

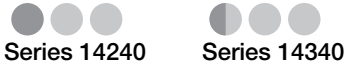
14240
14340



e-chain system® E4 light Series 14240/14340



Price Index



Special Features / Options

ESD classification:
Electrically conductive ESD/
ATEX version upon request

High torsional rigidity

Side-mounted - unsupported

Assembly Tips



Opening e-chains®: Remove crossbars and clips - Insert screwdriver into the slot, push down, release by lever action

Other Installation Methods

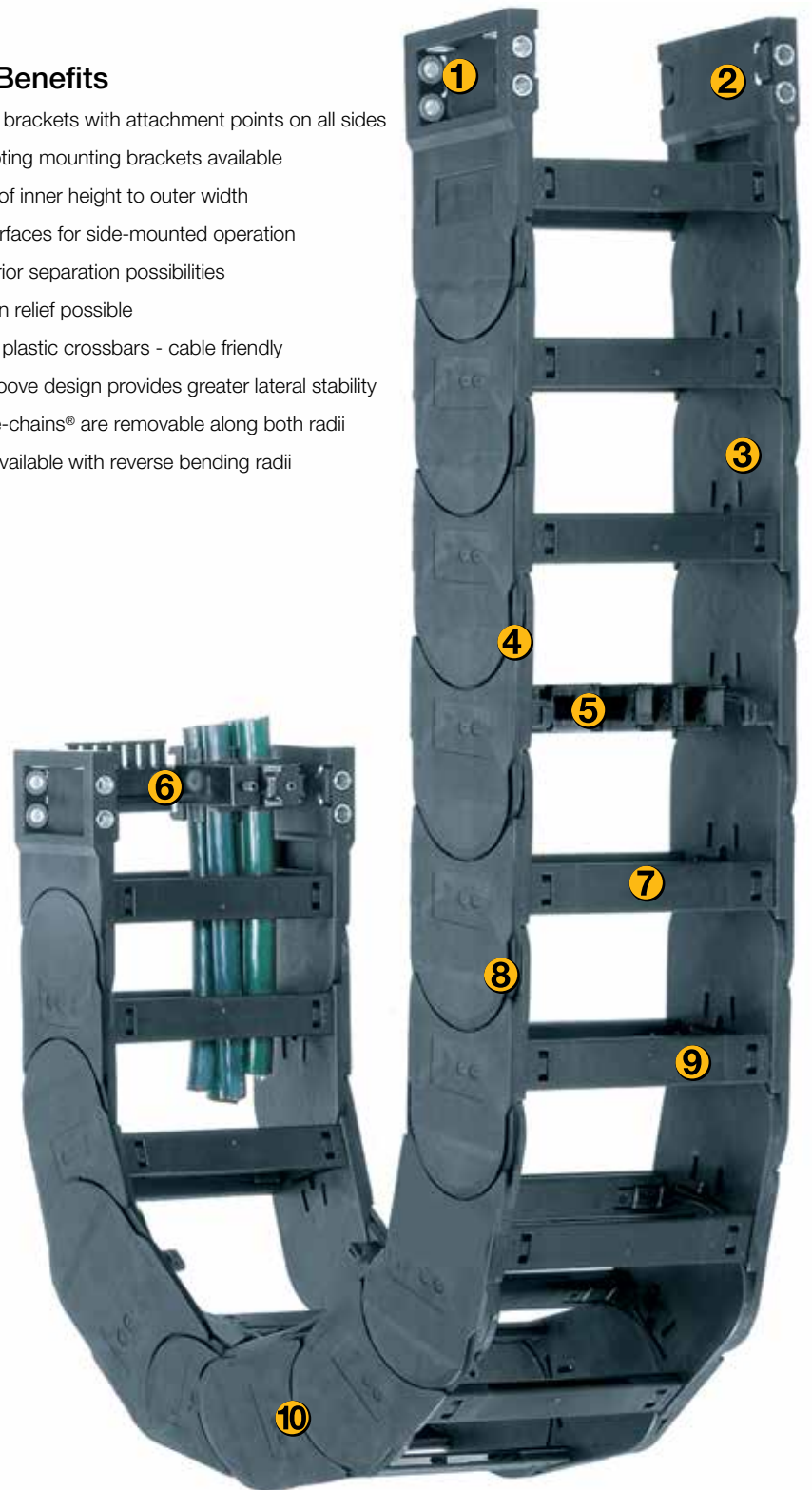
- Vertical, hanging ≤ 262 ft (80 m)
- Vertical, standing ≤ 19.69 ft (6 m)
- Side-mounted, un supp. ≤ 6.56 ft (2 m)
- Rotary requires further calculation

Usage Guidelines

- If a simpler low-cost solution is required
- If optimized interior space is required
- If the Series 400 is too large
- If a quieter version is required
 - Series E6-62
- If side-mounted chain/tube with a long unsupported travel is required
 - Series E4-56/H4-56/R4-56
- If increased unsupported lengths and longer travels are required
 - Series E4-56/H4-56/R4-56
- If high fill weights and/or stiff cables and hoses are used
 - Series 14040
- If chip protection is necessary
 - Series 18840

Features & Benefits

- 1 KMA mounting brackets with attachment points on all sides
- 2 Locking or pivoting mounting brackets available
- 3 Optimum ratio of inner height to outer width
- 4 Lateral glide surfaces for side-mounted operation
- 5 Numerous interior separation possibilities
- 6 Integrated strain relief possible
- 7 Wide, rounded plastic crossbars - cable friendly
- 8 Tongue and groove design provides greater lateral stability
- 9 Crossbars on e-chains® are removable along both radii
- 10 e-chain® also available with reverse bending radii



Order Example: Complete e-chain®

Please indicate chain length or number of links. Example:

19.69 ft (6 m) **14240-30-300-0**

e-chain®

With 2 separators **62.1.1** assembled every 2nd link

Interior Separation

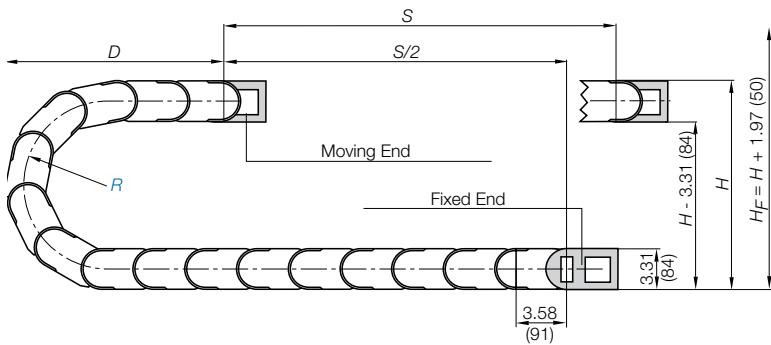
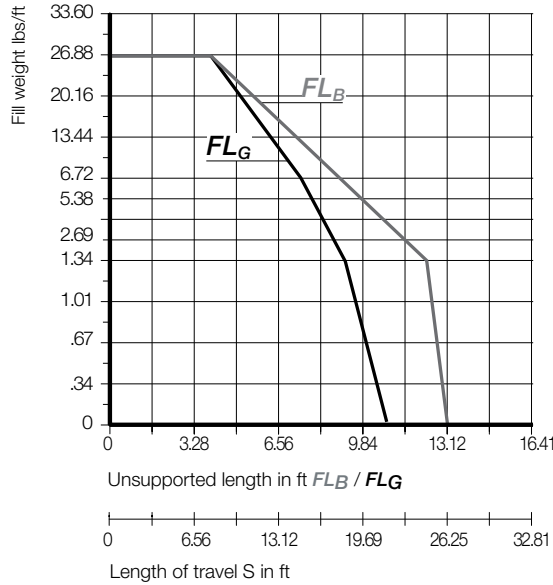
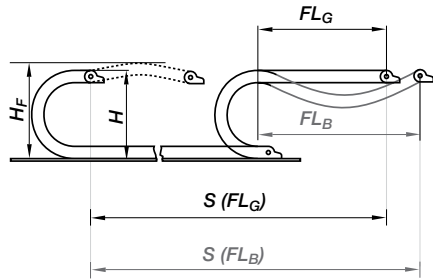
1 Set **142400-30-12P**

Mounting Bracket

e-chain system® E4 light Series 14240/14340 Installation Dimensions

Short travel, unsupported length

- FL_B = unsupported with permitted sag
 - FL_G = unsupported with straight upper run
- Further information ► Design, Chapter 1



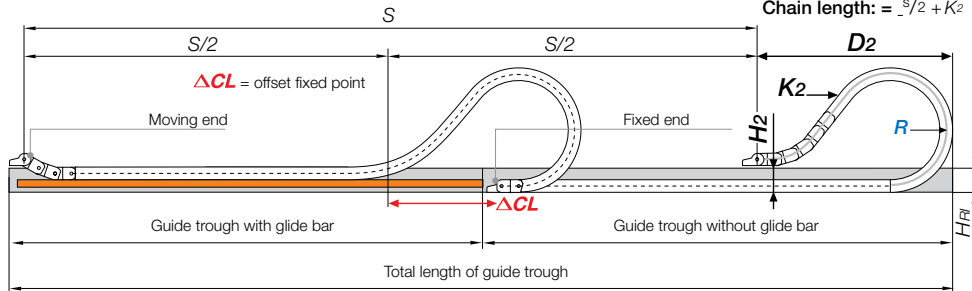
Pitch per link = 3.58" (91 mm)
Links per ft (m) = 3.35 (11)
For center mount applications:
Chain length = $\frac{S}{2} + K$

The required clearance height: $H_F = H + 1.97$ in. (50 mm) (with 1.34 lbs/ft (2 kg/m) fill weight. Please consult igus® if space is particularly restricted.

R	5.31 (135)	5.91 (150)	6.89 (175)	7.87 (200)	9.84 (250)	11.81 (300)	15.75 (400)	19.68 (500)
H_{25}	14.17 (360)	15.16 (385)	17.13 (435)	19.09 (485)	23.03 (585)	26.97 (685)	34.84 (885)	42.72 (1085)
D	10.63 (270)	11.22 (285)	12.20 (310)	13.19 (335)	15.16 (385)	17.13 (435)	21.06 (535)	25.00 (635)
K	25.59 (650)	29.53 (750)	32.48 (825)	35.43 (900)	41.34 (1050)	48.23 (1225)	57.09 (1450)	69.88 (1775)

For long travels with lowered mounting height

Long travel lengths from 32.8 ft.(10m) to max. 492 ft. (150m)



For center mount applications:
Chain length = $\frac{S}{2} + K_2$

R	5.31 (135)	5.91 (150)	6.89 (175)	7.87 (200)	9.84 (250)	11.81 (300)	15.75 (400)	19.68 (500)
H_2	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)	10.47 (266)
D_{25}	15.35 (390)	17.72 (450)	20.87 (530)	27.95 (710)	36.22 (920)	44.09 (1120)	60.24 (1530)	72.05 (1830)
K_2	28.66 (728)	32.24 (819)	39.41 (1001)	50.16 (1274)	64.49 (1638)	75.23 (1911)	100.31 (2548)	125.39 (3185)
ΔCL	4.88 (124)	6.26 (159)	8.22 (209)	14.13 (359)	20.04 (509)	25.94 (659)	37.76 (959)	45.63 (1159)

Speed / acceleration FL_G	max. 65.6 ft/s (20 m/s) / max. 656 ft/s ² (200 m/s ²)
Speed / acceleration FL_B	max. 9.84 ft/s (3 m/s) / max. 19.69 ft/s ² (6 m/s ²)
Gliding speed / acceleration (maximum)	max. 32.8 ft/s (10 m/s) / max. 164 ft/s ² (50 m/s ²)
Material - permitted temperature	igumid G / -40°F (-40°C) up to +248°F (+120°C)
Flammability Class, igumid G	VDE 0304 IIC UL94 HB



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Short Travels - Unsupported



Unsupported e-chains® feature positive camber over short travels. This must be accounted for when specifying the clearance height. Please refer to **Installation dimensions** for further details.

Legend

- S = Length of travel
 - R = Bending radius
 - H = Nominal clearance height
 - D = Overlength e-chain® radius in final position
 - $K = \pi \cdot R + \text{safety buffer}$
 - H_F = Required clearance height
 - H_{in} = Trough inner height
 - H_2 = *Mounting height
 - D_2 = Overlength - long travels, gliding
 - K_2 = *Add-on
- *If the mounting bracket location is set lower



PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains

Long Travels - Gliding



If the unsupported length is exceeded, the e-chain®/ Tube must glide on itself. This requires a guide trough.

Design, Chapter 1



For support of the lower run, see **Chapter 9** of the main catalog for the **Support Tray tool kit**

Technical Data

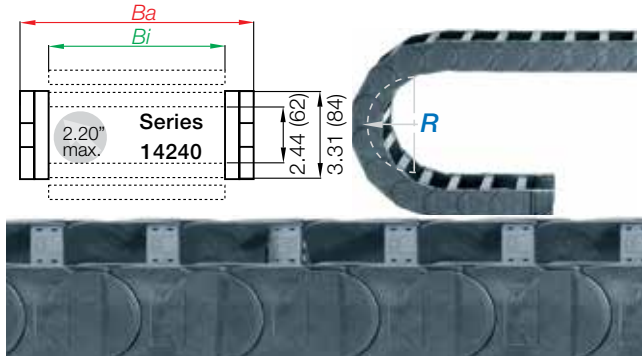


Details of material properties

► Chapter 1

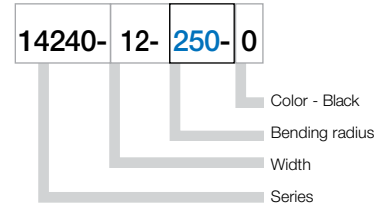


Series 14240 - e-chain® with crossbars every link

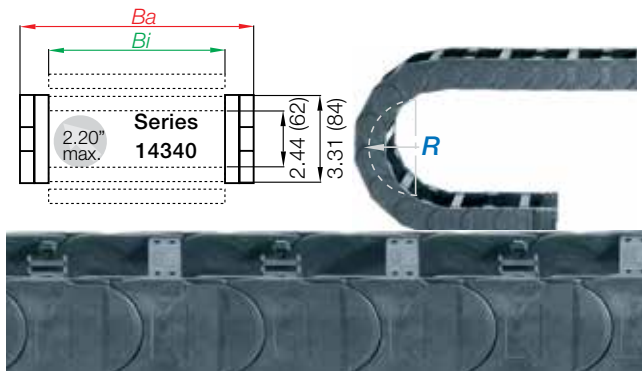


- Crossbars every link
- For use with rigid hydraulic hoses
- For particularly demanding applications
- Can be opened from both sides

Part Number Structure

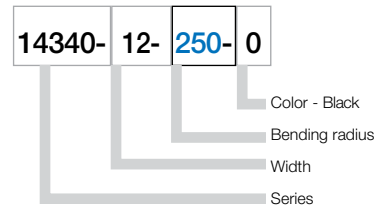


Series 14340 - e-chain® with crossbars every other link



- Crossbars every other link - Standard configuration
- For nearly every situation
- Can be opened from both sides
- Easy assembly
- Stable
- Cost-effective

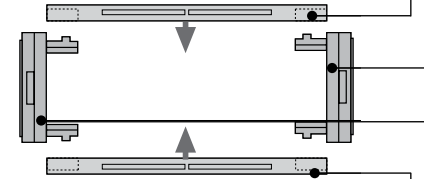
Part Number Structure



e-chain® as separate parts, links and side plates

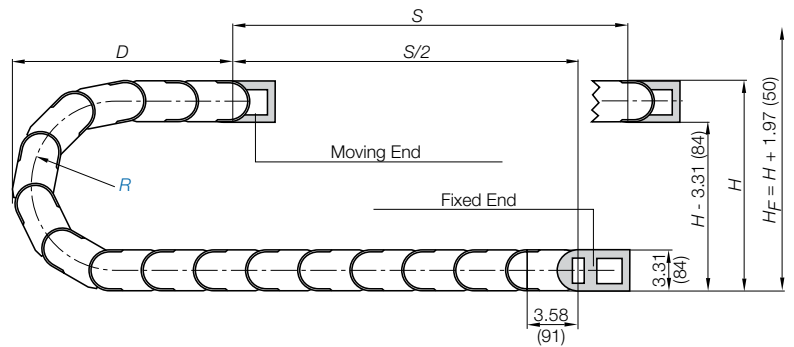
Right side link*, single part - Part No. 14240-02-R

Single crossbar, e-chain® - Part No. 385-Bi



Single crossbar, e-chain® - Part No. 385-Bi

Left side link*, single part - Part No. 14240-01-R



*View from the fixed point of the e-chain®/e-tube

e-chain system® E4 light

Series 14240/14340

Supplement part number with required radius. Example: 14040-30-300-0

Pitch: 3.58 in. (91mm) per link links/ft (m) = 3.35 (11)



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Part Number.				<i>Bi</i>	<i>Ba</i>	14240	14340
Crossbars	Crossbars			in. (mm)	in. (mm)	lbs/ft (kg/m)	lbs/ft (kg/m)
Every link	Every other						
14240-05-	14340-05-	<input type="checkbox"/>	-0	1.97 (50)	2.99 (76)	≈1.59 (2.37)	≈ 1.56 (2.32)
14240-06-	14340-06-	<input type="checkbox"/>	-0	2.68 (68)	3.70 (94)	≈ 1.61 (2.40)	≈ 1.57 (2.33)
14240-07-	14340-07-	<input type="checkbox"/>	-0	2.95 (75)	3.98 (101)	≈ 1.63 (2.42)	≈ 1.57 (2.34)
14240-087-	14340-087-	<input type="checkbox"/>	-0	3.43 (87)	4.49 (114)	≈ 1.66 (2.47)	≈ 1.59 (2.36)
14240-10-	14340-10-	<input type="checkbox"/>	-0	3.94 (100)	4.96 (126)	≈ 1.69 (2.52)	≈ 1.61 (2.39)
14240-11-	14340-11-	<input type="checkbox"/>	-0	4.25 (108)	5.28 (134)	≈ 1.71 (2.55)	≈ 1.61 (2.40)
14240-112-	14340-112-	<input type="checkbox"/>	-0	4.41 (112)	5.47 (139)	≈ 1.71 (2.55)	≈ 1.62 (2.41)
14240-12-	14340-12-	<input type="checkbox"/>	-0	4.92 (125)	5.94 (151)	≈ 1.76 (2.62)	≈ 1.64 (2.44)
14240-137-	14340-137-	<input type="checkbox"/>	-0	5.39 (137)	6.46 (164)	≈ 1.79 (2.66)	≈ 1.65 (2.46)
14240-15-	14340-15-	<input type="checkbox"/>	-0	5.91 (150)	6.93 (176)	≈ 1.83 (2.72)	≈ 1.67 (2.49)
14240-162-	14340-162-	<input type="checkbox"/>	-0	6.38 (162)	7.44 (189)	≈ 1.83 (2.73)	≈ 1.67 (2.49)
14240-17-	14340-17-	<input type="checkbox"/>	-0	6.61 (168)	7.64 (194)	≈ 1.88 (2.79)	≈ 1.69 (2.52)
14240-18-	14340-18-	<input type="checkbox"/>	-0	6.89 (175)	7.91 (201)	≈ 1.90 (2.82)	≈ 1.70 (2.53)
14240-187-	14340-187-	<input type="checkbox"/>	-0	7.36 (187)	8.43 (214)	≈ 1.91 (2.84)	≈ 1.71 (2.55)
14240-20-	14340-20-	<input type="checkbox"/>	-0	7.87 (200)	8.90 (226)	≈ 1.94 (2.89)	≈ 1.73 (2.58)
14240-212-	14340-212-	<input type="checkbox"/>	-0	8.35 (212)	9.41 (239)	≈ 1.98 (2.95)	≈ 1.75 (2.60)
14240-23-	14340-23-	<input type="checkbox"/>	-0	8.86 (225)	9.88 (251)	≈ 2.02 (3.01)	≈ 1.77 (2.63)
14240-237-	14340-237-	<input type="checkbox"/>	-0	9.33 (237)	10.39 (264)	≈ 2.04 (3.04)	≈ 1.78 (2.65)
14240-25-	14340-25-	<input type="checkbox"/>	-0	9.84 (250)	10.87 (276)	≈ 2.08 (3.10)	≈ 1.80 (2.68)
14240-262-	14340-262-	<input type="checkbox"/>	-0	10.31 (262)	11.38 (289)	≈ 2.09 (3.11)	≈ 1.81 (2.69)
14240-28-	14340-28-	<input type="checkbox"/>	-0	10.83 (275)	11.85 (301)	≈ 2.14 (3.19)	≈ 1.83 (2.72)
14240-29-	14340-29-	<input type="checkbox"/>	-0	11.30 (287)	12.36 (314)	≈ 2.15 (3.20)	≈ 1.83 (2.73)
14240-30-	14340-30-	<input type="checkbox"/>	-0	11.81 (300)	12.83 (326)	≈ 2.22 (3.30)	≈ 1.87 (2.78)
14240-312-	14340-312-	<input type="checkbox"/>	-0	12.28 (312)	13.35 (339)	≈ 2.22 (3.31)	≈ 1.88 (2.79)
14240-325-	14340-325-	<input type="checkbox"/>	-0	12.79 (325)	13.82 (351)	≈ 2.26 (3.37)	≈ 1.89 (2.81)
14240-337-	14340-337-	<input type="checkbox"/>	-0	13.27 (337)	14.33 (364)	≈ 2.28 (3.40)	≈ 1.90 (2.83)
14240-350-	14340-350-	<input type="checkbox"/>	-0	13.78 (350)	14.80 (376)	≈ 2.39 (3.56)	≈ 1.96 (2.91)
14240-362-	14340-362-	<input type="checkbox"/>	-0	14.25 (362)	15.31 (389)	≈ 2.43 (3.61)	≈ 1.97 (2.93)
14240-375-	14340-375-	<input type="checkbox"/>	-0	14.76 (375)	15.79 (401)	≈ 2.45 (3.64)	≈ 1.98 (2.95)
14240-387-	14340-387-	<input type="checkbox"/>	-0	15.24 (387)	16.30 (414)	≈ 2.48 (3.69)	≈ 2.00 (2.97)
14240-400-	14340-400-	<input type="checkbox"/>	-0	15.75 (400)	16.77 (426)	≈ 2.51 (3.73)	≈ 2.00 (2.99)

Choose from the radii below for all of the above sizes

Radius (mm) Example: 14240-30-300-0

	135	150	175	200	250	300	400	500
R	5.31 (135)	5.91 (150)	6.89 (175)	7.87 (200)	9.84 (250)	11.81 (300)	15.75 (400)	19.68 (500)
H $\frac{3}{16}$	14.17 (360)	15.16 (385)	17.13 (435)	19.09 (485)	23.03 (585)	26.97 (685)	34.84 (885)	42.72 (1085)
D	10.63 (270)	11.22 (285)	12.20 (310)	13.19 (335)	15.16 (385)	17.13 (435)	21.06 (535)	25.00 (635)
K	25.59 (650)	29.53 (750)	32.48 (825)	35.43 (900)	41.34 (1050)	48.23 (1225)	57.09 (1450)	69.88 (1775)

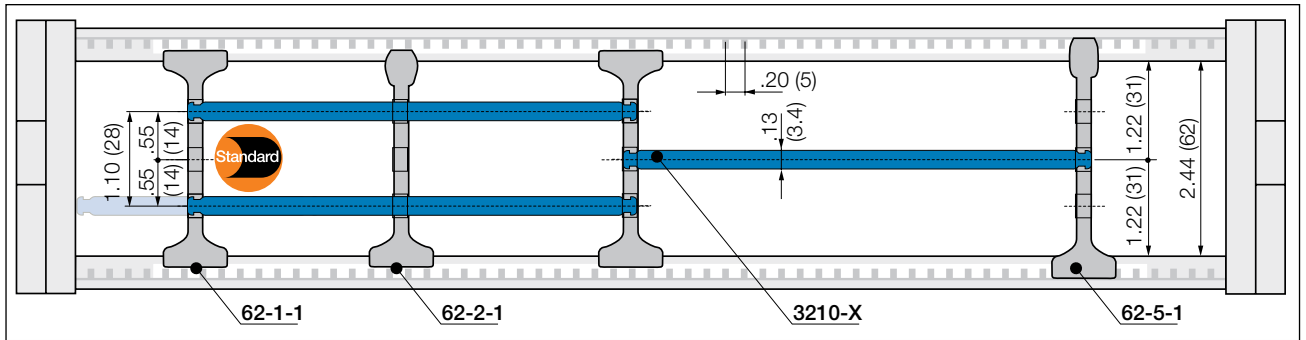
*Removable lid only, no hinged option

0=Standard color black. For other colors see Chapter 1

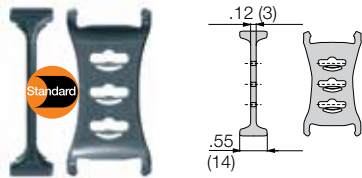
For large diameter hoses see page 6.212

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains





In the standard configuration separators are assembled every 2nd e-chain® link

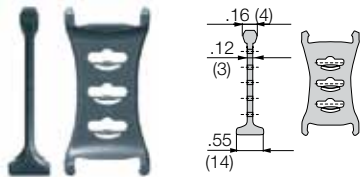


Separator, wide base

Unassembled **Part No. 62-1**
Assembled **Part No. 62-1-1**

● **Standard separator 62-1 for all applications**

Separator with wide base for maximum locking strength and safe standing in e-chains®.

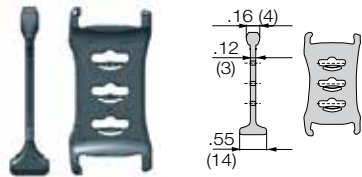


Separator for QuickLock crossbar

Unassembled **Part No. 62-2**
Assembled **Part No. 62-2-1**

● **Separator 62-2 For even faster installation**

Separator for igus® QuickLock crossbar 385-X-Q. Firm hold to one side with a wide base, narrow on opposed side for easy cable assembly (slight grip)



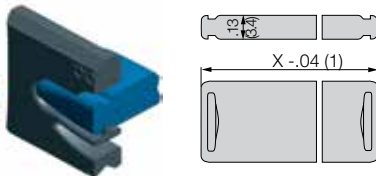
Notch separator for notch crossbar

Unassembled **Part No. 62-5**
Assembled **Part No. 62-5-1**

● **Separator 62-5**

Locks safely in .20" (5 mm) increments
Notch separator for exact positioning in e-chains®. Recommended for side mounted applications.

Lockable full-width shelves - for the standard interior separation



Full width shelf, lockable

Unassembled **Part No. 3200-X**
Assembled **Part No. 3210-X**

● **Full width shelf, lockable**

Shelf locks into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Can be arranged at 3 different heights.

Width X in. (mm)	Part No. Unassembled	Part No. Assembled	Width X in. (mm)	Part No. Unassembled	Part No. Assembled
1.97 (050)	3200-50	3210-50	5.91 (150)	3200-150	3210-150
2.95 (075)	3200-75	3210-75	6.89 (175)	3200-175	3210-175
3.94 (100)	3200-100	3210-100	7.87 (200)	3200-200	3210-200
4.53 (115)	3200-115	3210-115	8.86 (225)	3200-225	3210-225
4.92 (125)	3200-125	3210-125	9.84 (250)	3200-250	3210-250

e-chain system® E4 light

Series 14240/14340

Interior Separation - Previous Generation

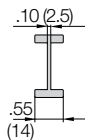
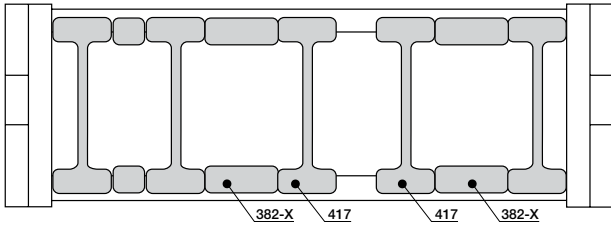


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Option 1: Vertical separators and spacers

Vertical separators are used if a vertical subdivision of the e-chain® interior is required. By standard, vertical separators are assembled every other e-chain® link.

NOTE: Observe a lateral spacing of at least 1.30 in. (33mm) for e-tubes and .63 in. (16mm) for e-chain®. There is no minimum spacing needed for side plates



Vertical separator

Unassembled	Part No. 407
Assembled	Part No. 417

- **Standard separator 407 for e-chains® and e-tubes**
This separator offers safe stability due to its wide base design, also when used with thick cables or hoses.



Spacer (chain only)

Unassembled	Part No. 381-XX
Assembled	Part No. 382-XX

XX = width of the spacer

- **NOTE ON SPACERS**
Vertical separators are adjustable, but can be fixed in position by means of a spacer. Spacers are most often necessary for side mounted applications.
The available inner height is reduced by .08" (2mm) **per spacer** (for example if one spacer is placed on either side of the separator, the overall inner height is reduced by .16" (4mm). To avoid this, place the spacers on the **outside** of the opening crossbar (**not for long travels**).

Spacers available in the following sizes:

Part No. Unassembled	Part No. Assembled	in.	(mm)
381-10	382-10	.39"	(10)
381-15	382-15	.59"	(15)
381-20	382-20	.79"	(20)

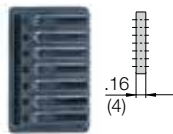
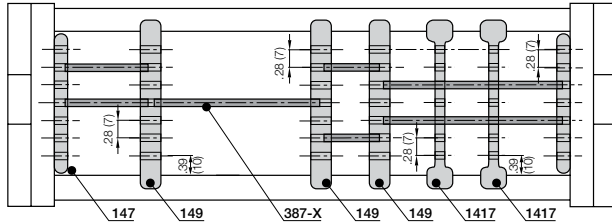
PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Option 2: Shelves

e-chains® and e-tubes can be subdivided both vertically and horizontally using the various interior separation elements.

► **Design, Chapter 1** for layout recommendations.

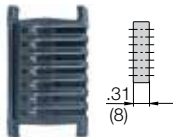


Side plate

Unassembled	Part No. 146
Assembled	Part No. 147

● **Side plates 146**

This component is used to form the basic pattern of a shelf system.

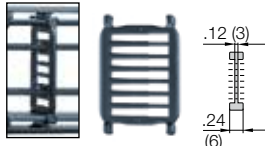


Vertical separator

Unassembled	Part No. 148
Assembled	Part No. 149

● **Vertical separator 148**

This component is used to form the basic pattern of a shelf system.



Slotted separators, closed

Unassembled	Part No. 1407
Assembled	Part No. 1417

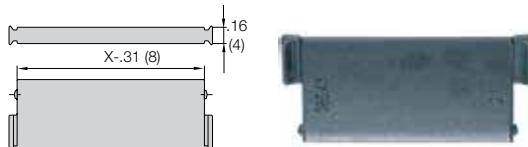
● **Slotted separators 1407**

These are used for very complex subdivisions. However, they cannot be retrofitted into an existing separation system without removing the shelves first.

Shelves 420-XX

These components form the basic pattern of a shelf system.

Shelves of various widths can be arranged at 7 different heights in .28" (7mm) increments



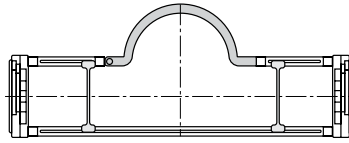
Width X in. (mm)	Usable Width in. (mm)	Part No. Unassembled	Part No. Assembled	Width X in. (mm)	Usable Width in. (mm)	Part No. Unassembled	Part No. Assembled
.71 (18)	.39 (10)	386-18	387-18	2.95 (75)	2.64 (67)	386-75	387-75
.91 (23)	.59 (15)	386-23	387-23	3.43 (87)	3.11 (79)	386-87	387-87
.98 (25)	.67 (17)	386-25	387-25	3.94 (100)	3.62 (92)	386-100	387-100
1.10 (28)	.79 (20)	386-28	387-28	4.25 (108)	3.94 (100)	386-108	387-108
1.30 (33)	.98 (25)	386-33	387-33	4.92 (125)	4.61 (117)	386-125	387-125
1.69 (43)	1.38 (35)	386-43	387-43	5.91 (150)	5.59 (142)	386-150	387-150
1.97 (50)	1.65 (42)	386-50	387-50	6.89 (175)	6.57 (167)	386-175	387-175
2.13 (54)	1.81 (46)	386-54	387-54	7.87 (200)	7.56 (192)	386-200	387-200
2.44 (62)	2.13 (54)	386-62	387-62	8.19 (208)	7.87 (200)	386-208	387-208



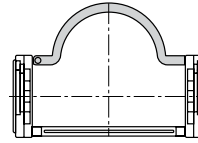
Consult igus® for your extender crossbar applications. We will be happy to assist you with your design layout.

Extender crossbars - For careful guiding of large diameter cables and hoses

- Intended for cables and hoses with a maximum outer diameter of 4.53 in. (115 mm).
- Gliding operation with crossbars assembled along the outer radius in conjunction with a special guide trough
- Gliding operation not guaranteed with crossbars assembled along the inner radius
- The extender crossbar can either be attached to the side links directly or can be used in combination with two standard snap-open crossbars.



Round extender crossbar combined with standard snap-open crossbars.

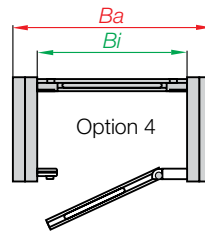
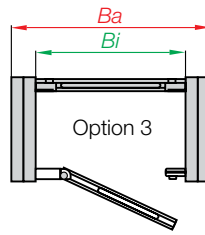
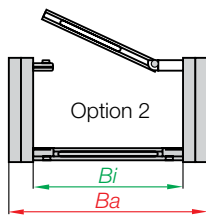
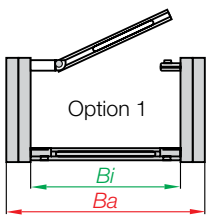


Attached directly to the side link.

Part No.	Max Ø Hose in. (mm)	Style	Installation Side Link	Combined with Snap-Open Crossbars
385-15-RHD115	4.53 (115)	Round	No	Yes
385-18-RD115	4.53 (115)	Round	Yes	No

Hinged crossbars

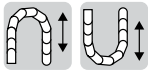
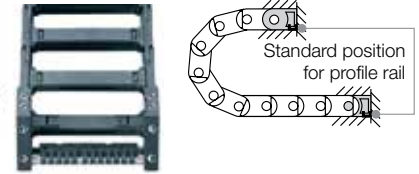
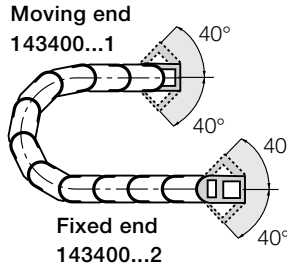
- Typically, e-chain® crossbars are completely removable. In cases where it is preferable that the opening crossbars remain on the e-chain®, a hinged design has been developed.
- Please consult igus® for design assistance





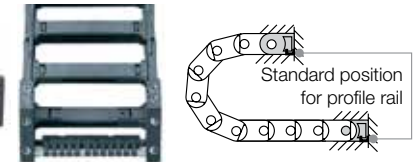
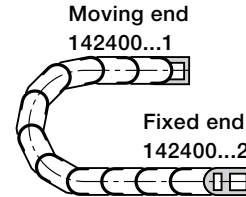
Option 1: KMA pivoting

- Profile rail option
- Universal use
- Corrosion resistant
- Short and long travels
- Space-restricted conditions

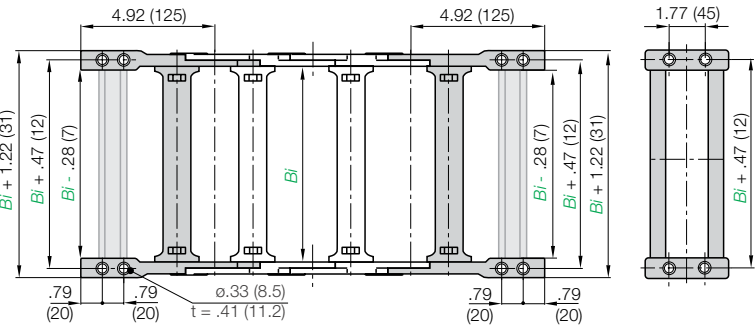
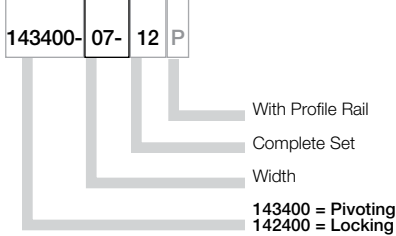


Option 2: KMA locking

- Profile rail option
- Universal use
- Corrosion resistant
- Extreme accelerations
- Vertical hanging/standing travels



Part Number Structure



Full set, for both ends:

143400-05-12 Full set, each part with pin/bore

Single-part order:

143400-05-1 Mounting bracket with bore
143400-05-2 Mounting bracket with pin

Part number examples are shown for pivoting brackets. For locking brackets change part number to 142400

Part No. Full Set (pivoting)
Series 14240 or 14340:
143400-Width-12

Part No. Full Set (pivoting)
with profile rail
Series 14240 or 14340
143400-Width-12P

Width	Part No. Full Set		With Profile Rail	Bi in. (mm)	Width	Part No. Full Set		With Profile Rail	Bi in. (mm)
	Pivoting	Locking			Pivoting	Locking			
-05	143400	142400	-05-12 P	1.97 (50)	-23	143400	142400	-23-12 P	8.86 (225)
-06	143400	142400	-06-12 P	2.68 (68)	-237	143400	142400	-237-12 P	9.33 (237)
-07	143400	142400	-07-12 P	2.95 (75)	-25	143400	142400	-25-12 P	9.84 (250)
-087	143400	142400	-087-12 P	3.43 (87)	-262	143400	142400	-262-12 P	10.31 (262)
-10	143400	142400	-10-12 P	3.94 (100)	-28	143400	142400	-28-12 P	10.83 (275)
-11	143400	142400	-11-12 P	4.25 (108)	-29	143400	142400	-29-12 P	11.30 (287)
-112	143400	142400	-112-12 P	4.41 (112)	-30	143400	142400	-30-12 P	11.81 (300)
-12	143400	142400	-12-12 P	4.92 (125)	-312	143400	142400	-312-12 P	12.28 (312)
-137	143400	142400	-137-12 P	5.39 (137)	-325	143400	142400	-325-12 P	12.79 (325)
-15	143400	142400	-15-12 P	5.91 (150)	-337	143400	142400	-337-12 P	13.27 (337)
-162	143400	142400	-162-12 P	6.38 (162)	-350	143400	142400	-350-12 P	13.78 (350)
-17	143400	142400	-17-12 P	6.61 (168)	-362	143400	142400	-362-12 P	14.25 (362)
-18	143400	142400	-18-12 P	6.89 (175)	-375	143400	142400	-375-12 P	14.76 (375)
-187	143400	142400	-187-12 P	7.36 (187)	-387	143400	142400	-387-12 P	15.24 (387)
-20	143400	142400	-20-12 P	7.87 (200)	-400	143400	142400	-400-12 P	15.75 (400)
-212	143400	142400	-212-12 P	8.35 (212)					

e-chain system® E4 light

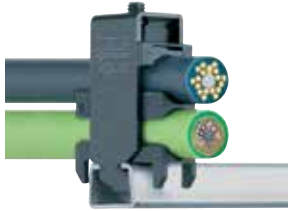
Series 14240/14340

Strain Relief



14240
14340

Chainfix clamps for the profile rail



igus® Chainfix strain relief elements are available in either steel or stainless steel. They can be adjusted with a hexagon socket and are available in single, double and triple configurations.

Part No. Single Clamp		Part No. Double Clamp		Part No. Triple Clamp		Cable ø	
Steel	Stainless	Steel	Stainless	Steel	Stainless	in.	(mm)
CFX12-1	CFX12-1E	CFX12-2	CFX12-2E	CFX12-3	-	.24 - .47	(6 - 12)
CFX14-1	CFX14-1E	CFX14-2	CFX14-2E	CFX14-3	-	.47 - .55	(12 - 14)
CFX16-1	CFX16-1E	CFX16-2	CFX16-2E	CFX16-3	-	.55 - .63	(14 - 16)
CFX18-1	CFX18-1E	CFX18-2	CFX18-2E	CFX18-3	-	.63 - .71	(16 - 18)
CFX20-1	CFX20-1E	CFX20-2	CFX20-2E	CFX20-3	-	.71 - .79	(18 - 20)
CFX22-1	CFX22-1E	CFX22-2	CFX22-2E	CFX22-3	-	.79 - .87	(20 - 22)
CFX26-1	CFX26-1E	CFX26-2	CFX26-2E	-	-	.87 - 1.02	(22 - 26)
CFX30-1	CFX30-1E	CFX30-2	CFX30-2E	-	-	1.02 - 1.18	(26 - 30)
CFX34-1	CFX34-1E	CFX34-2	CFX34-2E	-	-	1.18 - 1.34	(30 - 34)
CFX38-1	CFX38-1E	-	-	-	-	1.34 - 1.50	(34 - 38)
CFX42-1	CFX42-1E	-	-	-	-	1.50 - 1.65	(38 - 42)

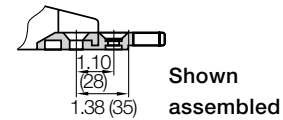
For more information please refer to strain relief section of Chapter 10

Tiewrap Plates

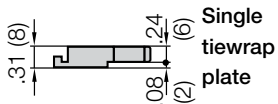
Option 1:

Tiewrap plates as an individual part

Available as an individual component, can be fixed onto a mounting bracket with the use of a profile rail.

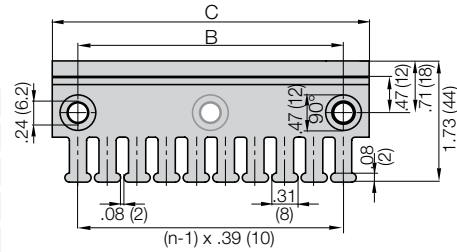


Shown assembled



Single tiewrap plate

Tiewrap Plate	n Number of Teeth	C Overall Width in. (mm)	B Bore Width in. (mm)	Center Bore
3050-ZB	5	1.97 (50)	1.18 (30)	no
3075-ZB	7	2.95 (75)	2.16 (55)	no
3100-ZB	10	3.94 (100)	3.15 (80)	no
3115-ZB	11	4.53 (115)	3.74 (95)	no
3125-ZB	12	4.92 (125)	4.13 (105)	no
3150-ZB	15	5.91 (150)	5.12 (130)	no
3175-ZB	17	6.89 (175)	6.10 (155)	no
3200-ZB	20	7.87 (200)	7.09 (180)	yes
3225-ZB	22	8.86 (225)	8.07 (205)	yes
3250-ZB	25	9.84 (250)	9.06 (230)	yes



If used with KMA brackets with profile rail please add "KMA" to the end of the part number.

Example: 3050-ZBKMA

For more information please refer to strain relief section of Chapter 10



Option 2:

Clip-on Tiewrap plates

Available as a clip-on tiewrap plate without the use of bolts They are inserted and removed with a screwdriver used as a lever. Clip-on tiewrap plates are also available as an attachment to the opening crossbars.

Part No.	Number of Teeth	Width of Strain Relief in. (mm)
3050-ZC	5	1.97 (50)
3075-ZC	7	2.95 (75)

For more information please refer to strain relief section of Chapter 10



Option 3:

Clip-on Tiewrap plates for opening crossbars

Clip-on tiewrap plates are also available as an attachment to opening crossbars. They can be positioned at any point along the e-chain®.

Part No.	Number of Teeth	Width of Strain Relief in. (mm)
3850-ZS	5	1.89 (48)

For more information please refer to strain relief section of Chapter 10

PDF: igus.com/e-chain-pdfs
Product information: igus.com/e-chains



Width of Crossbar
14240-05-200-0

	B_{Ri}	Installation Part No.
-05	3.19 (81)	*
-06	3.90 (99)	*
-07	4.17 (106)	94-50-225
-087	4.65 (118)	94-50-250
-10	5.16 (131)	94-50-250
-11	5.47 (139)	94-50-250
-112	5.63 (143)	94-50-275
-12	6.14 (156)	94-50-275
-137	6.61 (168)	94-50-300
-15	7.12 (181)	94-50-300
-162	7.60 (193)	94-50-325
-17	7.83 (199)	94-50-325
-18	8.11 (206)	94-50-325
-187	8.58 (218)	94-50-350
-20	9.09 (231)	94-50-350
-212	9.57 (243)	94-50-375
-23	10.08 (256)	94-50-375
-237	10.55 (268)	94-50-400
-25	11.06 (281)	94-50-400
-262	11.54 (293)	94-50-425
-28	12.05 (306)	94-50-425
-29	12.52 (318)	94-50-450
-30	13.03 (331)	94-50-450
-312	13.50 (343)	94-50-475
-325	14.02 (356)	94-50-475
-337	14.49 (368)	94-50-500
-350	15.00 (381)	94-50-500
-362	15.47 (393)	94-50-525
-375	15.98 (406)	94-50-525
-387	16.46 (418)	94-50-550
-400	16.97 (431)	94-50-550

Guide troughs are used with applications where the upper run of the e-chain® glides on the lower run. If using igus® steel guide troughs, the following components are required:

- Full travel length of guide trough
Part No. 94-30
- 1/2 travel length glide bars
Part No. 93-01
- Installation sets as end connectors
Part No. 94-50-XX

.XX indicates the length of the profile rails on which the guide trough is mounted. The values and part numbers are specified in the table on the left. The standard length of the trough components and glide bars is 6.56 ft (2 m). The required overall length of the guide trough directly correlates to the length of travel.

Example:

Length of travel 164 ft (50 m)
Center mounted

Required guide troughs

164 ft (50 m) guide trough
82 ft (25 m) glide bars
= 25 sections of 6.56 ft (2 m) guide trough

Part No. 94-30

= 13 sections of 6.56 ft (2 m) glide bars

Part No. 93-01

Required number of installation sets:

= Number of guide trough components + 1
= 25 + 1 = 26

Part number of the installation sets

94-50-XXX

Example:

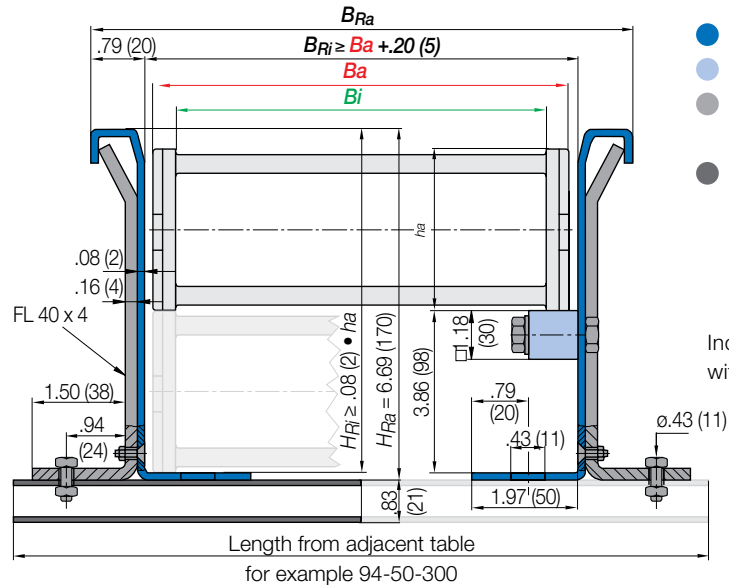
94-50-400 for 15.75 (400 mm) long profile rail



Left: Guide trough with glide bars
Right: Guide troughs without glide bars



Installation sets as section connectors



- Guide trough
- Glide bars
- Installation set "Basic"
- Profile rail

Individual attachment without profile rail

* Specialized guide trough available upon request

Standard length profile rail