

E4-42  
H4-42  
R4-42



#### Price Index



Series E4-42



Series H4-42



Series R4-42

#### Special Options Available



Low noise version available with special rubber pads



Cleanroom test upon request



ESD classification:  
Electrically conductive ESD/  
ATEX version upon request

#### Assembly Tips



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



Remove lids/bottoms (e-tubes) - Insert screwdriver into the slot, release by lever action

#### Other Installation Methods

Vertical, hanging ≤ 328 ft (100 m)

Vertical, standing ≤ 19.69 ft (6 m)

Side-mounted, unsupp. ≤ 6.56 ft (2 m)

Rotary requires further calculation

#### Usage Guidelines



- If quiet operation is required
- If very high speeds and/or accelerations are required
- Long travels
- High additional loads



- When an extremely low vibration e-chain®/e-tube is required  
➤ **Series E6-40/R6-40**
- When an economic one-sided snap-open e-chain®/e-tube is required  
➤ **Series 3400/3450/3480/3500**

## e-chain system® E4-1 Series E4-42/H4-42/R4-42

### Features & Benefits

- 1 Wide, rounded plastic crossbars - cable friendly
- 2 Low-noise operation through integrated brake in the radial stop dog system
- 3 Hinged snap-open removable lids along the outer radius of the e-tube
- 4 Straight run through inner-/outer-link design
- 5 QuickLock Crossbar, 385-X-Q, available for faster assembly/disassembly
- 6 The tongue and groove design provides greater lateral stability
- 7 New Interior separation kit available
- 8 Crossbars are removable along both radii
- 9 15% more tensile strength (compared to the older E4 series), better unsupported length through improved stop dog system and vertical radial stops
- 10 Version NCST "without camber" simply by turning outer links without unnecessary rework



Also available without camber.  
Add NCST to the end of the part number.  
Ex: E4-42-20-300NCST

### Order Example: Complete e-chain®

Please indicate chain length or number of links. Example:

16.4 ft (5 m) **E4-42-20-300-0**



e-chain®

With 2 separators **42.1.1** assembled every 2nd link



**Interior Separation**

1 Set **E4-420-20-12P**



**Mounting Bracket**

# e-chain system® E4-1

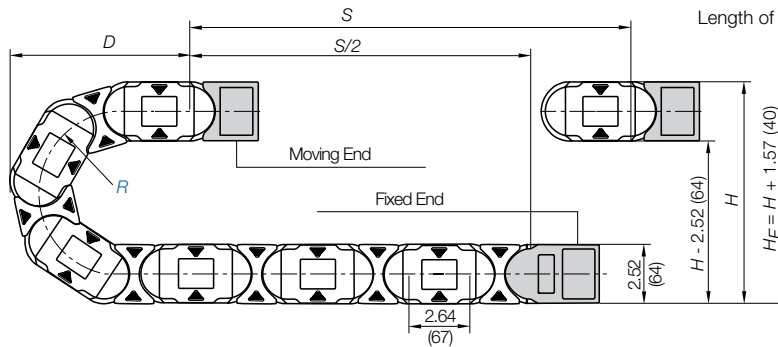
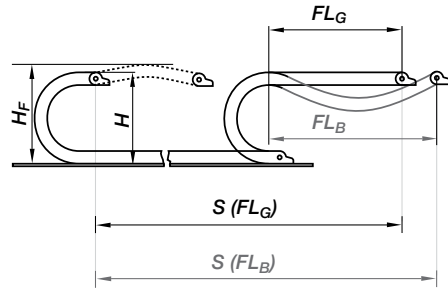
## Series E4-42/H4-42/R4-42

### Installation Dimensions

#### Short travel, unsupported length

- $FL_B$  = unsupported with permitted sag
- $FL_G$  = unsupported with straight upper run

Further information ► Design, Chapter 1



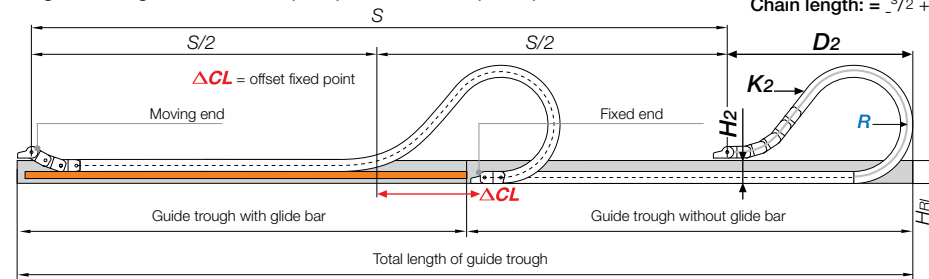
The required clearance height:  $H_F = H + 1.57$  in. (40 mm) (with 2.02 lbs/ft (3 kg/m) fill weight). Please consult igus® if space is particularly restricted.

| R               | 2.95 (075*) | 3.94 (100*) | 4.53 (115*) | 4.92 (125)  | 5.91 (150)  | 6.30 (160)  | 6.69 (175)  | 7.87 (200)  | 9.84 (250)  | 11.81 (300)  | 13.78 (350)  |
|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|
| H $_{+25}^{-0}$ | 8.43 (214)  | 10.39 (264) | 11.57 (294) | 12.36 (314) | 14.33 (364) | 15.12 (384) | 16.30 (414) | 18.27 (464) | 22.20 (564) | 26.14 (664)  | 30.08 (764)  |
| D               | 8.19 (208)  | 9.17 (233)  | 9.76 (248)  | 10.15 (258) | 11.14 (283) | 11.54 (293) | 12.13 (308) | 13.11 (333) | 15.08 (383) | 17.05 (433)  | 19.02 (483)  |
| K               | 14.57 (370) | 17.72 (450) | 19.69 (500) | 20.87 (530) | 24.02 (610) | 25.20 (640) | 26.97 (685) | 30.12 (765) | 36.22 (920) | 42.52 (1080) | 48.62 (1235) |

\*Radius not available for e-tubes

#### For long travels with lowered mounting height

Long travel lengths from 32.8 ft. (10 m) to max. 984 ft. (300 m)



| R                            | 2.95 (075*) | 3.94 (100*) | 4.53 (115*) | 4.92 (125)  | 5.91 (150)  | 6.30 (160)   | 6.69 (175)   | 7.87 (200)   | 9.84 (250)   | 11.81 (300)  | 13.78 (350)  |
|------------------------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|
| H <sub>2</sub>               | -           | -           | 9.06 (230)  | 7.32 (186)  | 7.32 (186)  | 7.32 (186)   | 7.32 (186)   | 7.32 (186)   | 7.32 (186)   | 7.32 (186)   | 7.32 (186)   |
| D <sub>2</sub> $_{+25}^{-0}$ | -           | -           | 17.13 (435) | 18.70 (475) | 22.44 (570) | 24.53 (623)  | 26.38 (670)  | 30.71 (780)  | 40.55 (1030) | 45.28 (1150) | 59.06 (1500) |
| K <sub>2</sub>               | -           | -           | 29.02 (737) | 31.65 (804) | 36.93 (938) | 42.20 (1072) | 44.84 (1139) | 52.76 (1340) | 65.94 (1675) | 76.50 (1943) | 94.96 (2412) |
| ΔCL                          | -           | -           | 7.87 (200)  | 9.06 (230)  | 11.81 (300) | 14.96 (380)  | 14.96 (380)  | 18.11 (460)  | 25.98 (660)  | 28.74 (730)  | 40.55 (1030) |

In case of travels between 26.3 and 29.4 ft (8 and 12 m) we recommend a longer unsupported length.



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

\*Radius not available for e-tubes

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



E4-42  
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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 =  $\pi \cdot R$  + safety buffer
- H<sub>F</sub> = Required clearance height
- H<sub>RI</sub> = Trough inner height
- H<sub>2</sub> = \*Mounting height
- D<sub>2</sub> = Overlength - long travels, gliding
- K<sub>2</sub> = \*Add-on

\*If the mounting bracket location is set lower

#### 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

#### Technical Data



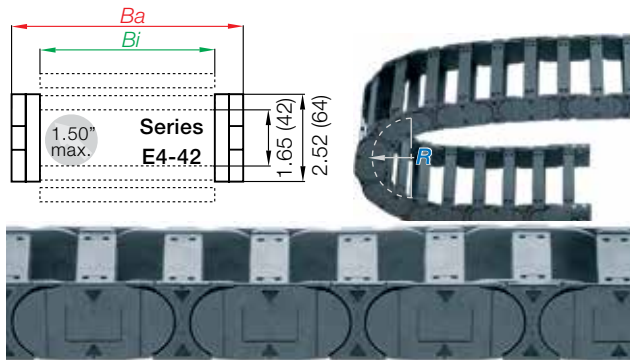
Details of material properties

► Chapter 1

PDF: [igus.com/e-chain-pdfs](https://igus.com/e-chain-pdfs)  
Product information: [igus.com/e-chains](https://igus.com/e-chains)

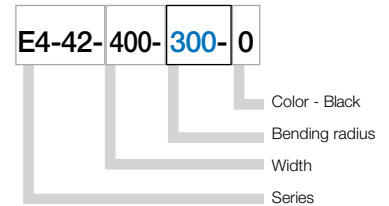


## Series E4-42 - e-chain® with crossbars every link

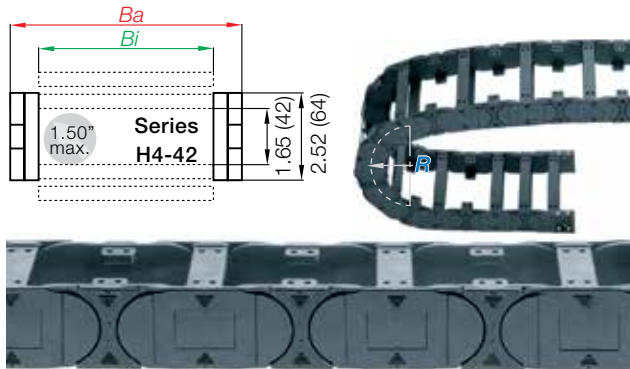


- Crossbars every link
- For use with rigid hydraulic hoses
- For particularly demanding applications
- Can be opened from both sides

### Part Number Structure

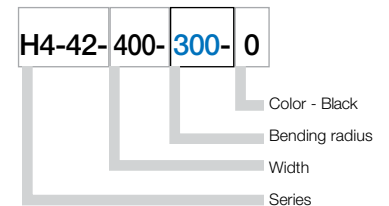


## Series H4-42 - e-chain® with crossbars every other link

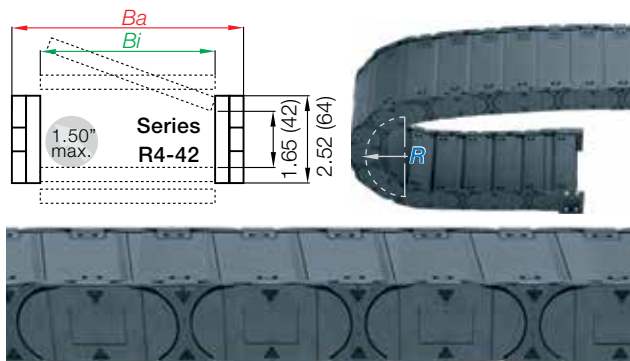


- Crossbars every other link
- Standard configuration
- For nearly every situation
- Can be opened from both sides
- Easy assembly
- Stable
- Cost-effective

### Part Number Structure

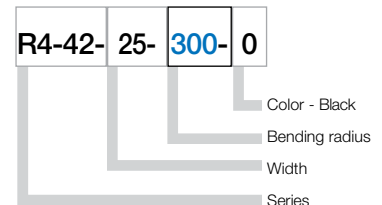


## Series R4-42 - fully enclosed e-tube

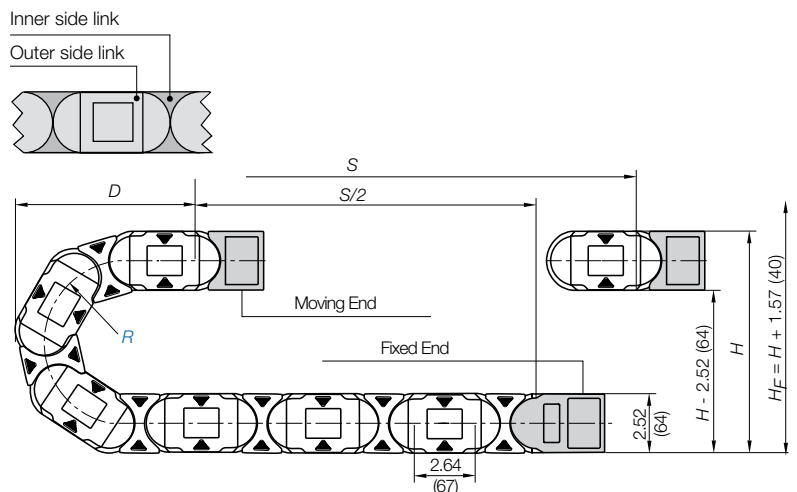
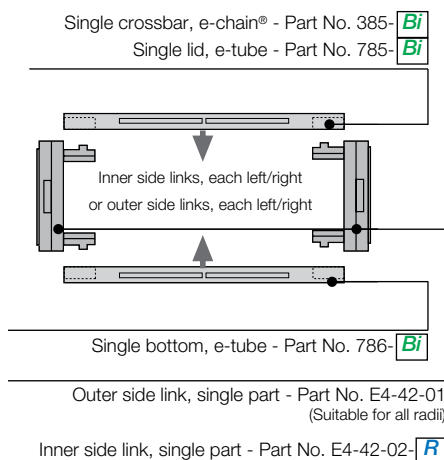


- Fully enclosed
- Excellent cable and hose protection against dirt
- Protection against hot chips
- Lids along inner radius are completely removable
- Lids along the outer radius are single-sided, snap open, hinged on one side as well as completely removable

### Part Number Structure



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



# e-chain system® E4-1

## Series E4-42/H4-42/R4-42

### Product Range



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Supplement part number with required radius. Example: E4-42-400-300-0  
Pitch: 2.64 in. (67mm) per link, links/ft(m) = 4.57 (15)

| Part Number |             |            |                          |    | Weight      |             |               |               |               |
|-------------|-------------|------------|--------------------------|----|-------------|-------------|---------------|---------------|---------------|
| Crossbars   | Crossbars   | Tube       |                          |    | <i>Bi</i>   | <i>Ba</i>   | E4-42         | H4-42         | R4-42         |
| Every link  | Every other | Version    |                          |    | in. (mm)    | in. (mm)    | lbs/ft (kg/m) | lbs/ft (kg/m) | lbs/ft (kg/m) |
| E4-42-05-   | H4-42-05    | *R4-42-05- | <input type="checkbox"/> | -0 | 1.97 (50)   | 2.99 (76)   | ≈ 1.29 (1.92) | ≈ 1.21 (1.80) | ≈ 1.44 (2.15) |
| E4-42-06-   | H4-42-06-   |            | <input type="checkbox"/> | -0 | 2.68 (68)   | 3.70 (94)   | ≈ 1.36 (2.03) | ≈ 1.25 (1.86) | –             |
| E4-42-07-   | H4-42-07    | R4-42-07-  | <input type="checkbox"/> | -0 | 2.95 (75)   | 3.98 (101)  | ≈ 1.38 (2.06) | ≈ 1.26 (1.87) | ≈ 1.53 (2.28) |
| E4-42-087-  | H4-42-087-  |            | <input type="checkbox"/> | -0 | 3.43 (87)   | 4.49 (114)  | ≈ 1.42 (2.12) | ≈ 1.28 (1.90) | ≈ 1.62 (2.41) |
| E4-42-097   | H4-42-097   |            | <input type="checkbox"/> | -0 | 3.82 (97)   | 4.72 (120)  | ≈ 1.43 (2.14) | ≈ 1.29 (1.92) | –             |
| E4-42-10-   | H4-42-10-   | R4-42-10-  | <input type="checkbox"/> | -0 | 3.94 (100)  | 4.96 (126)  | ≈ 1.47 (2.19) | ≈ 1.32 (1.96) | ≈ 1.69 (2.52) |
| E4-42-11-   | H4-42-11-   | R4-42-11-  | <input type="checkbox"/> | -0 | 4.25 (108)  | 5.28 (134)  | ≈ 1.50 (2.24) | ≈ 1.32 (1.97) | ≈ 1.73 (2.57) |
| E4-42-112-  | H4-42-112-  |            | <input type="checkbox"/> | -0 | 4.41(112)   | 5.47 (139)  | ≈ 1.51 (2.25) | ≈ 1.32 (1.97) | –             |
| E4-42-12-   | H4-42-12-   | R4-42-12-  | <input type="checkbox"/> | -0 | 4.92 (125)  | 5.94 (151)  | ≈ 1.57 (2.34) | ≈ 1.35 (2.01) | ≈ 1.83 (2.73) |
| E4-42-137-  | H4-42-137-  |            | <input type="checkbox"/> | -0 | 5.39 (137)  | 6.46 (164)  | ≈ 1.61 (2.39) | ≈ 1.37 (2.04) | –             |
| E4-42-15-   | H4-42-15-   | R4-42-15-  | <input type="checkbox"/> | -0 | 5.91 (150)  | 6.93 (176)  | ≈ 1.65 (2.46) | ≈ 1.39 (2.07) | ≈ 2.00 (2.98) |
| E4-42-162-  | H4-42-162-  |            | <input type="checkbox"/> | -0 | 6.38 (162)  | 7.44 (189)  | ≈ 1.67 (2.48) | ≈ 1.40 (2.09) | –             |
| E4-42-17-   | H4-42-17-   | R4-42-17-  | <input type="checkbox"/> | -0 | 6.61 (168)  | 7.64 (194)  | ≈ 1.71 (2.55) | ≈ 1.42 (2.12) | ≈ 2.12 (3.15) |
| E4-42-18-   | H4-42-18-   |            | <input type="checkbox"/> | -0 | 6.89 (175)  | 7.91 (201)  | ≈ 1.73 (2.57) | ≈ 1.43 (2.13) | –             |
| E4-42-187-  | H4-42-187-  |            | <input type="checkbox"/> | -0 | 7.36 (187)  | 8.43 (214)  | ≈ 1.75 (2.61) | ≈ 1.44 (2.15) | –             |
| E4-42-20-   | H4-42-20-   | R4-42-20-  | <input type="checkbox"/> | -0 | 7.87 (200)  | 8.90 (226)  | ≈ 1.83 (2.72) | ≈ 1.48 (2.20) | ≈ 2.32 (3.45) |
| E4-42-212-  | H4-42-212-  |            | <input type="checkbox"/> | -0 | 8.35 (212)  | 9.41 (239)  | ≈ 1.85 (2.76) | ≈ 1.49 (2.22) | –             |
| E4-42-23-   | H4-42-23-   |            | <input type="checkbox"/> | -0 | 8.86 (225)  | 9.88 (251)  | ≈ 1.90 (2.84) | ≈ 1.52 (2.26) | –             |
| E4-42-237-  | H4-42-237-  |            | <input type="checkbox"/> | -0 | 9.33 (237)  | 10.39 (264) | ≈ 1.93 (2.87) | ≈ 1.53 (2.28) | –             |
| E4-42-25-   | H4-42-25-   | R4-42-25-  | <input type="checkbox"/> | -0 | 9.84 (250)  | 10.87 (276) | ≈ 2.00 (2.98) | ≈ 1.57 (2.33) | ≈ 2.86 (4.25) |
| E4-42-262-  | H4-42-262-  |            | <input type="checkbox"/> | -0 | 10.31 (262) | 11.38 (289) | ≈ 2.05 (3.05) | ≈ 1.59 (2.37) | –             |
| E4-42-28    | H4-42-28-   |            | <input type="checkbox"/> | -0 | 10.83 (275) | 11.85 (301) | ≈ 2.09 (3.11) | ≈ 1.61 (2.40) | –             |
| E4-42-29-   | H4-42-29-   |            | <input type="checkbox"/> | -0 | 11.30 (287) | 12.36 (314) | ≈ 2.11 (3.14) | ≈ 1.62 (2.41) | –             |
| E4-42-30-   | H4-42-30-   | R4-42-30-  | <input type="checkbox"/> | -0 | 11.81 (300) | 12.83 (326) | ≈ 2.18 (3.24) | ≈ 1.65 (2.46) | ≈ 3.29 (4.89) |
| E4-42-312-  | H4-42-312-  |            | <input type="checkbox"/> | -0 | 12.28 (312) | 13.35 (339) | ≈ 2.19 (3.26) | ≈ 1.66 (2.47) | –             |
| E4-42-325-  | H4-42-325-  |            | <input type="checkbox"/> | -0 | 12.79 (325) | 13.82 (351) | ≈ 2.24 (3.34) | ≈ 1.69 (2.52) | –             |
| E4-42-337-  | H4-42-337-  |            | <input type="checkbox"/> | -0 | 13.27 (337) | 14.33 (364) | ≈ 2.28 (3.40) | ≈ 1.71 (2.54) | –             |
| E4-42-350-  | H4-42-350-  |            | <input type="checkbox"/> | -0 | 13.78 (350) | 14.80 (376) | ≈ 2.41 (3.59) | ≈ 1.77 (2.64) | –             |
| E4-42-362-  | H4-42-362-  |            | <input type="checkbox"/> | -0 | 14.25 (362) | 15.31 (389) | ≈ 2.47 (3.67) | ≈ 1.80 (2.68) | –             |
| E4-42-375-  | H4-42-375-  |            | <input type="checkbox"/> | -0 | 14.76 (375) | 15.83 (402) | ≈ 2.51 (3.73) | ≈ 1.82 (2.71) | –             |
| E4-42-387-  | H4-42-387-  |            | <input type="checkbox"/> | -0 | 15.24 (387) | 16.30 (414) | ≈ 2.55 (3.79) | ≈ 1.84 (2.74) | –             |
| E4-42-400   | H4-42-400-  |            | <input type="checkbox"/> | -0 | 15.75 (400) | 16.77 (426) | ≈ 2.58 (3.84) | ≈ 1.85 (2.76) | –             |

Choose from the radii below for all of the above sizes

Radius (mm) Example: E4-42-400-300-0

|                  | 075**       | 100**       | 115**       | 125         | 150         | 160         | 175         | 200         | 250         | 300          | 350          |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|
| R                | 2.95 (075*) | 3.94 (100*) | 4.53 (115*) | 4.92 (125)  | 5.91 (150)  | 6.30 (160)  | 6.69 (175)  | 7.87 (200)  | 9.84 (250)  | 11.81 (300)  | 13.78 (350)  |
| H $\frac{D}{20}$ | 8.43 (214)  | 10.39 (264) | 11.57 (294) | 12.36 (314) | 14.33 (364) | 15.12 (384) | 16.30 (414) | 18.27 (464) | 22.20 (564) | 26.14 (664)  | 30.08 (764)  |
| D                | 8.19 (208)  | 9.17 (233)  | 9.76 (248)  | 10.15 (258) | 11.14 (283) | 11.54 (293) | 12.13 (308) | 13.11 (333) | 15.08 (383) | 17.05 (433)  | 19.02 (483)  |
| K                | 14.57 (370) | 17.72 (450) | 19.69 (500) | 20.87 (530) | 24.02 (610) | 25.20 (640) | 26.97 (685) | 30.12 (765) | 36.22 (920) | 42.52 (1080) | 48.62 (1235) |

\*\* This radius is not available for the R4-42 Series

\*Removable lid only, no hinged option

0 = Standard color black.

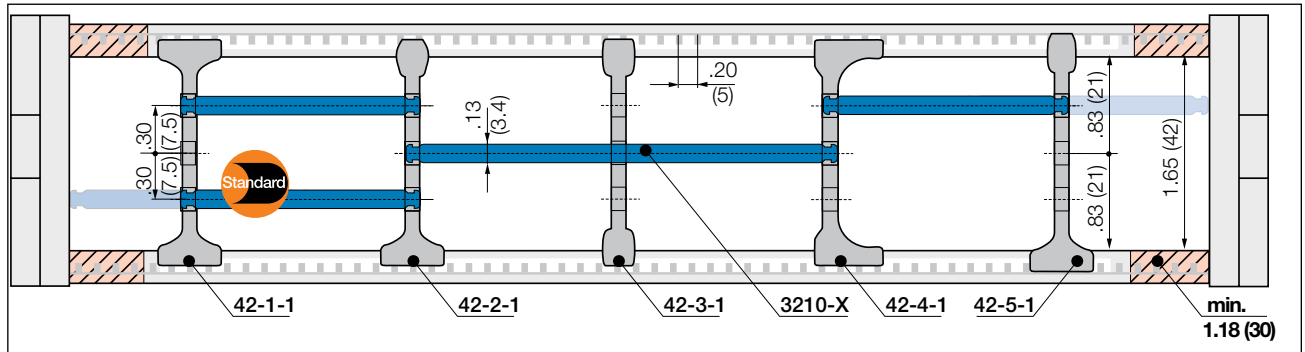
For other colors see Chapter 1

For wider chains see page 6.51

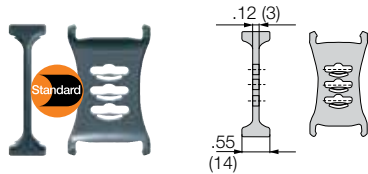
For large diameter hoses see page 6.52

PDF: [igus.com/e-chain-pdfs](https://igus.com/e-chain-pdfs)  
Product information: [igus.com/e-chains](https://igus.com/e-chains)





**Note e-tube:** Please maintain a lateral spacing of 1.18" (30 mm) between the separators and the side links. In the standard configuration separators are assembled every 2<sup>nd</sup> e-chain® link

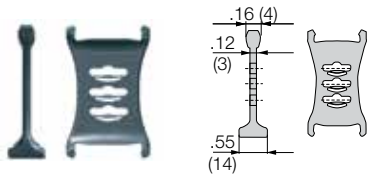


#### Separator, wide base

|             |                 |
|-------------|-----------------|
| Unassembled | Part No. 42-1   |
| Assembled   | Part No. 42-1-1 |

- Standard separator 42-1 for all applications**

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

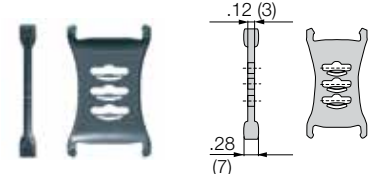


#### Separator, narrow head

|             |                 |
|-------------|-----------------|
| Unassembled | Part No. 42-2   |
| Assembled   | Part No. 42-2-1 |

- Separator 42-2 For even faster installation**

is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

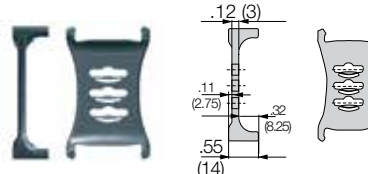


#### Separator, narrow base

|             |                 |
|-------------|-----------------|
| Unassembled | Part No. 42-3   |
| Assembled   | Part No. 42-3-1 |

- Separator 42-3 For many thin cables**

is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.

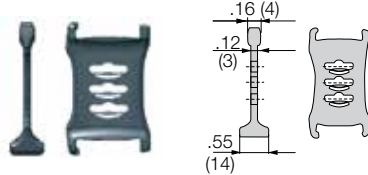


#### Separator, asymmetrical

|             |                 |
|-------------|-----------------|
| Unassembled | Part No. 42-4   |
| Assembled   | Part No. 42-4-1 |

- Separator 42-4 For side mounted applications**

is used when vertical and horizontal separation is required. Due to its slot, it allows basic vertical/horizontal shelving arrangements.



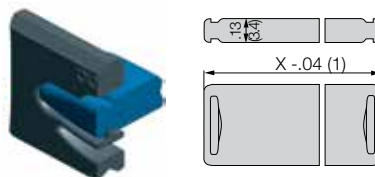
#### Separator, asymmetrical

|             |                 |
|-------------|-----------------|
| Unassembled | Part No. 42-5   |
| Assembled   | Part No. 42-5-1 |

- Separator 42-5 Locks safely in .30" (7.5 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**

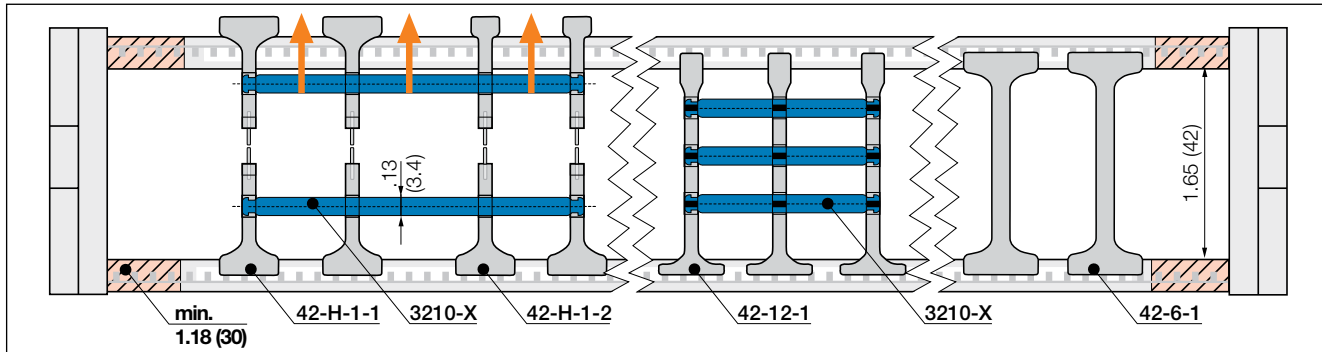
Shelf locks safely into separators on both ends, fixed width possible. Separators can be moved freely over the shelf in horizontal direction. Can be used at one height.

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

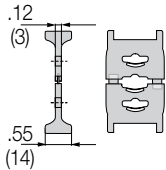
e-chain system® E4-1  
Series E4-42/H4-42/R4-42  
Interior Separation - Previous Generation



E4-42  
H4-42  
R4-42

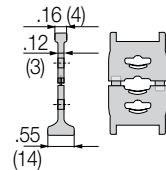


Note e-tube: Please maintain a lateral spacing of 1.18" (30 mm) between the separators and the side links. In the standard configuration separators are assembled every 2<sup>nd</sup> e-chain® link



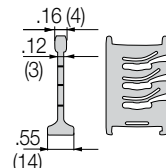
**Separator, wide base**

|             |                   |
|-------------|-------------------|
| Unassembled | Part No. 42-H-1   |
| Assembled   | Part No. 42-H-1-1 |



**Separator, narrow head**

|             |                   |
|-------------|-------------------|
| Unassembled | Part No. 42-H-2   |
| Assembled   | Part No. 42-H-2-1 |

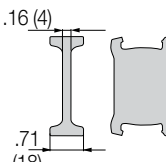


**Lean separator**

|             |                  |
|-------------|------------------|
| Unassembled | Part No. 42-12   |
| Assembled   | Part No. 42-12-1 |



**More interior separation options**



**Notch locking separator**

|             |                 |
|-------------|-----------------|
| Unassembled | Part No. 42-6   |
| Assembled   | Part No. 42-6-1 |

• **Split separators for all applications**

In order to fill e-chains® more easily and effectively, these separators can be split in the middle. This allows easier access to middle shelf partitions. Fast assembly and easy retrofit. 2 types available: with wide or narrow top.

• **Lean separators 42-12**

New design allows extremely fast fitting of shelves in several layers, which significantly reduces assembly time. Enables extremely fast replacement of individual cables in a very full e-chain®.

• **Lean separator design - several layers of cables fitted quickly, save up to 50%\* assembly time**

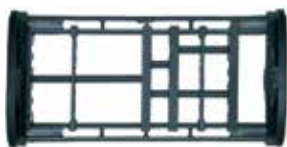
(\*Lean separator vs. standard separator - measured on a 4m long e-chain® fitted with 12 cables in the igus® harnessing factory)

• **Notch locking separator for increased holding force**

Notch locking separators offer higher crossbar opening forces for high humidity and/or large hydraulic hoses. They can be positioned precisely and then locked in position

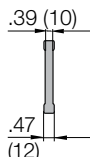
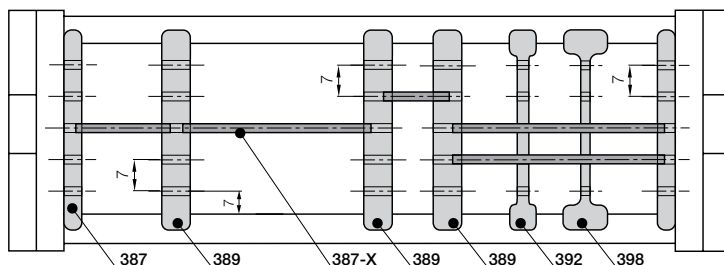
PDF: [igus.com/e-chain-pdfs](https://igus.com/e-chain-pdfs)  
Product information: [igus.com/e-chains](https://igus.com/e-chains)





### Shelves and Separators

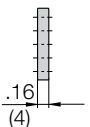
e-chains® and e-tubes can be subdivided both vertically and horizontally using the various interior separation elements. ► **Design, Chapter 1** for layout recommendations.



#### Split separator (chain only)

Unassembled **Part No. T423**

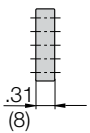
Assembled **Part No. T423M**



#### Side Plate

Unassembled **Part No. 386**

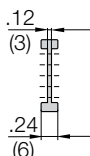
Assembled **Part No. 387**



#### Vertical Separator

Unassembled **Part No. 388**

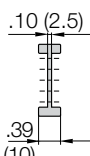
Assembled **Part No. 389**



#### Slotted Separators

Unassembled **Part No. 391**

Assembled **Part No. 392**



#### Slotted Separators, Open

Unassembled **Part No. 397**

Assembled **Part No. 398**

- **Split separator T423 for e-chains®**  
This separator is ideal for subsequent shelving or the initial assembly of the e-chain. Fast assembly and disassembly using a hinge/push mechanism. Enhances flexibility

- **Side plates 386**  
This component is used to form the basic pattern of a shelf system.

- **Vertical separator 388**  
This component is used to form the basic pattern of a shelf system.

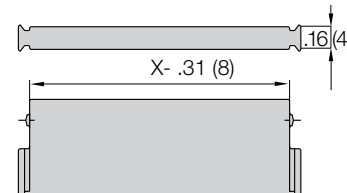
- **Closed Slotted separators 391**  
These are used for complex subdivisions. However, they cannot be retrofitted into an existing interior separation system without removing the shelves first.

- **Open slotted separator 397**  
This separator can be retrofitted into an existing interior separation system without removing the shelves, as long as these shelves fit into the middle 3 slots only.

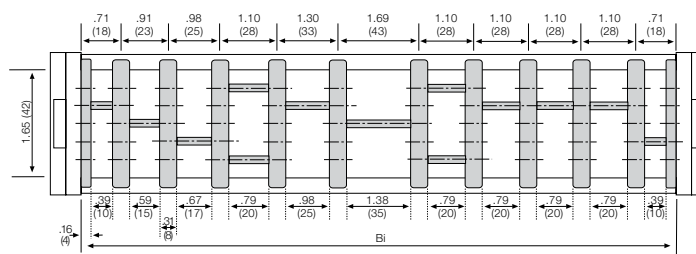
| Width X<br>in. (mm) | Usable Width<br>in. (mm) | Part No.<br>Unassembled | Part No.<br>Assembled |
|---------------------|--------------------------|-------------------------|-----------------------|
| .71 (18)            | .39 (10)                 | <b>386-18</b>           | <b>387-18</b>         |
| .91 (23)            | .59 (15)                 | <b>386-23</b>           | <b>387-23</b>         |
| .98 (25)            | .67 (17)                 | <b>386-25</b>           | <b>387-25</b>         |
| 1.10 (28)           | .79 (20)                 | <b>386-28</b>           | <b>387-28</b>         |
| 1.30 (33)           | .98 (25)                 | <b>386-33</b>           | <b>387-33</b>         |
| 1.69 (43)           | 1.38 (35)                | <b>386-43</b>           | <b>387-43</b>         |
| 1.97 (50)           | 1.65 (42)                | <b>386-50</b>           | <b>387-50</b>         |
| 2.13 (54)           | 1.81 (46)                | <b>386-54</b>           | <b>387-54</b>         |
| 2.44 (62)           | 2.13 (54)                | <b>386-62</b>           | <b>387-62</b>         |
| 2.95 (75)           | 2.64 (67)                | <b>386-75</b>           | <b>387-75</b>         |
| 3.43 (87)           | 3.12 (87)                | <b>386-87</b>           | <b>387-87</b>         |
| 3.94 (100)          | 3.62 (92)                | <b>386-100</b>          | <b>387-100</b>        |
| 4.25 (108)          | 3.94 (100)               | <b>386-108</b>          | <b>387-108</b>        |
| 4.92 (125)          | 4.61 (117)               | <b>386-125</b>          | <b>387-125</b>        |
| 5.91 (150)          | 5.59 (142)               | <b>386-150</b>          | <b>387-150</b>        |
| 6.89 (175)          | 6.57 (167)               | <b>386-175</b>          | <b>387-175</b>        |
| 7.87 (200)          | 7.56 (192)               | <b>386-200</b>          | <b>387-200</b>        |
| 8.19 (208)          | 7.87 (200)               | <b>386-208</b>          | <b>387-208</b>        |

### Shelves 386-XX

These components form the basic pattern of a shelf system. Shelves of various widths can be arranged at 5 different heights in .28" (7mm) increments



The diagram below is for reference purposes only. Multiple configurations are possible. To create your e-chain shelving cross section please see our online e-chain configurator. Call 1-800-521-2747 for assistance and/or go to [igus.com](http://igus.com) click on the **Products** drop down menu, choose **e-chain Cable Carriers** and on the next drop down menu simply click on **e-chain Configurator**.



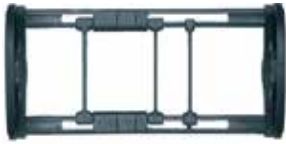
# e-chain system® E4-1

## Series E4-42/H4-42/R4-42

### Interior Separation - Previous Generation



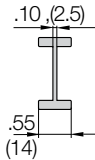
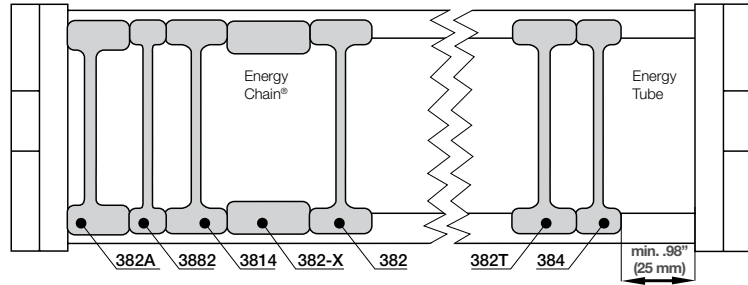
E4-42  
H4-42  
R4-42



#### 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.

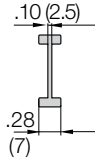
**NOTE:** Observe a lateral spacing of at least .98 in. (25mm) for e-tubes



#### Separator (chain/tube)

|             |              |
|-------------|--------------|
| Unassembled | Part No. 380 |
| Assembled   | Part No. 381 |

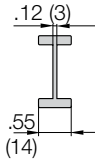
- **Standard separator 380 for e-chains® and e-tubes**  
This separator offers safe stability due to its wide base design, also when used with thick cables or hoses.



#### Separator (chain only)

|             |               |
|-------------|---------------|
| Unassembled | Part No. 3881 |
| Assembled   | Part No. 3882 |

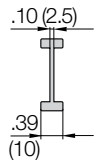
- **Vertical separator 3881 for e-chains®**  
This separator features a narrow 7mm base for applications where a large number of small cables need to be individually separated.



#### Vertical Separator (tubes only)

|               |               |
|---------------|---------------|
| Part No. 380T | Part No. 381T |
|---------------|---------------|

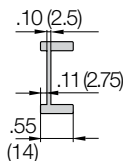
- **Locking separator 380T for e-tubes**  
It clamps to the fixed radius and remains free along the other radius to facilitate lid removal. When installing please ensure they are identically aligned.



#### Separator (chain only)

|             |              |
|-------------|--------------|
| Unassembled | Part No. 383 |
| Assembled   | Part No. 384 |

- **Vertical separator 383 for e-chains®**  
This separator features an increased retention force for applications exposed to very high humidity or extreme loads. It features asymmetric claws for the crossbar which results in the increased retention force.



#### Asymmetric separator (chain only)

|             |               |
|-------------|---------------|
| Unassembled | Part No. 381A |
| Assembled   | Part No. 382A |

- **Asymmetrical separator 381A for e-chains®**  
This separator features an (14mm) base. It can be used in combinations between spacers of different widths and vertical separators in side mounted applications.



#### Spacer (chain only)

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

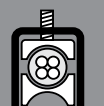
XX = width of the spacer

- **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](https://igus.com/e-chain-pdfs)  
Product information: [igus.com/e-chains](https://igus.com/e-chains)



| Width | Part No. Full Set chain |         |         | With<br>Profile<br>Rail                                                             | <i>Bi</i><br>in. (mm) | Width | Part No. Full Set chain |         |         | With<br>Profile<br>Rail                                                               | <i>Bi</i><br>in. (mm) |
|-------|-------------------------|---------|---------|-------------------------------------------------------------------------------------|-----------------------|-------|-------------------------|---------|---------|---------------------------------------------------------------------------------------|-----------------------|
|       | Pivoting                | Locking |         |                                                                                     |                       |       | Pivoting                | Locking |         |                                                                                       |                       |
| -05*  | E4-420                  | E4-421  | -05-12  |  | 1.97 (50)             | -212  | E4-420                  | E4-421  | -212-12 |  | 8.35 (212)            |
| -06   | E4-420                  | E4-421  | -06-12  |  | 2.68 (68)             | -23   | E4-420                  | E4-421  | -23-12  |  | 8.86 (225)            |
| -07   | E4-420                  | E4-421  | -07-12  |  | 2.95 (75)             | -237  | E4-420                  | E4-421  | -237-12 |  | 9.33 (237)            |
| -087  | E4-420                  | E4-421  | -087-12 |  | 3.43 (87)             | -25   | E4-420                  | E4-421  | -25-12  |  | 9.84 (250)            |
| -097  | E4-420                  | E4-421  | -097-12 |  | 3.82 (97)             | -262  | E4-420                  | E4-421  | -262-12 |  | 10.31 (262)           |
| -10   | E4-420                  | E4-421  | -10-12  |  | 3.94 (100)            | -28   | E4-420                  | E4-421  | -28-12  |  | 10.83 (275)           |
| -11   | E4-420                  | E4-421  | -11-12  |  | 4.25 (108)            | -29   | E4-420                  | E4-421  | -29-12  |  | 11.30 (287)           |
| -112  | E4-420                  | E4-421  | -112-12 |  | 4.41 (112)            | -30   | E4-420                  | E4-421  | -30-12  |  | 11.81 (300)           |
| -12   | E4-420                  | E4-421  | -12-12  |  | 4.92 (125)            | -312  | E4-420                  | E4-421  | -312-12 |  | 12.28 (312)           |
| -137  | E4-420                  | E4-421  | -137-12 |  | 5.39 (137)            | -325  | E4-420                  | E4-421  | -325-12 |  | 12.79 (325)           |
| -15   | E4-420                  | E4-421  | -15-12  |  | 5.91 (150)            | -337  | E4-420                  | E4-421  | -337-12 |  | 13.27 (337)           |
| -162  | E4-420                  | E4-421  | -162-12 |  | 6.38 (162)            | -350  | E4-420                  | E4-421  | -350-12 |  | 13.78 (350)           |
| -17   | E4-420                  | E4-421  | -17-12  |  | 6.61 (168)            | -362  | E4-420                  | E4-421  | -362-12 |  | 14.25 (362)           |
| -18   | E4-420                  | E4-421  | -18-12  |  | 6.89 (175)            | -375  | E4-420                  | E4-421  | -375-12 |  | 14.76 (375)           |
| -187  | E4-420                  | E4-421  | -187-12 |  | 7.36 (187)            | -387  | E4-420                  | E4-421  | -387-12 |  | 15.24 (387)           |
| -20   | E4-420                  | E4-421  | -20-12  |  | 7.87 (200)            | -400  | E4-420                  | E4-421  | -400-12 |  | 15.75 (400)           |

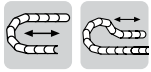
# e-chain system® E4-1

## Series E4-42/H4-42/R4-42

### Mounting Brackets



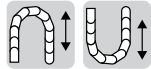
E4-42  
H4-42  
R4-42



**Standard**

#### Option 1: pivoting

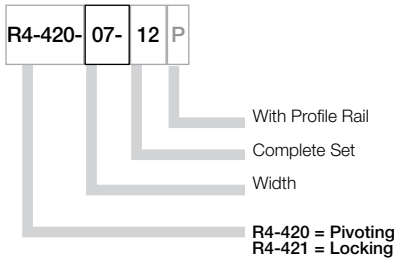
- Recommended for unsupported and gliding applications
- Attachment capability on all sides
- Bolted connection outside of chain cross-section
- Space restricted conditions
- Corrosion resistant



#### Option 2: locking

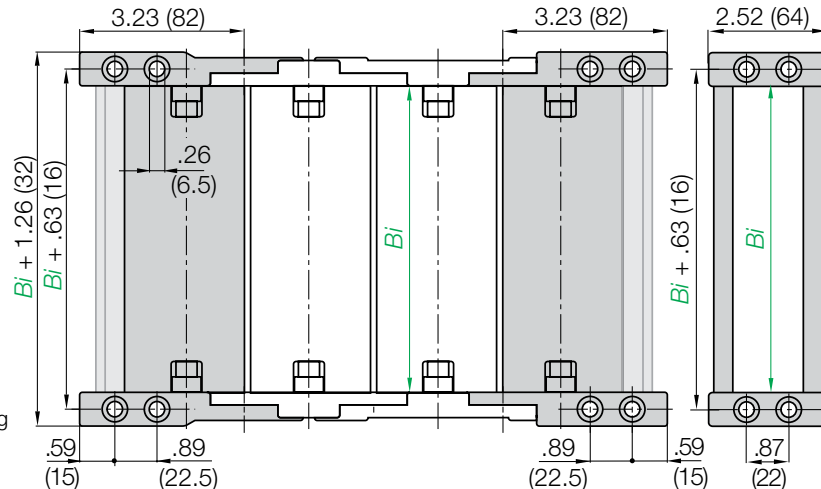
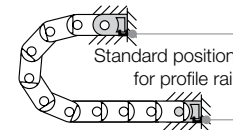
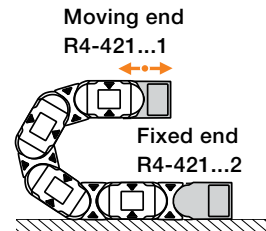
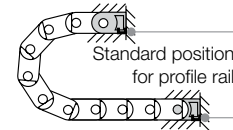
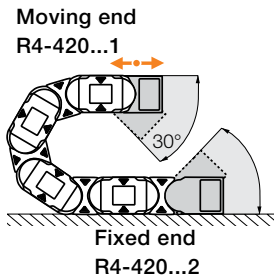
- Profile rail option
- Universal use
- Corrosion resistant
- Vertical hanging/standing travels
- Extreme accelerations

#### Part Number Structure



Due to the design of the R4-42 series chains, please note the following when ordering brackets:

Even number of links = full set, part number ending in -12; Odd number of links = 2 pieces, part number ending in -1



Part No. Full Set (pivoting)  
Tube Series R4-42  
R4-420-Width-12

Part No. Full Set (pivoting)  
with Profile Rail  
Tube Series R4-42  
R4-420-Width-12P

Part number examples are shown for pivoting brackets for e-chain.  
For locking brackets change part number to 421

| Width | Part No. Full Set chain |         | With<br>Profile<br>Rail | $Bi$<br>in. (mm) |
|-------|-------------------------|---------|-------------------------|------------------|
|       | Pivoting                | Locking |                         |                  |
| -05*  | R4-420                  | R4-421  | -05-12                  | P 1.97 (50)      |
| -07   | R4-420                  | R4-421  | -07-12                  | P 2.95 (75)      |
| -087  | R4-420                  | R4-421  | -087-12                 | P 3.43 (87)      |
| -10   | R4-420                  | R4-421  | -10-12                  | P 3.94 (100)     |
| -11   | R4-420                  | R4-421  | -11-12                  | P 4.25 (108)     |
| -12   | R4-420                  | R4-421  | -12-12                  | P 4.92 (125)     |

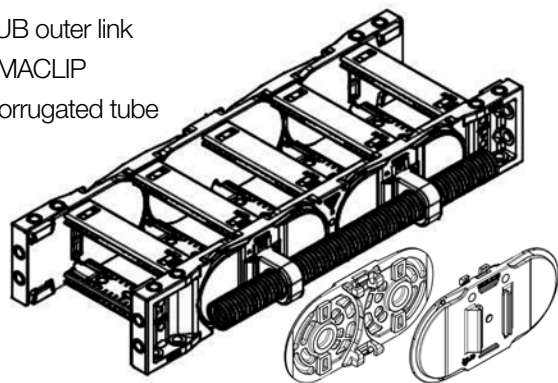
| Width | Part No. Full Set chain |         | With<br>Profile<br>Rail | $Bi$<br>in. (mm) |
|-------|-------------------------|---------|-------------------------|------------------|
|       | Pivoting                | Locking |                         |                  |
| -15   | R4-420                  | R4-421  | -15-12                  | P 5.91 (150)     |
| -17   | R4-420                  | R4-421  | -17-12                  | P 6.61 (168)     |
| -20   | R4-420                  | R4-421  | -20-12                  | P 7.87 (200)     |
| -25   | R4-420                  | R4-421  | -25-12                  | P 9.84 (250)     |
| -30   | R4-420                  | ER4-421 | -30-12                  | P 11.81 (300)    |

PDF: [igus.com/e-chain-pdfs](https://igus.com/e-chain-pdfs)  
Product information: [igus.com/e-chains](https://igus.com/e-chains)





- ❶ TUB outer link
- ❷ PMACCLIP
- ❸ Corrugated tube



### TUB | Safe guidance for corrugated tubes parallel to the e-chain®

- Additional, simple guidance for corrugated tubes on the outside of the e-chain®
- PMACCLIP allows corrugated tubes with nominal widths .28 (07mm), .39 (10mm), .47 (12mm), .67 (17mm) to be easily clipped on
- Easy access to the corrugated tubes, fast replacement of the hoses
- Reduce assembly time and cost - easy to assemble, without any additional screws or tools
- The part number includes the e-chain® with TUB side sections; the PMACCLIP support and the hose are ordered separately

| Part No. TUB      | Part No. TUB      | Part No. TUB             | For corrugated tube nominal diameter   |
|-------------------|-------------------|--------------------------|----------------------------------------|
| Outer link right* | Outer link left*  | Outer link at both ends* | Ø [mm]                                 |
| E4-42-XXXTUBR-R-0 | E4-42-XXXTUBL-R-0 | E4-42-XXXTUB-R-0         | .28 (07), .39 (10), .47 (12), .67 (17) |

\*View from the fixed end

Part number appended with width index **XXX Bi** and radius (**R**) e.g.

E4-42-100TUBR-150-0 = with TUB outer sections every 2<sup>nd</sup> right hand link



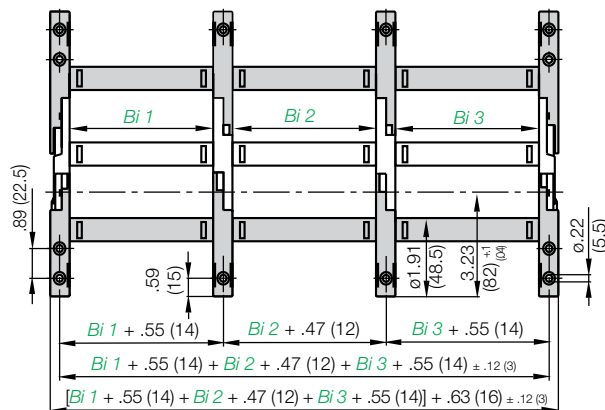
### Extension links - for extremely wide e-chains® up to 9.84 ft (3m)

- For applications in which particularly high fill weights necessitate extremely wide e-chains®
- The extension link design allows virtually limitless side-by-side attachment of chains
- The unsupported length of a chain can be increased when additional loads are required
- Extension links can be used with e-chains®, e-tubes or a combination of both
- They are suitable for unsupported and gliding applications in a guide trough
- e-chains® with extension links are attached with KMA or steel mounting brackets.

Part number example for e-chain®

E4-42-10/20/10-200-0

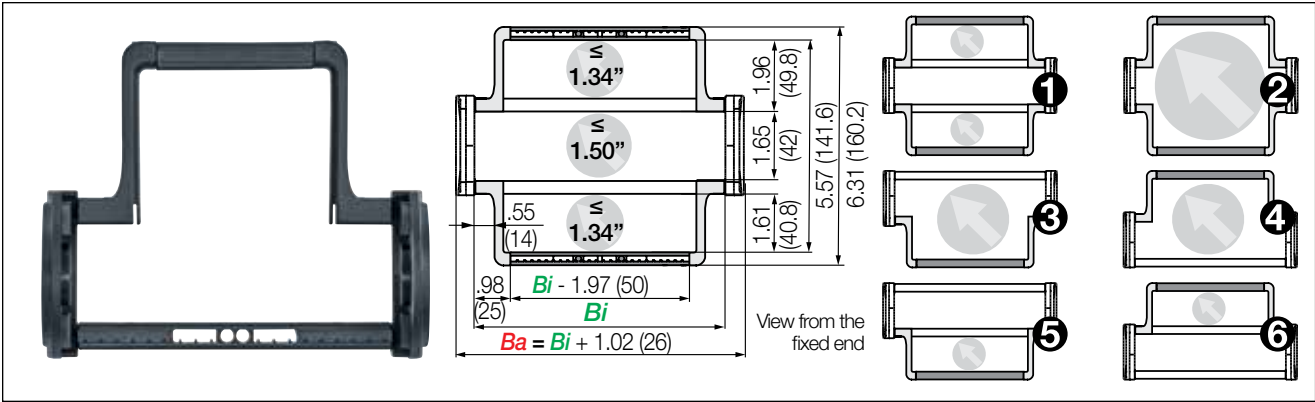
E4-42-Bi1/Bi2/Bi3-R-0



We **strongly recommend** on-site consultation with an igus® technician for individual advice regarding mounting brackets, guide troughs and other design details.

| Part No.                | Part No.              | Part No.                             |
|-------------------------|-----------------------|--------------------------------------|
| Extension link e-chain® | Extension link e-tube | Extension link as an individual part |
| E4-42-Bi1/Bi2/Bi3-R-0   | R4-42-Bi1/Bi2/Bi3-R-0 | 384-R-                               |

Complete Part No. with the width index **Bi1/Bi2/Bi3/etc.** and the radius (**R**). Example: E4-32-10/20/10-200-0



Extender crossbars with flexible width | Safe guiding for large hoses

- For guiding and protecting large hoses
- With mounting for noise dampers
- Cable-friendly design, high crossbar holding force
- The openable extender crossbars can be fitted in different ways and combinations
- Optionally openable along the inner or outer radius

| Versions e-chain®<br>with extender crossbar                                                          | Hose Ø ≤<br>in. (mm) | Part No. e-chain®<br>with extender crossbar |
|------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------|
| 1 Extender crossbar and standard crossbar alternating along the inner and outer radius <sup>1)</sup> | 1.34 (34)            | E4-42-XXXHB50-R-0                           |
| 2 Extender crossbar on both sides along the inner and outer radius <sup>2)</sup>                     | 5.12 (130)           | E4-42-XXXB50-R-0                            |
| 3 Extender crossbar along the outer radius <sup>3)</sup>                                             | 3.35 (85)            | E4-42-XXXBE50-R-0                           |
| 4 Extender crossbar along the inner radius <sup>2)</sup>                                             | 3.35 (85)            | E4-42-XXXBZ50-R-0                           |
| 5 Extender crossbar and standard crossbar alternating along the outer radius <sup>3)</sup>           | 1.34 (34)            | E4-42-XXXHBE50-R-0                          |
| 6 Extender crossbar and standard crossbar alternating along inner radius <sup>1)</sup>               | 1.34 (34)            | E4-42-XXXHBZ50-R-0                          |

- 1) Minimum bend radius: **R 125**  
2) Minimum bend radius: **R 150**  
3) Minimum bend radius: **R 075** \*Width available upon request. Delivery time upon request

Bi [mm] Available inner widths

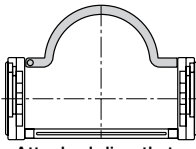
| 100 | 125 | 137 | 150 | 162 | 175 | 187 | 200 | 212 | 225 | 237 | 250 |  
| 262 | 275 | 287 | 300 | 312 | 325 | 337 | 350 | 362 | 375 | 387 | 400 |

Complete Part No. with the width index **XXX Bi** and the radius (**R**). Example  
E4-42-100B50-150-0 = extender crossbar on both sides along inner and outer radius

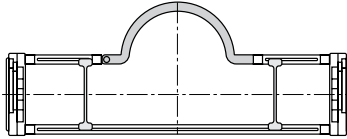


The E4.1 can be fitted with openable extender crossbars, which increase the size of the interior of the e-chain®. Crossbars can be fitted in various ways: from one or both sides, alternating with standard crossbars and or any combination





Attached directly to  
the side link.



Round extender crossbar combined  
with standard snap-open crossbars.

### Extender crossbars

#### For careful guiding of large diameter cables and hoses

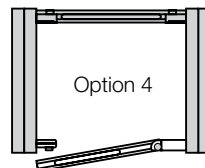
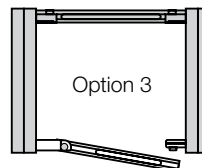
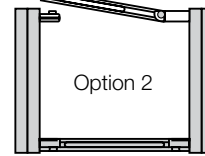
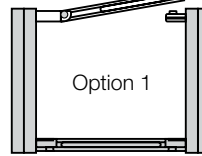
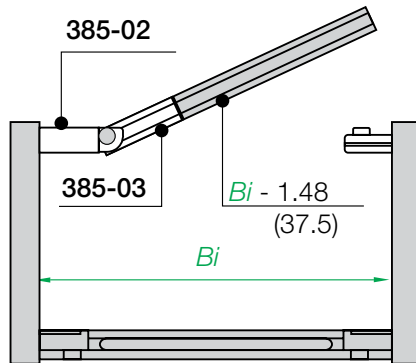
- Intended for cables and hoses with a maximum outer diameter of 4.13 in. (105 mm).
- Gliding operation with crossbars assembled along the outer radius in conjunction with a special guide trough
- Gliding operation not guaranteed with crossbars assembled along the inner radius
- The extender crossbar can either be attached to the side links directly or can be used in combination with two standard snap-open crossbars.



| Part No.      | Max Ø Hose<br>in. (mm) | Style | Installation<br>Side Link | Combined with<br>Snap-Open Crossbars |
|---------------|------------------------|-------|---------------------------|--------------------------------------|
| 385-15-RHD115 | 4.13 (105)             | Round | No                        | Yes                                  |
| 385-18-RD115  | 4.13 (105)             | Round | Yes                       | No                                   |

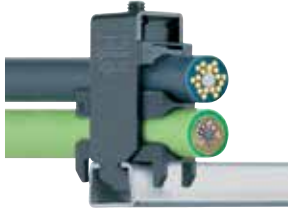
### Hinged crossbars

- 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.
- Hinged crossbar: Part No. 385-02
- Snap-open crossbar (shortened): Bi-1.48" (37.5 mm) Part No. 385-03 (smallest inner width Bi = 3.44" (87.5 mm))



| Part No.                      | Part No.                          | Part No. openable              |
|-------------------------------|-----------------------------------|--------------------------------|
| e-chain® with hinged crossbar | swivel clip as an individual part | crossbar as an individual part |
| E4-42-Bi-Z-R-0                | 385-02                            | 385-03                         |

## 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   | (06 - 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) |

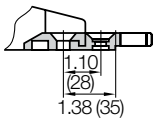
For more information please refer to strain relief section of Chapter 10.

## Tiewrap Plates

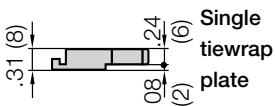
### Option 1:

#### 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.

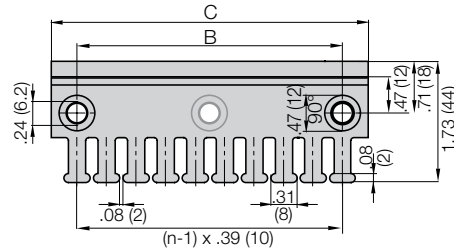


Shown  
assembled



Single  
tiewrap  
plate

| Tiewrap Plate | n<br>Number of Teeth | C<br>Overall Width in. (mm) | B<br>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



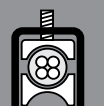
### Option 2:

#### 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.



Width of Crossbar  
E4-42-05-200-0

|      |             |                          |
|------|-------------|--------------------------|
|      | $B_{Ri}$    | Installation<br>Part No. |
| -05  | 3.19 (81)   | 93-50-200                |
| -06  | 3.90 (99)   | 93-50-225                |
| -07  | 4.17 (106)  | 93-50-225                |
| -087 | 4.69 (119)  | 93-50-250                |
| -097 | 4.92 (125)  | 93-50-250                |
| -10  | 5.16 (131)  | 93-50-250                |
| -11  | 5.47 (139)  | 93-50-250                |
| -112 | 5.67 (144)  | 93-50-275                |
| -12  | 6.14 (156)  | 93-50-275                |
| -137 | 6.65 (169)  | 93-50-300                |
| -15  | 7.12 (181)  | 93-50-300                |
| -162 | 7.64 (194)  | 93-50-325                |
| -17  | 7.83 (199)  | 93-50-325                |
| -18  | 8.11 (206)  | 93-50-325                |
| -187 | 8.62 (219)  | 93-50-350                |
| -20  | 9.09 (231)  | 93-50-350                |
| -212 | 9.61 (244)  | 93-50-375                |
| -23  | 10.08 (256) | 93-50-375                |
| -237 | 10.59 (269) | 93-50-400                |
| -25  | 11.06 (281) | 93-50-400                |
| -262 | 11.57 (294) | 93-50-425                |
| -28  | 12.05 (306) | 93-50-425                |
| -29  | 12.56 (319) | 93-50-450                |
| -30  | 13.03 (331) | 93-50-450                |
| -312 | 13.54 (344) | 93-50-475                |
| -325 | 14.01 (356) | 93-50-475                |
| -337 | 14.52 (369) | 93-50-500                |
| -350 | 15.00 (381) | 93-50-500                |
| -362 | 15.51 (394) | 93-50-525                |
| -375 | 16.02 (407) | 93-50-525                |
| -387 | 16.50 (419) | 93-50-550                |
| -400 | 16.97 (431) | 93-50-550                |

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

-XX indicates the length of the profile rail on which the guide trough is mounted. The values and part numbers are specified in the table below. 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 bar

= 25 sections of 6.56 ft (2 m) guide trough

**Part No. 93-30**

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

**Part No. 93-01**

Required number of installation sets:

= Number of guide trough components + 1

= 25 + 1 = 26

Part No. of the installation sets **93-50-XXX**

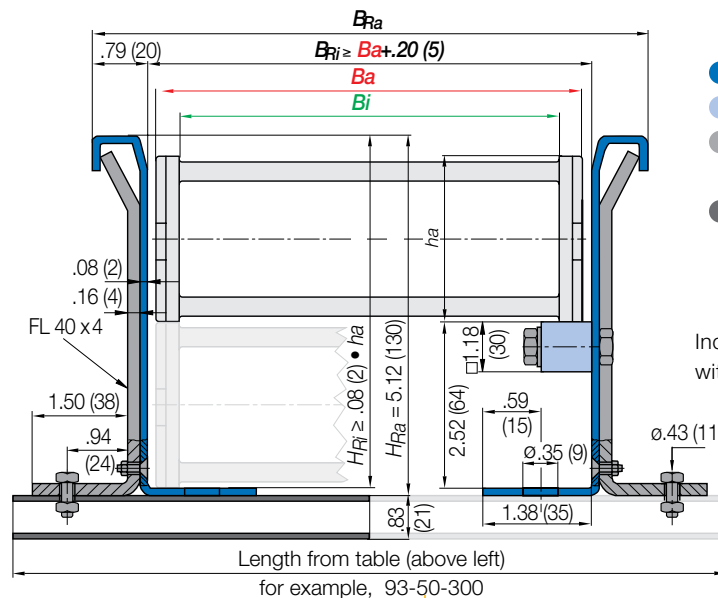
Example: 93-50-400 for 15.75 (400 mm) long profile rail



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