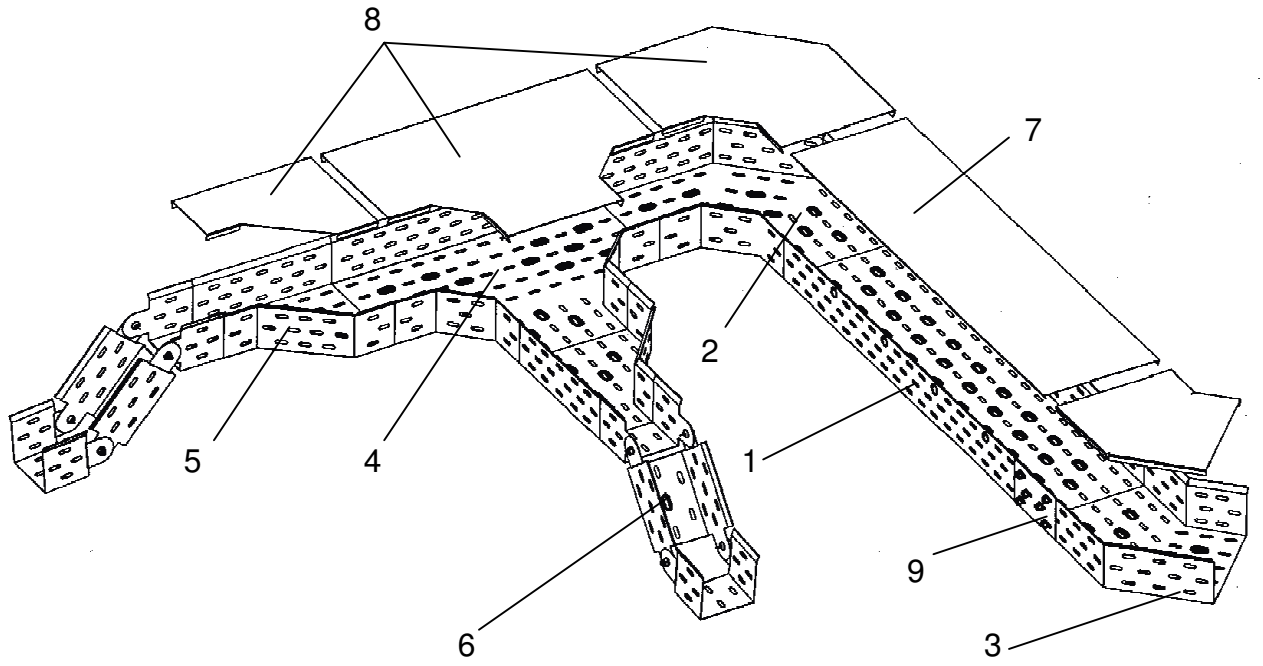
CABLE TRAYS – CONDUIT SYSTEM

Cable trays
Adapting pieces
Covers
Accessories

Contents

Cable tray system overview



1 Cable tray

2 Bend 90°

3 Bend 45°

4 T-branch

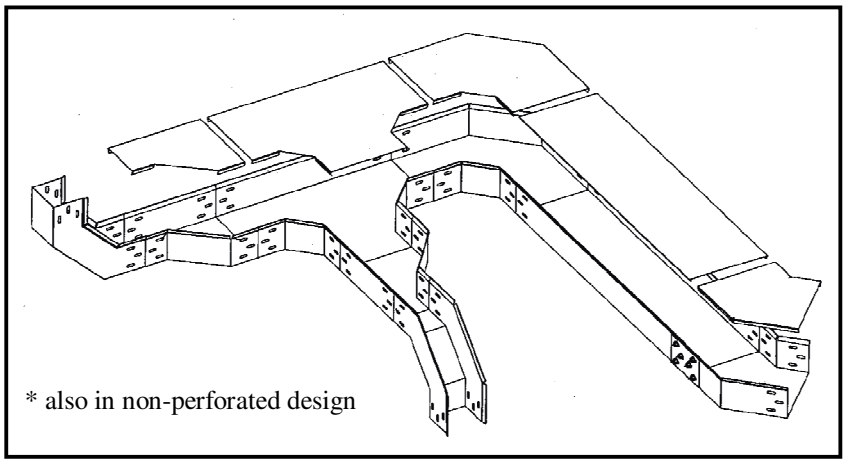
5 Reduction

6 Elbow - flexible

7 Cable tray cover

8 Adapting piece cover

9 Connecting piece



Description

1. Variants of design :

a) - 10 % perforation (ventilation and rinsing)

b) - non-perforated (perforated only for fixation and connection)

2. Material:

PB - sheet iron with zinc coating (235 g/m^2) ČSN (CZ norms) 42 6333 th.0.8/1.0 mm
- only for the non-perforated design

PC - sheet iron with aluzinc coating (150g/m^2) th. 0.8/1.0/1.25/1.5mm

NA - stainless steel mat. 17040 (1.4016) th. 0.8 mm

NB - stainless steel mat. 17240 (1.4301) for food industry th. 0.8 mm

A_ - aluminium th.1.0/1.2 mm

L_ - sheet iron mat. 11 321 th 1.0/1.2/1.5 mm – completed product is, after surface adjustment of the parts with ironphosphate, varnished with powdery epoxy-polyester paint RAL (60 µm)
Note: This material cannot be used in industrial applications, only for assembly in dwelling spaces.

3. Connection of the industrial parts into routes:

- side connecting ovals 6.5x25
- connecting material: for design „ PB, PC, A_, L_“ zinc screws M6x16
  + nuts with fanwise washer
  for design „NA, NB“ stainless screws M6x16
  + nut with fanwise washer

- serves to conductive connection of the individual parts into routes (screw connection can be also used for connection of protective conductors)

4. Method of footing:

on outrigger (using the screw connection – conductive connection)

5. Possibilities of usage with regards to the environment effects:

(ČSN 33 2000 - 3 (part 32) specification of the external effects, which the system can be exposed to)

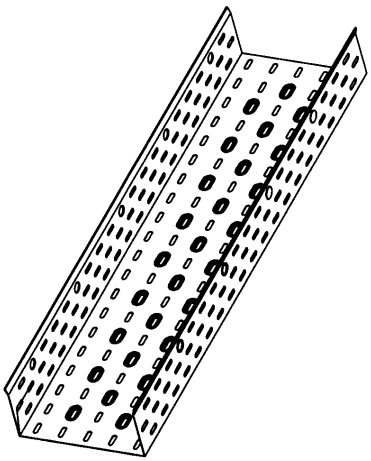
Ind.	**Presence of corrosive or contaminating matter**	**Characteristics**	**Choice of material**
AF1	Neglectable (inner rooms)	Quantity and character of corrosive or contaminating matter are not significant	L_ - varnished surface PB - iron with the zinc coating
AF2	Atmospheric	Presence of corrosive contaminating matter with atmospheric origin is significant	PC - aluzinc plate (pH 6 to 13) A_ - aluminium plate (pH 4,5 to 8,5)
AF3	Occasional or incidental	Occasional or incidental exposition to corrosive or contaminating chemical matter by the production and usage of these matters	A_ - aluminium plate (inconvenient for strong acid and heavy metals salts) NA, NB – stainless
AF4	Permanent	Permanent exposition to large quantity of corrosive or contaminating chemical matter	NA, NB – stainless

Composition method of the cable-tray system code

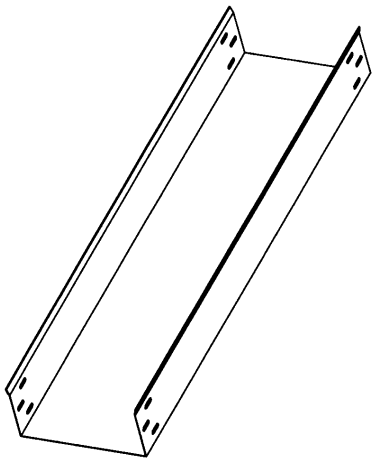
	Position	Code description	Code
Material type	**1. 2.**	Sheet iron with zinc coating (235 g/m^2)	PB
		Sheet iron with aluzinc coating (150g/m^2)	PC
		Stainless steel mat. 17040 (1.4016)	NA
		Stainless steel mat. 17240 (1.4301) for food industry	NB
		Aluminium	A_
		Sheet iron mat. 11 321, varnished	L_
Material thickness	**3.**	0,8 mm	0
		1,0 mm	1
		1,2 (1,25) mm	2
		1,5 mm	3
Design	**4.**	perforated	D
		non- perforated	P
		universal (for covers)	U
Proportions	**5.6.7./8.9.10.**	The proportions are in millimetres (Width, Height)	62/50
			125/50
			125/100
			250/50
			250/100
			500/50
			500/100
Component type	**11.12.13.xxx**	Trays (xxx – the length in mm)	Zxxx
		Bend 90°	O90
		Bend 45°	O45
		T-branch (xxx – the jut in mm)	Txxx
		Vertical T-branch (xxx – the jut in mm)	TSxxx
		Left/right reduction (xxx – the jut in mm)	R xxxL/P
		Elbow – flexible	KK
		Elbow – firm upwards	KPN
		Elbow – firm downwards	KPD
		Connecting piece (xxx – the height in mm)	SPxxx
		Tray cover	VZ
		90° bend cover	VO90
		45° bend cover	VO45
		T-branch cover (xxx – the jut in mm)	VTxxx
		Left/right reduction cover(xxx– the jut in mm)	VR xxxL/P
		Firm vertical elbow cover – upwards/downwards	VKPN/Dxxx

Cable tray

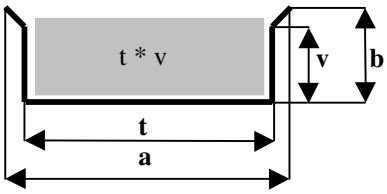
…D…Z... (38210□□1□1□)



…P…Z... (38210□□2□1□)



Proportions:

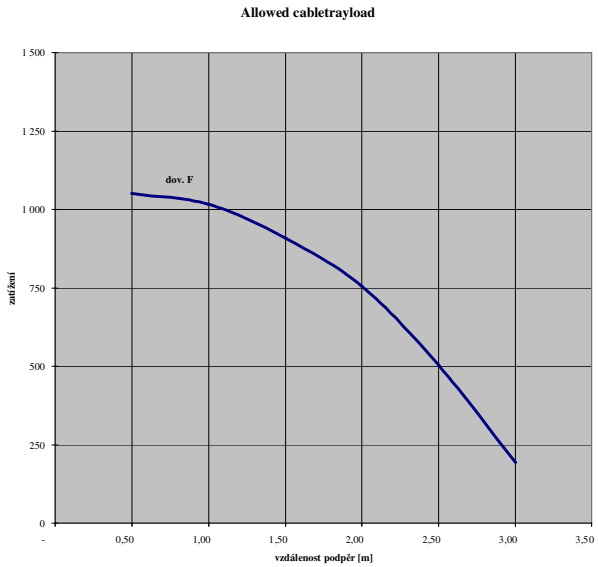


Type	t [mm]	a [mm]	v [mm]	b [mm]	effective crosscut [mm^2]
…62/50Z…	62	77	50	65	3100
…125/50Z…	125	140	50	65	6250
…125/100Z…	125	140	100	115	12500
…250/50Z…	250	265	50	65	12500
…250/100Z…	250	265	100	115	25000
…500/50Z…	500	515	50	65	25000
…500/100Z…	500	515	100	115	50000

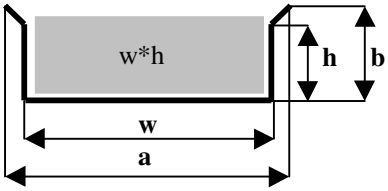
Supplied length : 2, 2.5 and 3 m

- cable trays with iron thickness 1.0 mm (t 62, 125 and 250) have folded openings for cable outlets (ø19mm) on the sides

Load:

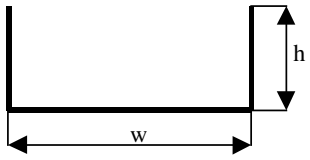


Customary-built cable tray proportions



Type	w [mm]	a [mm]	h [mm]	b [mm]	effective crosscut [mm^2]
…62/25Z…	62	77	25	40	1550
…55/25Z…	55	70	25	40	1375
…50/25Z…	50	65	25	40	1250
…45/25Z…	45	60	25	40	1125
…40/25Z…	40	55	25	40	1000

Design without bend for cover security. Only welt for sharp iron edge bending.



Type	w [mm]	h [mm]	effective crosscut [mm^2]
….40/25Z…	40	25	1000
….35/25Z …	35	25	875
….30/25Z …	30	25	750
….25/25Z …	25	25	625
….20/25Z…	20	25	500

The same proportions of relevant covers appertain to the mentioned proportions of cable trays.

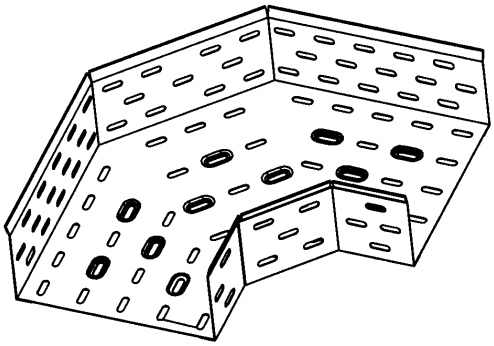
Design:

1. Perforated – bottom: 1 line of apertures in the middle
   – sides: 1 line of apertures 12.5mm from bottom
2. Non-perforated – apertures only for attachment and connection

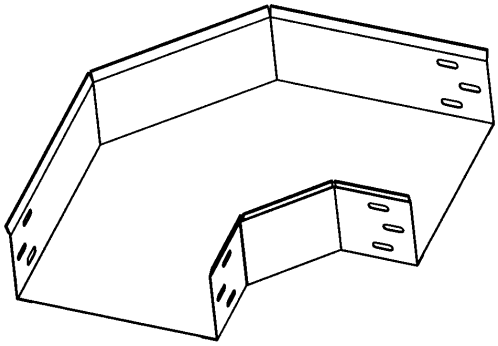
These substandard proportions as produced only as a order production.
The price is set dependent on the number of the ordered pieces.

Bend 90°

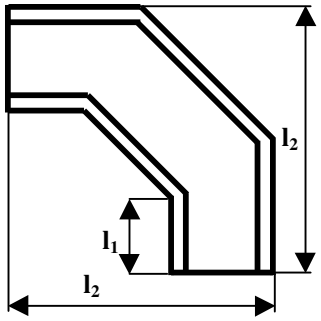
…D…O90 (38210□□1□20)



…P…O90 (38210□□2□20)

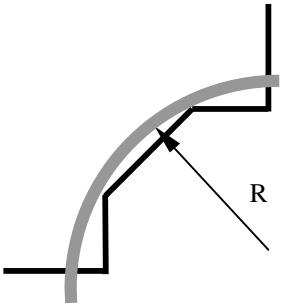


Proportions:



Type	Th. [mm]	l_1 [mm]	l_2 [mm]
…62/50O90	62	100	245
…125/50O90	125	100	308
…125/100O90	125	100	308
…250/50O90	250	100	433
…250/100O90	250	100	433
…500/50O90	500	100	683
…500/100O90	500	100	683

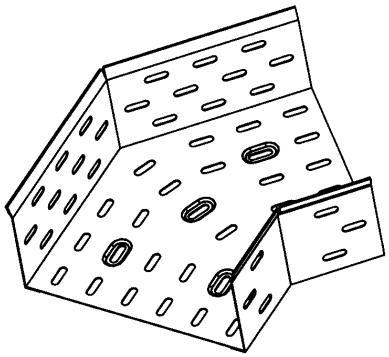
Radius of the bend:



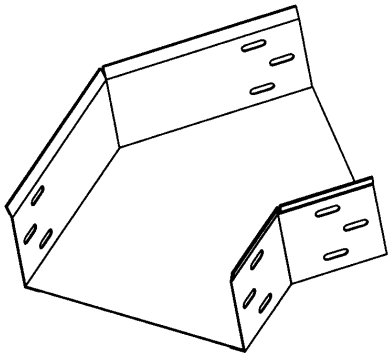
Type	Th. [mm]	R_{min} [mm]	R_{max} [mm]
…62/50O90	62	125	187
…125/50O90	125	125	250
…125/100O90	125	125	250
…250/50O90	250	125	375
…250/100O90	250	125	375
…500/50O90	500	125	625
…500/100O90	500	125	625

Bend 45°

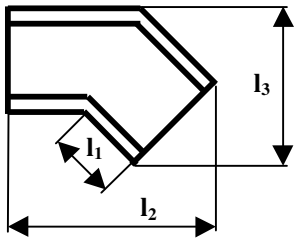
…D…O45 (38210□□1□30)



…P…O45 (38210□□2□30)

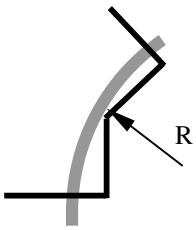


Proportions:



Type	Th. [mm]	l_1 [mm]	l_2 [mm]	l_3 [mm]
…62/50O45	62	100	225	147
…125/50O45	125	100	270	210
…125/100O45	125	100	270	210
…250/50O45	250	100	360	335
…250/100O45	250	100	360	335
…500/50O45	500	100	535	585
...500/100O45	500	100	535	585

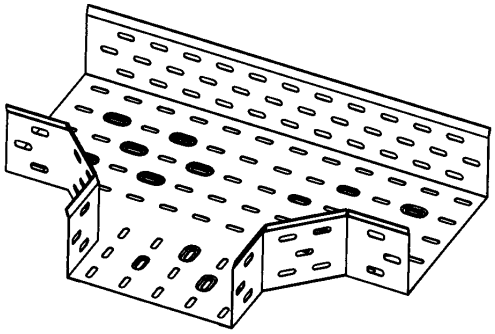
Radius of the bend:



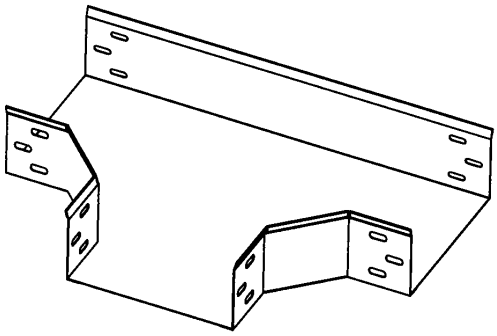
R – corresponds to radius for 90º bend (the same method)

T-branch

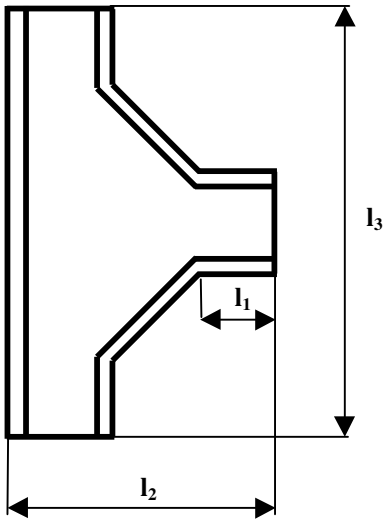
…D…T… (38210□□1□4□)



…P…T… (38210□□2□4□)



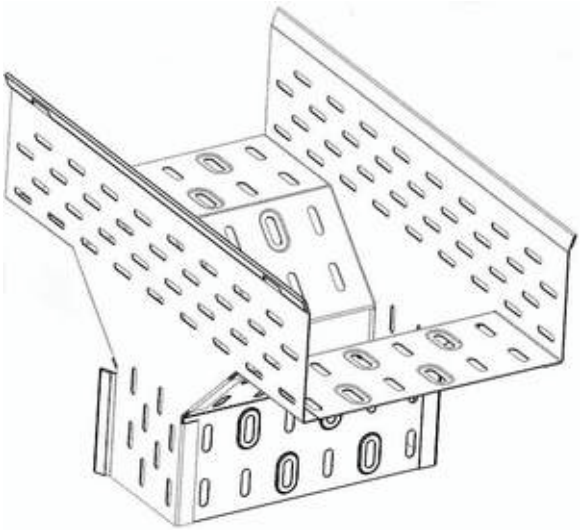
Proportions:



Type	Th. [mm]	l_1 [mm]	l_2 [mm]	l_3 [mm]
...62/50T62	62	100	245	412
...62/50T125	62	100	245	475
…125/50T62	125	100	308	412
…125/50T125	125	100	308	475
…125/50T250	125	100	308	600
…125/100T62	125	100	308	412
…125/100T125	125	100	308	475
…125/100T250	125	100	308	600
…250/50T62	250	100	433	412
…250/50T125	250	100	433	475
…250/50T250	250	100	433	600
…250/50T500	250	100	433	850
…250/100T62	250	100	433	412
…250/100T125	250	100	433	475
…250/100T250	250	100	433	600
…250/100T500	250	100	433	850
…500/50T62	500	100	683	412
…500/50T125	500	100	683	475
…500/50T250	500	100	683	600
…500/50T500	500	100	683	850
…500/100T62	500	100	683	412
…500/100T125	500	100	683	475
…500/100T250	500	100	683	600
…500/100T500	500	100	683	850

Vertical T-branch

…D…TS (38210□□1□8□) **…P…TS** (38210□□2□8□)



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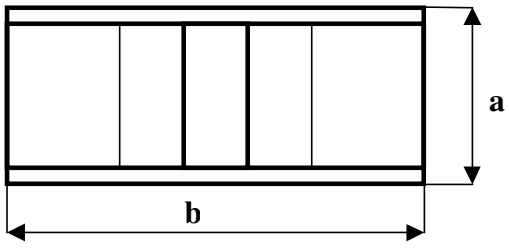
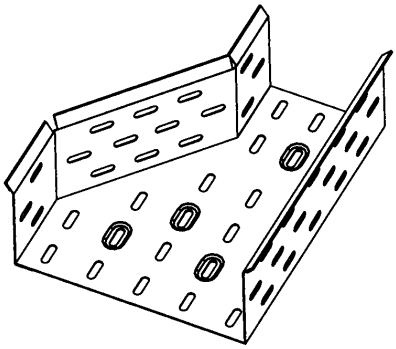


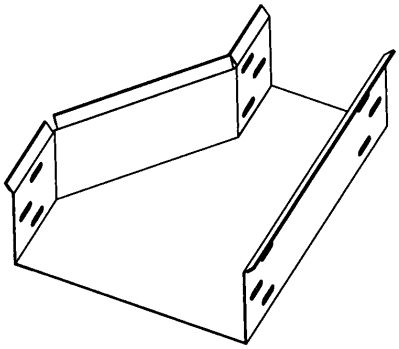
Type	Th. [mm]	a [mm]	b [mm]
…62/50TS62	62	77	400
…125/50TS125	125	140	400
…125/100TS125	125	140	450
…250/50TS250	250	265	400
…250/100TS250	250	265	450
…500/50TS500	500	515	400
...500/100TS500	500	515	450

Reduction

…D…R… (38210□□1□5□)



…P…R… (38210□□2□5□)



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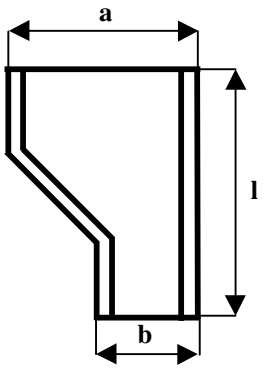
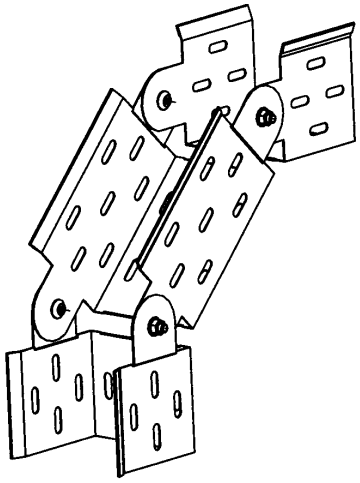


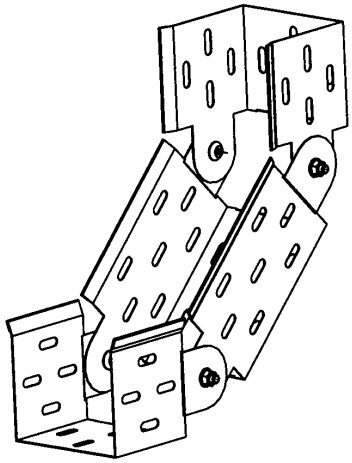
Type	Th. [mm]	a [mm]	b [mm]	l [mm]
…125/50R62P	125/62	140	77	263
…125/50R62L	125/62	140	77	263
…250/50R62P	250/62	265	77	388
…250/50R62L	250/62	265	77	388
…250/50R125P	250/125	265	140	325
…250/50R125L	250/125	265	140	325
…250/100R125P	250/125	265	140	325
…250/100R125L	250/125	265	140	325
…500/50R125P	500/125	515	140	575
…500/50R125L	500/125	515	140	575
…500/50R250P	500/250	515	265	450
…500/50R250L	500/250	515	265	450
…500/100R125P	500/125	515	140	575
…500/100R125L	500/125	515	140	575
…500/100R250P	500/250	515	265	450
…500/100R250L	500/250	515	265	450

P(L) … continuous edge is on the right (left) side of the cable tray in the narrowed direction

Elbow - flexible

…D…KK (38210□□1□60)





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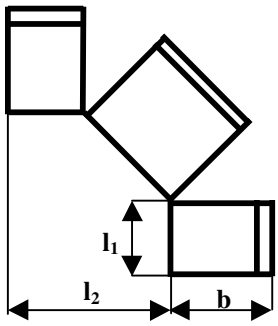
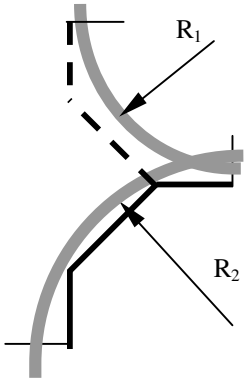


Type	Th. [mm]	b [mm]	l_1 [mm]	l_2 (down) [mm]	l_2 (up) [mm]
….62/50KK	62	65	100	175	175
….125/50KK	125	65	100	175	175
….125/100KK	125	115	100	175	175
…..250/50KK	250	65	100	175	175
…..250/100KK	250	115	100	175	175
…..500/50KK	500	65	100	175	175
…..500/100KK	500	115	100	175	175

Configuration:		
	joint element	1 pc
	elbow connection	1 pair
	screws M6	4 pcs
	nut M6 with fanwise washer	4 pcs

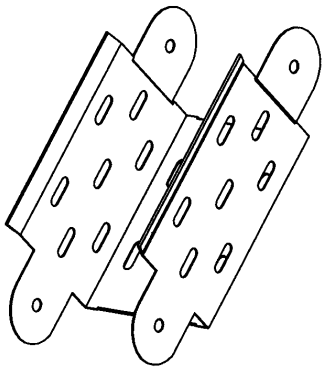
Radius of the bend:



Type	Th. [mm]	R_1 [mm]	R_2 [mm]
….62/50KK	65	175	125
….125/50KK	125	175	125
….125/100KK	125	225	125
…..250/50KK	250	175	125
…..250/100KK	250	225	125
…..500/50KK	500	175	125
…..500/100KK	500	225	125

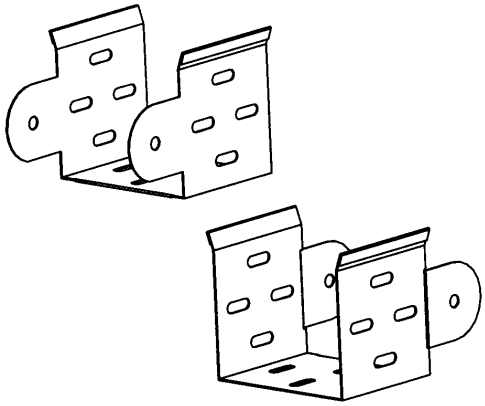
Elbow element

…D…KK1 (38210□□1□61)

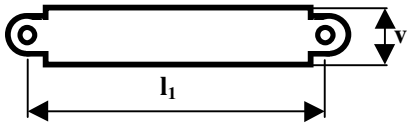


Elbow connection

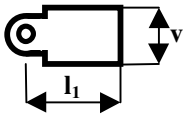
…D…SK (38210□□1□62)



Proportions:



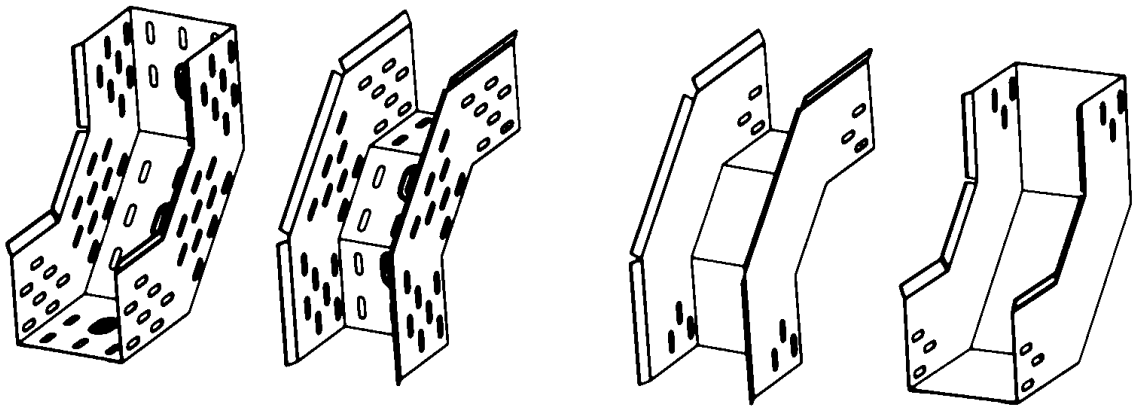
Type	Th [mm]	l_1 [mm]
….62/50KK1	62	125
….125/50KK1	125	125
….125/100KK1	125	145
…..250/50KK1	250	125
…..250/100KK1	250	145
…..500/50KK1	500	125
…..500/100KK1	500	145



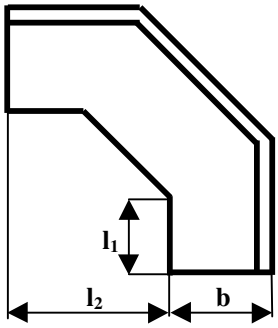
Typ	$š_{žlabu}$ [mm]	l_1 [mm]
….62/50SK	62	135
….125/50SK	125	135
….125/100SK	125	135
…..250/50SK	250	135
…..250/100SK	250	135
…..500/50SK	500	135
…..500/100SK	500	135

Elbow – fixed

…D…KP. (38210□□1□7□) **…P…KP.** (38210□□2□7□)

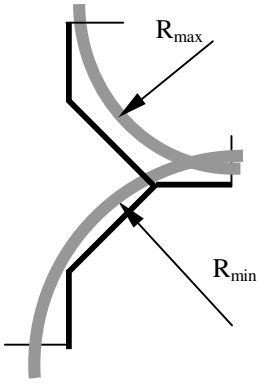


Proportions:



Type	Th [mm]	b [mm]	l_1 [mm]	l_2 [mm]
…62/50KPN	62	65	100	175
…62/50KPD	62	65	100	175
…125/50KPN	125	65	100	175
…125/50KPD	125	65	100	175
…125/100KPN	125	115	100	175
…125/100KPD	125	115	100	175
…250/50KPN	250	65	100	175
…250/50KPD	250	65	100	175
…250/100KPN	250	115	100	175
…250/100KPD	250	115	100	175
…500/50KPN	500	65	100	175
…500/50KPD	500	65	100	175
…500/100KPN	500	115	100	175
…500/100KPD	500	115	100	175

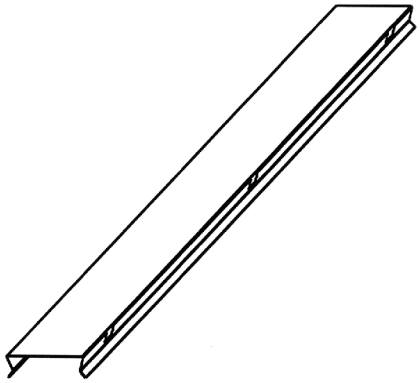
Radius of the bend:



Type	Th [mm]	R_{min} [mm]	R_{max} [mm]
…62/50KPN(D)	65	125	175
…125/50KPN(D)	125	125	175
…125/100KPN(D)	125	125	225
…250/50KPN(D)	250	125	175
…250/100KPN(D)	250	125	225
…500/50KPN(D)	500	125	175
…500/100KPN(D)	500	125	225

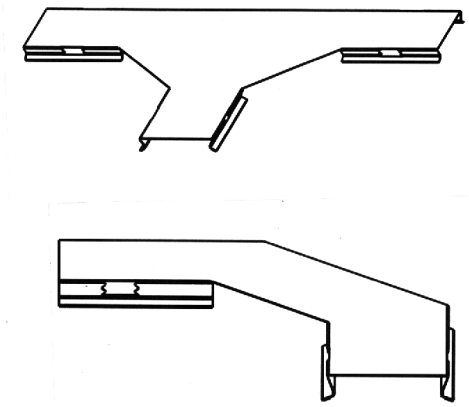
Cable tray cover

…U…VZ… (38210□□9□01)

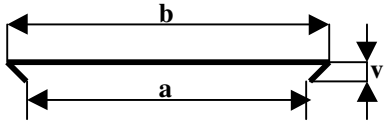


Adapting piece covers

…U…V(O90, O45, T.., R.., KP.) (38210□□9□0□)



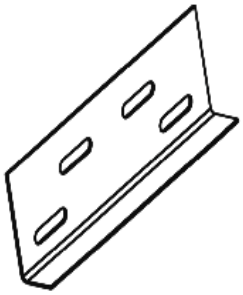
Proportions:

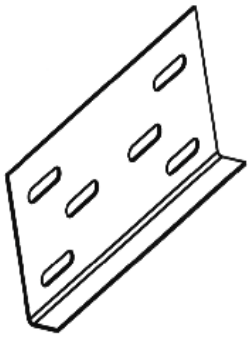


Type	Th [mm]	a [mm]	b [mm]	v [mm]
…U62VZ…	62	69	80	11
…U125VZ…	125	132	143	11
…U250VZ…	250	257	268	11
…U500VZ…	500	507	518	11

Connection piece

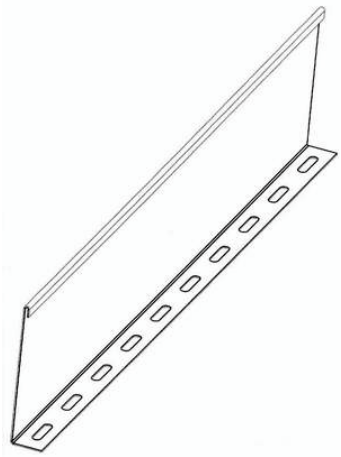
…U50SP (38210□□9100) **…U100SP** (38210□□9300)





Barrier

…U50Pxxx **…U100Pxxx**

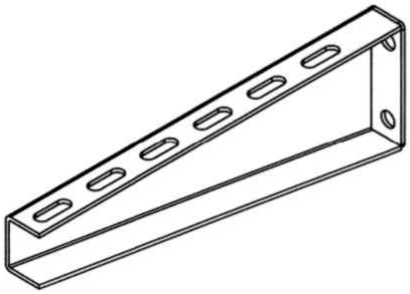


xxx – supplied barrier length: 2, 2.5 and 3 m

Connecting material for connection pieces and barriers: screw M6x16 + nut M6 + fanwise washer.

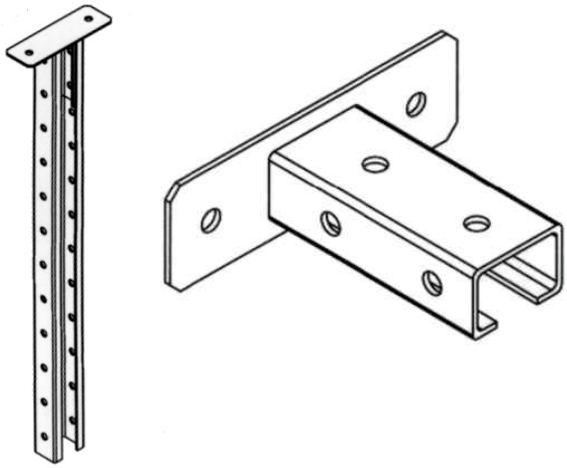
Outrigger angular

…U…DR (38210□□9□90)

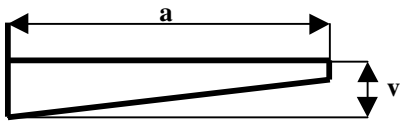


Hanger and foot

…U…DZ (38210□□9□91)

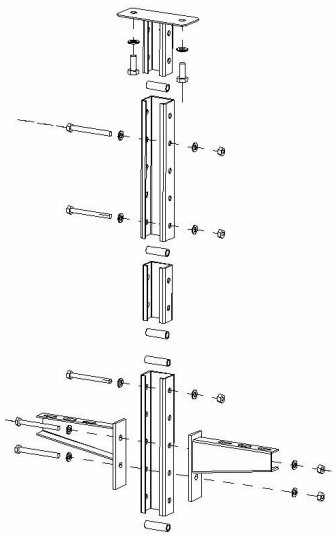


Proportions:



Type	for Th. [mm]	a [mm]	v [mm]
…U200DR	62	200	90
…U270DR	125	270	90
…U400DR	250	400	90
…U650DR	500	650	140

Method of fixing:



Note: For detailed description see the catalogue Cable Carrying Systems – Assembly systems.

Delivery terms

1) Prices (see price list) are EXW and not including V.A.T.
2) Time of delivery: 1 to 6 weeks from purchase contract-signing (according to quantity and sort of the material).
3) Warranty period: 12 months from delivery..
4) Changes in technical parameters reserved.