2 Maintenance Table



- Only use original spare parts and only have the parts replaced by a trained person.
- The annual inspection must be conducted by a trained person who has received the required training certification in lifting equipment.
- All service visits must be recorded and all data must be saved,
- If there are any visual defects or any labelling is missing from the Lifting Beam, mark the lifting gear as "out of the order".

B	Before use
A	After use
M	Monthly or after max. 200 hours of use
Y	Annually or after max. 2400 hours of use

Inspection	B	A	M	Y
Visual inspection for deformations, damage, wear and corrosion	x	x	x	x
Check the labelling on the gear			x	x
Check the welds to establish if there are any cracks or damage				x
Inspection carried out by an expert followed by a report				x

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6.3 Troubleshooting, Fault Detection and Repairs

Chains, hook, etc. cannot be mounted to the attachment or suspension point:

Is the gear damaged?

Is the crane hook damaged?

Is there any rust, dirt or something else present?

Is the correct size of crane hook used?

Contact the supervisor.

6.4 Safety Instructions

Only qualified or approved experts may engage in maintenance and inspection of the lifting gear.



Always wear, as a minimum, gloves, a hard hat and safety shoes when inspecting the equipment.

The Lifting Beam must be placed on a secure foundation before the inspection or check is carried out.

All persons engaged in maintenance as well as anyone else in the danger zone must wear safety goggles if any electric or pneumatic tools are used for maintenance of the Lifting Beam in connection with the work.

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7 Service Repairs Undertaken by Fitters

7.1 Service Inspections for Safe Operation

Inspect the Lifting Beam at least once a month.

Inspect the Lifting Beam extra carefully once a year.

Service inspections may only be carried out by competent and qualified personnel or technicians who are specialised in lifting equipment and who have received the necessary training.

Only use original spare parts.

7.2 Addresses of Customer Service

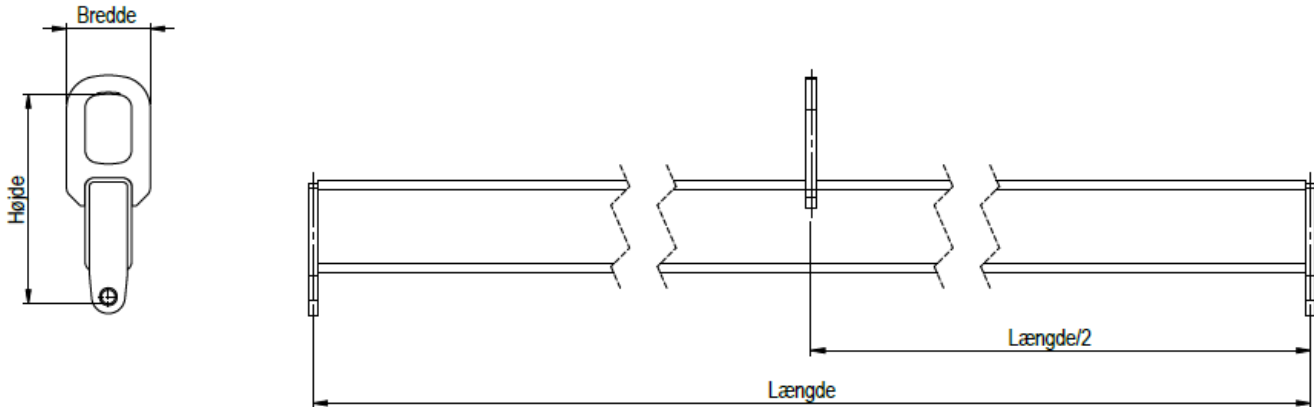
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Email: info@certex.dk

You can also use other approved service fitters. Service and maintenance must be provided as specified by the producer or in accordance with updated instructions.

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8 Drawing and Table

8.1 Table



Item number	Type	WLL Kg	Length mm	Width mm	Height mm	Weight Kg
13.3561-0050650	LF 0.5/0.65	500	650	90	227	10
13.3561-0050800	LF 0.5/0.8	500	800	90	227	10
13.3561-0051000	LF 0.5/1	500	1000	90	227	12
13.3561-0051500	LF 0.5/1.5	500	1500	90	227	16
13.3561-0052000	LF 0.5/2	500	2000	90	227	23
13.3561-0052500	LF 0.5/2.5	500	2500	90	227	29
13.3561-0053000	LF 0.5/3	500	3000	90	227	34
13.3561-0053500	LF 0.5/3.5	500	3500	90	227	39
13.3561-0054000	LF 0.5/4	500	4000	107	249	54
13.3561-0055000	LF 0.5/5	500	5000	107	249	67
13.3561-0056000	LF 0.5/6	500	6000	107	249	97
13.3561-0101500	LF 1/1.5	1000	1500	90	227	18
13.3561-0102000	LF 1/2	1000	2000	90	227	24
13.3561-0102500	LF 1/2.5	1000	2500	107	249	35
13.3561-0103000	LF 1/3	1000	3000	107	249	42
13.3561-0103500	LF 1/3.5	1000	3500	107	249	48
13.3561-0104000	LF 1/4	1000	4000	124	249	91
13.3561-0105000	LF 1/5	1000	5000	124	249	112
13.3561-0106000	LF 1/6	1000	6000	141	289	141
13.3561-0201500	LF 2/1.5	2000	1500	107	249	27
13.3561-0202000	LF 2/2	2000	2000	124	249	47
13.3561-0202500	LF 2/2.5	2000	2500	124	249	58
13.3561-0203000	LF 2/3	2000	3000	141	289	72
13.3561-0203500	LF 2/3.5	2000	3500	100	289	83
		WLL	Length	Width	Height	Weight

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Item number	Type	Kg	mm	mm	mm	Kg
13.3561-0204000	LF 2/4	2000	4000	100	353	95
13.3561-0205000	LF 2/5	2000	5000	100	358	144
13.3561-0206000	LF2/6	2000	6000	100	358	212
13.3561-0250501	LFC 2.5/0.5	2500	500	90	288	11
13.3561-0302000	LF 3/2	3000	2000	100	289	50
13.3561-0303000	LF 3/3	3000	3000	100	358	89
13.3561-0304000	LF 3/4	3000	4000	100	358	143
13.3561-0305000	LF 3/5	3000	5000	120	371	204
13.3561-0306000	LF 3/6	3000	6000	120	371	297
13.3561-0502000	LF 5/2	5000	2000	100	365	64
13.3561-0503000	LF 5/3	5000	3000	120	381	125
13.3561-0504000	LF 5/4	5000	4000	120	381	200
13.3561-0505000	LF 5/5	5000	5000	200	467	252
13.3561-0506000	LF 5/6	5000	6000	200	467	300
13.3561-0802000	LF 8/2	8000	2000	120	408	90
13.3561-0803000	LF 8/3	8000	3000	200	497	156
13.3561-0804000	LF 8/4	8000	4000	200	497	212
13.3561-0805000	LF 8/5	8000	5000	200	497	319
13.3561-0806000	LF 8/6	8000	6000	200	497	460
13.3561-1002000	LF 10/2	10000	2000	120	410	108
13.3561-1003000	LF 10/3	10000	3000	200	505	171
13.3561-1004000	LF 10/4	10000	4000	200	505	266
13.3561-1005000	LF 10/5	10000	5000	200	605	393
13.3561-1006000	LF 10/6	10000	6000	200	607	565
13.3561-1604000	LF 16/4	16000	4000	200	621	404
13.3561-1605000	LF 16/5	16000	5000	200	621	595
13.3561-1606000	LF 16/6	16000	6000	250	674	690

