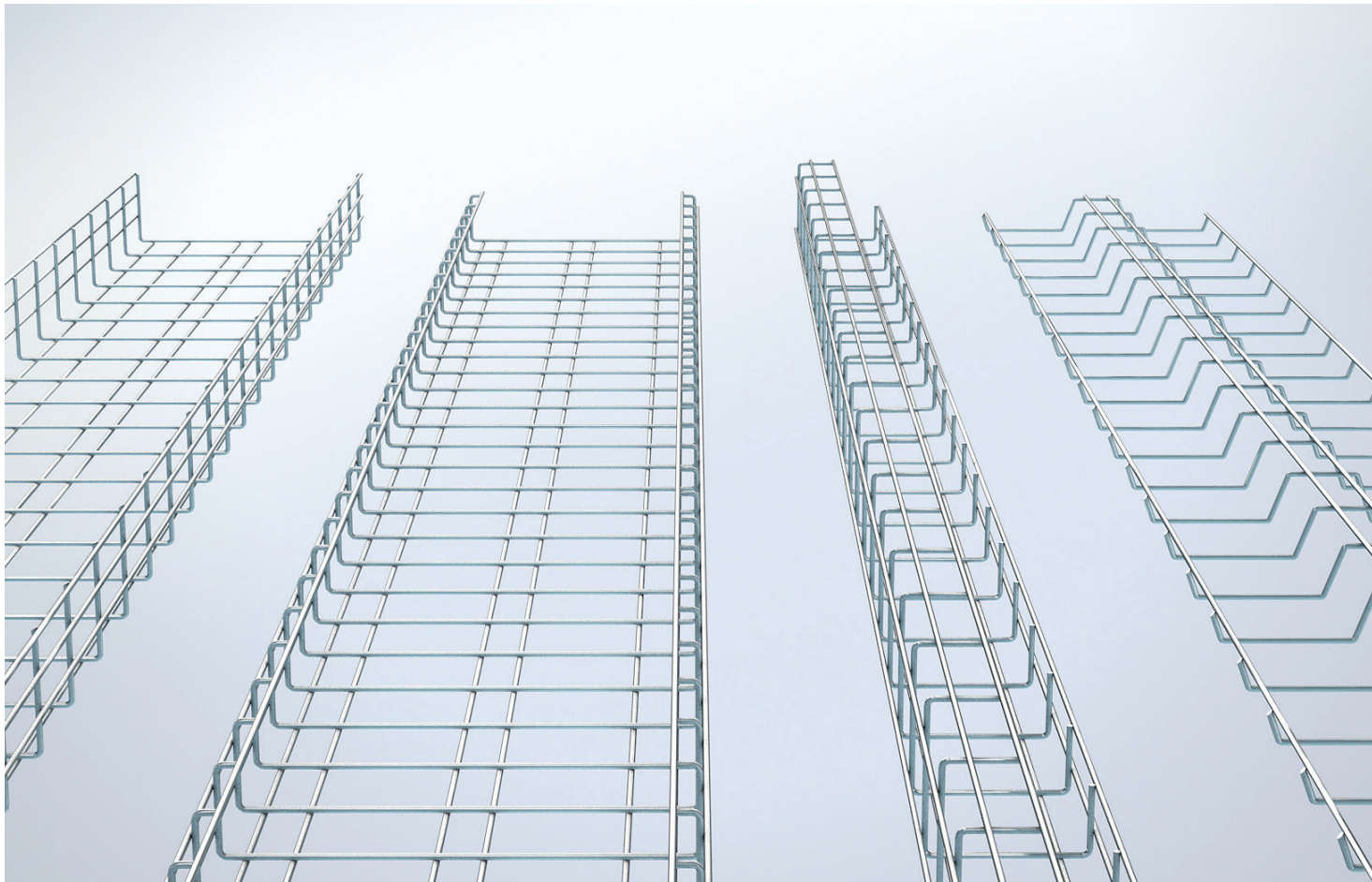


Mesh cable trays

Assembly instruction



General notes



The support systems for mesh cable trays are to be planned according to engineering standards. The permissible torque must be observed for all screw connections.



Cutting and separating work
Carry out cutting and separating work with the utmost care and in compliance with occupational health and safety regulations. Ex. fig. mesh cable tray cover GD 50-06



Galvanising
All cut and separation points are to be galvanised on site with cold zinc paint (KZF)* or cold zinc spray (KZS)* after deburring.



A legend of the symbols and an index can be found on page 3.

Selection of screw tightening torques (recommended)

Bolt diameter	Strength class Screw (DIN 267 Part 3)	Strength class Nut (DIN 267 Part 4)	Screw tightening torque acc. to VDI 2230 (Nm)
M6	4.6	5	4
M8	4.6	5	8
M6	8.8	8	14
M8	8.8	8	34

The assembly instructions also apply to the mesh cable tray G 100 not shown graphically.
* The item mentioned is not included in the scope of delivery and must be ordered separately.

Legend

Symbols



Wear safety goggles



Wear hearing protection



Observe tightening torque for fastening elements

Index

Mesh cable trays

G 50	U-shaped mesh cable tray, height = 53 mm
G 100	U-shaped mesh cable tray, height = 103 mm
GI	C-shaped mesh cable tray, height = 60 mm
GTDW	G-shaped mesh cable tray
GTD 30	W-shaped mesh cable tray

Covers

GD	Mesh cable tray cover
GDR	Mesh cable tray cover with turning bolts
GID	Mesh cable tray cover
GIDR	Mesh cable tray cover with turning bolts
GD-SW	Storm protection angle
GID-SW	Storm protection angle

Accessories

MP-G	Assembly plate
MP-G90	Assembly plate 90°
GVR	Mesh cable tray snap-in connector
GV 30	Mesh cable tray connector
GVD 30	Mesh cable tray connector
GV-L 30	Mesh cable tray connector
GVU	Mesh cable tray connector, universal
GVK	Mesh cable tray connector clamp
GTR 50	Mesh cable tray separating strip, height = 33 mm
GTR 60	Mesh cable tray separating strip, height = 50 mm
GTR 100	Mesh cable tray separating strip, height = 80 mm
GKAB	Drop-out plate
KLUGS	Clamp mounting universal, welded, vertical
KLUGW	Clamp mounting universal, welded, horizontal
MKD L	Lug
GBH 30	Spacer bar for mesh cable tray detent dimension 30
GBH 50	Spacer bar for mesh cable tray detent dimension 50
KZF	Cold zinc paint
KZS	Cold zinc spray
BBS	Bolt flush cutter 40°

Fastening accessories

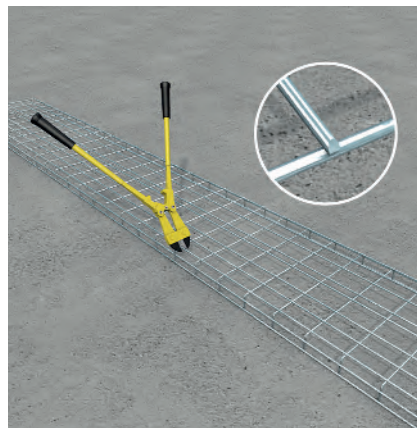
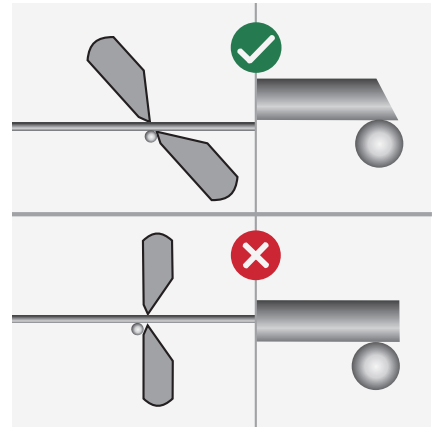
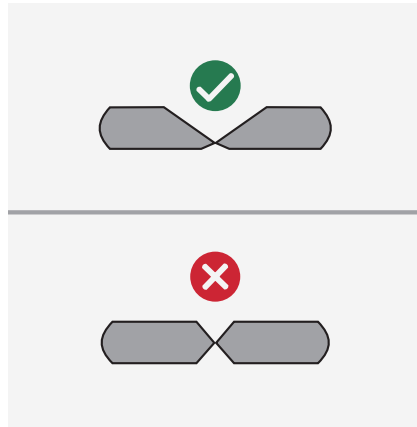
FRS 8x25	Round-head screw with square, DIN 603
FRSV 8x16	Round-head screw with short square, DIN 603
GH 6x24	Fastening hook
KLS 8x25	Clamp fastening set
SAZ	Anchor
SAZ-D	Anchor
SD 8/10	Expansion anchor
SEM 8	Hexagon-nut, DIN 934
SEMSS 6	Hexagon-nut, self-locking, DIN 985
SES 6x20	Hexagon head bolt, DIN 933
SES 8x20	Hexagon head bolt, DIN 933
SES 8x20	Hexagon head bolt, DIN 933
SES 8x25	Hexagon head bolt, DIN 933
SES 8x35	Hexagon head bolt, DIN 933
US 8x17	Washer, DIN 125
US 8x25	Washer, DIN 9021
VM	Rod coupling

Cutting work



Bolt flush cutter

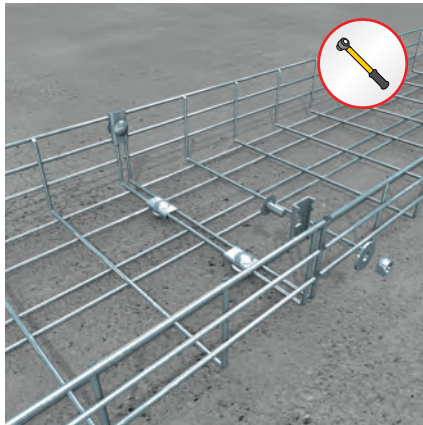
Create the required mesh cut-outs using a bolt flush cutter 40° (BBS)*.



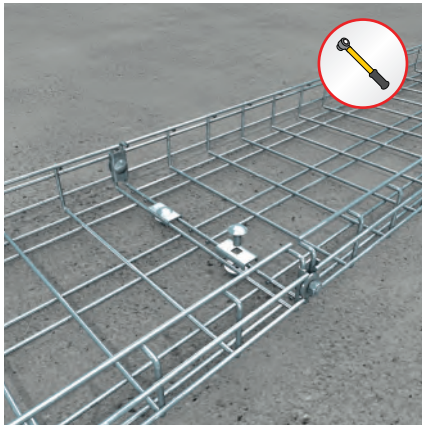
The top illustration shows a U-shaped mesh cable tray G 50-40 assembled for a bend installation. Except for the lateral wires (G 50 = 2 pieces/G 100 = 3 pieces), all wire braces must be removed.

* The item mentioned is not included in the scope of delivery and must be ordered separately.

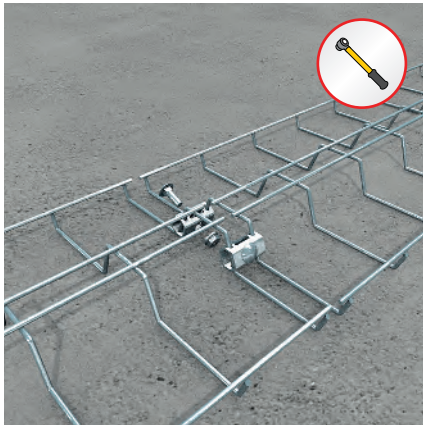
Mesh cable tray connectors



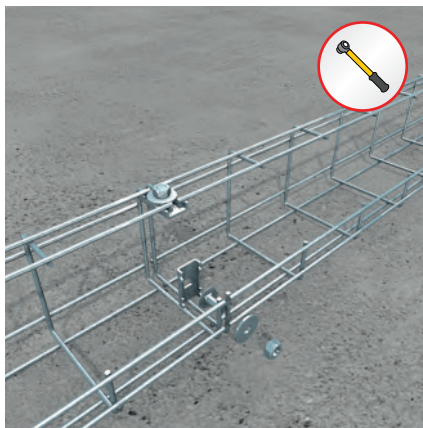
GV 30 for mesh cable tray G 50/G 100
Place one GV 50/GV 100 with connector GV 30* from the inside onto the other GV 50/GV 100 and screw them with a round-head screw (FRSV 8x16).



GV 30 for mesh cable tray GI
Place one GI with connector GV 30* from the inside onto the other GI and screw them together with a round-head screw (FRSV 8x16).



GVD 30 for mesh cable tray GTD 30
Place one GTD 30 with connector GVD 30* from above on the other GTD 30 and screw them together with a round-head screw (FRS 8x25).

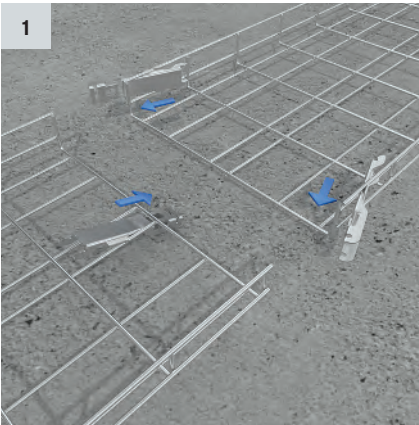


GV 30 for mesh cable tray GTDW
Place one GTDW with connector GV 30* from the inside onto the other GTDW and screw them together with a round-head screw (FRSV 8x16).

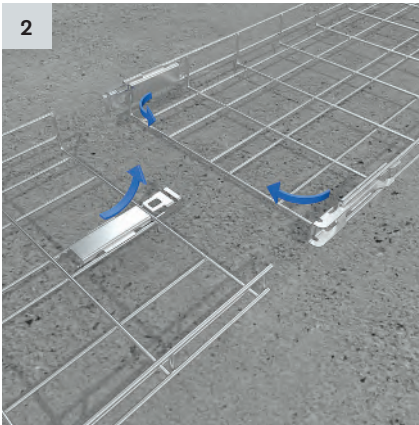
Type of mesh cable tray	Width of mesh cable tray [mm]	Number of connectors		
		Side	Top	Bottom
G 50/G 100	100, 200	2x GV 30		1x GV 30
	300, 400	2x GV 30	-	2x GV 30
	500, 600	2x GV 30		3x GV 30
GI	60	2x GV 30		1x GV 30
	120	2x GV 30		1x GV 30
	200	2x GV 30	-	1x GV 30
	300	2x GV 30		2x GV 30
GTD 30	300	-	2x GVD 30	-
GTDW	80 - 130	1x GV 30	1x GV 30	-

* The item mentioned is not included in the scope of delivery and must be ordered separately.

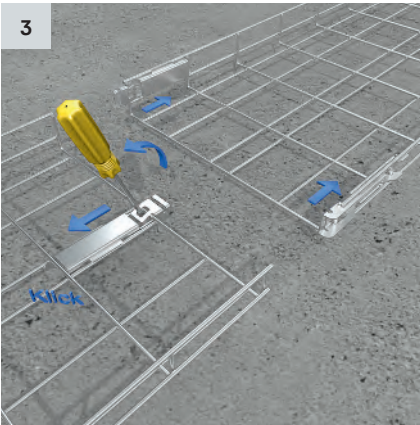
Mesh cable tray connectors



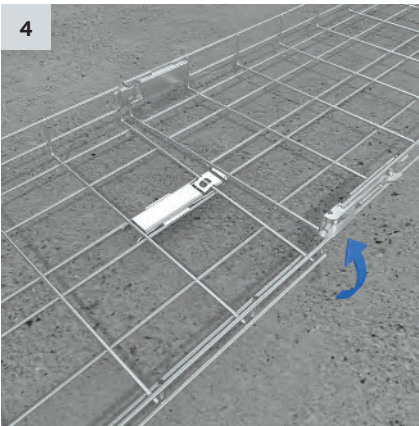
Insert connectors from the inside between the longitudinal wires. Mount bottom connector on opposite mesh cable tray.



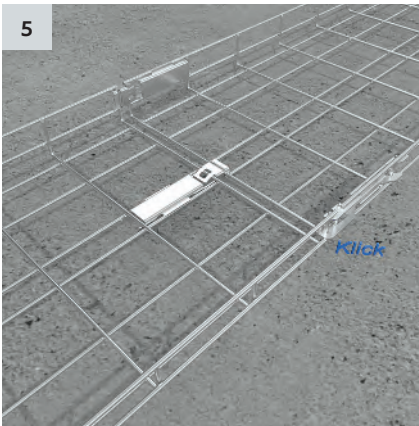
Turn in.



Engage with slotted screwdriver and lock the bending tab (from inside or outside).



Position the cross wire in the guide on one side and snap it into place from the bottom opposite the beam.



Snap in.

Type of mesh cable tray	Width of mesh cable tray [mm]	Wire diameter [mm]	Snap-in connector	Number of connectors	
				Side	Bottom
G 50	100, 200, 300	4,0	GVR 4.0	2	1
G 100	100, 200	4,0	GVR 4.0	2	1



The connector is not compatible with G 50 widths 400-600 or G 100 widths 300-600.

Horizontal changes of direction



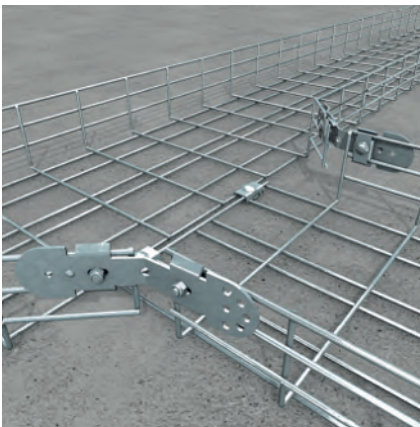
Mesh cable tray branch at corners for U-shaped mesh cable trays G 50/G 100
Remove the wire braces corresponding to the illustration for the mesh cable trays with bolt flush cutter (BBS)*. Slide the G 50's/G 100's over each other and screw them together with connectors (GV 30 and GVD 30)* and round-head screws (FRSV 8x16 and FRS 8x25).

Width of mesh cable tray [mm]	Number GV 30 for side	Number GVD 30 for bottom
100, 200	2x	2x
300, 400	2x	4x
500, 600	2x	6x



Standard mesh cable tray branch for U-shaped mesh cable trays G 50/G 100
Remove the wire braces corresponding to the illustration for the mesh cable trays with bolt flush cutter (BBS)*. Join the G 50's/G 100's, screw the connectors (GV 30 and GVD 30)* from the inside onto the mesh cable trays with round-head screws (FRSV 8x16 and FRS 8x25).

Width of mesh cable tray [mm]	Number GV 30 for side	Number GVD 30 for bottom
100, 200	2x	1x
300, 400	2x	2x
500, 600	2x	3x



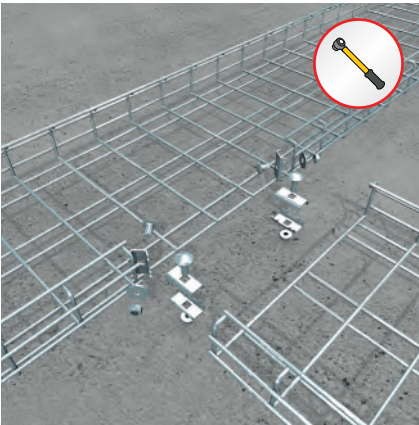
Mesh cable tray branch with radius for U-shaped mesh cable trays G 50/G 100
Remove the wire braces corresponding to the illustration for the mesh cable trays with bolt flush cutter (BBS)*. Join the G 50's/G 100's. Bottom: Screw the connectors (GV 30)* from the inside onto the mesh cable trays with round-head screws (FRSV 8x16).

Width of mesh cable tray [mm]	Number GVU/GVK for side	Number GV 30 for bottom
100, 200	2x/ 4x	1x
300, 400	2x/ 4x	2x
500, 600	2x/ 4x	3x

Sides: Screw the mesh panel universal connector (GVU)* from the outside onto the mesh panels with the clamping piece (GVK)* and clamping screw (FRS 6x20).

* The item mentioned is not included in the scope of delivery and must be ordered separately.

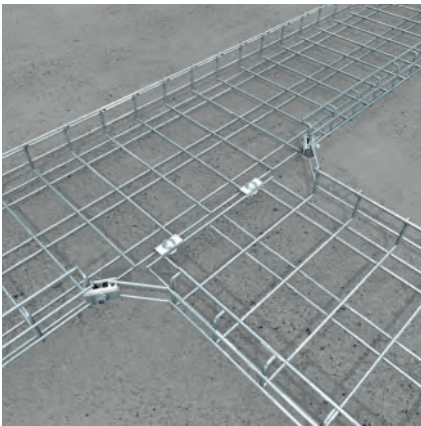
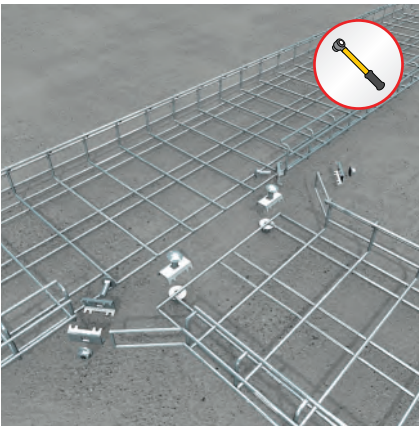
Horizontal changes of direction



Standard mesh cable tray branch for C-shaped mesh cable tray GI

Remove the wire braces as shown in the illustration for the mesh cable trays using a bolt flush cutter (BBS)*. Join the GI's, screw the connectors (GV 30 and GVD 30)* from the inside onto the mesh cable trays with round-head screws (FRSV 8x16 and FRS 8x25).

Width of mesh cable tray [mm]	Number GV 30 for side	Number GVD 30 for bottom
60	2x	1x
120	2x	1x
200	2x	1x
300	2x	2x



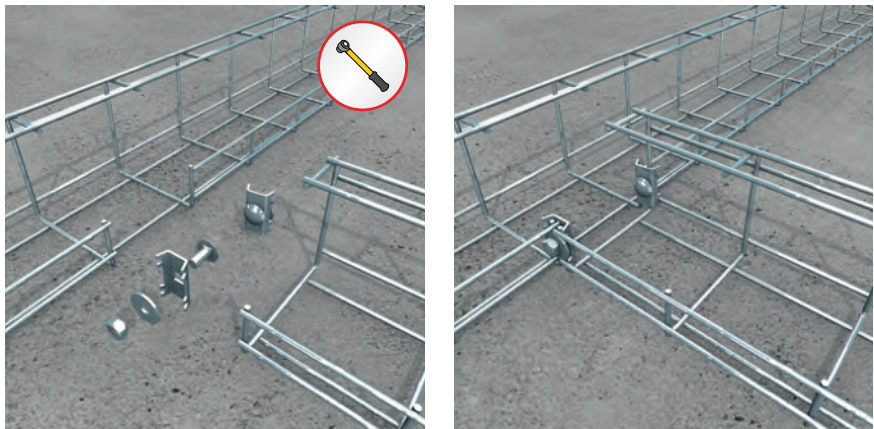
Mesh cable tray branch with radius for C-shaped mesh cable tray GI

Remove the wire braces as shown in the illustration for the mesh cable trays using a bolt flush cutter (BBS)*. Join the GI's, screw the connectors (GV 30 and GVD 30)* from the inside onto the mesh cable trays with round-head screws (FRSV 8x16 and FRS 8x25).

Width of mesh cable tray [mm]	Number GVD 30 for side	Number GV 30 for bottom
60	2x	1x
120	2x	1x
200	2x	1x
300	2x	2x

* The item mentioned is not included in the scope of delivery and must be ordered separately.

Horizontal changes of direction



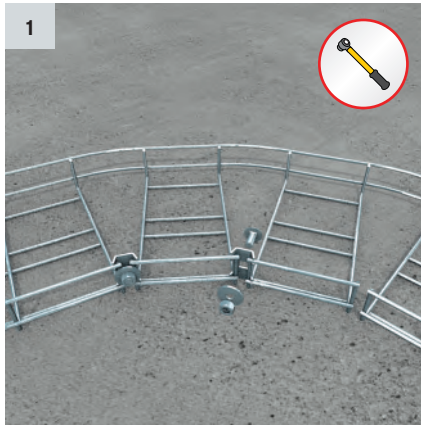
Standard branch for G-shaped mesh cable tray GTDW

Remove the wire braces as shown in the illustration for the mesh cable trays using a bolt flush cutter (BBS)*. Assemble the GTDW's, screw the connectors (GV 30)* from the inside onto the mesh cable trays using round-head screws with short square (FRSV 8x16).

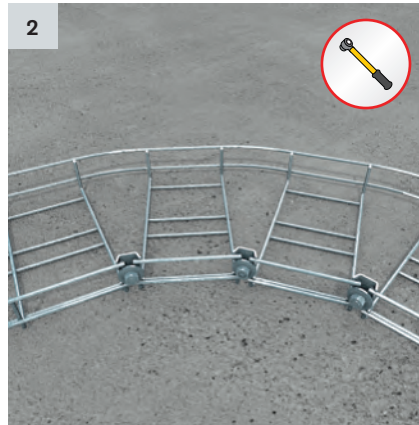
Width of mesh cablte tray [mm]	Number GV 30 for side
80 - 130	2x

* The item mentioned is not included in the scope of delivery and must be ordered separately.

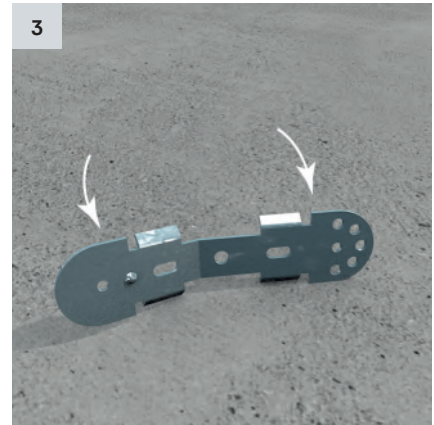
Horizontal segmental construction



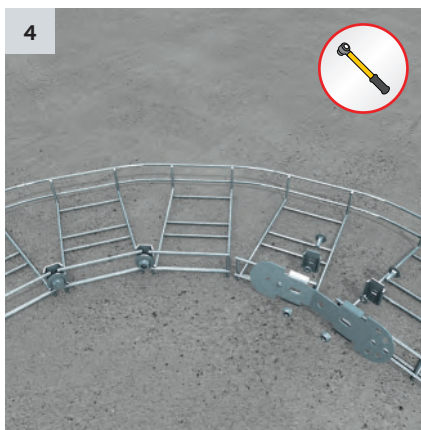
1 Position the mesh cable tray and fix it in place using the mesh cable connector (GV 30)*.



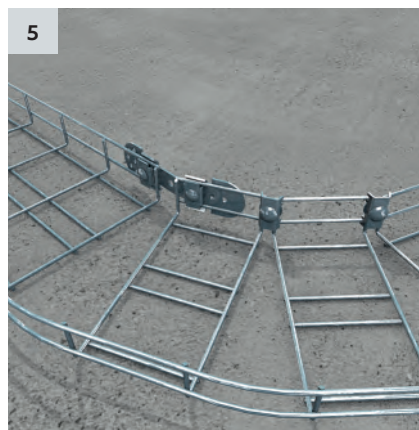
2 First mount all connectors (GV 30)* before screwing the first universal connector (GVU)*.



3 Adjust the GVU* to determine the angle of the mesh cable tray.



4 Fit the clamping piece for the GVK* into the slots of the GVU*.



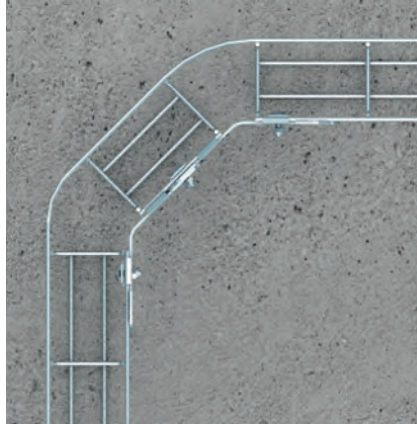
5 Make sure that the curved sides of the GVU* face inwards.

* The item mentioned is not included in the scope of delivery and must be ordered separately.

Horizontal segmental construction



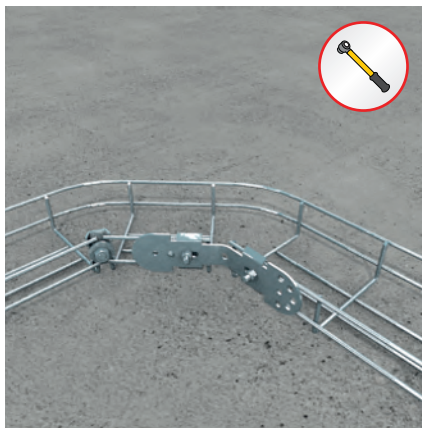
U-shaped mesh cable tray G 50-06



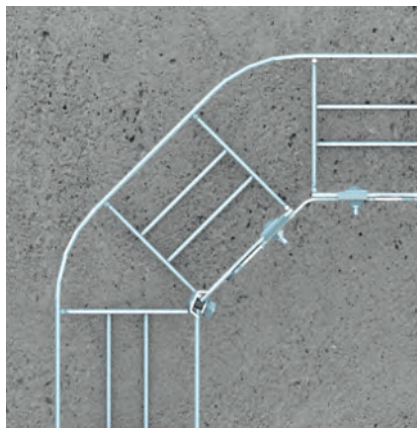
Cutting work
to create: 2 mesh cutouts
Inner radius: 130 mm



Required accessories
2x GVU*; 3x GVK*



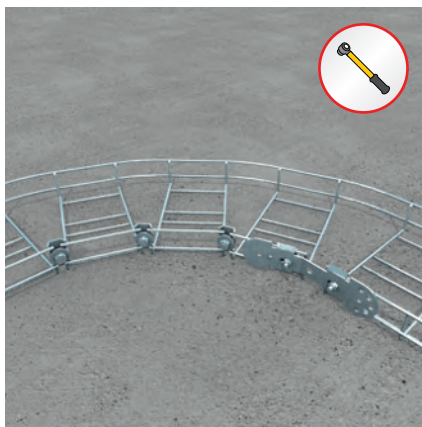
**U-shaped mesh cable tray
G 50-10/G 100-10**



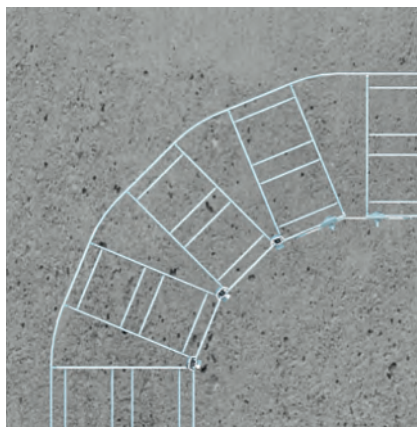
Cutting work
to create: 2 mesh cutouts
Inner radius: 90 mm



Required accessories
1x GV 30*; 1x GVU*; 2x GVK*



**U-shaped mesh cable tray
G 50-20/G 100-20**



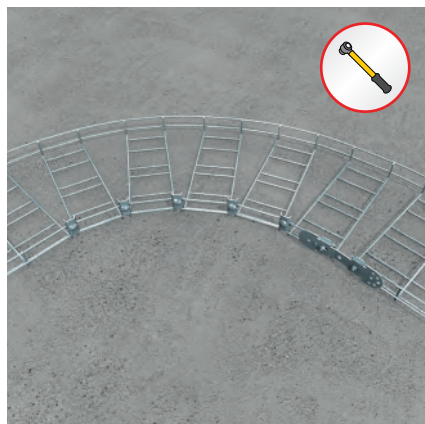
Cutting work
to create: 4 mesh cutouts
Inner radius: 250 mm



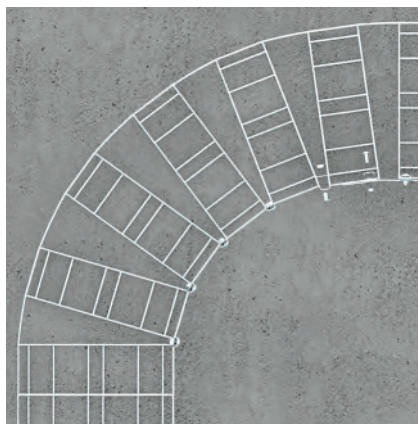
Required accessories
3x GV 30*; 1x GVU*; 2x GVK*

* The item mentioned is not included in the scope of delivery and must be ordered separately.

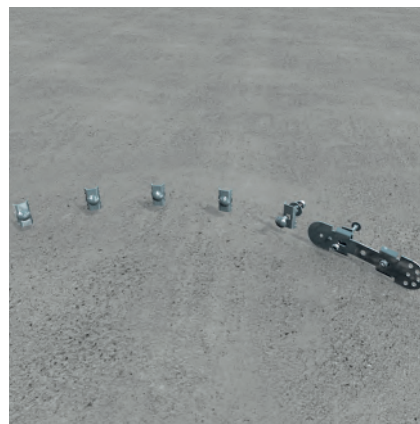
Horizontal segmental construction



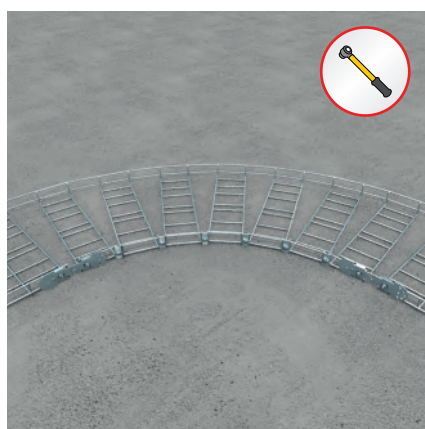
U-shaped mesh cable tray
G 50-30/G 100-30



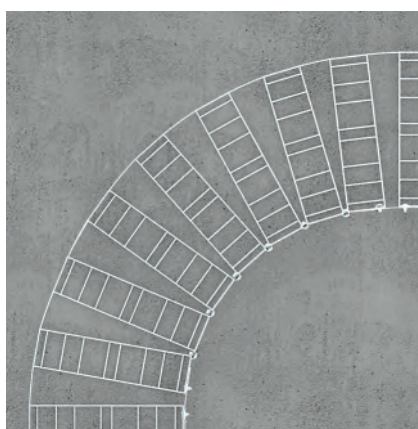
Cutting work
to create: 6 mesh cutouts
Inner radius: 390 mm



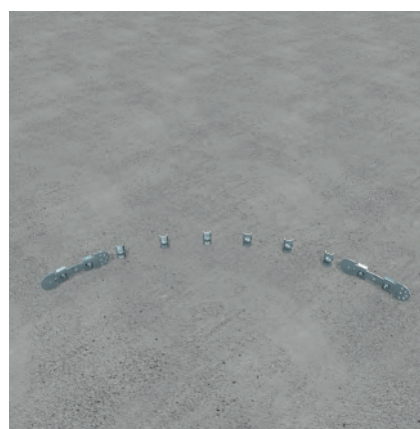
Required accessories
5x GV 30*; 1x GVU*; 2x GVK*



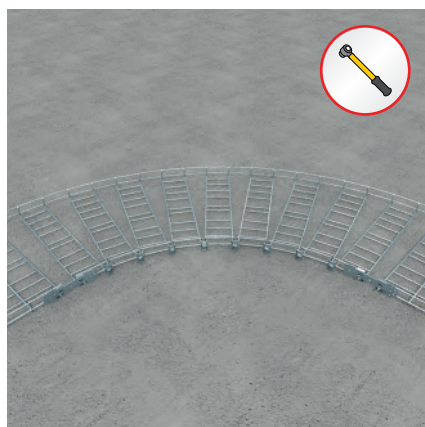
U-shaped mesh cable tray
G 50-40/G 100-40



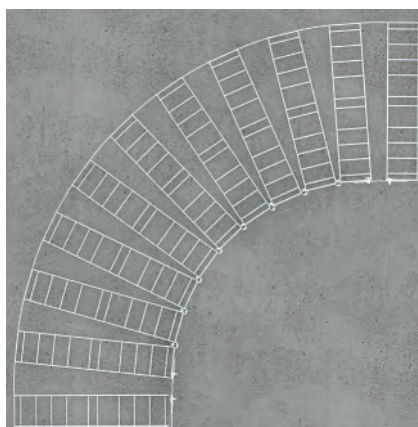
Cutting work
to create: 8 mesh cutouts
Inner radius: 550 mm



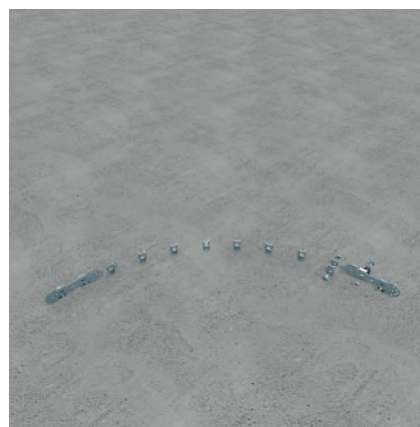
Required accessories
6x GV 30*; 2x GVU*; 4x GVK*



U-shaped mesh cable tray
G 50-50/G 100-50



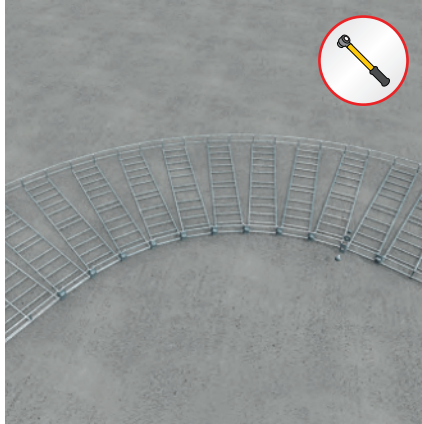
Cutting work
to create: 10 mesh cutouts
Inner radius: 700 mm



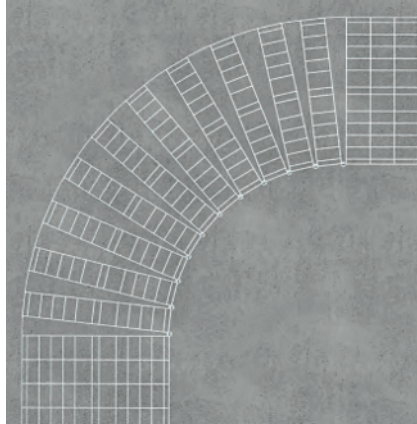
Required accessories
8x GV 30*; 2x GVU*; 4x GVK*

* The item mentioned is not included in the scope of delivery and must be ordered separately.

Horizontal segmental construction



U-shaped mesh cable tray
G 50-60/G 100-60



Cutting work
to create: 11 mesh cutouts
Inner radius: 740 mm



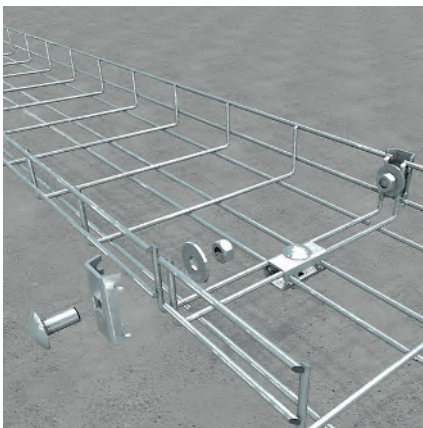
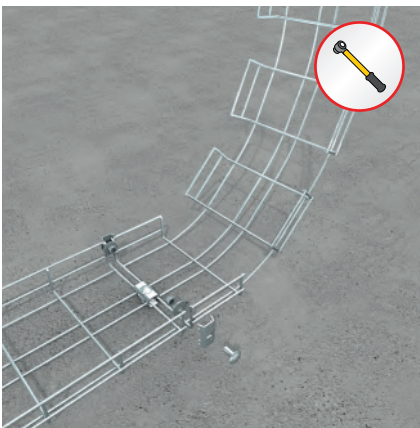
Required accessories
11x GV 30*

* The item mentioned is not included in the scope of delivery and must be ordered separately.

Vertical changes of direction



Vertical changes of direction with universal mesh cable tray connector GUV
Push the GUV* from the outside onto the beam and screw it with the connector clamp (GVK)* and hexagon head bolt (SES 6x20) and self-locking hexagon-nut (SEMSS 6) (adjust the angle before finally screwing).



Optional: Connection of inside/outside riser with mesh cable tray connector
Remove the wire braces as shown in the illustration for the mesh cable trays using a bolt flush cutter (BBS)*. Optional for inside/outside riser (G 50/G 100/GI): Screw the connectors (GV 30 and GVD 30)* from the inside onto the mesh cable trays with round-head screws (FRSV 8x16 and FRSV 8x25).

Mesh cable tray G 50/G100

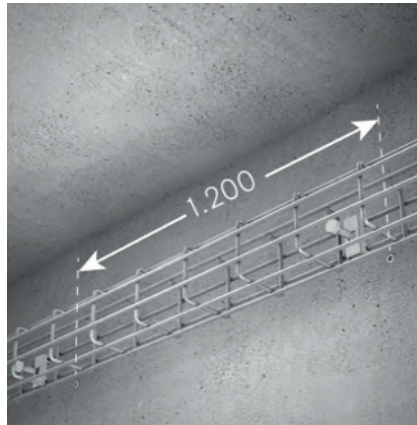
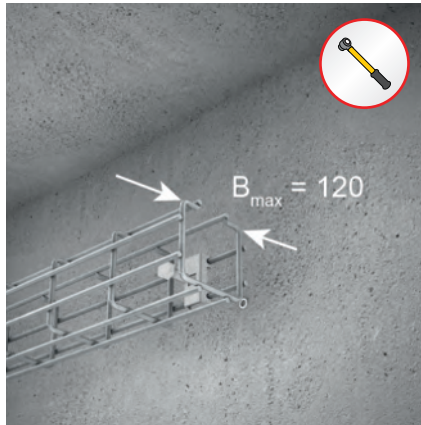
Width of mesh cable tray [mm]	Number GV 30 for side	Number GVD 30 for bottom
100, 200	2x	1x
300, 400	2x	2x
500, 600	2x	3x

Mesh cable tray GI

Width of mesh cable tray [mm]	Number GV 30 for side	Number GVD 30 for bottom
60	2x	1x
120	2x	1x
200	2x	1x
300	2x	2x

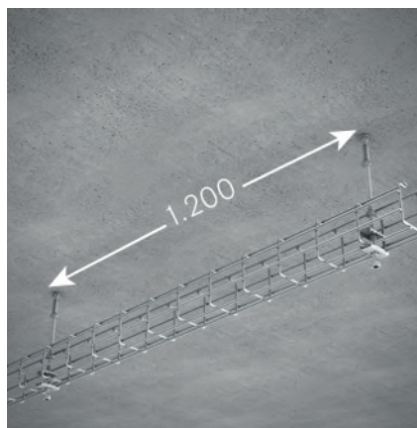
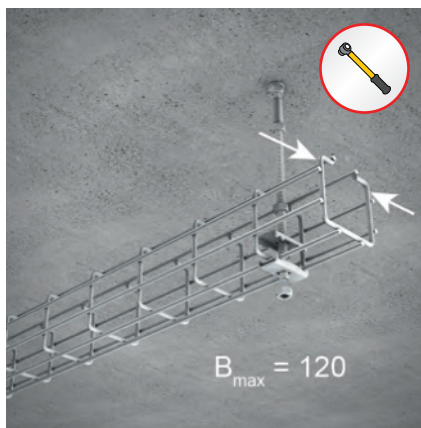
* The item mentioned is not included in the scope of delivery and must be ordered separately.

Wall and ceiling mounting



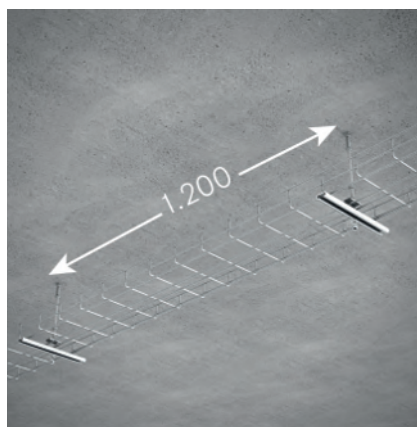
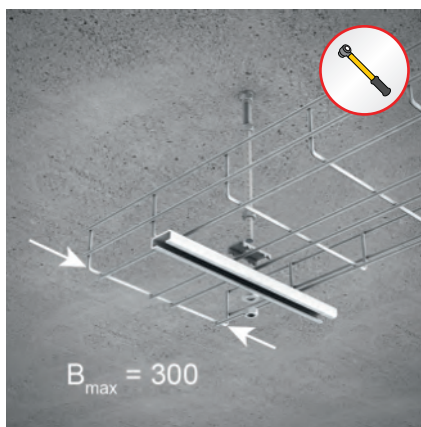
Wall mounting

Dowel the mesh cable tray (GI/G 50) with connector (GV-L 30)*, hexagon head bolt (SES 8x20)* and anchor (SAZ-D 8)* at a standard support spacing of 1,200 mm to the concrete wall up to max. width 120 mm.



Ceiling mounting with external centre suspension GBAG 10

Dowel the mesh cable tray (GI/G 50) with GBAG 10*, connector set (GV-L 30, SEM 8, US 8x17), rod coupling (VM M8)* and expansion anchor (SD 8/10)* at a standard support spacing of 1,200 mm to concrete ceiling up to max. width 120 mm.

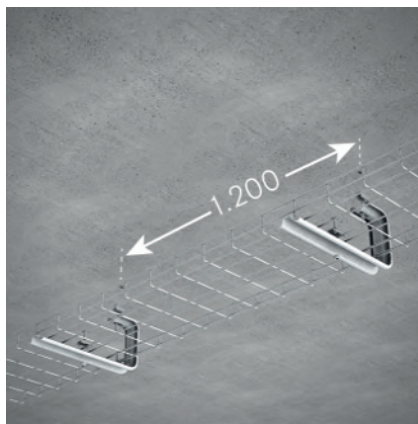
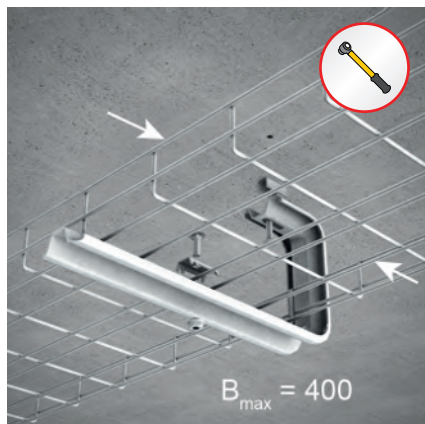


Ceiling mounting with external centre suspension GBAG 20/30

Dowel the mesh cable tray (GI/G 50) with GBAG 20/30*, connector set (GV-L 30, SEM 8, US 8x25), rod coupling (VM M8)* and expansion anchor (SD 8/10)* at a standard support spacing of 1,200 mm to concrete ceiling up to max. width 300 mm.

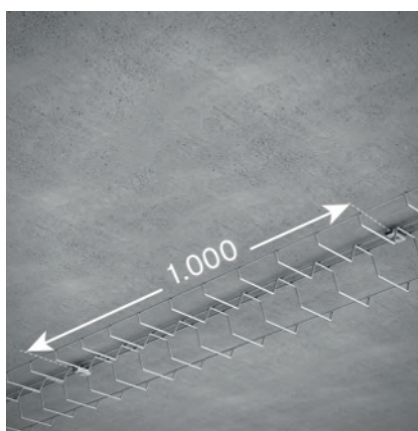
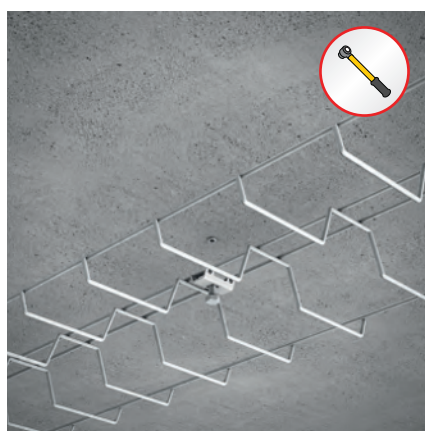
* The item mentioned is not included in the scope of delivery and must be ordered separately.

Wall and ceiling mounting



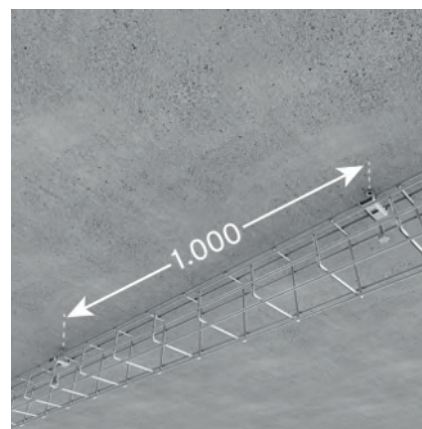
Ceiling mounting with ceiling fixed bracket DKSL

Dowel the DKSL* to the concrete ceiling at the standard support spacing of 1,200 mm using an anchor (SAZ 8)* with anchor (SAZ-D 8)* and hexagon head screw (SES 8x35)*. Screw mesh cable tray (G50/G 100/GI) with connector (GV-L 30)* and clamp fastening set (KLS 8x25)* to DKSL.



Ceiling mounting with connector GV-L 30 and anchor SAZ

Dowel the W-shaped mesh cable tray (GTD 30) with the connector (GV-L 30)*, hexagon head bolt (SES 8x20)* and anchor SAZ 8* with anchor (SAZ-D 8)* to concrete ceiling at standard support spacing of 1,000 mm.

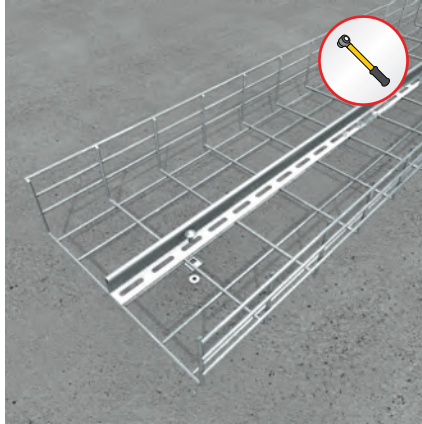


Wall and ceiling mounting with connector GV-L 30 and anchor SAZ

Dowel the G-shaped mesh cable tray (GTDW) with connector (GV-L 30)*, hexagon head bolt (SES 8x20)* and anchor (SAZ8)* with anchor (SAZ-D 8)* to concrete ceiling/wall at standard support spacing of 1,000 mm.

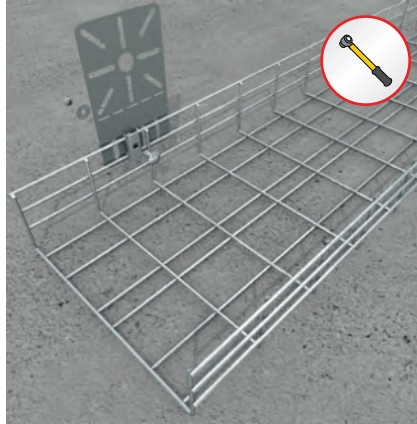
* The item mentioned is not included in the scope of delivery and must be ordered separately.

Additional installations



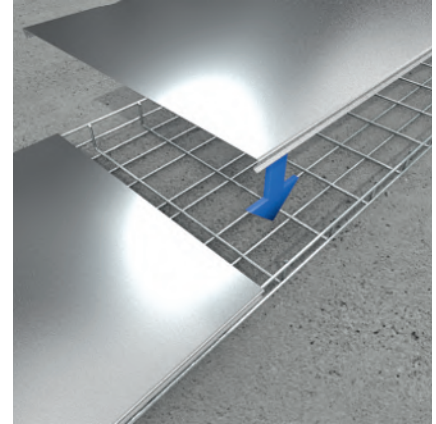
Mesh cable tray separating strip GTR

Fasten the GTR 50/60/100 3 times with the clamp fastening set (KLU) to the mesh cable trays (approx. 100 mm from both divider ends as well as centrally).



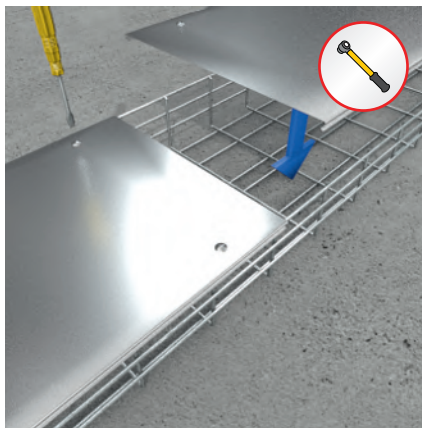
Assembly plate MP-G

Screw the MP-G* for the electrical component to the mesh cable tray beam 1-fold with the connector (GV 30) from the inside.



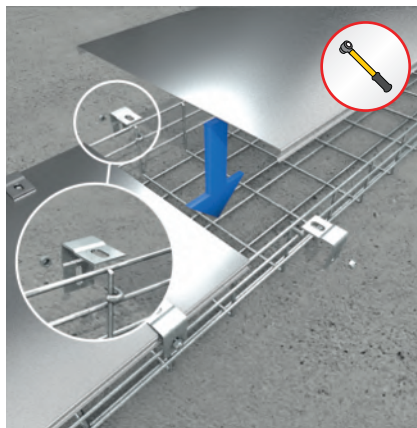
Mesh cable tray cover GD

Place GD* on the U-shaped mesh cable tray (G 50/G 100) and engage positively on the beams. Only approved for indoor use!



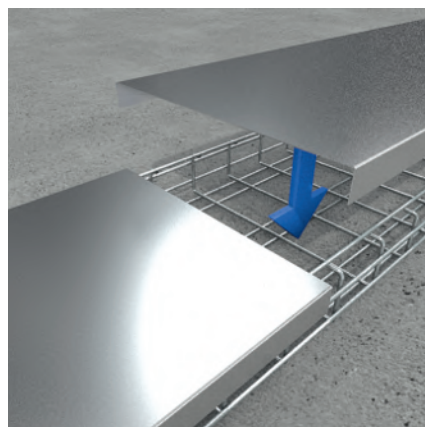
Mesh cable tray cover with turning bolts GDR

GDR* is mounted in the same way as GD. Tighten the turning bolt until the screw head slot points lengthwise to the mesh cable tray. Only approved for indoor use!



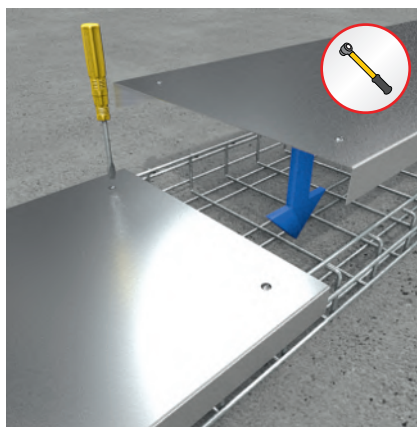
Storm protection angle GD-SW

Fix the fastening hook (GH 6x24) according to the detail, place the storm protection angle (GD-SW)* on the cover from the outside and screw it on with a self-locking hexagon-nut (SEMSS 6). Suitable for outdoor use! 6 pieces/3 metres.



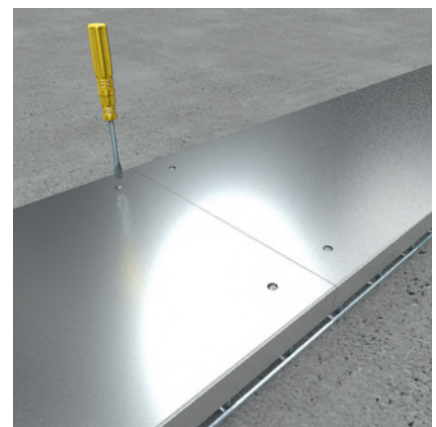
Mesh cable tray cover GID

Place GID* on the C-shaped mesh cable tray (GI). Only approved for indoor use!



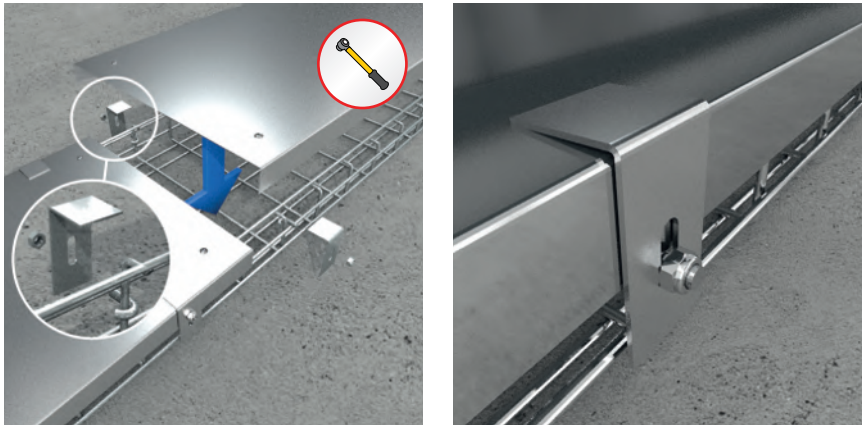
Mesh cable tray cover with turning bolts GIDR

GIDR* is mounted in the same way as GI (see picture GDR). In addition, tighten the turning bolt with a screwdriver until the screw head slot points lengthwise to the mesh cable tray. Only approved for indoor use!



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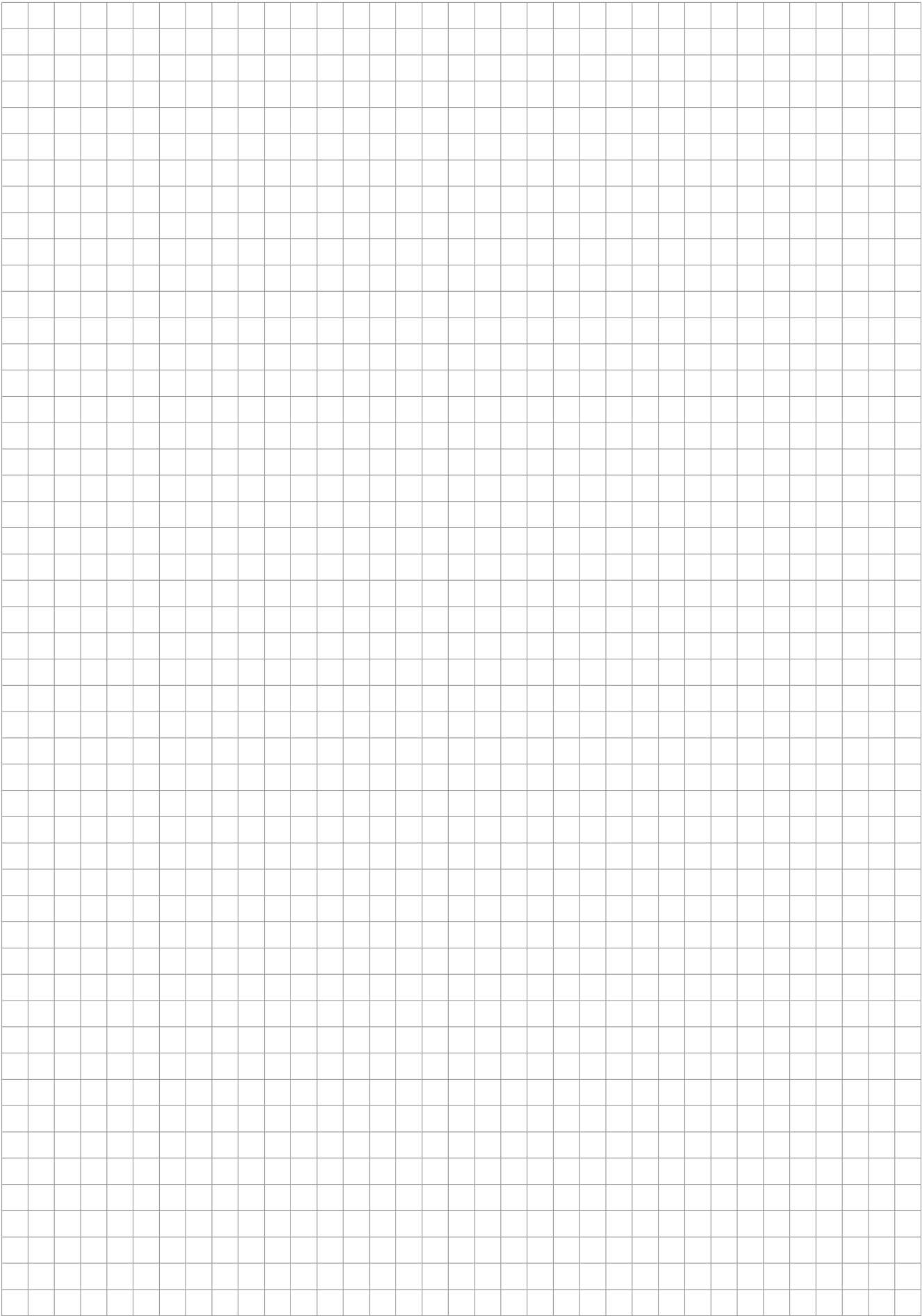
Additional installations



Storm protection angle GID-SW

Fix the fastening hooks (GH 6x24) according to the detail, place the storm protection angle (GID-SW)* on the cover from the outside and screw it on with a self-locking hexagon-nut (SEMSS 6). Suitable for outdoor use! 6 pieces/3 metres.

* The item mentioned is not included in the scope of delivery and must be ordered separately.



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