

Conveyor system X180

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System information



Chain X180



Features

Chain travels on four slide rails. Wide track sideflexing safety chain. Compact horizontal and vertical bends. Suitable for soft packages.

Examples of application areas

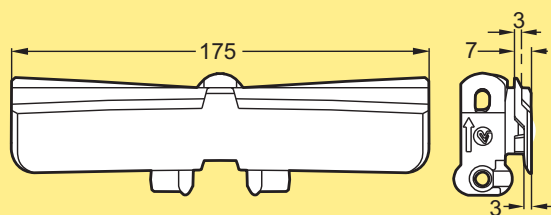
Large cardboard boxes, products in soft plastic bags. Examples: detergent powder, wrapped tissue paper rolls, food products, personal care products.

Technical characteristics

Drive unit capacity	1250 N
Chain tension limit	1250 N
Beam width	182 mm
Chain width	175 mm
Chain pitch	33,5 mm
Recommended item width	70–400 mm
Maximum item weight	15 kg
Maximum weight on conveyor.....	200 kg
Maximum conveyor length	30 m
Maximum permitted load per link	2,5 kg

Chains X180

Plain chain



Plain chain

Length 3 m

Food & Wet applications

XBTP 3A175

XBTPX 3A175

Plain link kit *

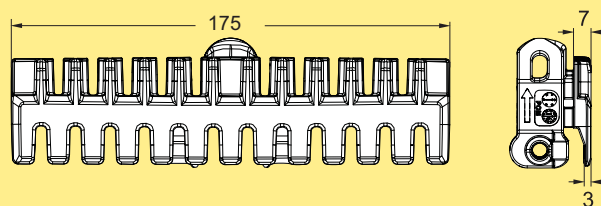
Food & Wet applications

5056651

5122929

**Link kit contains 10 links, 10 pivots, 10 steel pins*

Plain chain



Plain chain

Length 3 m

Food & Wet applications

XBTPX 3A180

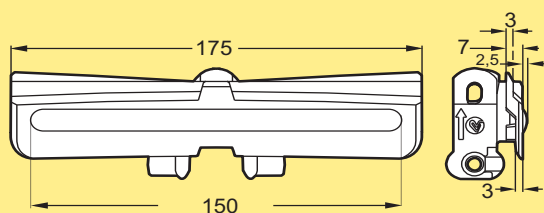
Plain link kit *

Food & Wet applications

5129849

**Link kit contains 10 links, 10 pivots, 10 steel pins*

Friction top chain



Friction top chain

Length 3 m PAR 1

XBTP 3A175 F

Friction top chain

Length 3 m PAR 2-20

XBTP 3A175 FP

Use the online configurator to specify and order.

Friction top link kit *

5056653

**Link kit contains 10 links, 10 pivots, 10 steel pins*

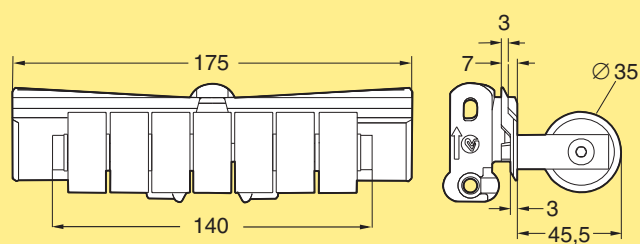
Other chains

See the *Chain guide* for a selection of other chains.

Chain installation

See Appendix C, page 477, for installation instructions.

Roller cleat link



Roller cleat link

XBTL 175x46 R

Roller cleat chain must be ordered as plain chain plus desired number of roller cleat links. Cannot be ordered as chain.

Chain accessories X180

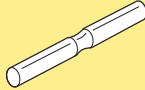
Plastic pivot



Plastic pivot X180-X300 kit
Each kit contains 25 items.

5111169

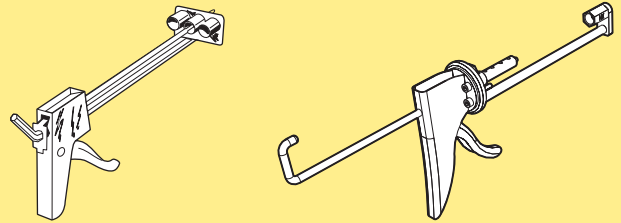
Steel pin



Steel pin -X180-X300 kit
Each kit contains 25 items.

5111172

Pin insertion tool for chain



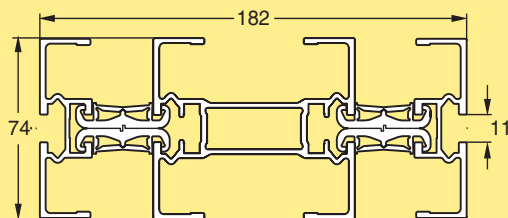
Pin insertion tool
X85-X180-X300
X85-X180-X300-XH, PRO version*

XMMJ 6
XBMJ 6 P

*This tool is recommended for frequent users

Beam components X180

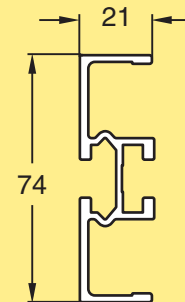
Beam section



Beam section (assembled)
Length 3000 mm
Length to order (500- 3000 mm)
Slide rail: see page 275

XBCB 3A180
XBCB LA180

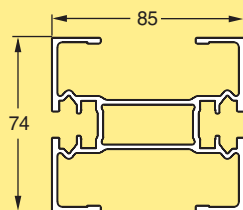
Beam (outer section)



Beam (outer section)
Length 3000 +10/-0 mm
Length to order (500- 3000 mm)

XBCB 3A H
XBCB LA H

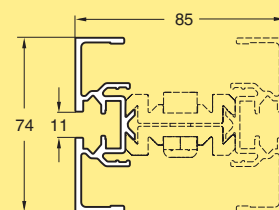
Beam (mid-section)



Beam (mid-section)
Length 3000 +10/-0 mm
Length to order (500- 3000 mm)

XBCB 3A85
XBCB LA85

Profile for split conveyor beam (inner section)

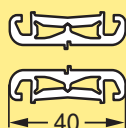


Profile for split conveyor beam
Length 3000 +10/-0 mm
Length to order (500- 3000 mm)

XBCB 3A85 H
XBCB LA85 H

Beam components X180 (continued)

Clip kit for outer beam sections

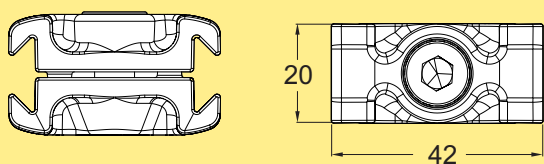


Snap-fit clip kit for outer beam sections

XBCE 40

Each kit contains two clips. For construction of 182 mm wide beam sections. Mounting tool: see below. Maximum distance between clips is 0,5 m.

Beam clip assembly

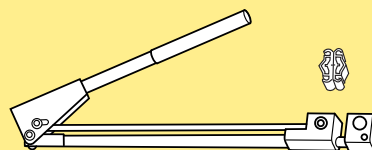


Beam clip assembly

XBCE 42x20 A

Including M8 screw and locking nut. Use minimum 5 clips per meter. Place clips 100 mm from each end. Note. Must be ordered in multiples of 10.

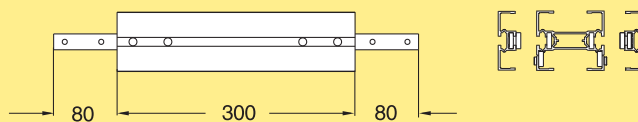
Mounting tool for clip kit



Mounting tool for aluminium clip kit XBCE 40

3923518

Beam section for chain installation

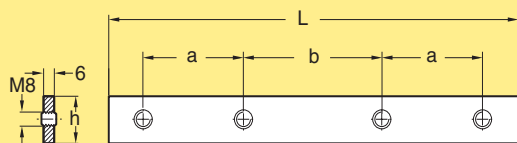


Beam section for chain installation Including connecting strips and screws

XBCC 300A

Beam accessories X180

Connecting strip with set screws

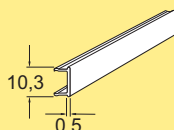


Connecting strip with set screws
h=20, a=44, b=44, L=160

XSCJ 6x160

Note. Must be ordered in multiples of 10

Cover strip for T-slot, PVC

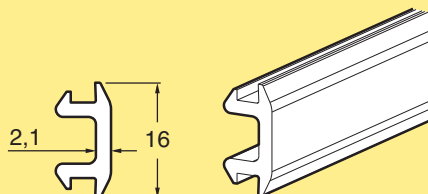


Cover strip for T-slot, grey PVC
Length 3 m

XCAC 3 P

Note! Can't be used with bends

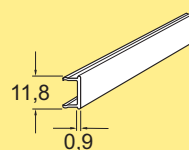
Cover strip for T-slot, PVC



Cover strip for T-slot
Length 25 m
Grey PVC

XCAC 25 P

Cover strip for T-slot, aluminium



Cover strip for T-slot
Aluminium, anodized
Length 2 m

XCAC 2

Note! Can't be used with bends

Slide rails X180

Plastic slide rail for X180/X300 beam



Slide rail

Length 25 m

HDPE (Black)

PA-PE (Grey)

PVDF (Natural white)

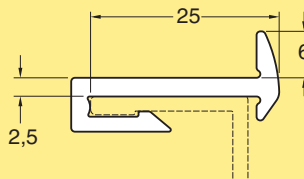
XBCR 25

XBCR 25 H

XBCR 25 P

See Appendix A, page 467 for selection guidelines and assembly instructions.

Plastic slide rail for X180/X300 beam, outer



Slide rail, outer

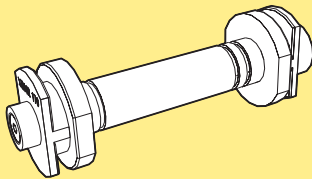
UHMW-PE ($\mu=0,1-0,25$) (White)

Length 3 m

XBCR 3 UA

See Appendix A, page 467 for selection guidelines and assembly instructions.

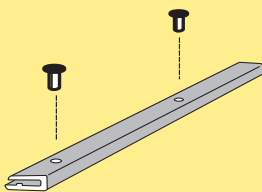
Mounting tool for slide rail, X180/X300



Mounting tool for slide rail

XBMR 170

Aluminium rivets

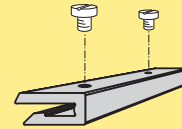


Aluminium rivets 4 mm for XK-X180-X300 conveyors, brown

XLAH 4x7

Extra slide rail in plain bends must be anchored using plastic screws due to lack of space for the rivet crimping tool.
Note. Must be ordered in multiples of 250.

Plastic screws for slide rail



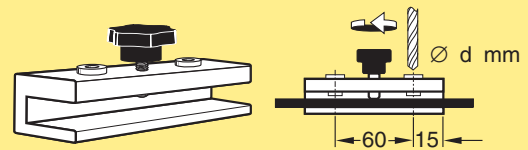
Plastic screws 5 mm for XS-X65-X85-XH-X180-X300 beams

XLAG 5

See mounting instruction "Anchoring slide rail using plastic screws" on page 472

Note. Must be ordered in multiples of 50

Drill fixture for slide rail



Drill fixture for X65-X85-XH-XK-X180-X300 slide rail

d=4,2 mm

3920500

Rivet crimping pliers

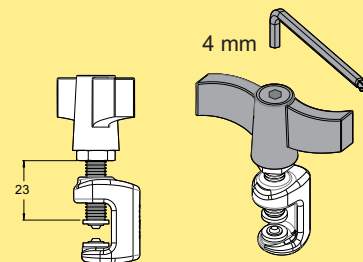


Rivet crimping pliers for X65-X85-XH-XK-X180-X300

For 4 mm rivets

5051395

Rivet crimping clamp



Rivet crimping clamp for X65-X85-XH-XK-X180-X300

For 4 mm rivets

(Allen key not included)

3923005

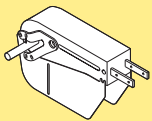
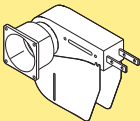
Drive and idler units – introduction

Drive unit types

The X180 system includes direct driven units with or without slip clutch.

Available motors include variable speed types (**V**) as well as fixed speed motors (**F**).

End drive units

Size	Direct drive, no slip clutch	Direct drive, slip clutch
		
Heavy	F, V	F, V
Heavy, guided	F, V	F, V

Motor specifications

Motors are available for 230/400 V, 50 Hz and 230/460 V or 330/575 V, 60 Hz. All motors can be connected for delta or star configuration by means of jumpers.

Variable speed motors are SEW Movimot, 380–500 V. Note that variable speed motors include a control box that adds 93 mm to the width of the motor.

Ordering information

Drive units with motors must be specified using the web-based configurator. The configurator provides detailed information and step-by-step guidance in the specification process. A product code string is generated, containing the specification details. See next page for examples of code strings.

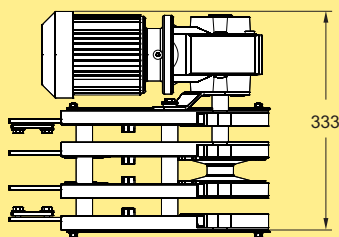
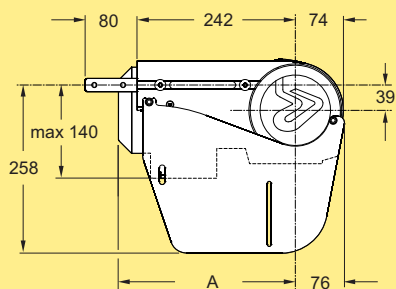
Drive units *without* motors can be ordered using the designations in the catalogue.

Dimension drawings in catalogue

Note that dimensions relating to drive unit motors depend on the motor specified during the configuration. In most cases, the motors shown in the catalogue drawings represent the largest size. If variable speed motors are used, some dimensions may increase, indicated by dimension values xxx (V: yyy). V represents the max dimension using variable speed motor.

End drive units X180, direct drive, no slip clutch

End drive unit, direct drive



End drive unit, direct drive

Fixed speed up to 60 m/min

Variable speed up to 80 m/min

Motor on left side

Fixed/variable speed *

Without motor

XBEB A180

XBEB 0A180HNLP

Motor on right side

Fixed/variable speed *

Without motor

XBEB A180

XBEB 0A180HNRP

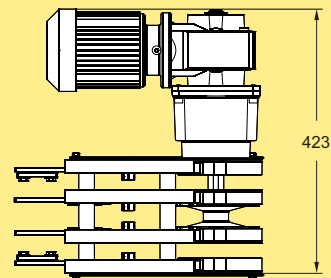
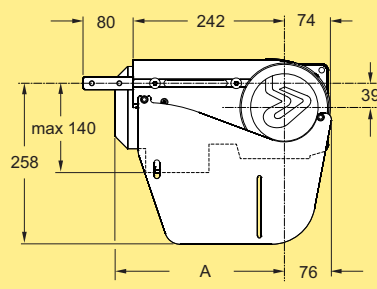
Maximum traction force: 1250 N. See page 22.

Effective track length: 0,80 m

*Use online configurator when ordering.

End drive units X180, direct drive, slip clutch

End drive unit, direct drive, slip clutch



End drive unit, direct drive

Fixed speed up to 60 m/min

Variable speed up to 80 m/min

Motor on left side

Fixed/variable speed *

Without motor

XBEB A180

XBEB 0A180HLP

Motor on right side

Fixed/variable speed *

Without motor

XBEB A180

XBEB 0A180HRP

Maximum traction force: 1250 N. See page 22.

*Use online configurator when ordering.

Effective track length: 0,80 m

PO

CC

X45

XS

X65

X65P

X85

X85P

XH

XK

XKP

X180

X300

GR

CS

XT

WL

WK

XC

XF

XD

ELV

CTL

FST

TR

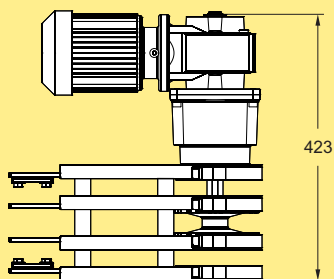
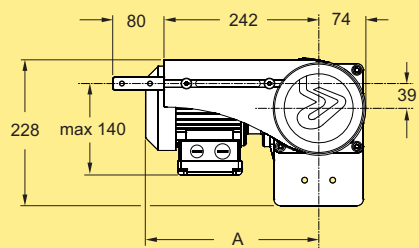
APX

IDX

End drive units X180, direct drive, slip clutch, guided

End drive units X180, direct drive, no slip clutch, guided

End drive unit H, guided chain, slip clutch



End drive unit

Direct drive with guided chain. Adjustable slip clutch.
Maximum traction force: up to 1250 N.
Fixed speeds up to 60 m/min.
Variable speed up to 80 m/min.

Motor on left side:

Fixed/variable speed * **XBEB A180**
Without motor **XBEB 0A180HLGP**

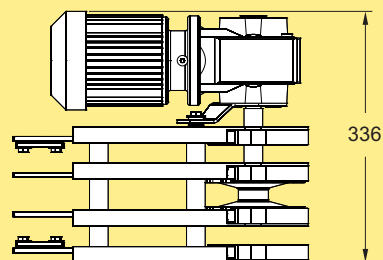
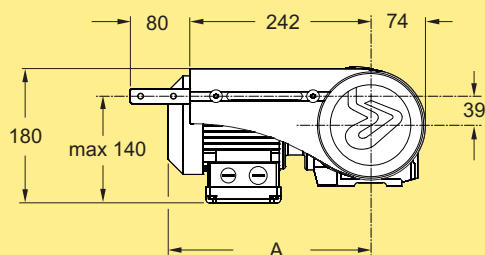
Motor on right side:

Fixed/variable speed * **XBEB A180**
Without motor **XBEB 0A180HRGP**

**Use online configurator when ordering.*

Effective track length: 0,80 m

End drive unit H, guided chain, no slip clutch



End drive unit

Direct drive with guided chain. No slip clutch.
Maximum traction force: up to 1250 N.
Fixed speeds up to 60 m/min.
Variable speed up to 80 m/min.

Motor on left side:

Fixed/variable speed * **XBEB A180**
Without motor **XBEB 0A180HNLGP**

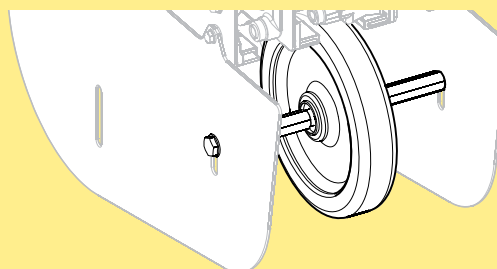
Motor on right side:

Fixed/variable speed * **XBEB A180**
Without motor **XBEB 0A180HNRGP**

**Use online configurator when ordering.*

Effective track length: 0,80 m

Guide wheel kit 180



Guide wheel for drive units **5114932**

Including wheel, shaft and mounting hardware.

Note. Can only be used with plain chain. For use in high speed operation (60 m/min and above).

Idlers X180

PO

CC

X45

XS

X65

X65P

X85

X85P

XH

XK

XKP

X180

X300

GR

CS

XT

WL

WK

XC

XF

XD

ELV

CTL

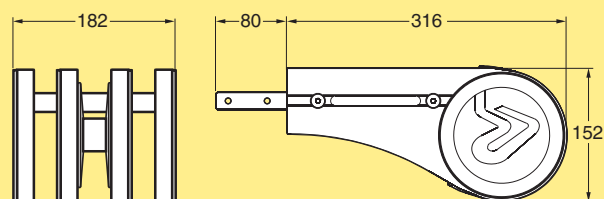
FST

TR

APX

IDX

Idler end unit

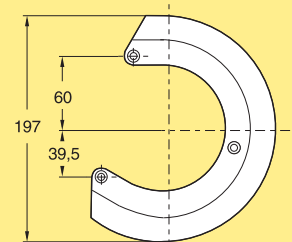


Idler end unit

XBEJ A180

Effective track length: 0,80 m

Protective cover for idler end unit

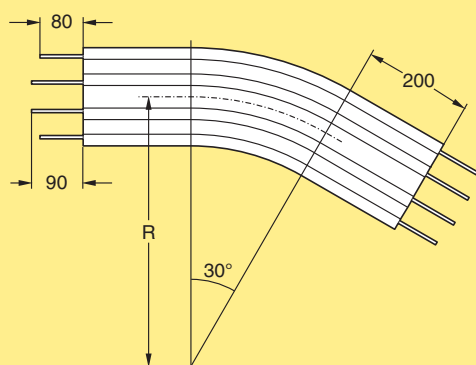


Protective cover for idler end unit

XBSJ 197A180

Plain bends X180

Plain bend, 30°



Plain bend, 30°±1°

R=500±10 mm

R=700±10 mm

R=1000±10 mm

XBBP 30A180R5
XBBP 30A180R7
XBBP 30A180R10

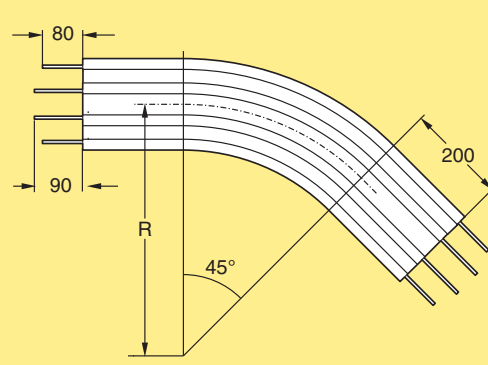
Effective track lengths:

R500: 1,35 m (top+bottom)

R700: 1,55 m (top+bottom)

R1000: 1,85 m (top+bottom)

Plain bend, 45°



Plain bend, 45°±1°

R=500±10 mm

R=700±10 mm

R=1000±10 mm

XBBP 45A180R5
XBBP 45A180R7
XBBP 45A180R10

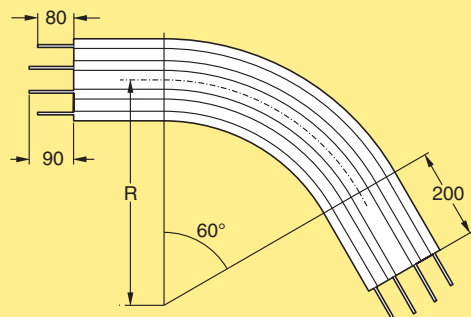
Effective track lengths:

R500: 1,60 m (top+bottom)

R700: 1,90 m (top+bottom)

R1000: 2,40 m (top+bottom)

Plain bend, 60°



Plain bend, 60°±1°

R=500±10 mm

R=700±10 mm

R=1000±10 mm

XBBP 60A180R5
XBBP 60A180R7
XBBP 60A180R10

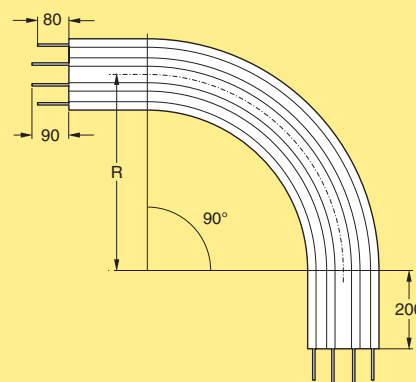
Effective track lengths:

R500: 1,85 m (top+bottom)

R700: 2,30 m (top+bottom)

R1000: 2,90 m (top+bottom)

Plain bend, 90°



Plain bend, 90°±1°

R=500±10 mm

R=700±10 mm

R=1000±10 mm

XBBP 90A180R5
XBBP 90A180R7
XBBP 90A180R10

Effective track lengths:

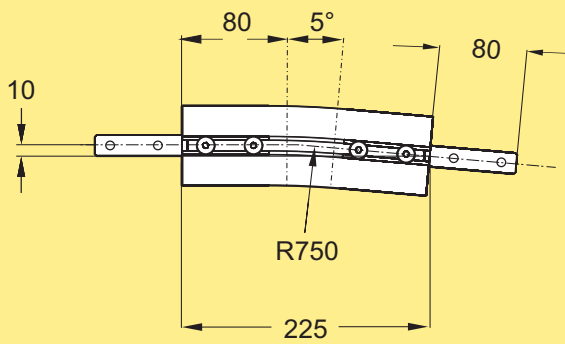
R500: 2,40 m (top+bottom)

R700: 3,00 m (top+bottom)

R1000: 3,95 m (top+bottom)

Vertical bends X180

Vertical bend, 5°

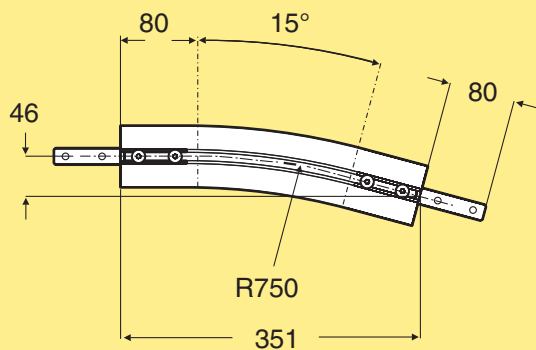


Vertical bend, 5°

XBBV 5A180R750

Four outer section beam pieces, unassembled.
Effective track length: 0,50 m (top+bottom)

Vertical bend, 15°

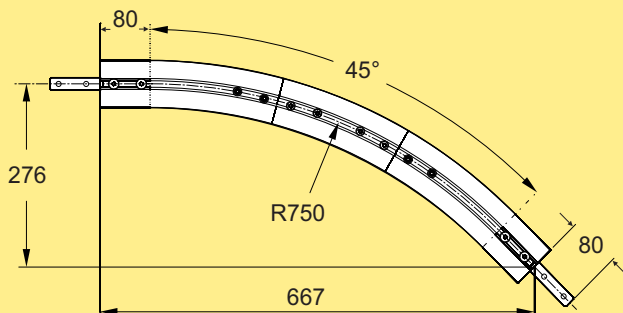


Vertical bend, 15°

XBBV 15A180R750

Four outer section beam pieces, unassembled.
Effective track length: 0,75 m (top+bottom)

Vertical bend, 45°



Vertical bend, 45°

XBBV 45A180R750

Four outer section beam pieces, unassembled.
Effective track length: 1,5 m (top+bottom)