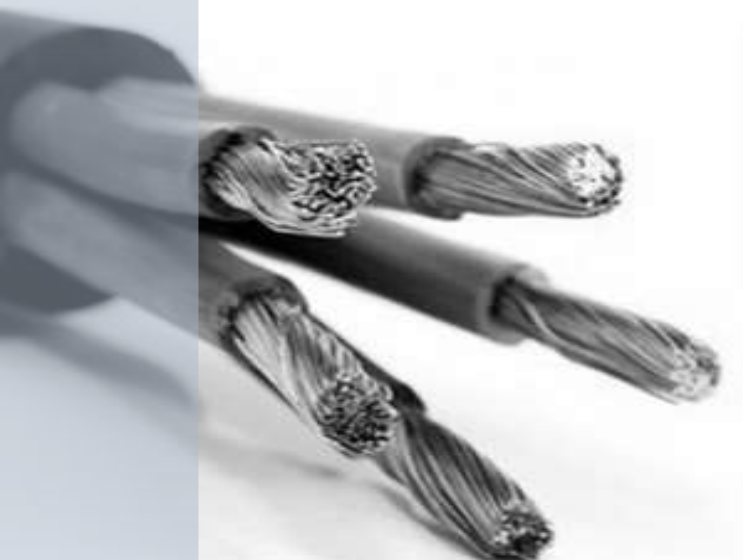
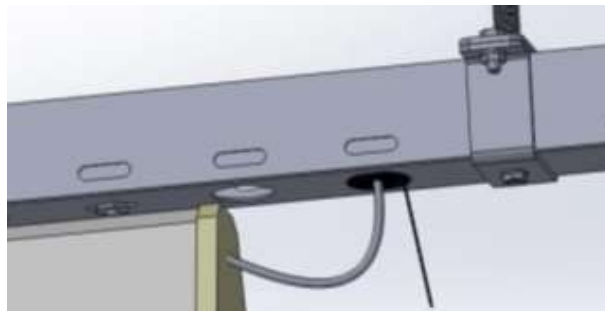




Elvod
SINCE 1957 Kragujevac

NOSAČI KABLOVA ZA RASVETU

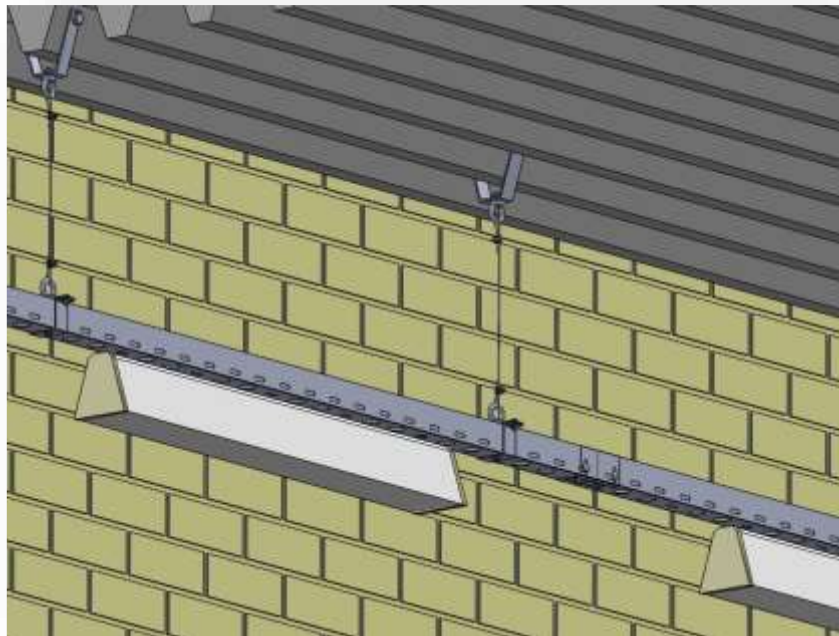




Sistemi nosača kablova za rasvetu za potrebe industrijskih postrojenja *Lighting cable carrier systems for industrial plants*

Sistemi nosača kablova za rasvetu olakšavaju instalaciju sistema za rasvetu u mnogim oblastima industrije i objekata, a takođe su namenjeni i fleksibilnom napajanju energijom i razmeni podataka mašina i radnih mesta. Svejedno da li u industriji, funkcionalnim građevinama ili zgradama primamljivog vizuelnog izgleda.


Lightweight cable rack systems facilitate the installation of lighting systems in many industrial and facility areas, and are also designed for flexible power supply and data exchange of machines and workplaces. Whether in the industry, functional buildings or buildings of tempting visual appearance.

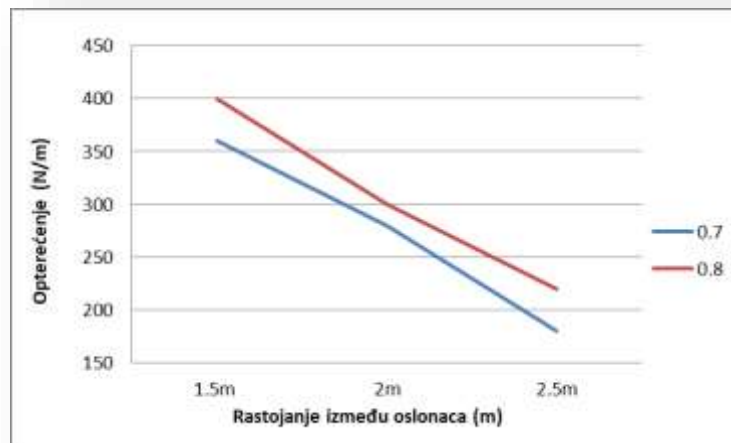


U slučajevima kada se u halama ne nalazi standardni plafon već trapezni, u tom slučaju nudimo kačenje rasvete pomoću trapeznog nosača i svih ostalih pratećih elemenata, koji su dati u daljem opisu, pri čemu je oslonce moguće postavljati na međusobnom rastojanju od 2m. Vezivanje trapeznog nosača na zid može se ostvariti korišćenjem vijka sa šestouglaonom glavom odgovarajuće dužine, ili korišćenjem navojne šipke, pričvršćene navrtkama sa obe strane.

In cases where there is no standard ceiling in the halls, it is already trapezoidal, in that case we need to mount the lighting with a trapezoidal support and all other supporting elements, which are given in the following description, where the supports can be placed at a distance of 2m from each other. The attachment of the trapezoidal support to the wall can be accomplished by using a hexagonal head of appropriate length, or by using a threaded rod, fastened with nuts on both sides.



PNK										Perforated cable tray	
	Tip Type	Širina Width (mm)	Visina Height (mm)	Dužina Length (mm)	Debljina lima Thickness (mm)	Korisni presek Useful section cm ²	Dozvoljeno opterećenje Allowed load (N/m)			Kataloški broj Catalog N°	
							1.5m	2m	2.5m	2m	3m
							PNKS 50	50	48	2000/3000	0,7
PNKS 50	50	48	2000/3000	0,8	22	400	300	220	06.000.051	06.000.051.3	



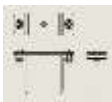


Dozvoljeno opterećenje (N/m) perforiranog nosača kablova za rasvetu, debljine lima 0,7mm i 0,8mm na rastojanju između oslonaca 1,5m; 2m i 2,5m.

Maksimalno dozvoljeno opterećenje nosača kablova je 15 kg/m

Permissible load (N / m) of the perforated light guide cable, sheet thickness 0,7 mm and 0,8 mm at the distance between the supports 1,5 m; 2m and 2,5m.

The maximum permissible load of the cable tray is 15 kg/m

Bočna spojnica					Lateral connector		H48
	Tip Type	Visina Height (mm)	Debljina lima Thickness (mm)				Kataloški broj Catalog N°
	SPNK 48	48	0,8				06.000.052
Trapezni nosač					Trapezoidal carrier		H48
	Tip Type	Širina Width (mm)	Dužina Length (mm)	Debljina lima Thickness (mm)	Dozvoljeno opterećenje Allowed load (N/m)	Kataloški broj Catalog N°	
	TN	103	30	2,5	800	06.522.000	
Nosač regala					Cable tray carrier		H48
	Tip Type	Širina Width (mm)	Visina Height (mm)	Dužina Length (mm)	Debljina lima Thickness (mm)	Kataloški broj Catalog N°	
	NG	90	56	40	2	06.620.050	





Prateći elementi Following elements

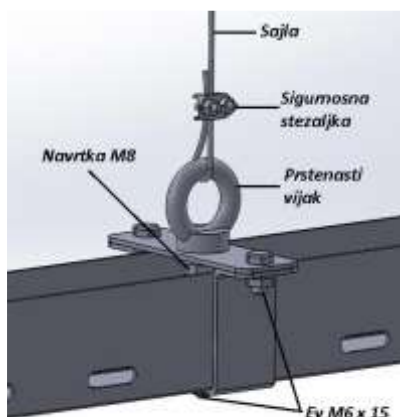
Naziv Name	Dimenzije Dimension
Nosač svetiljke - prav / sa kukom	Ø5
Prstenasti vijak	M8
Sigurnosna stezaljka za sajlu	M4
Sajla	Ø4
Navrtka	M8
Ravna podloška	A8
EV komplet	M6x15



Nosač svetiljke
Lamp holder

Da ne bi došlo do eventualnog pomeranja nosača kablova, potrebno ga je pričvrstiti za nosač, što se ostvaruje pomoću torban vijka M6x15 (komplet).

In order to avoid any possible movement of the cable carrier, it is necessary to attach it to the carrier, which is achieved with the torch bolt M6x15 (set).



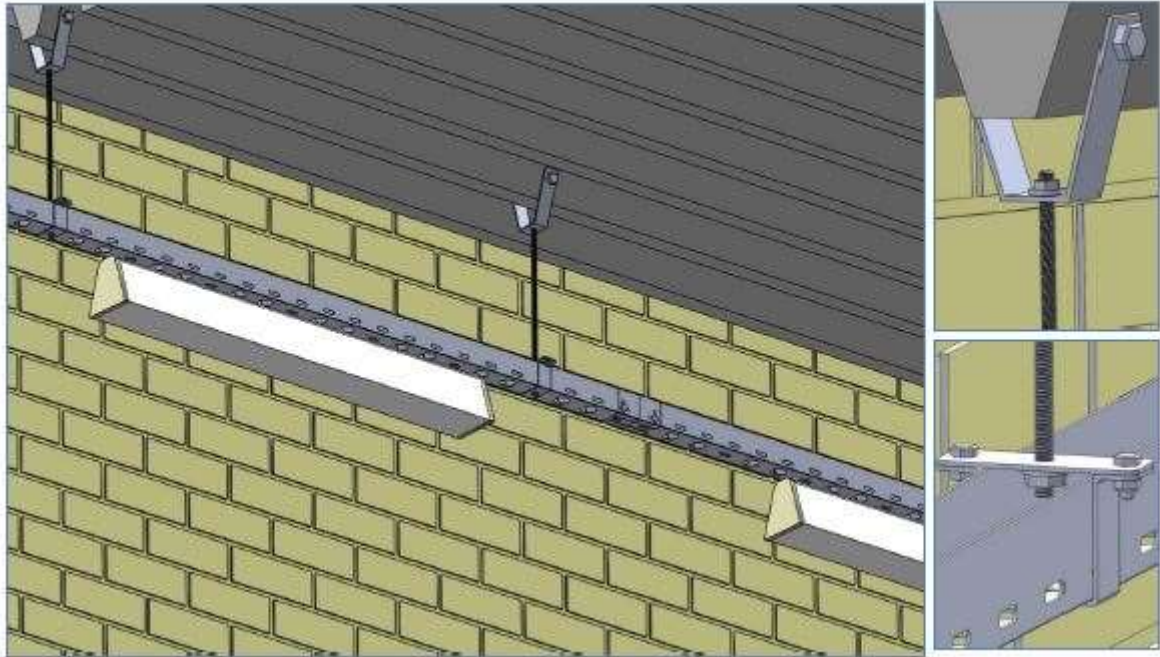
U zavisnosti od toga kolika je dužina trase regala i koliko je spuštanje od plafona, sajlu je moguće naručiti prema potrebi.

Pored korišćenja sajle, kačenje regala je moguće i korišćenjem lanaca ili navojne šipke M8, pri čemu bi se izbegla upotreba prstenastih vijaka ili sigurnosne stezaljke za sajlu.

Depending on the length of the rack and the extent of the ceiling, the cable can be ordered as needed.

In addition to using the cable, the suspension of the rack is also possible using chains or threaded rod M8, avoiding the use of ring screws or safety clamps for the cable.

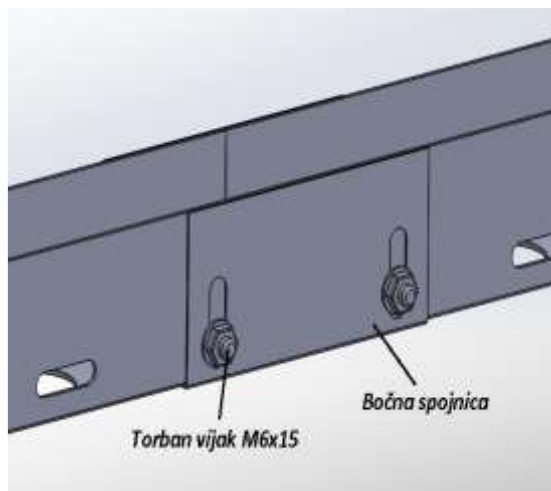




Princip kačenja pomoću navojnih šipki
The principle of fastening with threaded rods






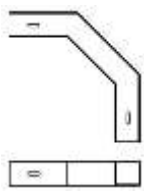



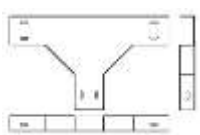

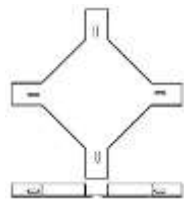
Korišćenjem bočnih spojnica moguće je nastavljjanje trase regala koliko je to potrebno u određenoj situaciji. Dok je korišćenjem ugaonih, račvastih ili krstastih spojnica moguće zaokretanje trase za 90° ili 45°, kao i račvanje trase kako je prikazano na sledećim slikama.

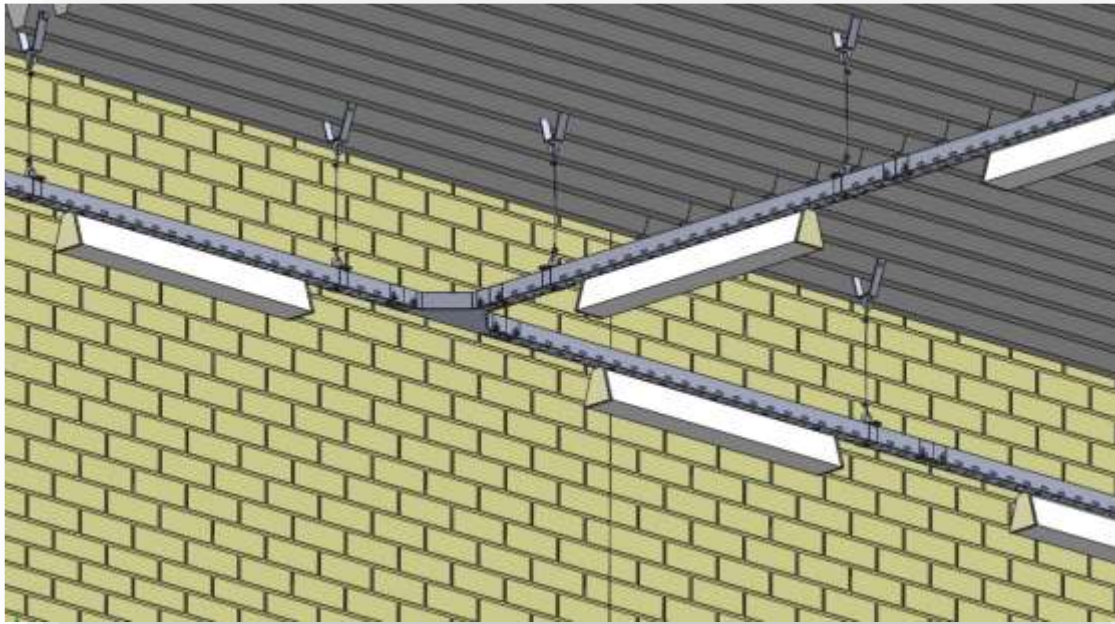
By using side couplings, it is possible to continue racking the rack as necessary in the situation. While using angular, bifurcated, or crosslinking, it is possible to turn the 90° or 45° trace, as well as branching the trace as shown in the following pictures.



Nastavljjanje trase regala pomoću bočne spojnice
Adjusting the cable tray using a side coupling





Lomljiva spojnica					Angle connector		H48	
	Tip Type	Visina Height (mm)	Debljina lima Thickness (mm)		Kataloški broj Catalog N°			
	LSPNK 48	48	0,8		06.001.053			
Zglobna spojnica					Adjustable connector		H48	
	Tip Type	Visina Height (mm)	Debljina lima Thickness (mm)		Kataloški broj Catalog N°			
	ZS 48	45	1,5		09.000.191			
Ugaona spojnica 90°					Angle connector 90°		H48	
	Tip Type	Širina Width (mm)	Visina Height (mm)	Debljina lima Thickness (mm)	Kataloški broj Catalog N°			
	SL-II-48	50	48	0,8	06.429.048			
Ugaona spojnica 45°					Angle connector 45°		H48	
	Tip Type	Širina Width (mm)	Visina Height (mm)	Debljina lima Thickness (mm)	Kataloški broj Catalog N°			
	SY-II-48	50	48	0,8	06.430.461			
Račvasta spojnica					T connector		H48	
	Tip Type	Širina Width (mm)	Visina Height (mm)	Debljina lima Thickness (mm)	Kataloški broj Catalog N°			
	S-III-48	50	48	0,8	06.438.048			
Krstasta spojnica					Cross connector		H48	
	Tip Type	Širina Width (mm)	Visina Height (mm)	Debljina lima Thickness (mm)	Kataloški broj Catalog N°			
	S-IV-48	50	48	0,8	06.448.048			

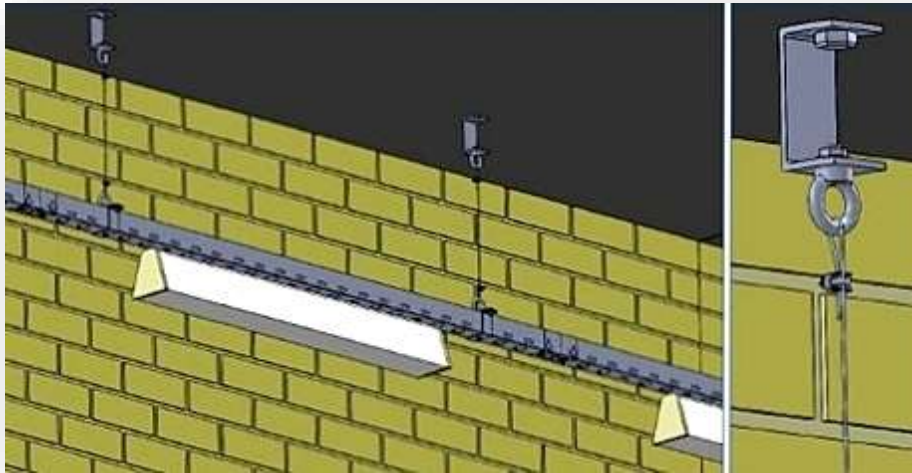


Primer skretanja trase pomoću račvaste spojnice
An example of turning the route using a branch coupler

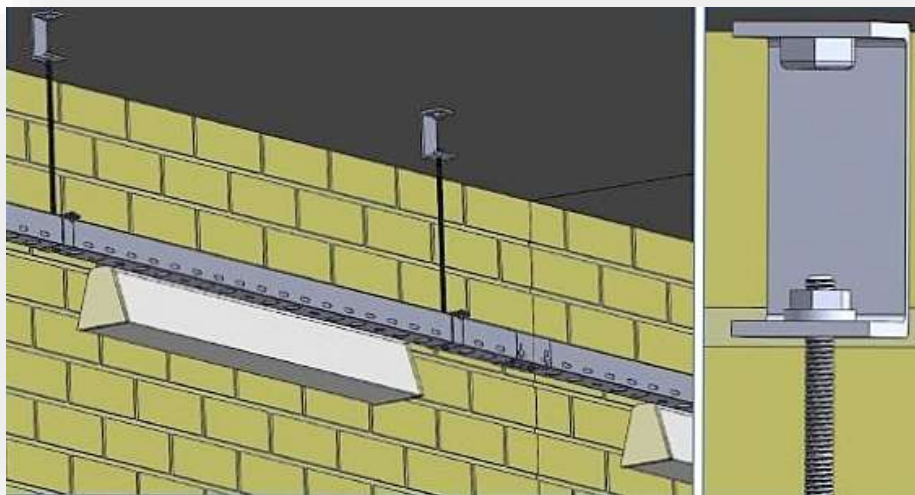
U slučajevima kada se nosač rasvete ne kači na trapezni zid pomoću trapeznog nosača. Odnosno kada imamo slučaj standardnog ravnog plafona, primenjuje se sistem kačenja pomoću plafonskog nosača, što će biti prikazano u narednom tekstu.

In cases where the light carrier does not attach to the trapezoidal wall using a trapezoidal support. In the case of a standard flat ceiling, a hanging system with a ceiling bracket is applied, which will be shown in the following text.

Plafonski nosač za rasvetu						Ceiling carrier for lighting	H48
	Tip Type	Širina Width (mm)	Visina Height (mm)	Dužina Length (mm)	Debljina lima Thickness (mm)	Kataloški broj Catalog N°	
	PN	40	80	40	3		



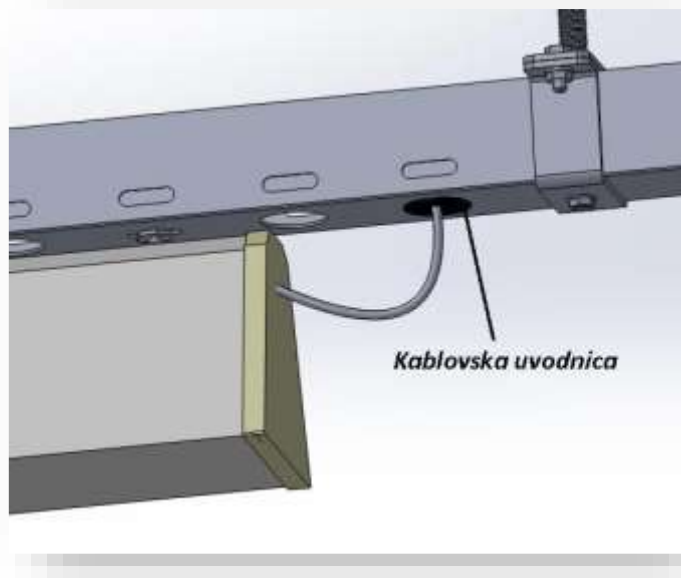
Primer kačenja sa plafonskim nosačem i sajlom
An example of hanging with a ceiling mount and cable



Primer kačenja sa plafonskim nosačem i navojnom šipkom
An example of hanging with ceiling bracket and threaded rod

Da bi se izbeglo eventualno oštećenje kabla prilikom provlačenja kroz otvore u regalu, a samim tim i kratak spoj ili eventualne neželjene situacije, na otvorima gde se provlače kablovi postavlja se kablovska uvodnica (Ø30), koja štiti kabl od oštećenja.

In order to avoid possible damage to the cable when sliding through the holes in the rack, and hence the short circuit or possible unwanted situations, cable glands (Ø30) are installed on the openings where the cables are being routed, which protects the cable from damage.

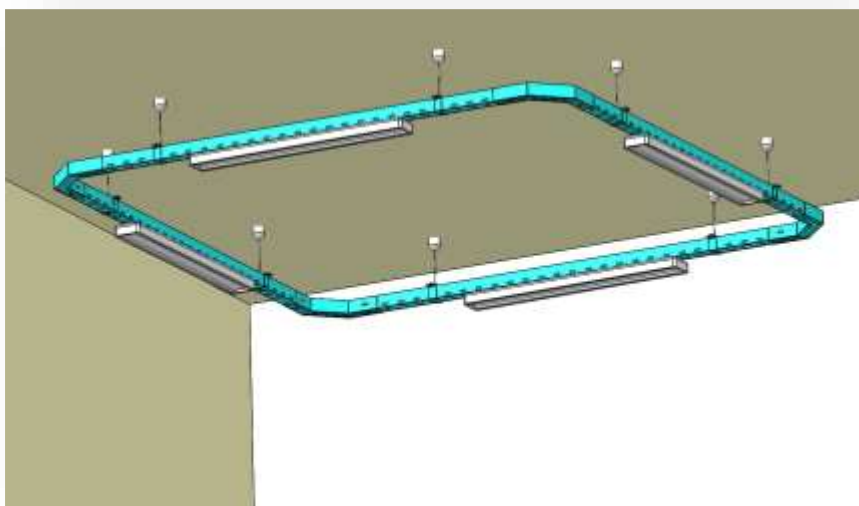


Kablovska uvodnica
Cable entry

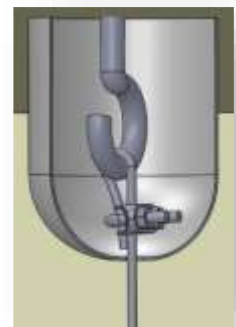
**Sistemi nosača
kablova za rasvetu –
za kancelarije,
bolnice, javne
ustanove**
*Lighting cord
support systems -
for offices, hospitals,
public institutions*

U prostorijama kao što su kancelarije, bolnice, sale za sastanke i prezentacije i gde je potreban malo prefinjeniji izgled nosača kablova za rasvetu, Elvod ima u svojoj ponudi način kačenja koji ni u kakvom slučaju ne remeti izgled radnog prostora, i izborom odgovarajuće boje iz RAL karte prema zahtevu kupca sistem nosača kablova može se ofarbati i savršeno uklopiti u radni prostor.

In offices such as offices, hospitals, meeting rooms and presentations, and where a slightly sophisticated layout of lighting cables is needed, Elvod has in its offer a way of hanging which does not in any way disturb the appearance of the workspace, and selecting the appropriate color from the RAL maps according to customer's requirement, the cable carrier system can be painted and perfectly fit into the workspace.



Prikaz montaže
plastificiranih nosača
kablova za rasvetu
*Display of the
installation of
plasticized cable
carrier for lighting*




Za ovakav način kačenja koristi se kuka za plafon, koja se za plafon pričvršćuje pomoću metalnog tipla. Dok se za vizuelni efekat koristi poklopac.


For this type of hanging, a ceiling hook is used, which is secured to the ceiling by a metal anchor. While the lid is used for the visual effect.



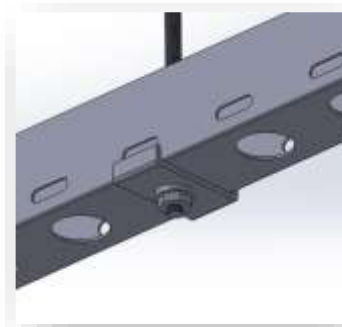
U oba prethodno prikazana slučaja, pri kačenju sa navojnom šipkom, kao nosač kablova moguće je koristiti i srednji nosač.

In both of the previously illustrated cases, when connecting with a threaded rod, it is possible to use a medium support as a cable carrier.

Srednji nosač				Middle carrier	H48
	Tip Type	Širina Width (mm)	Debljina lima Thickness (mm)		Kataloški broj Catalog N°
	SN-50	80	2		06.520.050

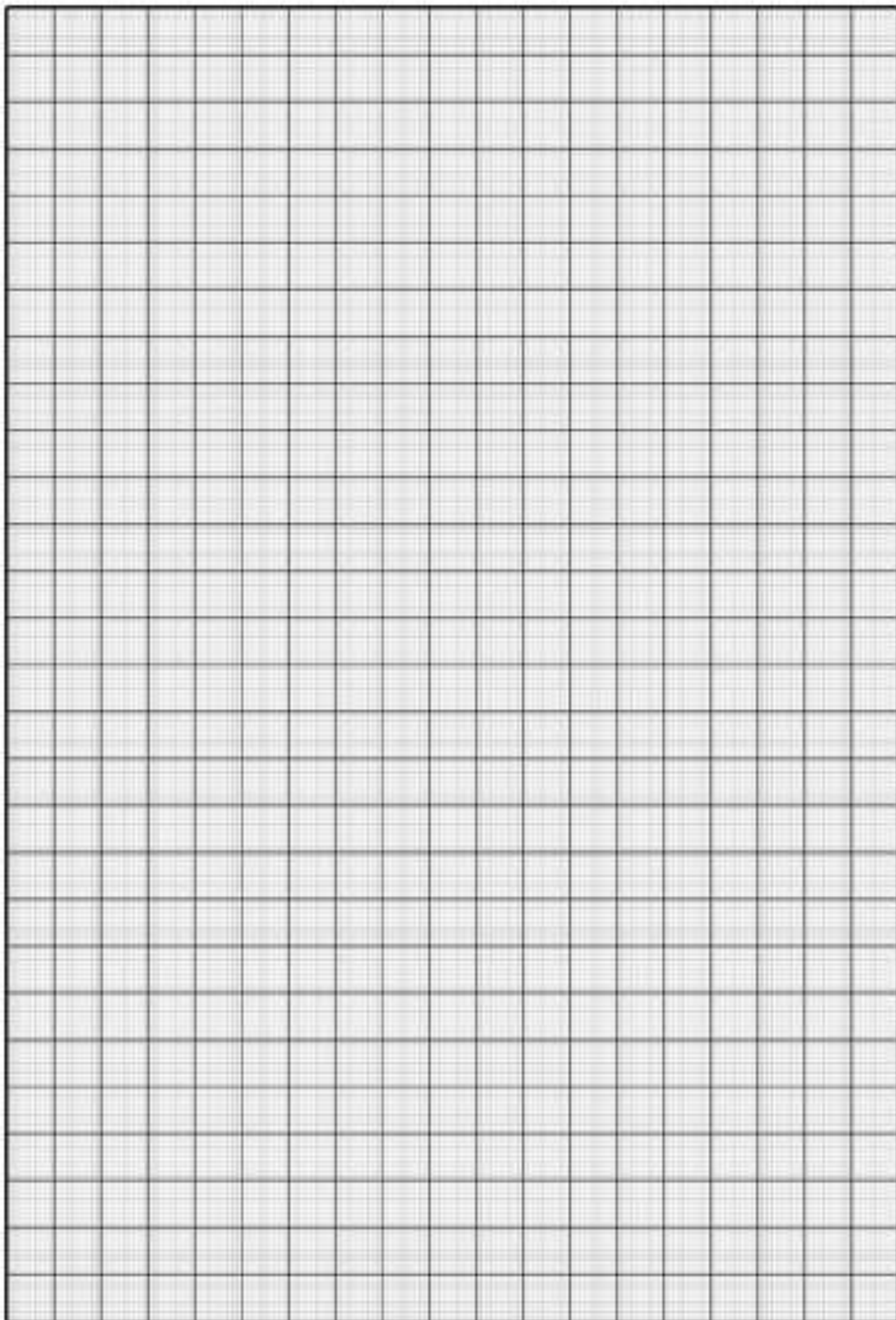


Princip kačenja pomoću navojne šipke i srednjeg nosača
The principle of hanging with a threaded rod and a middle carrier



Za nosače kablova za osvetljenje obezbedili smo različite oblike površinske zaštite prikazane u tabeli ispod
For all non perforated cable trays we have provided various shapes of protection surfaces shown in the table below

Površinska zaštita Surface protection	Oznaka Mark	Oblast primene Field of application	STANDARD
Galvanizacija cinkom Galvanized sheet	PL	Unutrašnja oblast Internal area	EN 10142
Topla galvanizacija cinkom Hot dip galvanized	TC	Spoljna oblast External field	SRPS EN ISO 1461
Plastifikacija u RAL boje Plastification in RAL	P	Unutrašnja oblast Internal area	
Nerđajući čelik Inox	I	Specijalni industrijski zahtevi, prehrambena industrija, farmacija, hemijska industrija itd. Special industrial requirements, food industry, pharmacy, chemical industry, etc.	V2A, V4A



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