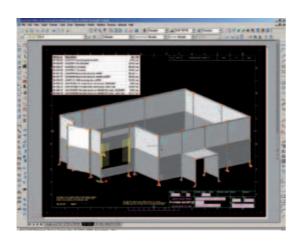
Fencing system

Quick-Guard® and Safety Roller Door









Contents	Page
Guick-Guard® fencing system	13:2
Quick-Guard® is supplied in three posibilities	13:5
Quick-Guard® E	13:6
Quick-Guard® E - can be ordered in sections	13:7
Quick-Guard® standard and SafeCAD®	13:10
Assembly using NL2 and NL3 Net-locks on welded mesh	13:12
Dimensions for aluminium profile lengths and panels	13:13
Components	
Aluminium profiles	13:14
Fittings	13:18
Door Components	13:21
Fittings for Switches	13:31
Terminal Caps and Strips	13:34
• Accessories	13:35
• Surfaces	13:36
Safety Roller Door	13:38

Descriptions and examples in this book show how the products work and can be used. This does not mean that they can meet the requirements for all types of machines and processes. The purchaser/user is responsible for ensuring that the product is installed and used in accordance with the applicable regulations and standards. We reserve the right to make changes in products and product sheets without previous notice. For the latest updates, refer to www.abb.com/lowvoltage. 2011.

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Quick-Guard® - fencing system



Quick-Guard Standard assembled with



Quick-Guard Standard with black and transparent Polycarbonate in-fill panels as used for medical applications.



Quick-Guard E with few components and easy to angle at up to 45°.

Adaption and Modification

Quick-Guard is a very flexible fencing system consisting of a minimum of different components, e.g. aluminium profiles, patented brackets, net-locks, mesh, solid or noise reduction panels. Using these components there are almost no limitations as to what can be built. Quick-Guard fencing costs little to assemble and modify.

Assembly

Due to our patented screw-lock system, we can supply all brackets pre-mounted with fixing screws and nuts. No holes need to be drilled in the profiles and all cutting is straight. This makes assembly and modification very easy.

Two versions of Quick-Guard

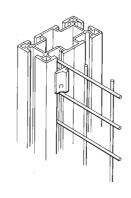
The Quick-Guard fencing system is available in two versions, Quick-Guard (Standard) and Quick-Guard E which also can be combined. The fencing systems are also easy to adjust when production equipment is modified and/or moved.

Proposal and ordering

By utilising our AutoCAD-based SafeCAD program we are able to make system designs in 3-D very quickly. Drawings, cutting lists, etc. are generated from SafeCAD and the drawings can also be used for installation purposes.

Our policy - To create systems that are environmentally friendly and provide ergonomic working conditions

Quick-Guard is environmentally friendly. All components in the Fencing System can easily be disassembled and reused. All materials in the Fencing System are 100% recyclable. Quick-Guard can also provide a pleasing ergonomic working environment.





13:2 ABB

A flexible and stable fencing system which is easy to install

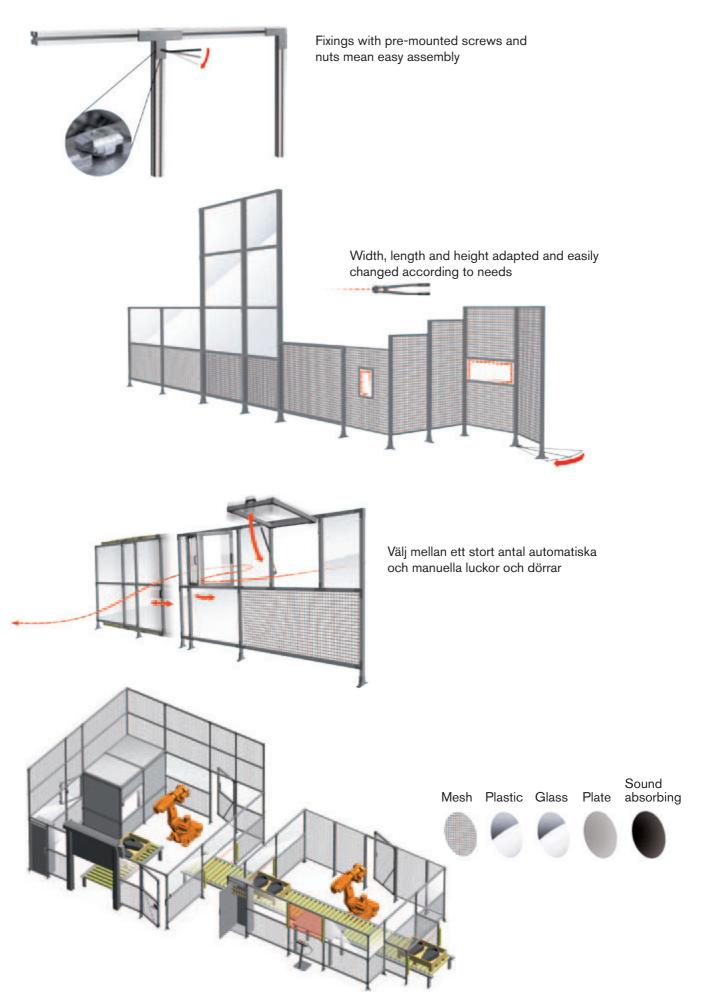
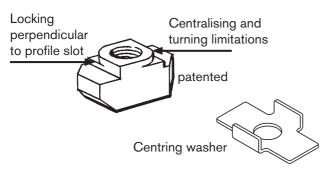


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Patented assembly function

The ABB Jokab Safety patented guide and locking method makes it simple to assemble and dismantle the fencing system. The nut has several advantages, it can easily be located into the profile and automatically positions itself when the screw is turned 90 degrees clockwise. When in this position the bracket being fixed can be adjusted as required and locked by turning the screw further clockwise. To remove the bracket the fixing screw is turned anti-clockwise until the nut is in line with the profile slot.



Mount the fixtures by first slackening the screw 3/4 turn anti-clockwise. Then tighten the screw clockwise in the usual way. The nut will then automatically mechanically lock the fixture into the profile.

All fittings are supplied Pre-assembled. Fittings that do not have a cast-in tab can be provided with a centring washer.



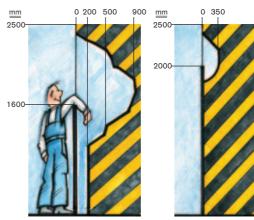
The T-slot and patented nut makes it easy to attach fittings to the fencing profiles

What does the standard say?

EN ISO 13857 applies as safety distance for the risk zones. The standard includes the dimensions that apply for safety distances in various risk situations. The adjacent figure shows examples of dimensions for safety distances for two different fence heights where the risk of injury is relatively small when you reach in.

With respect to mesh, you specify a minimum distance of 200 mm (for people 14 and above) for mask size 40 x 40 mm. For shorter distances and for noise reduction we use fully fitting panels. When the fence is to protect a robot cell, for example, the fence protection should be placed at a minimum distance of 500 mm between the fence protection and the moving machine part that reaches furthest out (as per EN 349). When test running or programming there must be a space between the fencing and any moving parts to ensure the operator does not become wedged between them.

For protection that needs to be mounted and removed again, for example for maintenance, the Machinery Directive requires that fasteners remain in place on the protection. We normally deal with this using interlocked doors/gates for faster and safer access.



Safety distance for 1600 mm guarding with standard mesh. Safety distance for 2000 mm guarding with solid screens (e.g. polycarbonate sheet).

Safety distance for 1600 mm guarding with standard mesh. Safety distance for 2000 mm guarding with solid screens (e.g. polycarbonate sheet).

13:4 ABB

Quick-Guard® is supplied in three ways

1. To be designed on site

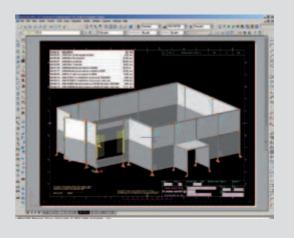
You only order sections consisting of a few components. Then the fencing system is built on site. A manual mesh clipping tool, for easy cutting of the mesh, is provided with the delivery if needed. The profiles are easily cut with a crosscut saw. The advantage of using aluminium is that it is not flammable when cut. Compared to iron which require a fire-watcher in many industries.





2. Cut to size according to drawing

You give us a simple sketch or a AutoCAD® file of how you want the fencing system to look. We input this information into SafeCAD and design the fence in 3D. From this drawing, cutting and component lists and a quotation are generated automatically.



3. Pre-mounted or assembled on site

We can deliver full/partially preassembled fencing systems or we can assemble them on site.





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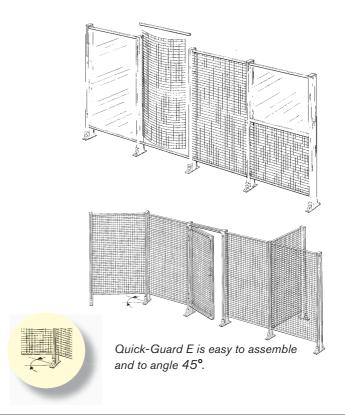
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Quick-Guard® E - design directly on site

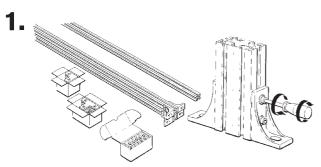
Quick-Guard E is installed quickly and cost effectively because it only consists of patented net-locks, welded mesh, panels of polycarbonate, u-profiles and fence posts (profiles with floor-brackets). All parts for Quick-Guard and pre-assembled doors are delivered immediately from stock. The few components of the fencing system make it easy for you to custom build and install the fencing system yourselves.

The strength of the fencing system originates from the fact that the welded mesh and/or panels of polycarbonate are 'locked' into the profile. The outer wire of the mesh is locked by uniquely designed 'netlocks' into the profile making the fixing virtually as strong as being welded. The polycarbonate panels are locked in with specially designed infill-locks which, according to our tests, have been as strong as the mesh netlock system. If you want more stable fencing posts, you can choose a sturdier profile measuring 44 x 88 mm instead of the standard 44 x 44 mm profile.

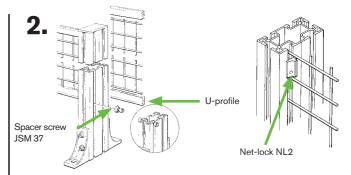
It is always easy to combine Quick-Guard E with Quick-Guard standard to achieve a complete system. It is also easy to adjust and modify the guarding system when production equipment is modified and/or moved.



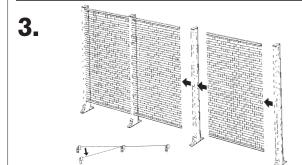
Assembly of Quick-Guard E



Premount floor fixtures on vertical posts. Mount fixtures by first slackening the screw anti-clockwise. Then tighten the screw clockwise in the usual way, the nut will then automatically locate into the correct position and mechanically lock the fixture into the profile. Make sure that the nut has turned correctly.

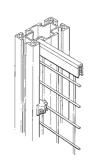


- 1. Insert spacer screw into the post profiles.
- 2. Place the lower u-profile on the mesh.
- Push the mesh into the profile and fix the mesh with NL2 netlocks.
- 4. Fix top u-profile in place either before or after inserting the mesh.



Assemble the next section. The distance between the posts can be adjusted some mm after the mesh is locked in with the Net-locks. The mesh can be angled up to 45° without using hinges (JSM 35-K).

4.

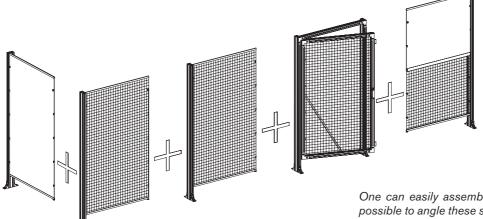


Lock the top of the mesh using NL3 netlocks; this way the mesh is secured, stabilised and electrically grounded. Grounding is needed when electrical devices or cables are assembled on the mesh.

13:6 ABB

Quick-Guard® E - can be ordered in sections

Quick-Guard Express can be ordered in different sections consisting of a few components. By adding the different sections, one can easily build a guard fencing system.



One can easily assemble the Express sections. It is also possible to angle these sections (45°). The mesh can easily be cut to the desired size with a simple clipping tool.

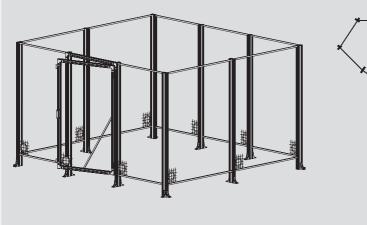


Measure the number of metres of fencing that are required and determine the number of doors. Our two standard sections have a cc width of 1100 mm and 1500 mm. The cc for the door is 1100 mm and fits anywhere the cc is 1100 mm between the posts.

If dimensions other than the standard dimensions are needed, just cut the mesh to the correct size with a bolt cutter.

The same fencing sections can be erected in several ways.

- 4 pcs 1500 sections
- 5 pcs 1100 sections
- 1 pc door



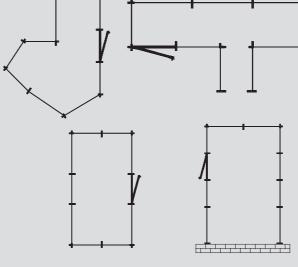


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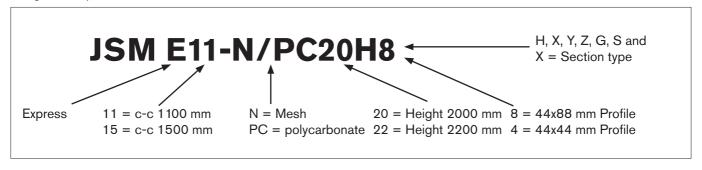
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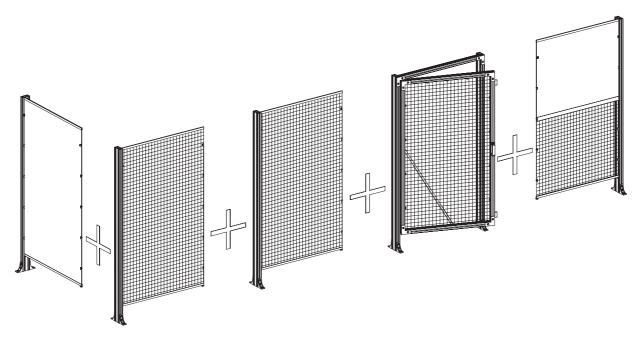
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One can easily assemble the Express sections. It is also possible to angle these sections (45°). The mesh can easily be cut to the desired size with a simple clipping tool.

IMAGE	DESIGNATION	ART.NO.	DESCRIPTION
Section X			
	JSM E11-N14X4 JSM E11-N20X8 JSM E11-N22X8 JSM E11-N/PC20X8 JSM E11-N/PC22X8 JSM E11-PC20X8 JSM E11-PC22X8 JSM E15-N14X4 JSM E15-N20X8 JSM E15-N20X8	2TLA040106R0200 2TLA040101R0300 2TLA040102R0300 2TLA040104R0100 2TLA040105R0100 2TLA040101R5300 2TLA040102R5300 2TLA040106R1000 2TLA040101R0900 2TLA040101R0900 2TLA040102R0800	Components for an additional section with only one post. The height can be varied between 2000 mm or 2200 mm. The section is supplied unassembled. Included parts: Floorbracket, netlocks/panel locks, support screws, edge protection, Aluminum profile and welded steel mesh/panel sheet.

13:8 ABB

IMAGE	DESIGNATION	ART.NO.	DESCRIPTION
Section Y			
	JSM E11-14Y4 JSM E11-20Y8 JSM E11-22Y8	2TLA040106R8000 2TLA040103R2100 2TLA040103R4100	Components for a complete post with floor bracket to finalize the additional sections. The height can be varied between 2000 mm or 2200 mm. The section is supplied unassembled. Included parts: Floorbracket, support screw, and Aluminum profile.
Section Z			
	JSM E11-N14Z JSM E11-N20Z JSM E11-N22Z JSM E11-N/PC20Z JSM E11-N/PC22Z JSM E11-PC14Z JSM E11-PC20Z JSM E11-PC22Z JSM E15-N14Z JSM E15-N20Z JSM E15-N20Z	2TLA040106R0400 2TLA040101R0400 2TLA040102R0400 2TLA040105R0200 2TLA040106R5400 2TLA040101R5400 2TLA040101R5400 2TLA040102R5400 2TLA040101R1000 2TLA040101R1000 2TLA040102R0900	Components for a complete section without fence posts and floor brackets. The height can be varied between 2000 mm or 2200 mm. The section is supplied unassembled. Included parts: Netlocks/panel locks, edge protection and welded steel mesh/panel sheet.
Section G			
	JSM E11-N20G* JSM E11-N22G* JSM E11-N/PC20G JSM E11-N/PC22G JSM E11-PC14G JSM E11-PC20G JSM E11-PC20G * The door leaf is supplied pre-mounted.	2TLA040101R0500 2TLA040102R0500 2TLA040104R0300 2TLA040105R0300 2TLA040106R5500 2TLA040101R5500 2TLA040102R5500	Components for complete conventional door with outer profile 44x88 mm. The height can be varied between 2000 mm or 2200 mm. The section is supplied unassembled. The size of the door can easily be adjusted on site. Included parts: L-brackets, floorbrackets, netlocks/panel locks, handle, hinges, door stop, crossbar, aluminum profiles and welded steel mesh/panel sheet.
Section S			
	JSM E11-N20S JSM E11-N22S JSM E11-N/PC20S JSM E11-N/PC22S JSM E11-PC20S JSM E11-PC22S	2TLA040101R0600 2TLA040102R0600 2TLA040104R0400 2TLA040105R0400 2TLA040101R5700 2TLA040102R5600	Components for a complete sliding door with outer profile 44x88 mm. The height can be varied between 2000 mm or 2200 mm. The section is supplied unassembled. The size of the door can easily be adjusted on location. Included parts: L-brackets, T-brackets,
,	JSM E15-N22S	2TLA040102R1000	floorbrackets, netlocks/panel locks, handle, suspension wheels, guiding components, door stop, crossbar, endcaps, aluminum profiles and welded steelmesh/panel sheet.

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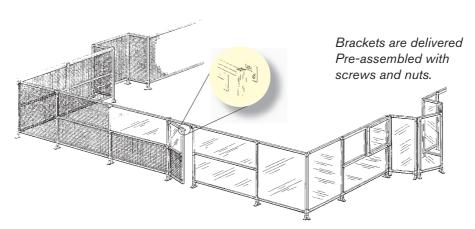
Quick-Guard® Standard and SafeCAD®

Quick-Guard consists of a minimum of different components, such as aluminum profiles, patented assembly parts, netlocks, mesh, solid or noise reduction panels. Furthermore the cost for assembly and modification of the system is low. Thanks to our patented screw-lock system, we can supply all brackets pre-mounted with fixing screws and nuts. No holes need to be drilled in the profiles and all cuts are made straight. Assembly and modification is therefore very easy.

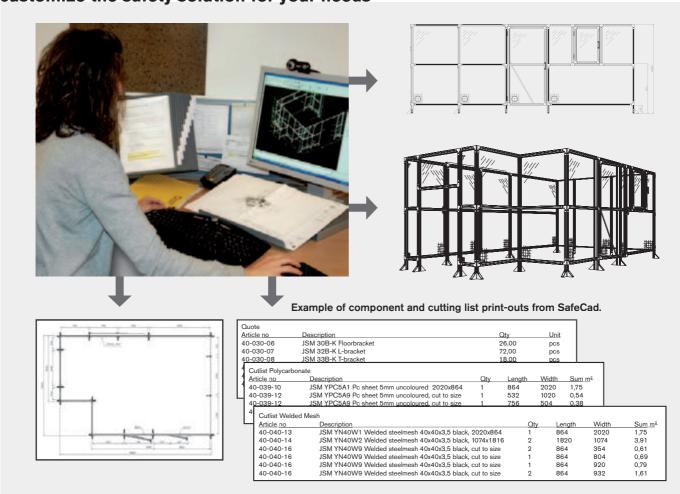
To be able to quickly and easily custom design practical safety solutions, we have developed a computer programme, SafeCAD. This is a 'plug-in' program for AutoCAD®. A

simple sketch of the guarding system that is required is used as the program input. The positions of doors and hatches, choice of mesh, polycarbonate, aluminum/steel sheet or noise reduction panels are typed in. The program automatically generates 3D drawings along with component and cutting lists. These drawings are also used as the basis for assembly/ installation.

It is always easy to combine Quick-Guard E with Quick-Guard to achieve a complete system. It is also easy to adjust and modify when the production equipment is modified and/or moved.



Using SafeCAD® it is easy for both us and yourself to customize the safety solution for your needs

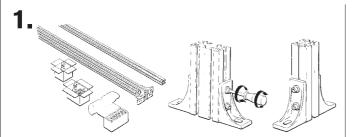


13:10 ABB

Quick-Guard® Assembly, standard version



Assembly of the Quick-Guard® system is very easy. All components are very light in weight and ergonomic in design. This enables, in most cases, one man to be able to assemble both simple and complex structures with ease using very few different types of fixing components. All fixtures can be mounted easily from "outside" by using the specially designed "locking nut" which can be located anywhere in the extrusion channel. The fixture components, by means of integral locating keys, ensure that correct angles are achieved and enable the number of bolts/nuts to be reduced to half the number that would otherwise be required.



Premount floor fixtures by first slackening the screw anticlockwise. Then tighten the screw clockwise in the usual way. The nut will then automatically locate into the correct position and mechanically lock the fixture into the profile.

2.



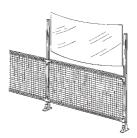
Attach lower horizontal extrusion between vertical posts. Use a a spacing block to ensure the correct distance from the floor.

3.



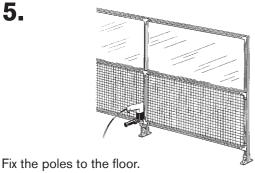
Insert infill panel and fix middle horizontal profile. The distance between the profiles is the width of the infill minus 20 mm.

4.

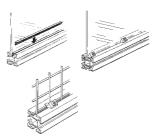


Insert top infill panel. Fix top profile with fittings on the top on both sides.

5.



6.

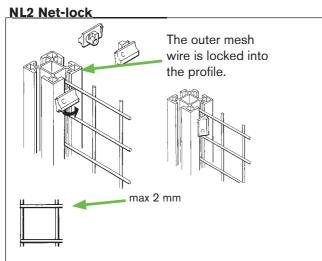


Secure infill sheet with plastic strip or Net-lock fixings. Easy, fast and quick. See more under Assembly of netlocks. If there is a risk of the robot striking the polycarbonate, JSM PL3 panel locks must be used.

ABB 13:11

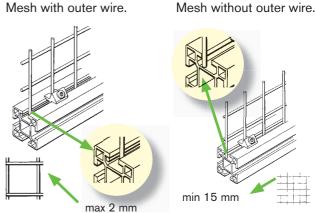
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Assembly using NL2 and NL3 Net-locks on welded mesh



When assembling the Net-lock NL2 it is first put into the profile as the drawing shows. Then the Net-lock is turned 90°. When cutting the welded mesh the wire ends should not be longer than two (2) mm.

NL3 Net-lock



The outer mesh wire is locked into the profile.

The Net-lock locks the mesh against the profile.

When assembling the Net-lock NL3 it is first put into the profile with the tabs on each side of the mesh wire. The screw is then tightened. When cutting the welded mesh the wire ends should be at least 15 mm to fit into the profile. NL3 must be used to lock the mesh into the slot.

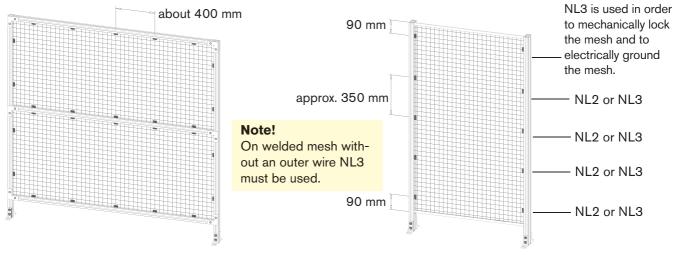
Number of Net-locks

Number of Net-locks Quick-Guard standard version

On Quick-Guard standard version NL3 is recommended as it can handle mesh with and without an outer wire.

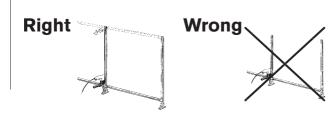
Number of Net-locks Quick-Guard E

On Quick-Guard E both Net-lock NL2 and NL3 can be used. For mesh edges without outer wire NL3 must be used instead of NL2.



NOTE! On both Quick-Guard Standard and Quick-Guard E at least two NL3 should be used in order to mechanically lock the mesh and to electrically ground the mesh. NL3 should only be used on doors.

Fixing posts to the floor when mesh is required to be fitted at a later date.

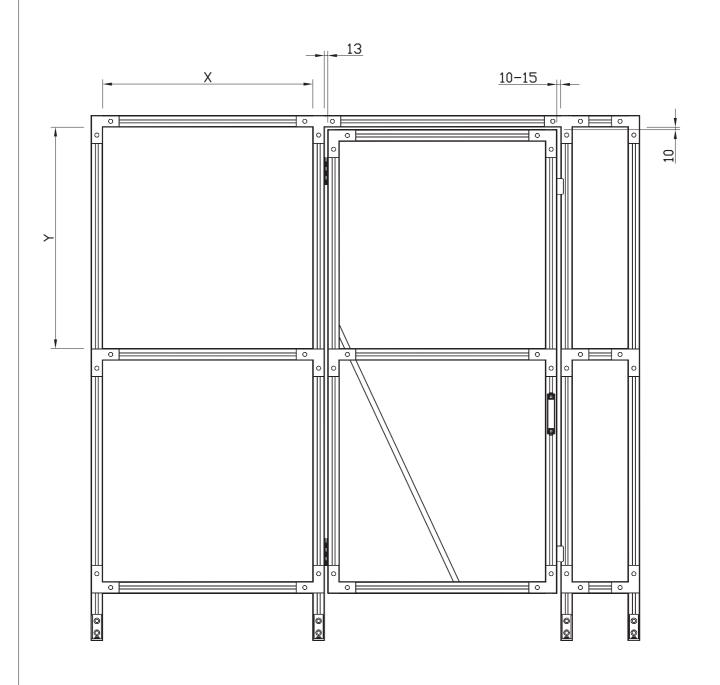


Temporarily mount at least two middle profiles before drilling and fixing posts to the floor. This method is used when infill mesh or panels are to be fitted at a later date.

Note! Never attempt to fix the posts to the floor without first connecting at least two middle profiles to ensure the posts are parallel to each other and vertical.

13:12 ABB

Dimensions for aluminum profile lengths and panels.



Material	Width	Height
Polycarbonate	X+20 mm	Y+20 mm
Welded mesh	X+20 mm	Y+20 mm
Steel panel	X+20 mm	Y+20 mm
Sound-absorbing panel 25mm	X-37 mm	Y-37 mm
Sound-absorbing 50 mm	X-37 mm	Y-37 mm
Laminated glass	X+15 mm	Y+15mm
Double Pc	2 pcs. X-7	2 pcs. Y-7
Sound absorbent panel profile JSM AS1	2 pcs. L=X	2 pcs. L=Y-73
Sound-absorbing profile JSM AS3	2 pcs. L=X (mitred 2 x 45 degrees)	2 pcs. L=Y (mitred 2 x 45 degrees)
Double Pc profile JSM AS2	2 pcs. L=X	2 pcs. L=Y-33

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ALUMINUM PROFILES

A wide range of aluminium profiles are available and include, fencing profile, guide rails, and cable ducting. The cable ducting is available in three sizes, and can be delivered with or without mounting holes. The cable ducting is easy to open and can be provided with end caps. Cover strips of plastic are also available, including fencing profiles making the entire groove cross section utilisable as 'installation conduit' for cables. The Aluminium profiles have integral "V" grooves to aid in centring any drilling that may be necessary.

Alloy: 6063 and 6060F22. Natural anodized aluminium 10µm

Fencing Profile

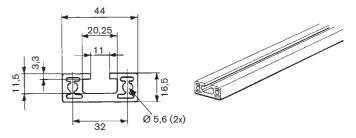
Designation: **JSM A4416**

Article numbers: 2TLA040037R7000 (cut to length)

2TLA040037R7400 (L=6000)

Material: Naturally anodized aluminium

Dimensions: 16,5x44 mm



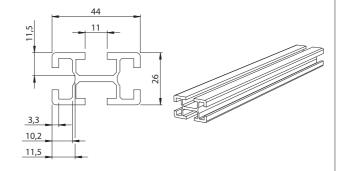
Designation: **JSM A4426**

Article numbers: 2TLA040037R8000 (cut to sizes)

2TLA040037R8100 (L=6000)

Material: Naturally anodized aluminium

44x26 mm Dimensions:



JSM A44A Designation:

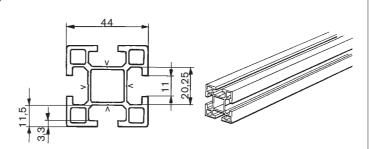
Article numbers: 2TLA040037R3500 (cut to sizes)

2TLA040037R3600 (L=1100) 2TLA040037R9800 (L=1400) 2TLA040037R3700 (L=2000) 2TLA040037R3800 (L=2000) 2TLA040037R3900 (L=2400) 2TLA040037R4000 (L=2500)

2TLA040037R4100 (L=6000)

Material: Natural anodized aluminium

Dimensions: 44x44 mm Order Unit: 10 pcs/box



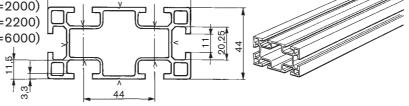
Designation: **JSM A4488A** Article numbers: 2TLA040037R4200

> (cut to sizes) 2TLA040037R4300 (L=2000) 2TLA040037R4400 (L=2200)

2TLA040037R4500 (L=6000) Natural anodized

Material:

aluminium Dimensions: 44x88 mm Order Unit: 5 pcs/box



13:14 ABB

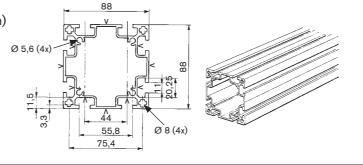
JSM A8888 Designation:

Article numbers: 2TLA040037R7500 (cut to length)

2TLA040037R7900 (L=6000)

Material: Natural anodized aluminium

Dimensions: 88x88



Technical data – fencing profile					
		Angı	Angular moment		ral resistance
Тур	Vikt (kg/m)	l _x (mm⁴x10⁴)	I _y (mm⁴x10⁴)	W _x (mm ³ x10 ³)	W _y (mm³x10³)
JSM A4416	1.040	1.1	7.6	1.19	3.43
JSM A4426	1,023	3,2	7,4	2,47	3,36
JSM A44A	1.504	12.4	12.4	5.64	5.64
JSM A4488A	2.379	79.6	21.6	18.1	9.8
JSM A8888	3.632	143.0	143.0	32.5	32.5

Fencing U-Profile

Designation: JSM A12

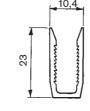
Article numbers: 2TLA040037R2800

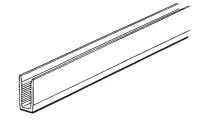
(cut to sizes, max 2.0 m)

2TLA040037R2700 (L=1076) 2TLA040037R4600 (L=1476) 2TLA040037R4700 (L=2000)

Material: Natural anodized aluminium

Weight: 0.230 kg/m





H-profile

Designation: JSM A13

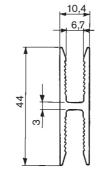
2TLA040037R5000 Article numbers:

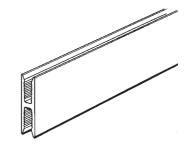
(JSM A13 cut to sizes)

2TLA040037R5100 (L=1076) 2TLA040037R5200 (L=1476) 2TLA040037R5300 (L=2020)

Material: Natural anodized aluminium

Weight: 0.452 kg/m





Guide Rails

Designation: **JSM A3130B**

Article number: 2TLA040037R2600 Material: Natural anodized aluminium Holes: $c-c = 275 \text{ mm}, \emptyset = 6 \text{ mm}$

4,0 m (max)

Standard Length: Weight: 0.530 kg/m



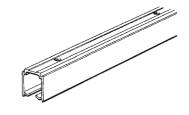


ABB 13:15

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Designation: JSM A56

Article number: 2TLA040037R4900

(Cut to sizes incl. screws) 2TLA040037R0800 (Length 2.0 m, incl. screws) 2TLA040037R4800

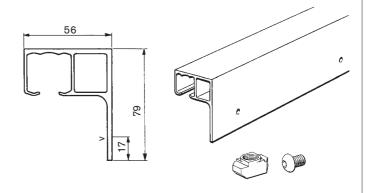
(Length 6.0 m, incl. screws)

Delivered with: Screw JSM S8E

Nut JSM M8B

Material: Natural anodized aluminium Holes: $c-c = 450 \text{ mm}, \emptyset = 8.5 \text{ mm}$

Standard Length: 2.0; 6.0 m Weight: 1.585 kg/m



Cable Ducting

Designation: JSM A25_

Article numbers: 2TLA040037R1300 (JSM A25A)

2TLA040037R1400 (JSM

A25B)

Material: Natural anodized aluminium

Dimensions: 44x25 mm Standard Length: 2.0 m

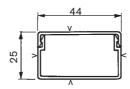
JSM A25A: with holes c-c = 500 mm

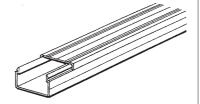
ø = 5 mm

JSM A25B: without holes Order Unit: 10 pcs/box

Weight: 0.545 kg/m JSMA25A

0.567 kg/m JSMA25B





Designation: JSM A60_

Article numbers: 2TLA040037R1500 (JSM

A60A)

2TLA040037R1600 (JSM

A60B)

JSM A60B:

Material: Natural anodized aluminium

Dimensions: 44x60 mm Standard Length: 2.0 m

JSM A60A: with holes c-c = 500 mm

ø = 5 mm without holes

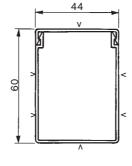
Order Unit: 10 pcs/box Weight: 0.923 kg/m JSMA60A

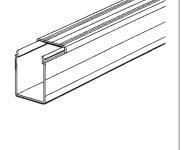
0.950 kg/m JSMA60B

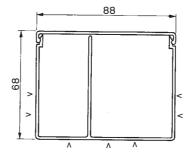
Designation: JSM A88

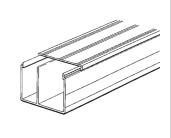
Article number: 2TLA040037R3300
Material: Natural anodized aluminium

Dimensions: 88x68 mm Standard Length: 2.0 m Weight: 1,844 kg/m









13:16 ABB

Cable tie

Designation: JSM X1

Article number: 2TLA040033R4300
Pre-assembled with: Screws and Nuts
Order Unit: 10 pcs/box
Material: Nylon 6/6 black



Profiles for installation of acoustic damping

Profile for 25 mm sound-absorbing panel, JSM YLA25A

Designation: JSM AS1

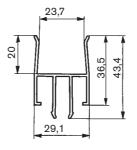
Article numbers: 2TLA040037R9500

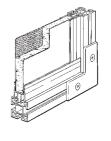
(cut to length)

2TLA040037R0900 (L=2000)

Material: Naturally anodized aluminium

Dimensions: 29x43 mm Weight: 0,545 kg/m





Profile for 50 mm sound-absorbing panel, JSM YLA50A

Designation: JSM AS3

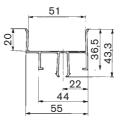
Material:

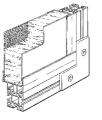
Article numbers: 2TLA042021R8000

(cut to length)

2TLA042021R8100 (L=6000) Naturally anodized aluminium

Dimensions: 43x56 Weight: 0,694 kg/m





Profile for double 5mm Polycarbonate panel, JSM YPC5

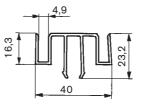
Designation: JSM AS2

Article numbers: 2TLA040037R9600

(cut to length)

2TLA040037R1000 (L=2000) Naturally anodized aluminium

Material: Naturally and Dimensions: 40x23 mm Weight: 0,510 kg/m





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FITTINGS

ABB Jokab Safety's fencing system is put together with various types of fitting. Uprights are anchored to the floor with floor angle fittings. With a small angle fitting it is possible to hang an electrical enclosure and strengthen the corners of free-standing walls. Corners and joints are constructed with the aid of T, L and I fittings. If angles different to 90° between the fence sections are required, a JSM 35-K angle fitting can be used. This hinge has a distance between centres of 47 mm, which means that the gap between uprights will always be less than 20 mm. According to EN ISO 13857, the minimum permitted protection distance is 120 mm for a gap narrower than 20 mm.

Floor/Angle fitting

Designation: JSM 39-K

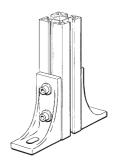
Article numbers: 2TLA040030R1400
Pre-assembled with: Screw JSM S8C (x 2)

Washer 9 x 18 x 1,5 (x 2)

Nuts JSM M8B (x 2)

Material: Aluminium Quantity: 10 pcs/box



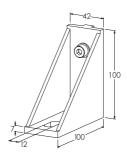


Designation: JSM 30B-K

Article number: 2TLA040030R0600 Pre-assembled with: Screw JSM S8C (x 2)

> Washer 9 x 18 1,5 (x 2) Nut JSM M8B (x2)

Material: Aluminium
Order Unit: 10 pcs/box





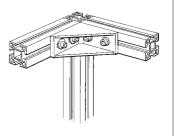
Designation: JSM 30B-K1

Article numbers: 2TLA040030R1100
Pre-assembled with: Screws JSM S8C (x 4)

Washers 9 x 18 x 1,5 (x 4) Nuts JSM M8B (x 4) Washers JSM B8B (x 2)

Material: Aluminium Quantity: 10 pcs/box





Designation: JSM 36-K1

Article number: 2TLA040030R0900 Pre-assembled with: Screw JSM S8D (x 3)

Nut JSM M8B (x 3)

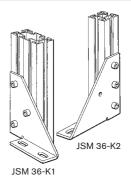
Article number: 2TLA040030R1000

Designation: JSM 36-K2

Pre-assembled with: Screw JSM S8D (x 3)

Nut JSM M8B (x 3)

Material: Zinc-plated steel
Order Unit: 10 pcs/box



13:18 ABB

Small Angle fitting, e.g. Electrical cabinet fitting

Designation: JSM 31B-K

Two counter sunk holes

JSM31A1-K

One counter sunk hole

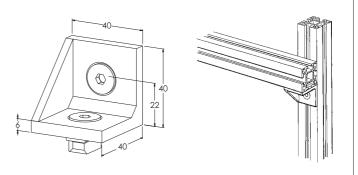
Article number: 2TLA040030R1300 (JSM 31B-K)

2TLA040030R0400 (JSM 31A1-K)

Pre-assembled with: Screw JSM S8C

Nut JSM M8B

Material: Aluminium Order unit: 10 pcs/box

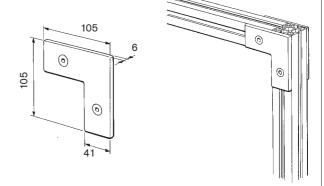


L-bracket

Designation: JSM 32B-K Article number: 2TLA040030R0700

Pre-assembled with: Screw JSM S8A Nut JSM M8B

Material: Aluminium Order Unit: 10 pcs/box



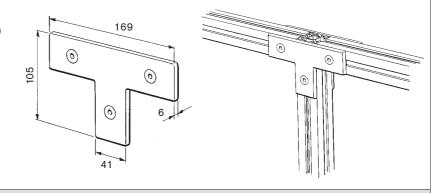
T-bracket

Designation: JSM 33B-K

Article number: 2TLA040030R0800 Pre-assembled with: Screw JSM S8A

Nut JSM M8B

Material: Aluminium
Order Unit: 10 pcs/box



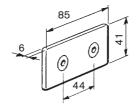
I-bracket, joint

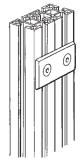
Designation: JSM 34B-K

Article number: 2TLA040030R1500 Pre-assembled with: Screw JSM S8A

Nut JSM M8B

Material: Aluminium
Order Unit: 10 pcs/box





Distance screw

Designation: JSM 37

Article number: 2TLA040033R3100
Material: Zinc-plated steel
Order unit: 100 pcs/box





ABB 13:19

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Angle bracket

Designation: JSM D1C Hinge Article number: 2TLA040033R4800

Pre-assembled with: JSM M8B

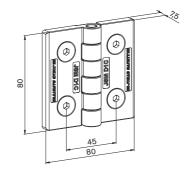
JSM B8C

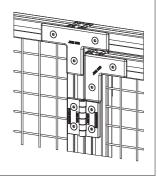
JSM S8A

Material: Polyamide, glass fibre reinforced

Color: Black

Order unit: 2pcs/bag, 10pcs/box





Designation: JSM 35-K

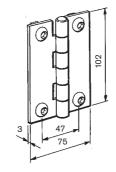
Article number: 2TLA040033R1400 Pre-assembled with: Screw JSM S6A

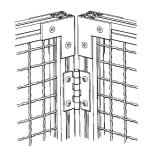
Nut JSM M6B

Material: Zinc-plated steel c-c = 47 mmHole: Order unit: 2 pcs/box

Note! The JSM 35-K must only be used for

making fence angles.





13:20 ABB

DOOR COMPONENTS

To mount conventional doors a hinge is available which permits an opening angle of 180°. For mounting a sliding door, guide rails and suspension wheels are utilised. Other sliding elements make it possible to build different types of hatches. Guide rollers, for wide and heavy doors, door closers, fittings for sensors/switches etc are also available.

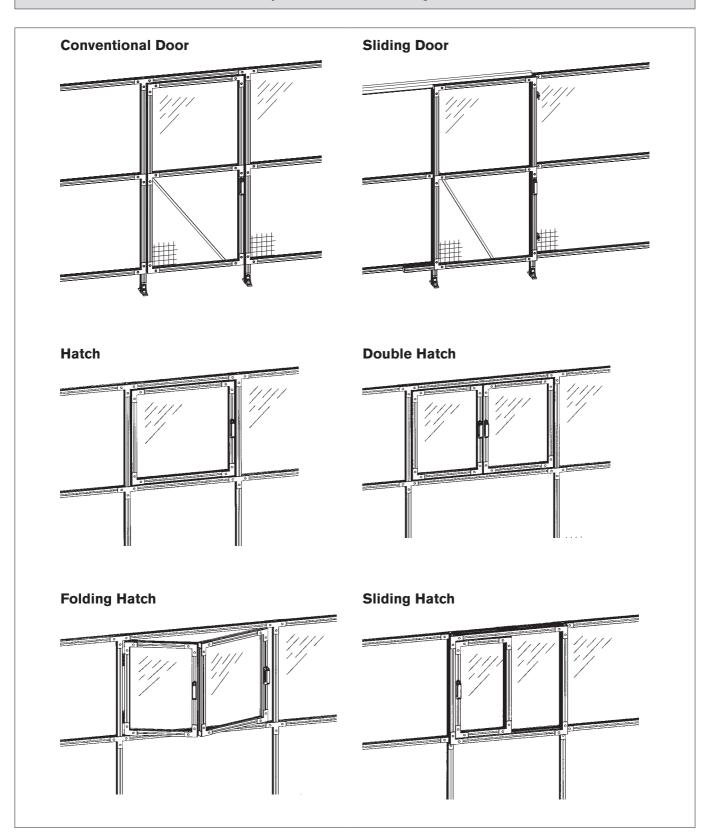


ABB 13:21

Hinge kit

JSM D1C Hinge Designation: Article number: 2TLA040033R4800

Pre-assembled with: JSM M8B

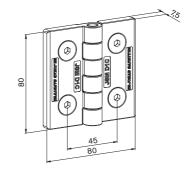
JSM B8C

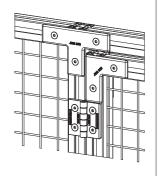
JSM S8A

Material: Polyamide, glass fibre reinforced

Color: Black

Order unit: 2pcs/bag, 10pcs/box





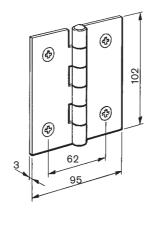
Designation: JSM D1A Hinge Article number: 2TLA040033R1500 Pre-assembled with: Screw JSM S6A

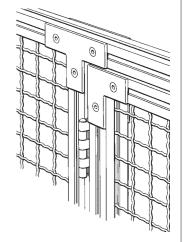
Nut JSM M6B

Zinc-plated steel Material: Fixing Holes: c-c = 62 mmOrder Unit: 2 pcs/box

Note! JSM D1A must not be used as a fencing angle

fitting because its gap can exceed 20 mm.

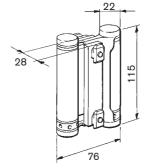


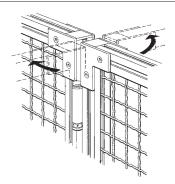


Designation: JSM D1B Spring hinge Article numbers: 2TLA042020R4700 Pre-assembled with: Spacer plate, screws & nuts

Material: Zinc-plated steel

NOTE! The door gap will be 28 mm when installed.



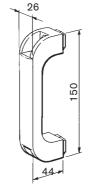


Handle

Designation: JSM D2 Handle 2TLA040033R0100 Article number: Pre-assembled with: Screw JSM S8D

Nut JSM M8B

Material: Thermoplastic, black



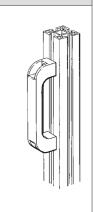


ABB 13:22

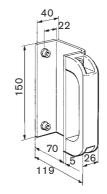
Designation: JSM D18 Handle
Article number: 2TLA042020R5000

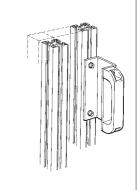
Material

Handle: Thermoplastic, black

Fittings: Aluminum
Pre-assembled with: Screws and Nuts

Suitable for sliding door on the inside of the fence.





Door closer

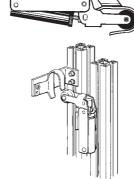
Designation: JSM D3

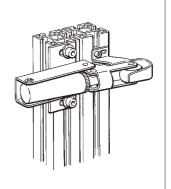
(conventional door)

Material: Door closer - steel

Bracket - Aluminum

Article number: 2TLA040033R0200
Pre-assembled with: Screws and Nuts
Designation: JSM D19 (sliding door)
Article number: 2TLA042020R5600
Material: Zinc-plated steel
Pre-assembled with: Screws and Nuts





Gas spring

Designation: Gas spring including mount

Article numbers: 2TLA042024R1000

Stroke length: 300 mm Material: Steel

Pre-assembled with: Screws and Nuts

Designation: JSM D22A Gas spring including

mount

Article numbers: 2TLA042024R1100

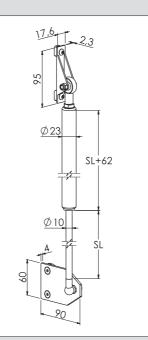
Stroke length: 350 mm Material: Steel

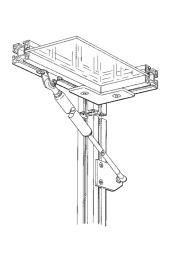
Pre-assembled with: Screws and Nuts

Fixing details included:

Side fastener (2TLA042021R2700) U fitting (2TLA042021R2800)

Specify the required force when ordering





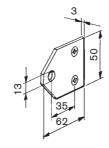
Securing plate for padlock

Designation: JSM D17 Bracket for Padlock

hasp

Article number: 2TLA040020R2200
Material: 2TLA040020R2200
Zinc-plated steel

Note! Two pieces are required for one complete unit.



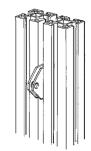


ABB 13:23

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Ball Catch

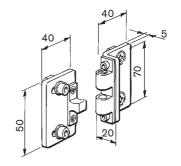
Designation: JSM D11B (conventional door)

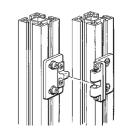
Article number: 2TLA040033R4100 Pre-assembled with: Screws and Nuts

Material

Brackets: Aluminium

Ball Catch: Nickel-plated brass



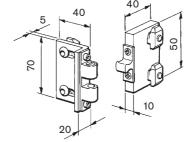


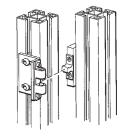
Designation: JSM D11C (sliding door)
Article number: 2TLA040033R4200
Pre-assembled with: Screws and Nuts

Material

Brackets: Aluminium

Ball Catch: Nickel-plated brass



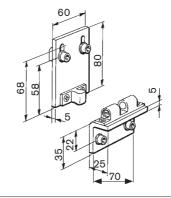


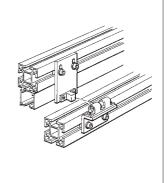
Designation: JSM D11D (folding door)
Article number: 2TLA042020R5200
Pre-assembled with: Screws and Nuts

Material

Brackets: Aluminium

Ball Catch: Nickel-plated brass





13:24 ABB

Upper Door bolt

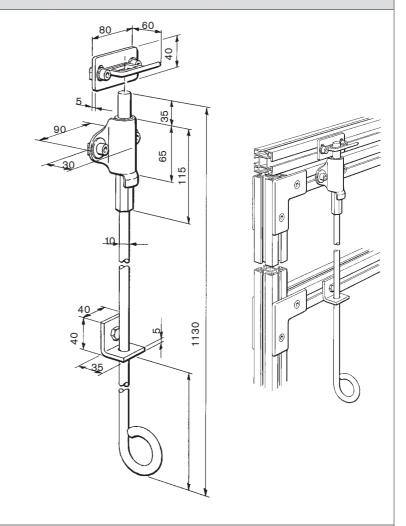
Upper Door bolt

Designation: JSM D10A

Article number: 2TLA040033R2100 Pre-assembled with: Screws and Nuts

Material

Brackets: Zinc-plated steel Rod: Stainless steel



Lower Door bolt

Designation: JSM D10

Article number: 2TLA040033R2000 Pre-assembled with: Screws and Nuts

Material

Brackets: Zinc-plated steel Rod: Stainless steel

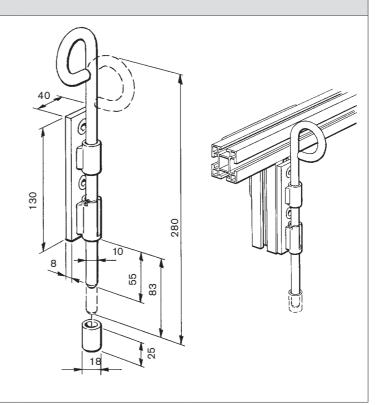


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Lower Door bolt

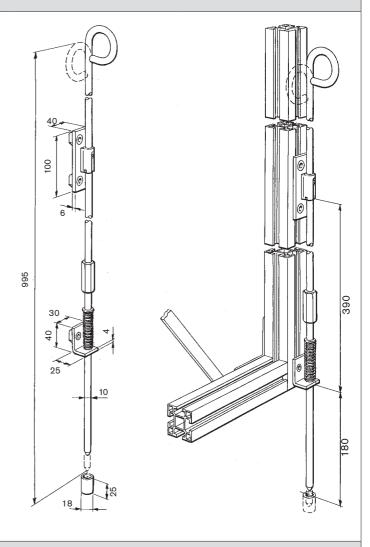
Lower Door bolt

Designation: JSM D10B

Article number: 2TLA040033R3800 Pre-assembled with: Screws and Nuts

Material

Brackets: Zinc-plated steel Rod: Stainless steel



Cam lock

Cam lock

Designation: JSM D15

Article number: 2TLA040033R3900 Pre-assembled with: Screws and Nuts

Material

Brackets: Aluminium
Lockunit: Polyamide black

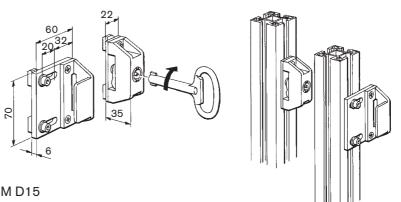
Delivered without key.

Key to cam lock

Designation: JSM D16 for cam lock JSM D15

Article number: 2TLA040033R4400

Material: Zinc, black



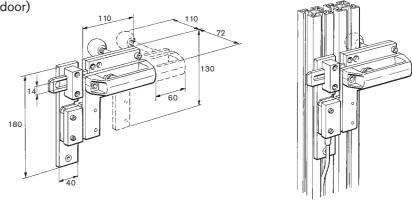
13:26 ABB

Sliding bolt for Eden

Designation: JSM D20 (for hinged door)
Article numbers: 2TLA020302R1000
Material: Steel, painted yellow

Supplied without an Eden

For installation on hinged doors.



Magne 1A mount

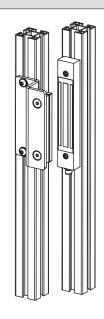
Designation: JSM D21

Article numbers: 2TLA042023R0000 Material: Anodised aluminium

Supplied without Magne 1A Magnetic lock

For installation on hinged doors



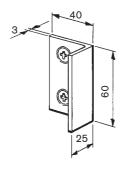


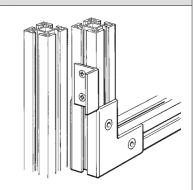
Door stop

Designation: JSM D13A

Article number: 2TLA040033R2600 Pre-assembled with: Screws and Nuts

Material: Natural anodized aluminium





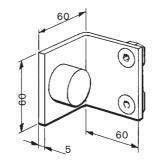
Designation: JSM D13

Article number: 2TLA040033R2500 Pre-assembled with: Screws, Nuts and

vibration damper

Material: Zinc-plated steel

For mounting on vertical profiles.



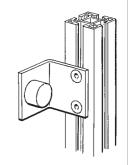


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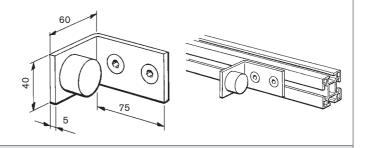
Designation: JSM D13B

Article number: 2TLA040033R2700 Pre-assembled with: Screws, Nuts and

vibration damper

Material: Zinc-plated steel

For mounting on horizontal profiles.



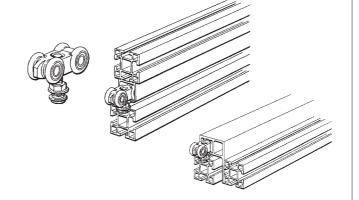
Suspension wheels

Designation: JSM D5

Article number: 2TLA040033R0400

For aluminium profile guide rails JSM A3130B and

JSM A56

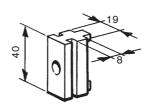


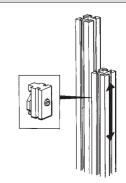
Sliding elements

Sliding element, (rectangular)

Designation: JSM D6

Article number: 2TLA040033R0500
Pre-assembled with: Screw and Nut
Material: Polyamid

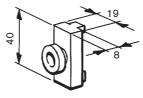


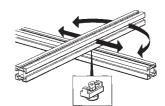


Sliding element, (round)

Designation: JSM D7

Article number: 2TLA040033R0600
Pre-assembled with: Screw and Nut
Material: Polyamid

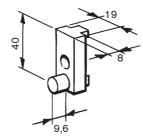




Sliding element, (guide)

Designation: JSM D8

Article number: 2TLA040033R0700
Pre-assembled with: Screw and Nut
Material: Polyamid





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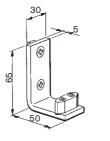
Guide Components for Sliding Door

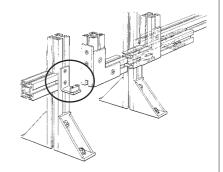
Guide Bracket for Sliding Door

Designation: JSM D12

Article number: 2TLA040033R2200
Pre-assembled with: Screws and Nuts
Material: Aluminium and PA6-6

For mounting on vertical profiles.



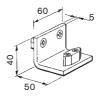


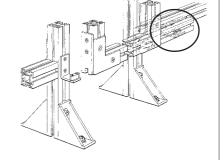
Guide Bracket for Sliding Door

Designation: JSM D12A

Article number: 2TLA040033R2300
Pre-assembled with: Screws and Nuts
Material: Aluminium and PA6-6

For mounting on horizontal profiles.

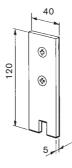


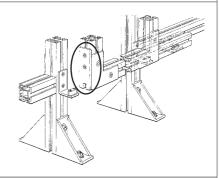


Bracket for Guide Pin

Designation: JSM D12B

Article number: 2TLA040033R2400
Pre-assembled with: Screws and Nuts
Material: Aluminium





Guide roller

Guide roller for conventional door with locking mechanism

Designation: JSM D9

JSM D9-K - Pre-assembled with

angle bracket

Article numbers: 2TLA040033R0800 (JSM D9)

2TLA040033R1100 (JSM D9-K)

Diameter: 75 mm Max. load: 60 kg

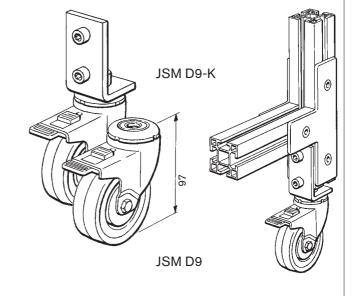


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Guide roller for sliding door

Designation: JSM D9A

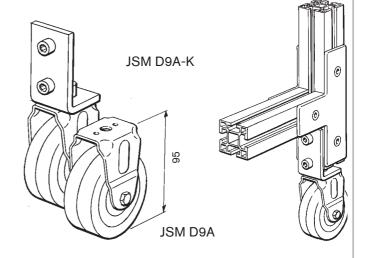
JSM D9A-K - Pre-assembled

with angle bracket

Article numbers: 2TLA040033R1200 (JSM D9A)

2TLA040033R1300 (JSM D9A-K)

Diameter: 75 mm Max. load: 70 kg



Diagonal bar for door

Designation: JSM D14

Article numbers: 2TLA040033R2800

Length: 1160 mm
Pre-assembled with: Screws and Nuts

Material: Naturally anodized aluminium

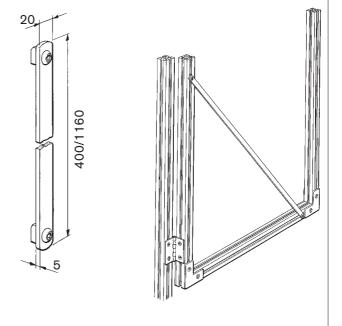
Designation: JSM D14A

Article numbers: 2TLA042021R7300

Length: 400 mm

Pre-assembled with: Screws and Nuts

Material: Naturally anodized aluminium



13:30 ABB

FITTINGS FOR SWITCHES

Eden fittings

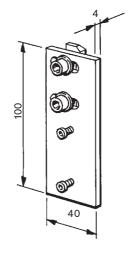
Fittings for Eden, adapted for sliding and conventional doors

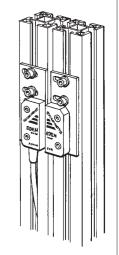
Designation: JSM D4H

Article number 2TLA040033R3600
Pre-assembled with: Screws and Nuts
Material: Aluminium

Note!

Two fittings are needed for a complete Eden.





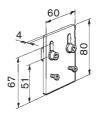
Eden Fitting for sliding door (flush with fence)

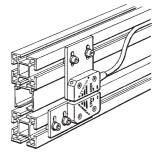
Designation: JSM D4J

Article number 2TLA042020R4000
Pre-assembled with: Screws and Nuts
Material: Aluminium

Note! One JSM D4H and one JSM D4J are needed

for a complete unit.



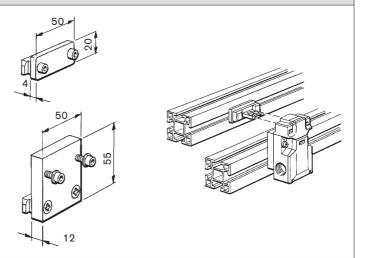


Fittings for JSNY5 Interlock Switches

Conventional opening door Interlock Switch Fittings.

Designation: JSM D4A

Article number: 2TLA040033R0900
Pre-assembled with: Screws and Nuts
Material: Zinc-plated steel



Conventional opening door Interlock Switch

Fittings.

Designation: JSM D4AA

Article number: 2TLA040033R3400
Pre-assembled with: Screws and Nuts
Material: Zinc-plated steel

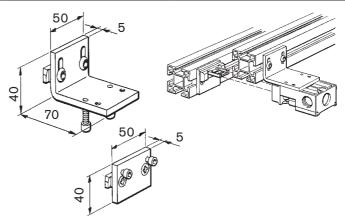


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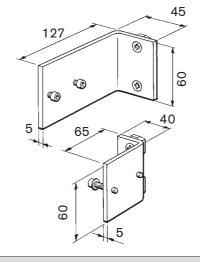
11

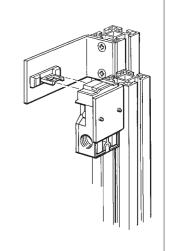
12

Sliding Door Interlock Switch Fittings

Designation: JSM D4B

Article number: 2TLA040033R1000
Pre-assembled with: Screws and Nuts
Material: Zinc-plated steel





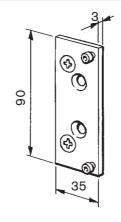
Fittings for Magnet Switches JSNY7

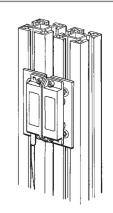
Hinged door Magnet Switch Fittings

Designation: JSM D4E

Article number: 2TLA040033R1800
Pre-assembled with: Screws and Nuts
Material: Aluminium

Note! Two fittings are needed for a complete JSNY7.

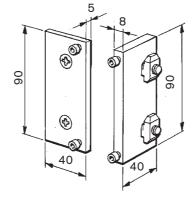


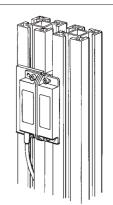


Sliding Door Magnet Switch Fittings

Designation: JSM D4G

Article number: 2TLA040033R3300
Pre-assembled with: Screws and Nuts
Material: Aluminium





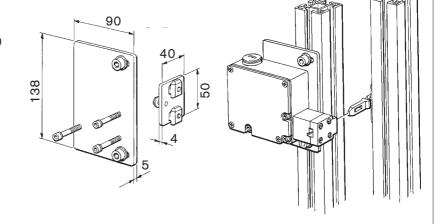
13:32 ABB

Fittings for Interlock Switches JSNY8 and JSNY9

Sliding Door Interlock Switch for JSNY8 Fittings.

Designation: JSM D4D
Article numbers: 2TLA040033R1700
Pre-assembled with: Screws and Nuts

Material: Zinc-plated steel

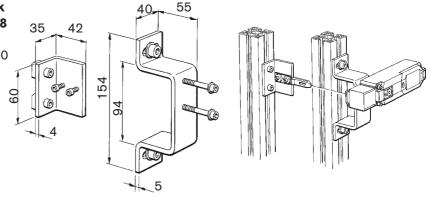


Conventional opening door Interlock Switch Fittings for JSNY9 and JSNY8

Designation: JSM D4C

Article number: 2TLA040033R1600
Pre-assembled with: Screws and Nuts

Material: Zinc-plated steel



Sliding door Interlock Switch Fittings for JSNY9

Designation: JSM D4F

Article number: 2TLA040033R3000
Pre-assembled with: Screws and Nuts
Material: Zinc-plated steel

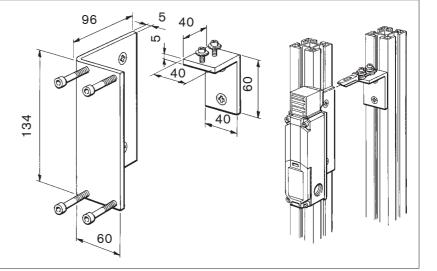


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TERMINAL CAPS AND STRIPS

Terminal caps are available to cover profile ends, thus eliminating sharp edges. Strips are also available, both narrow and wide, to cover the side of the fencing profile.

Terminal Caps

Terminal Cap for JSM A44A

Designation: JSM L1A (yellow)

JSM L1B (grey)

Article numbers: 2TLA040034R0000 (JSM L1A)

2TLA040034R0300 (JSM L1B)

Material: Polyamide Dimensions: 44x44 mm





Terminal Cap for JSM A4488A

Designation: JSM L4A (yellow)

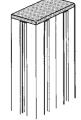
JSM L4B (grey)

Article numbers: 2TLA040034R0400 (JSM L4A)

2TLA040034R0500 (JSM L4B)

Material: Polyamide Dimensions: 44x88 mm

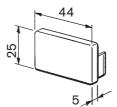


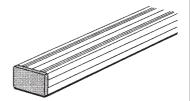


Terminal Cap for JSM A25

Designation: JSM L2

Article number: 2TLA040034R0100
Material: Polyamide, grey
Dimensions: 44x25 mm

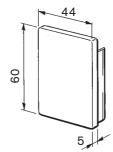


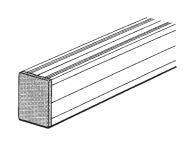


Terminal Cap for JSM A60

Designation: JSM L3

Article number: 2TLA040034R0200
Material: Polyamide, grey
Dimensions: 44x60 mm





Cover Strip

Narrow Cover Strip, for JSM A44A, JSM A44A, JSM A4488A and JSM A8888

Designation: JSM T3: Yellow*

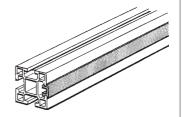
JSMT3B: Grey*

Article numbers: 2TLA040037R3100 (JSM T3A)

2TLA040037R3200 (JSM T3B)

Material: ABS
Dimensions: 16 mm
Order Unit: 2 m



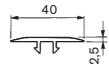


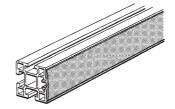
Wide Cover Strip, for JSM A44A, JSM A44A, JSM A448A and JSM A8888

Designation: JSM T2A

Article number: 2TLA040037R1900
Material: PVC, yellow*, soft material

Dimensions: 40 mm Order Unit: 25 m/coil





13:34 ABB

^{*} Other colours available upon request.

ACCESSORIES

All fittings and door components are delivered complete with screws, washers and nuts pre-mounted. For cable ducting the screws, S5B, and nuts, M5B, have to be ordered separately (4 pcs/2m).

Designation		Article number	Description	Dimension	Material	Order Unit
JSM S5B		2TLA041039R0100	Screw to cable ducting	M5x12	Zinc Plated Steel	100 pcs/box
JSM S6A		2TLA041039R0200	Screw for hinge cross-slotted Z (pozidrive)	M6x12	Zinc Plated Steel	100 pcs/box
JSM S8A		2TLA041019R0000	Fixing screw countersunk.	M8x16	Zinc Plated, Dacrolit	100 pcs/box
JSM S8C		2TLA041014R0200	Fixing screw for floor fitting and small angle	M8x20	Zinc Plated Steel	100 pcs/box
JSM S8D		2TLA041014R0100	Fixing screw	M8x16	Zinc Plated Steel	100 pcs/box
JSM S8E		2TLA041019R0100	Fixing screw for Guide rail JSM A56	M8x12	Zinc Plated Steel	100 pcs/box
JSM M4B		2TLA040035R0700	Locking nut	M4	Zinc Plated Steel	100 pcs/box
JSM M5B		2TLA040035R0400	Locking nut	M5	Zinc Plated Steel	100 pcs/box
JSM M6B		2TLA040035R0500	Locking nut	M6	Zinc Plated Steel	100 pcs/box
JSM M8B		2TLA040035R0600	Locking nut	M8	Zinc Plated Steel	100 pcs/box
JSM X1		2TLA040033R4300	Cable tie	2,5-7,8 mm	Nylon black UV-resistant	10 pcs/box
JSM X2		2TLA041900R4300	Expansion-shell bolt	M10x68	Zinc Plated Steel	50 pcs/box
JSM X3	9	2TLA041910R0000	Window cleaning fluid polycarbonate sheets			per can
JSM X4		2TLA041911R0100	Mesh clipping tool	L=300		each
JSM B4C		2TLA040035R5000	Centring washer steel	Ø4,2	Zinc Plated Steel	100 pcs/box
JSM B5C		2TLA040035R5100	Centring washer steel	Ø5,2	Zinc Plated Steel	100 pcs/box
JSM B6C		2TLA040035R5200	Centring washer steel	Ø6,2	Zinc Plated Steel	100 pcs/box
JSM B8C		2TLA040035R5300	Centring washer steel	Ø8,2	Zinc Plated Steel	100 pcs/box

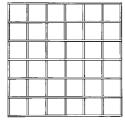
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SURFACES

The choice of net and surfaces depends, among other things, on the protection distance. In the case of netting, a minimum distance of 200 mm (for anyone aged 14 or older) with a mesh size of 40x40 mm in accordance with EN ISO 13857. For closer protection distances and for noise reduction, solid panels are used. Panels are available in different materials. For protection of welding cells, polycarbonate welding transparencies are used.

Welded net



Designation: JSM YN40W_/WE_

Stitch: 40x40 mm Thread: 3,5 mm

Article no. 2TLA040040R1300 2TLA040040R1400 2TLA040040R1500	Name JSM YN40W1 JSM YN40W2 JSM YN40W3	Material Steel, black powder coated Steel, black powder coated Steel, black powder coated	Dimensions 2020 x 864 mm 1074 x 1816 mm 1074 x 2016 mm	Type Welded Welded Welded	
2TLA040040R2000	JSM YN40W4	Steel, black powder coated	1474 x 2016 mm	Welded	
2TLA040040R2100	JSM YN40W5	Steel, black powder coated	1474 x 1816 mm	Welded	
2TLA040040R2600	JSM YN40W6	Steel, black powder coated	2020 x 754 mm	Welded	
2TLA040040R2700	JSM YN40W7	Steel, black powder coated	2020 x 1174 mm	Welded	
2TLA040040R1600	JSM YN40W9	Steel, black powder coated	Cut to size	Welded	
2TLA040040R2800	JSM YN40W10	Steel, black powder coated	1474 x 1216 mm	Welded	
2TLA040040R2900	JSM YN40W11	Steel, black powder coated	1074 x 1216 mm	Welded	
2TLA040040R2500	JSM YN40WE1	Stainless steel, SS 2333	2020 x 864 mm	Welded	
2TLA040040R1800 JSM YN40WE2 Stainless steel, SS 2333 1074 x 1816 mm Welder 2TLA040040R1900 JSM YN40WE9 Stainless steel, SS 2333 Cut to size Welder Colours, hot-dip galvanized mesh or woven wire mesh netting supplied on request.					

Net locking for welded netting with outer wire

Designation: JSM NL2

Article numbers: 2TLA040031R0600

Material: PA/ABS
Quantity: 100 pcs/box





Net locking for welded and woven wire mesh netting, with or without outer wires

Designation: JSM NL3

Article numbers: 2TLA040031R0800

Pre-assembled with: Screws Material: Zinc

Quantity: 100 pcs/box





Shockproof panelling



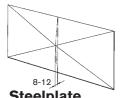
Plastic panels name: JSM Y_

Other materials can be supplied on request.

Plastic panel name: JSM Y_

Article no.	Name	Material	Dimensions	Туре
2TLA040039R1000	JSM YPC5A1	Polycarbonate, uncoloured	5 mm	2020 x 864
2TLA040039R1100	JSM YPC5A2	Polycarbonate, uncoloured	5 mm	2020 x 1174
2TLA040039R1200	JSM YPC5A9	Polycarbonate, uncoloured	5 mm	Cut to size
2TLA040039R2400	JSM YPC3AC9	Polycarbonate, dark tint, weld-protected	3 mm	Cut to size
2TLA040039R2500	JSM YPC3AC1	Polycarbonate, dark tint, weld-protected	3 mm	2050x3000
2TLA042150R0600	JSM YG6A9	Laminated glass	6,4 mm	Cut to size

13:36 ABB



Cross-bent sheet metal panel Other materials are available on request.

Steelplate

Article no.	Name	Material	Thickness	Dimensions
2TLA040039R0700	JSM YGP1A9	Galvanised sheet metal, x-cracked	1 mm	Cut to size
2TLA040039R0900	JSM YGP2A9	Galvanised sheet metal, x-cracked	1,5 mm	Cut to size

Painted sheet metal can be supplied on request.

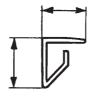
Panel fixings

Designation: JSM PL1 (for 5 mm panels)

JSM PL2 (for 4 mm panels)

Material:

JSM PL1: PVC, black JSM PL2: PVC, black Quantity: 50 pcs/package



Article no.

2TLA040038R0100	JSM PL1A	842 mm
2TLA040038R0200	JSM PL1B	1152 mm
2TLA040038R0300	JSM PL1C	2000 mm
2TLA040038R0400	JSM PL1D	732 mm
2TLA040038R0700	JSM PL2A	842 mm
2TLA040038R0800	JSM PL2B	1152 mm
2TLA040038R0900	JSM PL2C	2000 mm
2TLA040038R1000	JSM PL2D	732 mm

Name

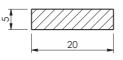
For metal panel fixings

Designation:

Article numbers: 2TLA040038R0600

Material: Cell rubber, self-adhesive

Dimension: 5 x 20 mm Standard package: 10m/roll



Sheet securing glass

Designation: JSM G3

Article numbers: 2TLA041930R0600

Material: **EPDM** Standard package: 50m/roll



Panel lockings

Designation: JSM PL3 (for 5 mm panels) 2TLA040038R1100 Article numbers:

Pre-assembled with: Screws Material: Zinc







Soundabsorbing					
Article no.	Name	Material	Thickness	Dimensions	Kg/m ²
2TLA040037R1100	JSM YLA25A9	outside – painted sheet metal inside - galvanised preformed sheet metal core – steel wool	25 mm	Cut to size	13,8
2TLA040039R2600	JSM YLA25A1	check out art.nr			
		2TLA040037R1100 above	25 mm	1963x1200	13,8
2TLA042150R2300	JSM YLA50A9	check out art.nr 2TLA040037R1100 above	50 mm	Cut to size	21,0
0.44 ** 0.000 4000					

Cut to size - max dimension 2000 x 1200

NOTE!

Mounting profile JSM AS1 used for JSM YLA25A and mounting profile JSM AS3 used for JSM YLA50A_



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Length

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