



**steel cable trays / ladders / baskets**

tray size (mm) cable type + specs construct. type

**standard classification ≤ 500 mm**

<b>trays</b> ≤ 500mm non-perforated + perforated  <b>ladders</b> ≤ 300mm	all standard cables: <b>LARGE</b> config. ≤ Ø 21mm Small insulated ≤ Ø 61mm Medium insulated ≤ Ø 80mm Large insulated ≤ Ø 100mm telecom cable bundle ≤ Ø 23mm NON-insulated allowed Cu fill = max. 19356 mm <sup>2</sup> (60%) all standard conduits: ≤ 3x Ø 16mm steel or plastic	1+2+3+5
	all standard cables: <b>MIXED</b> config. ≤ Ø 21mm Small insulated ≤ Ø 47mm Medium insulated ≤ Ø 52mm Large insulated ≤ Ø 100mm telecom cable bundle ≤ Ø 23mm NON-insulated allowed Cu fill = max. 7835 mm <sup>2</sup> (60%) all standard conduits: ≤ 3x Ø 16mm steel or plastic PE/PP/PVC pipes ≤ Ø 110mm aluPE-X pipes ≤ Ø 25mm with Armaflex Cu pipes ≤ Ø 22mm with Armaflex steel pipes ≤ Ø 101mm with Armaflex	

<b>trays</b> ≤ 500mm non-perforated + perforated  <b>ladders</b> ≤ 300mm  cable and/or pipe penetrations	all standard cables: <b>LARGE</b> config. ≤ Ø 21mm Small insulated ≤ Ø 61mm Medium insulated ≤ Ø 80mm Large insulated ≤ Ø 100mm telecom cable bundle ≤ Ø 23mm NON-insulated allowed Cu fill = max. 19356 mm <sup>2</sup> (60%) all standard conduits: ≤ 3x Ø 16mm steel or plastic	1+2+3+5
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distance between trays / ladders / baskets: horizontal ≥ 5mm; vertical ≥ 100mm  
distance from opening edges: horizontal ≥ 35mm; vertical ≥ 30mm

**other cable tray configurations**

<b>DLS</b> system: 600x60mm  cable and/or pipe penetrations	cable basket in floors: ≤ 3x PP-R pipe Ø63 x 5,8mm + Thermaflex 25mm 750LI ≤ 9x TKF RTPR 5x2,5mm <sup>2</sup> ≤ 9x YmzK 5x2,5mm <sup>2</sup> ≤ 11x Dynamic 2x1,5mm <sup>2</sup> ≤ 40x HCS CAD7	5
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<b>trays</b> ≤ 350mm  up to <b>EI 180</b>	tray 150x25 in walls: only mastic 1x Ø20mm + ≤ 3x twin/earth	3+5
	tray 300x60 in floors: only PA board 1x Ø25mm + ≤ 4x Ø14mm	
	tray 350x60 in walls: + PA coating ≤ 14x YMVK, YS-TY-MB	
	tray 350x60 in walls: + PA coating ≤ 20x YS-TY-MB	

Graphite DoP CPR-14/0273 or Acrylic or PA sealer DoP CPR-14/0273

MIXED configuration: cables and/or pipes in 1 opening <a href="#">EI 60 in walls 1+2+3</a>	MIXED configuration: cables and/or pipes in 1 opening <a href="#">EI 30 in walls 1+2+3</a>
MIXED configuration: cables and/or pipes in 1 opening <a href="#">EI 30 in walls 2+3</a>	MIXED configuration: cables and/or pipes in 1 opening <a href="#">EI 60 in floors</a>
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distance between trays / ladders / baskets: horizontal ≥ 5mm; vertical ≥ 100mm  
distance from opening edges: horizontal ≥ 35mm; vertical ≥ 30mm

MIXED configuration: cables and/or pipes in cable tray <a href="#">EI 60 in floors</a>
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<a href="#">EI 180 in walls 3</a> joint depth 40mm *
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support distance (mm)

at 250mm + 500mm
at 500mm
at 500mm
at 250mm + 400mm

at 500mm
at 250mm + 400mm

opening in supporting construction

max. opening (mm)	FR mortar DoP CPR-14/0260	or	PA board DoP CPR-14/0260
600x1200	100mm		2x 50mm 2S
600x1200	100mm		2x 50mm 2S
600x1200	50mm		1x 50mm 2S
600x5000	100mm		2x 50mm 2S

600x1200 + 25% = 0.9 m <sup>2</sup>	FR mortar 100mm	PA board 2x 50mm 2S
600x5000	FR mortar 100mm	PA board 2x 50mm 2S

distance between trays / ladders / baskets: horizontal ≥ 5mm; vertical ≥ 100mm  
distance from opening edges: horizontal ≥ 35mm; vertical ≥ 30mm

600x800	FR mortar 100mm	PA board 2x 50mm 2S
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200x100		
400x200	FR mortar 120mm	PA board <a href="#">EI 180 in floors</a> 2x 60mm 2S
450x200	FR mortar 50mm	PA board <a href="#">EI 90 in walls 3</a> 1x 50mm 1S
	FR mortar 50mm	PA board <a href="#">EI 120 in walls 3</a> 1x 50mm 2S

finish

PA coating DoP CPR-14/0260
NO coating on cables, cable trays or construction !

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NO coating on cables or construction !
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200 LI on unexp. side
200 LI on 2 sides

- 1 walls: metal stud ≥100mm
- 2 walls: blockwork ≥100mm
- 3 walls: blockwork ≥150mm
- 5 floors: aerated concrete ≥150mm

mastic: apply on 2 sides, also in floors!  
joint details: min. 5 mm width in walls + floors  
DLS system: apply 5 mm width joint seal around basket

\*butter\* cross cut edges of PA board + opening with + mix with loose rock wool  
\*PA coating or Acrylic or PA sealer

**NOTE:**  
single + bundled cables: see [page 2](#)

\* use rock wool backing

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