



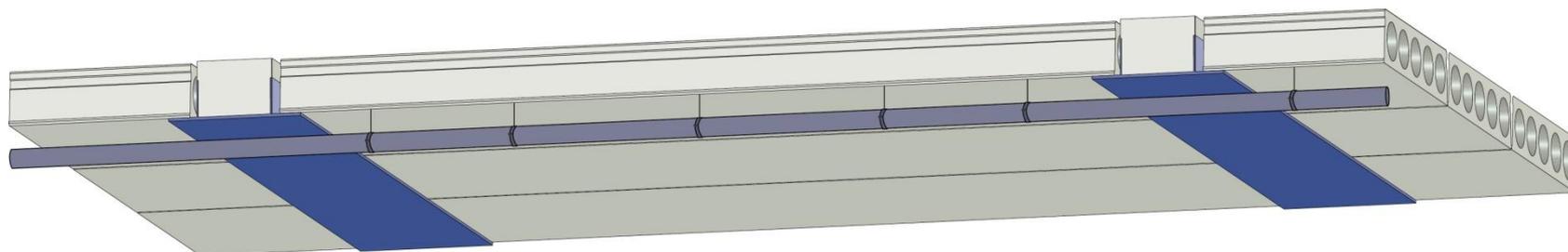
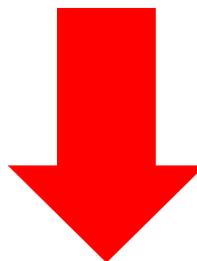
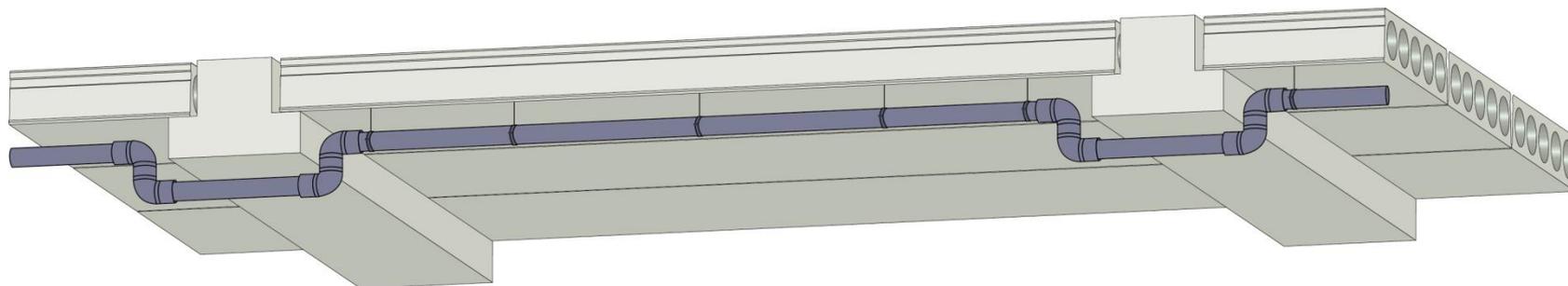
**Cu deschideri mai mari în viitor... PFEIFER-Hybridbeam®**

## Soluții standard

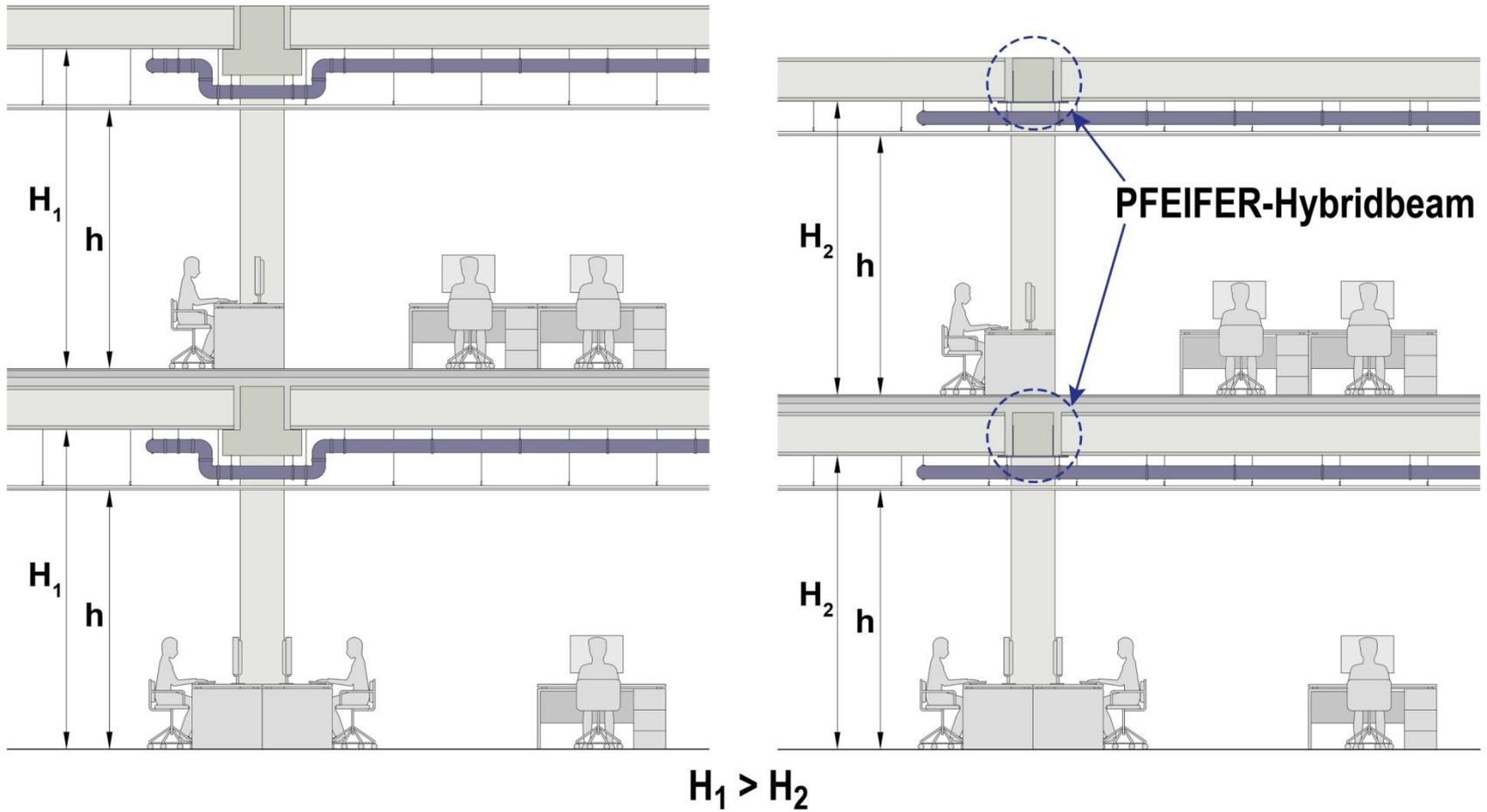
**PFEIFER**



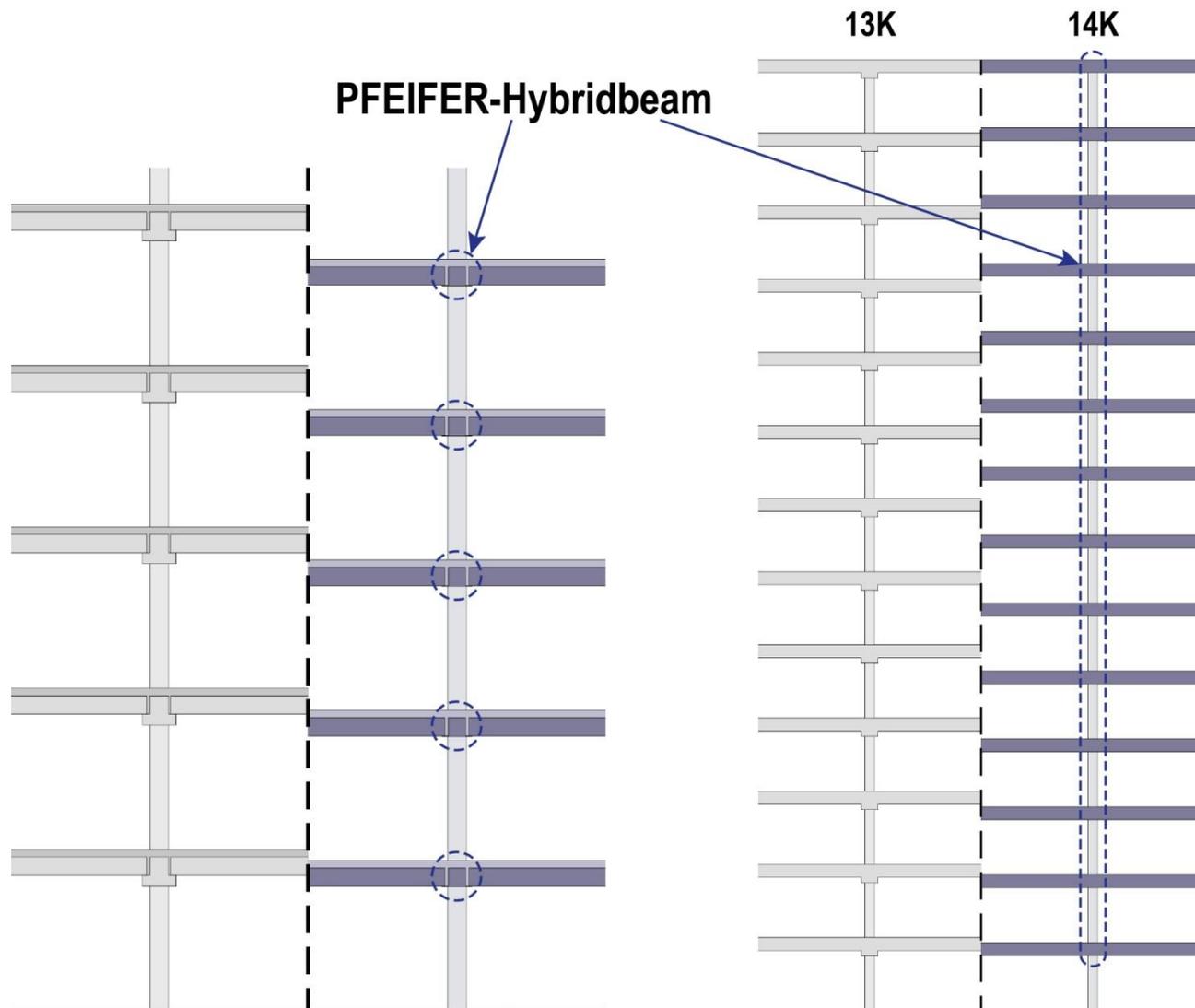
# Suprafața netedă la planșeu



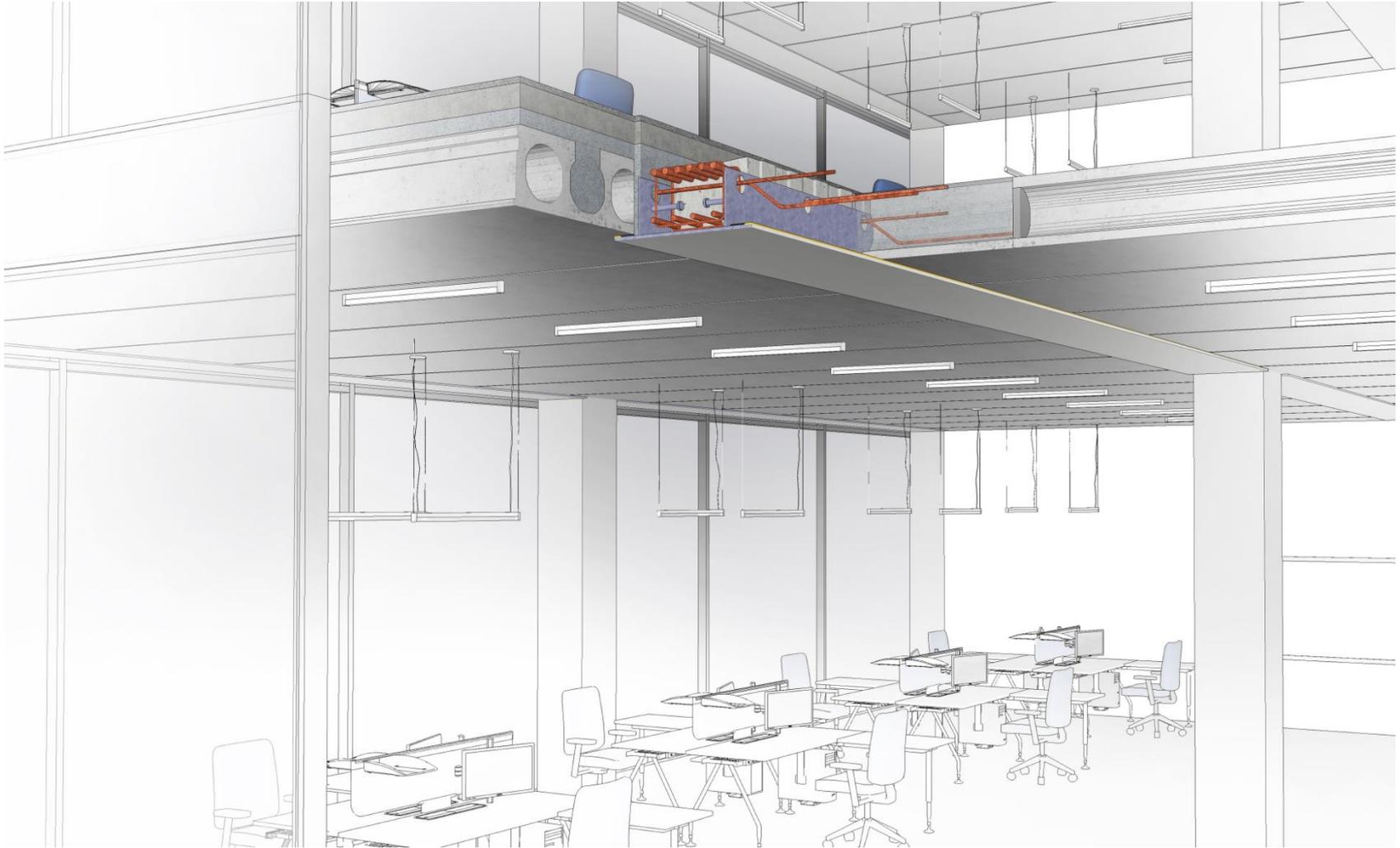
# Reducerea înălțimii unui etaj



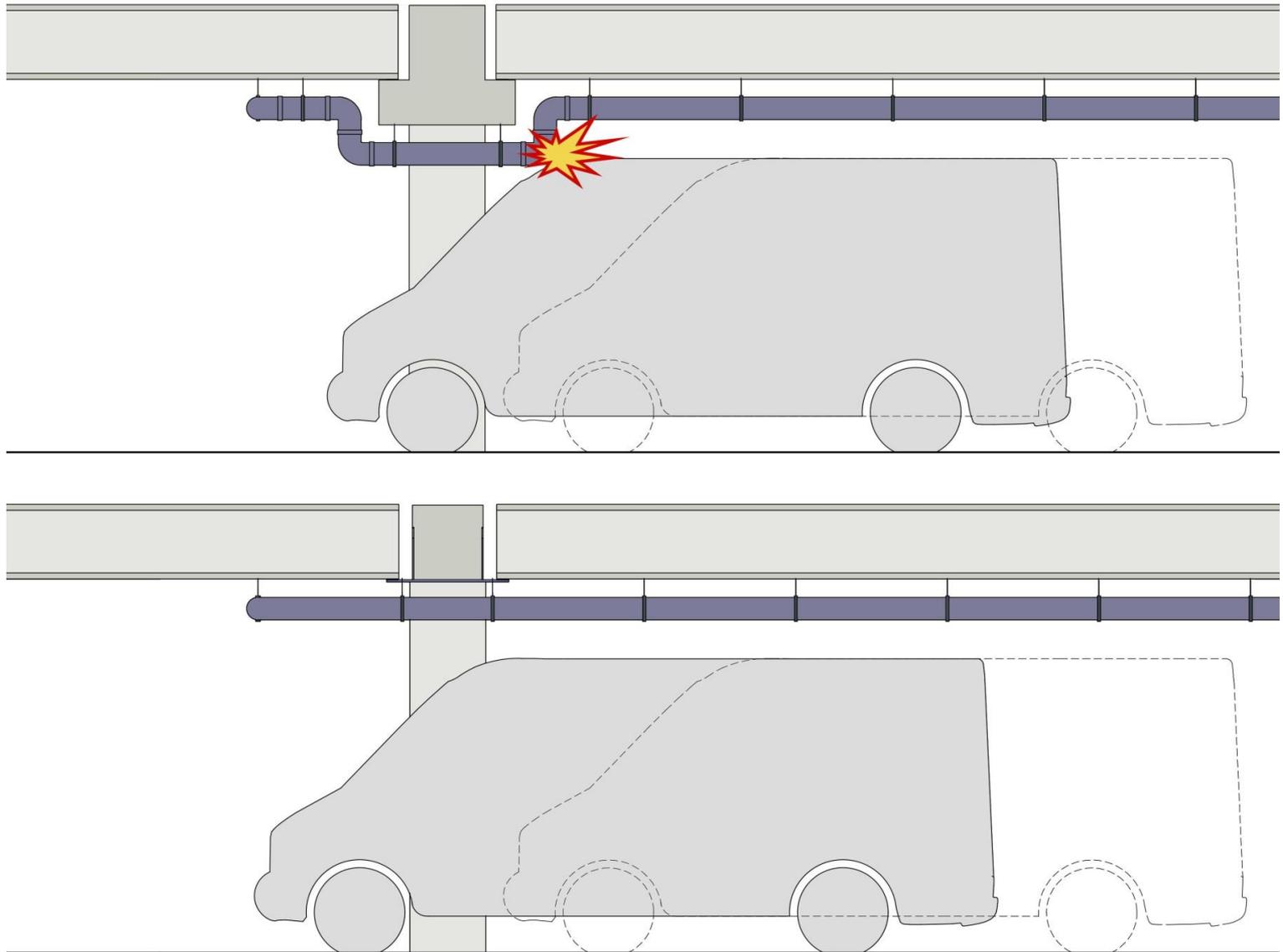
# Înălțime mai mică a clădirii



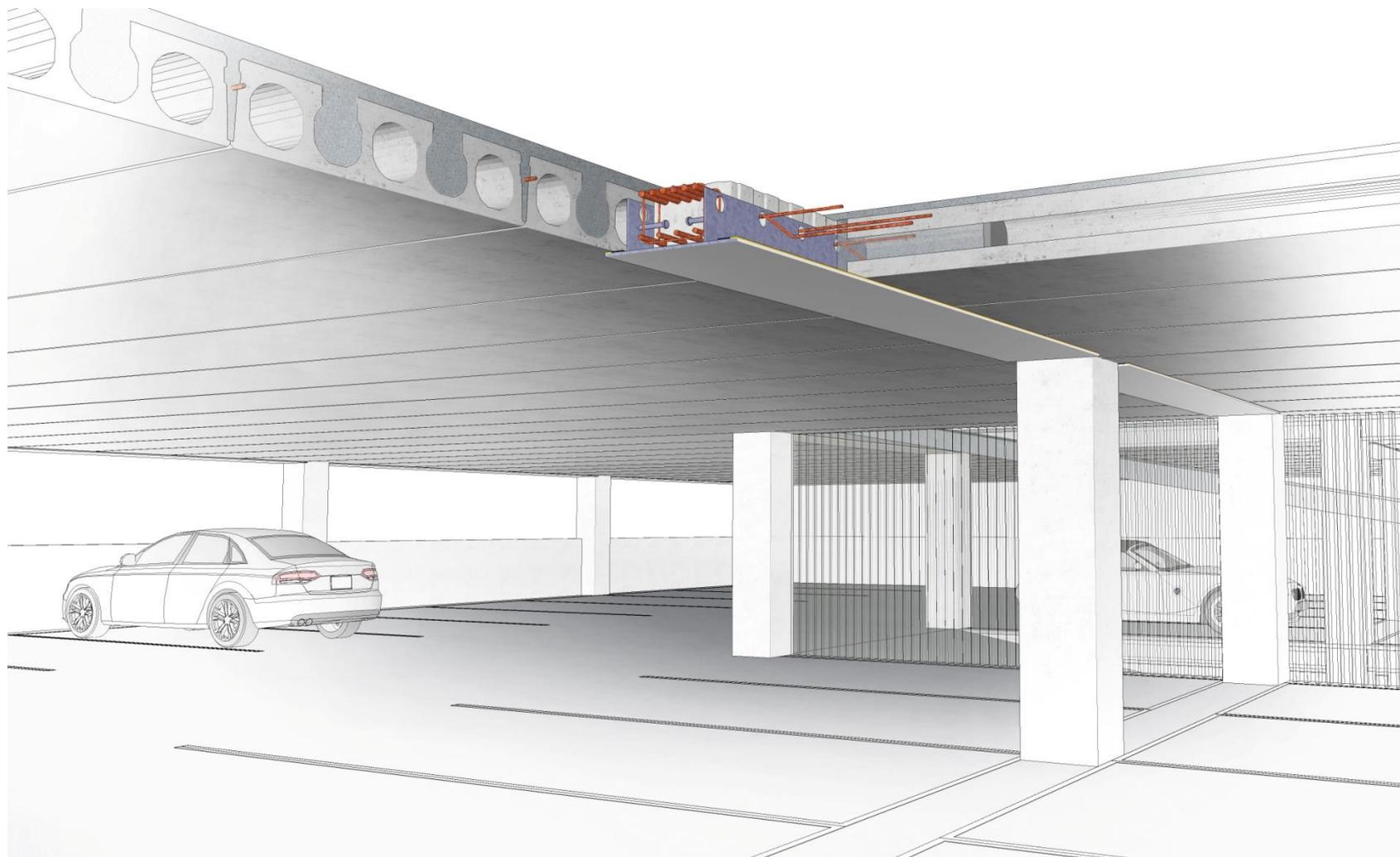
# Spațiu deschis



# Spațiu deschis

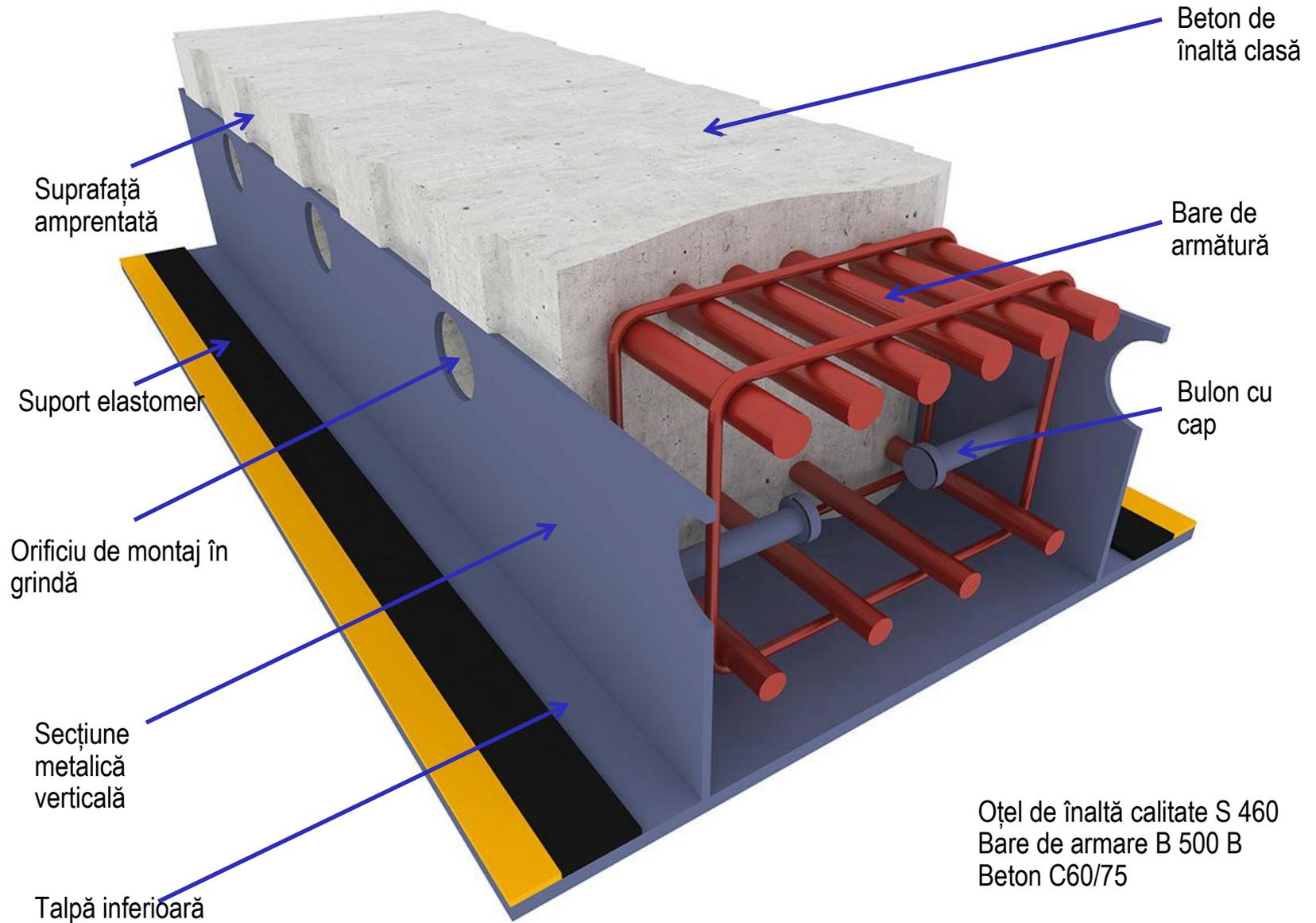


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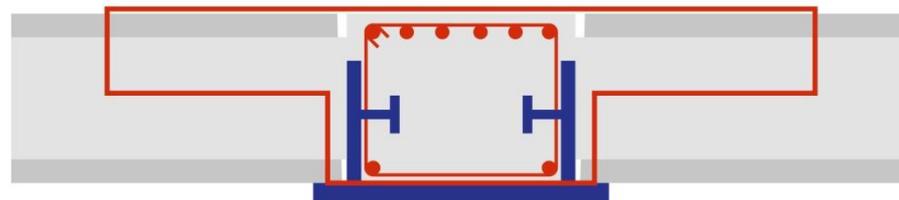
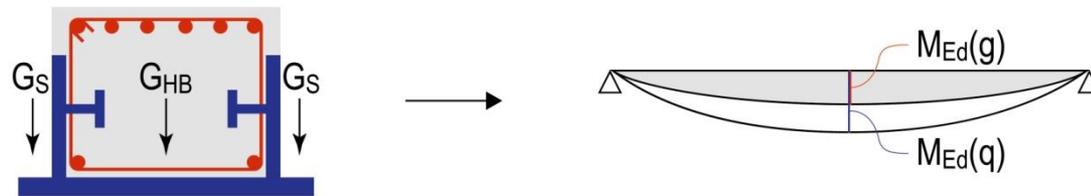


# PFEIFER-Hybridbeam

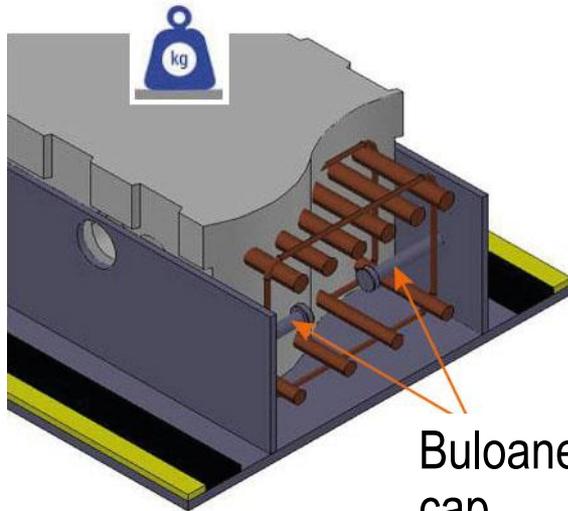
**PFEIFER**



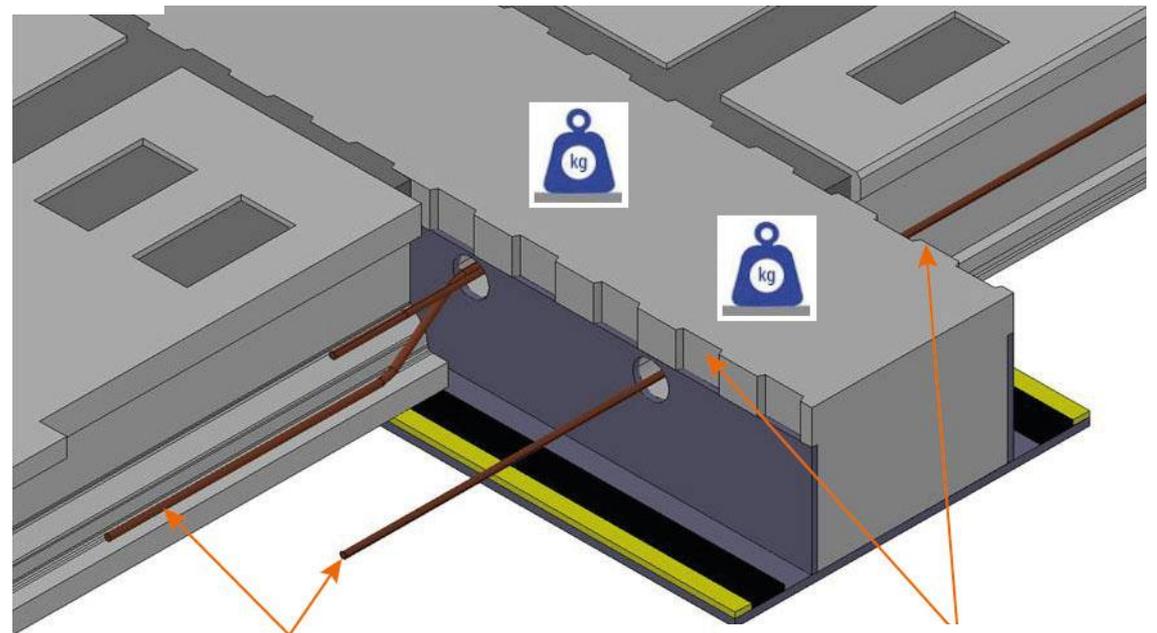
# Idee- conexiune dublă



# Conexiune dublă

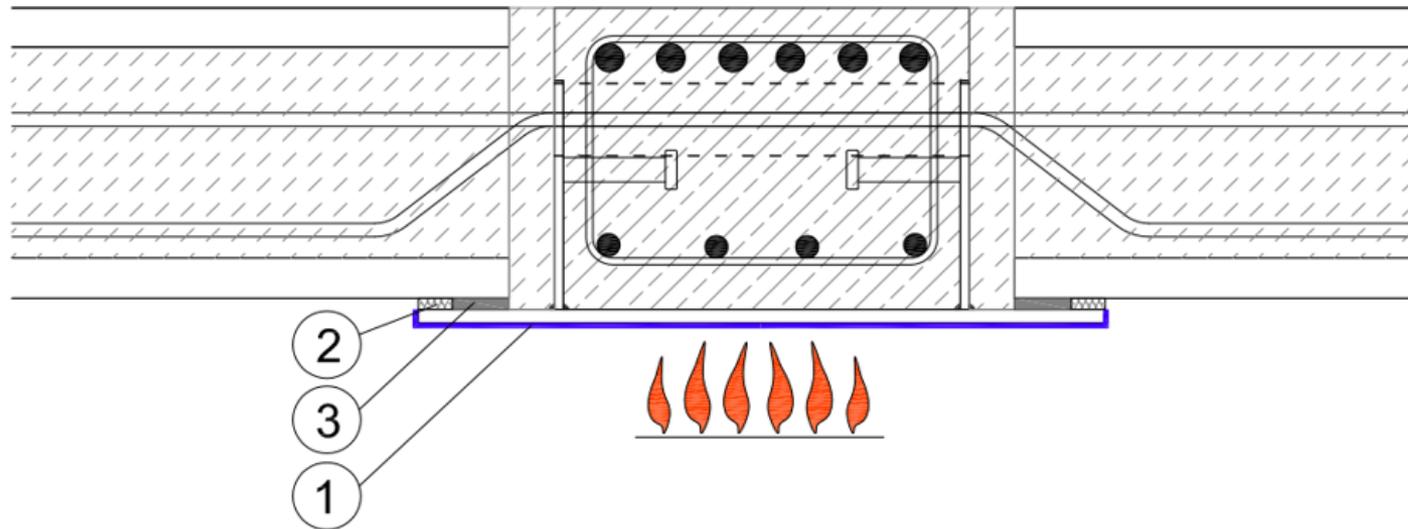


Buloane cu cap



Armătură de  
continuizare

Suprafață amprentată  
de beton



1- vopsea rezistentă la foc sau placă de gips-carton de 10-20mm grosime

2,3- suport elastomer protejat cu vată minerală cu lățime de 30mm

Tablica C3. Klasyfikacja w zakresie odporności ogniowej belek HybridBeam BH zabezpieczonych zestawem wyrobów malarskich Firefilm 901 i 902

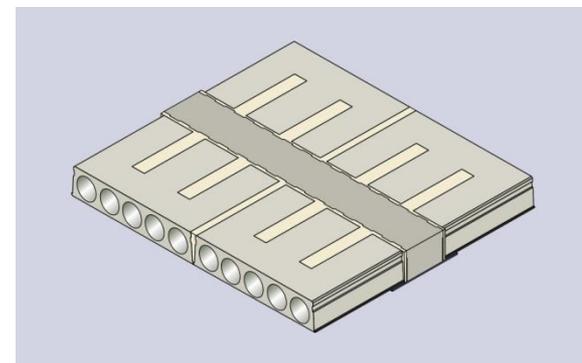
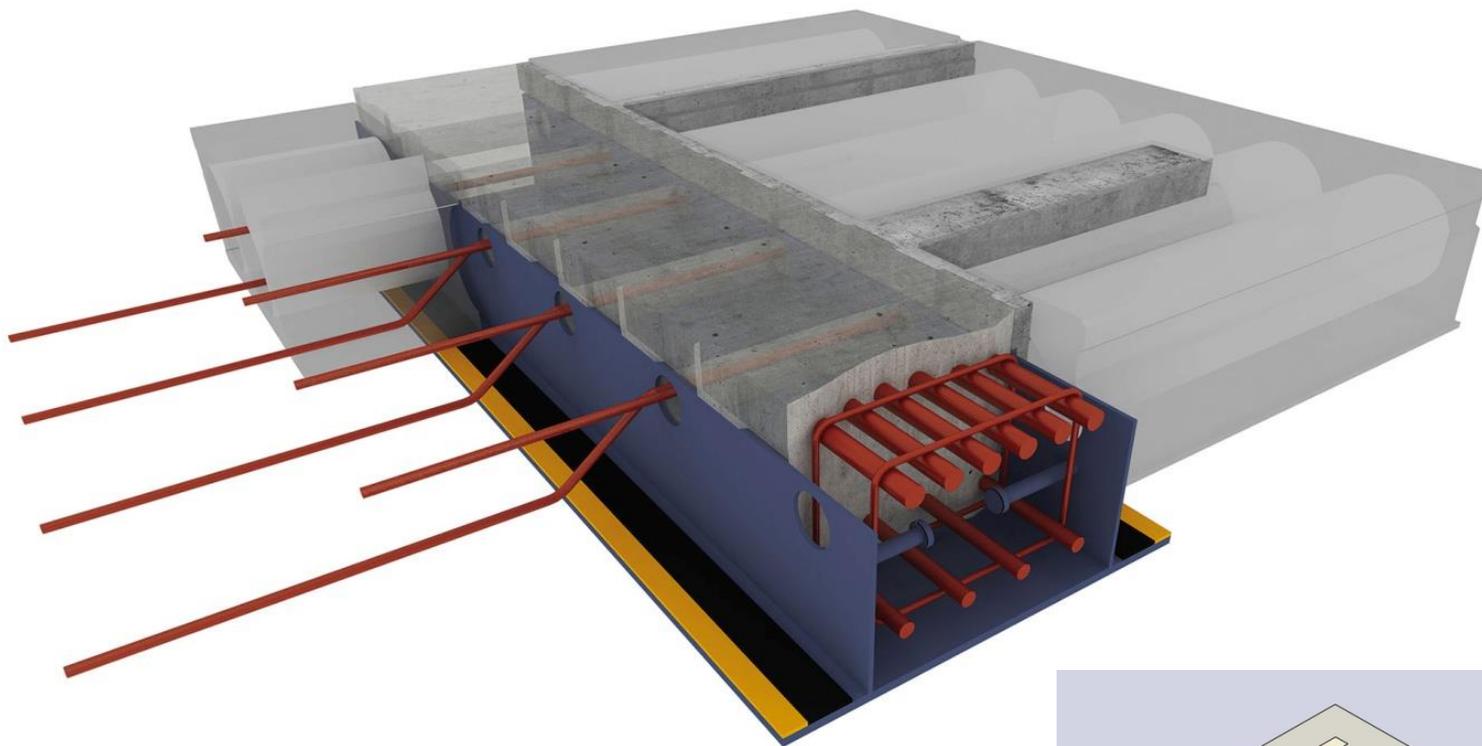
Poz.	Klasa odporności ogniowej	Grubość DFT warstwy pęczniającej zestawu wyrobów malarskich Firefilm 901 i 902 [mm] w zależności od temperatury krytycznej stali profilu belki		
		550°C	600°C	650°C
1	2	3	4	5
1	R30	0	0	0
2	R60	0,731	0,588	0,510
3	R90	1,704	1,164	0,975
4	R120	2,920	2,458	1,976



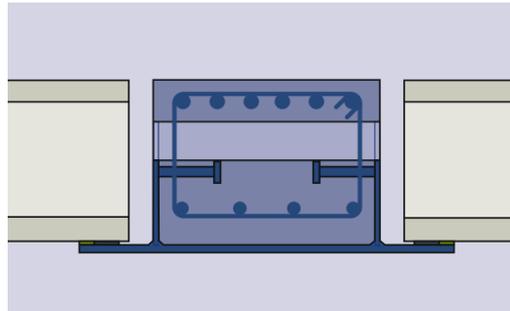
**PFEIFER-Hybridbeam®**



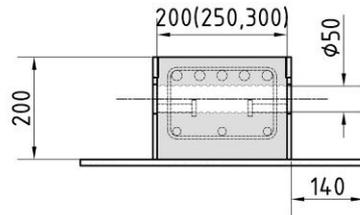
# Făși cu goluri precomprimate



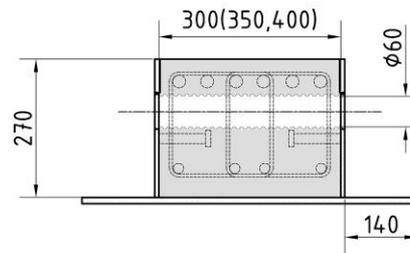
# Versiunea BHM



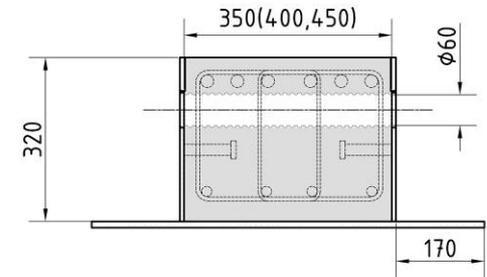
BHM 20



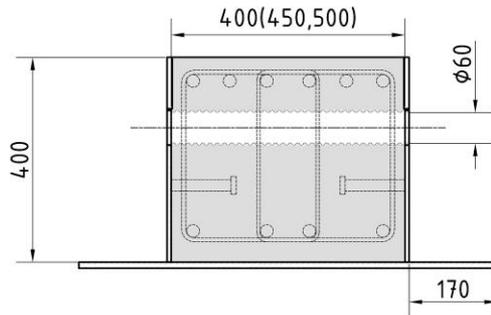
BHM 27



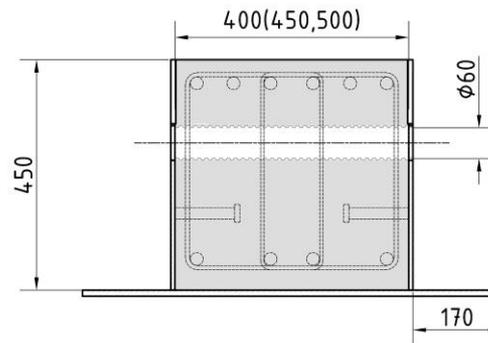
BHM 32



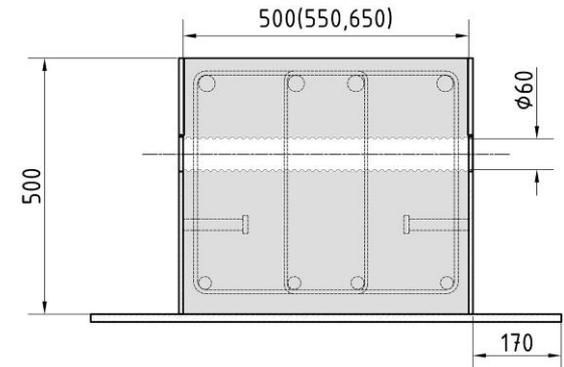
BHM 40



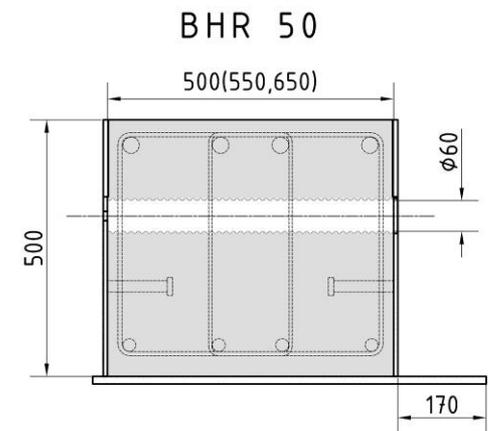
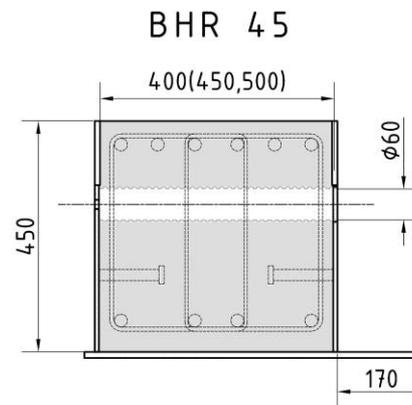
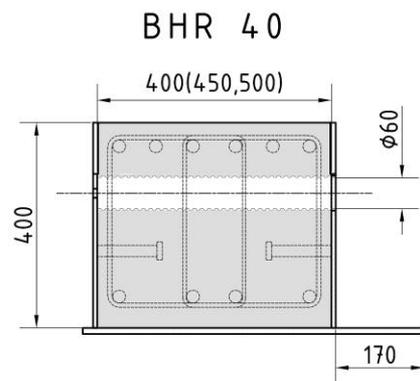
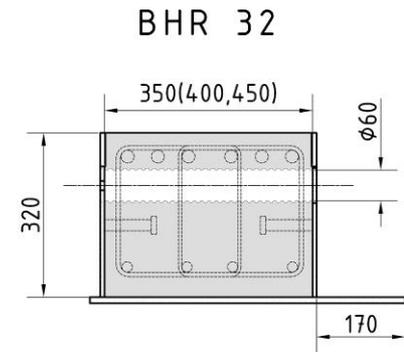
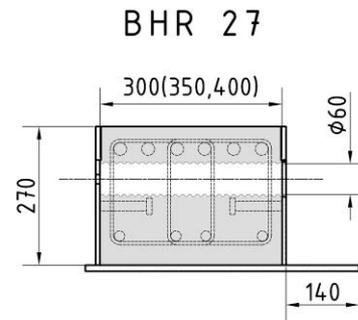
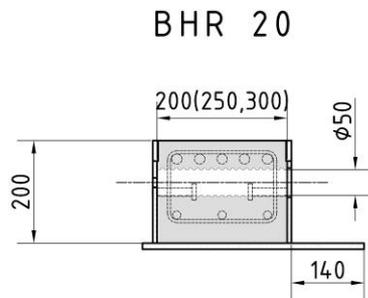
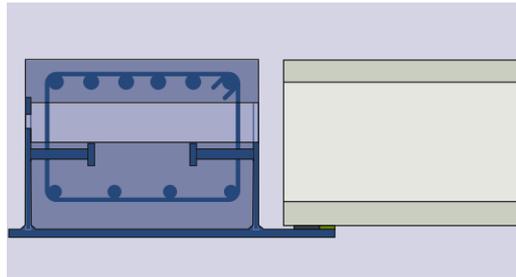
BHM 45



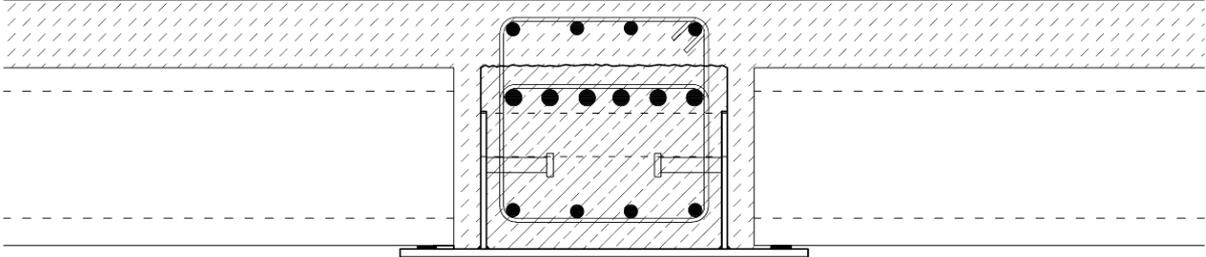
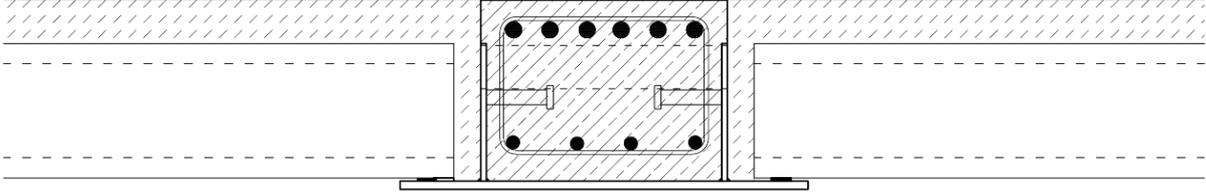
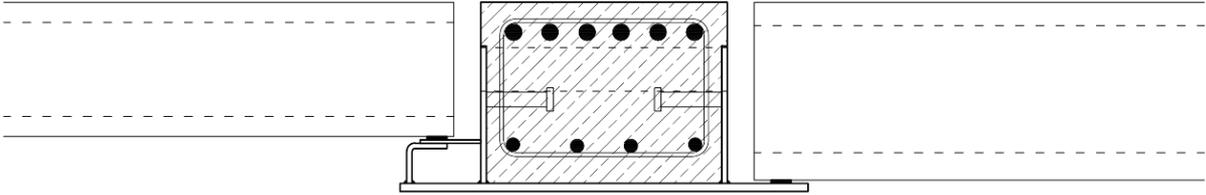
BHM 50



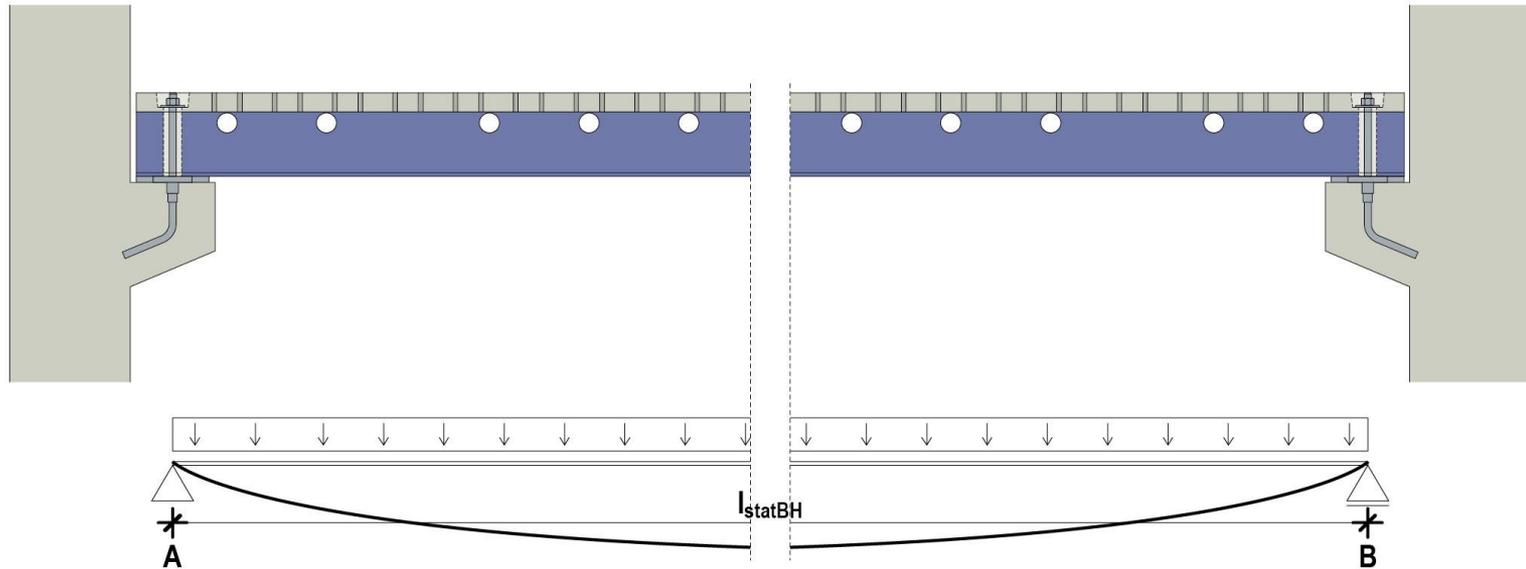
# Versiunea BHR



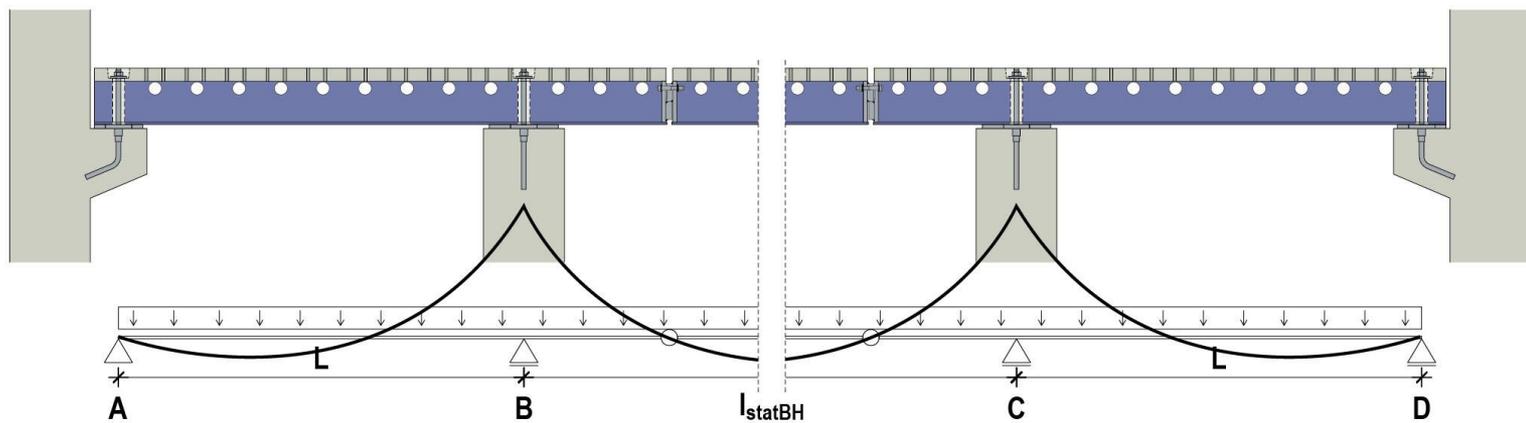
# BH- diferite tipuri de instalare



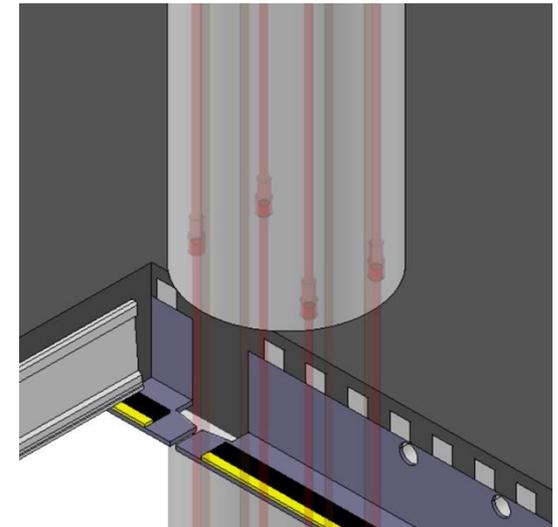
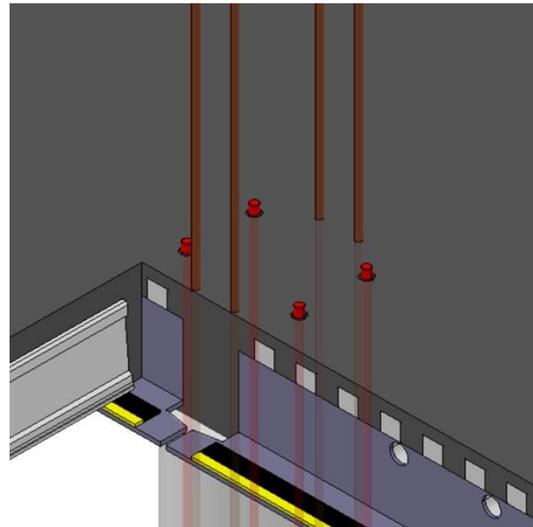
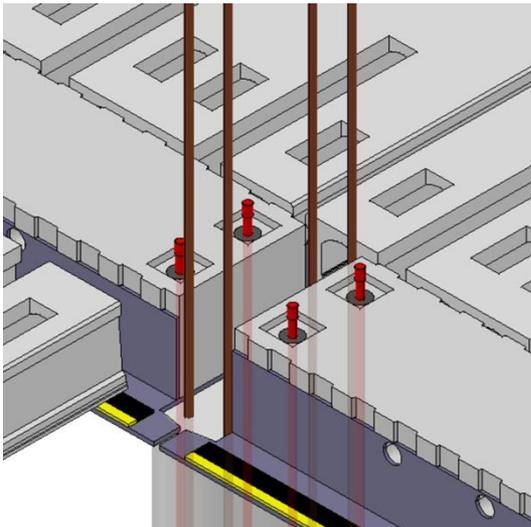
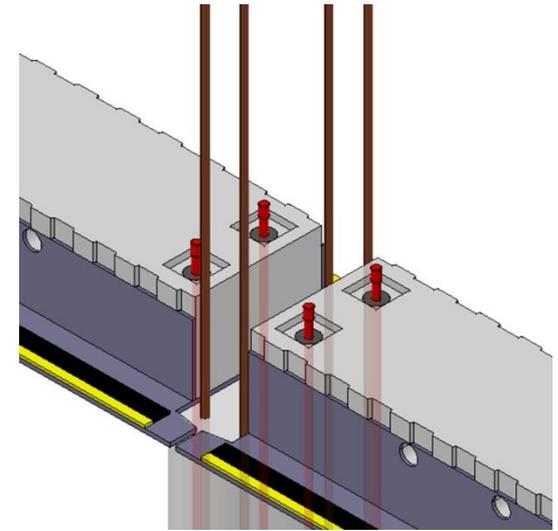
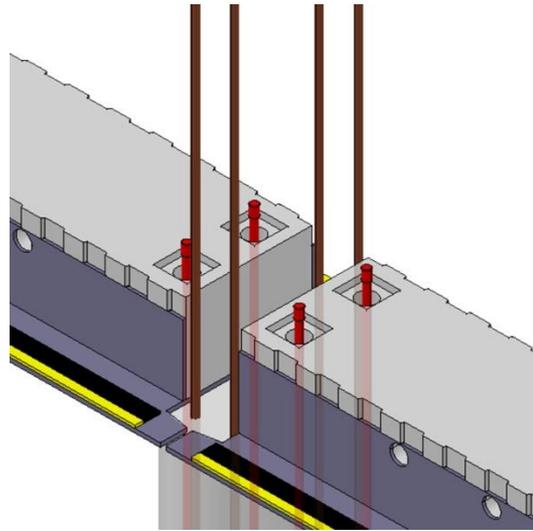
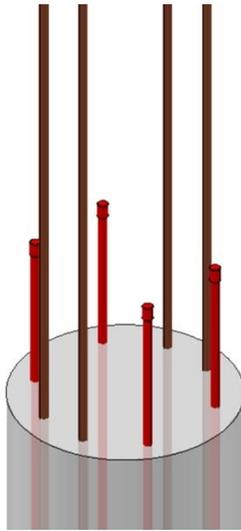
### Grindă cu o deschidere



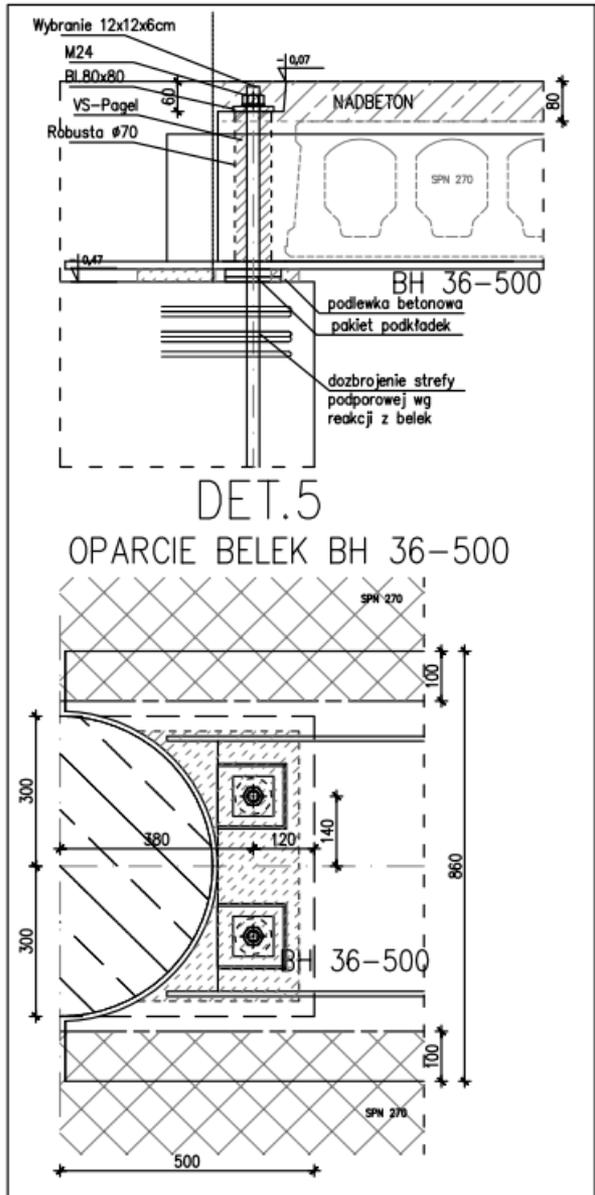
### Grindă cu mai multe deschideri



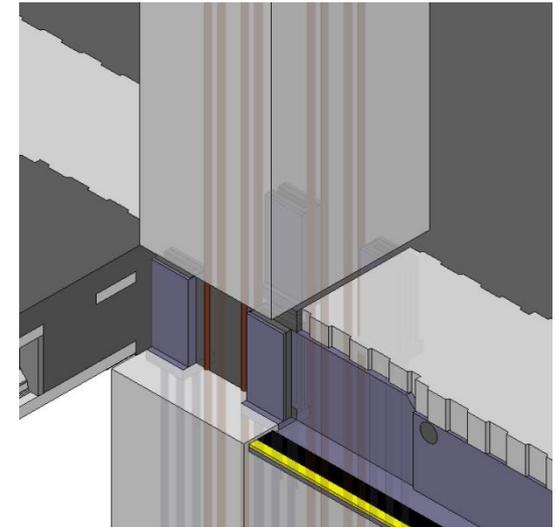
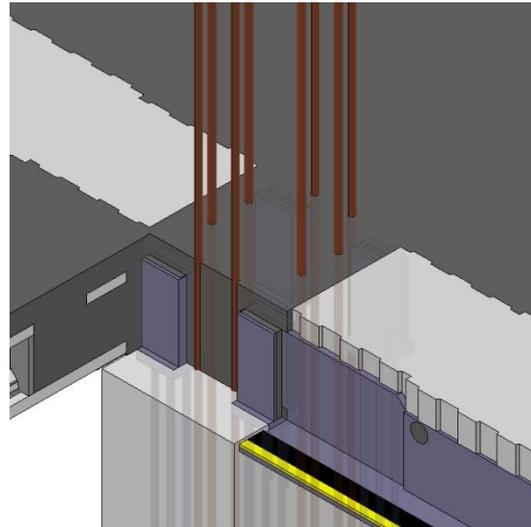
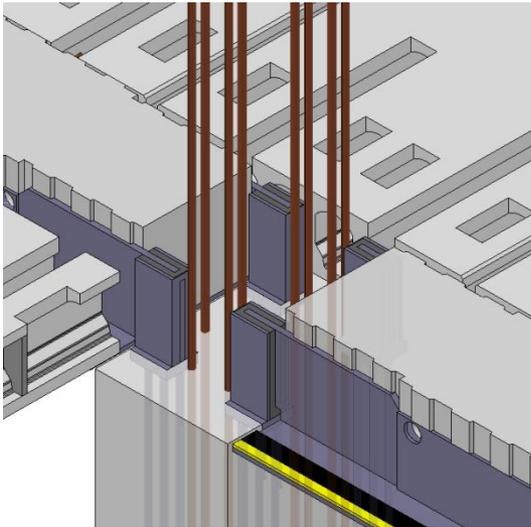
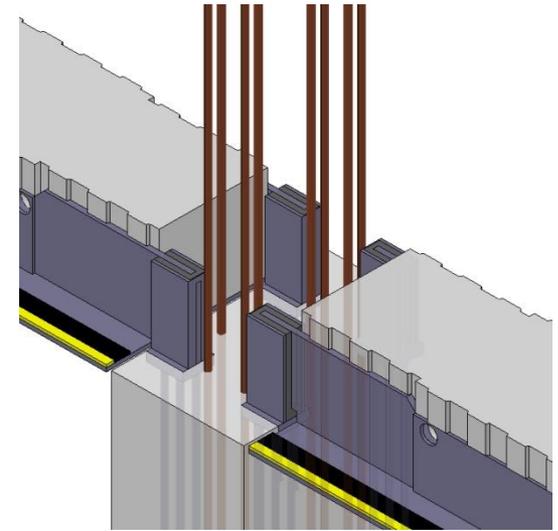
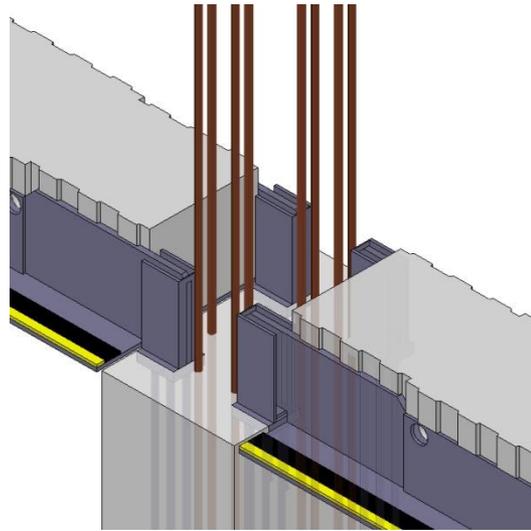
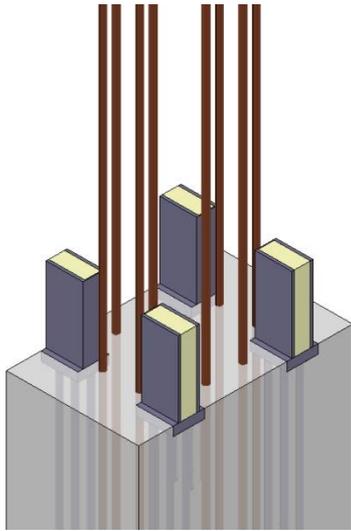
# Rezemare directă pe stâlpi



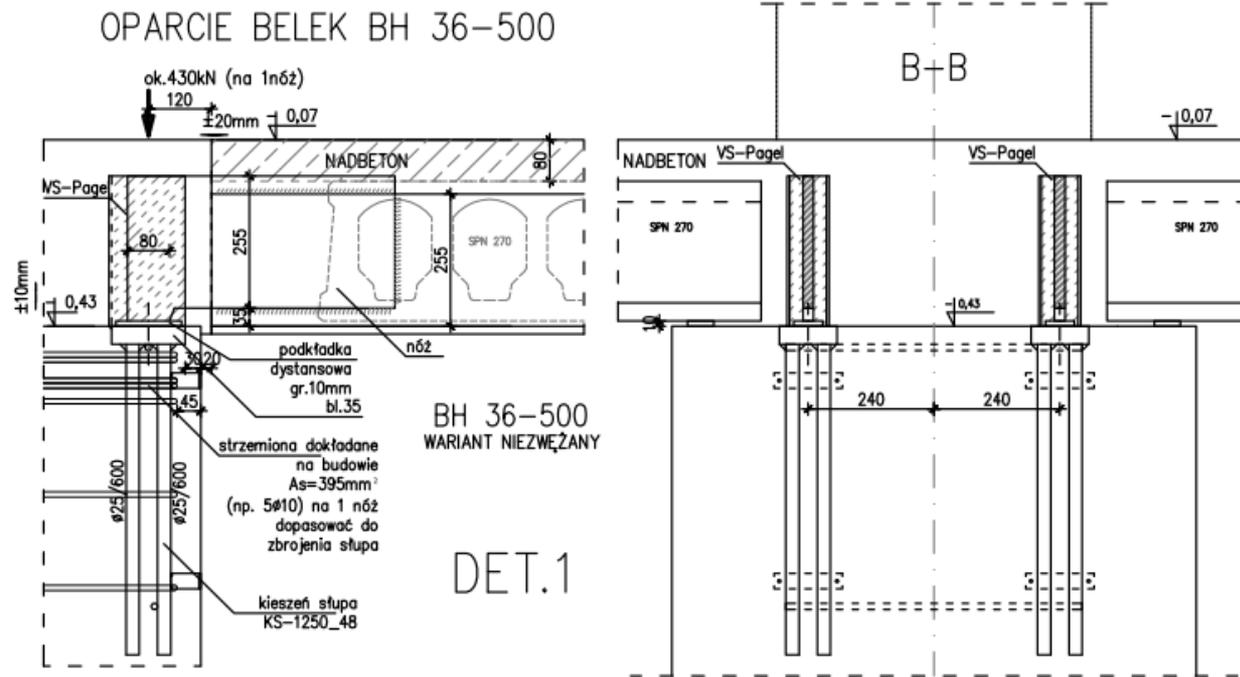
# Rezemare directă pe stâlpi



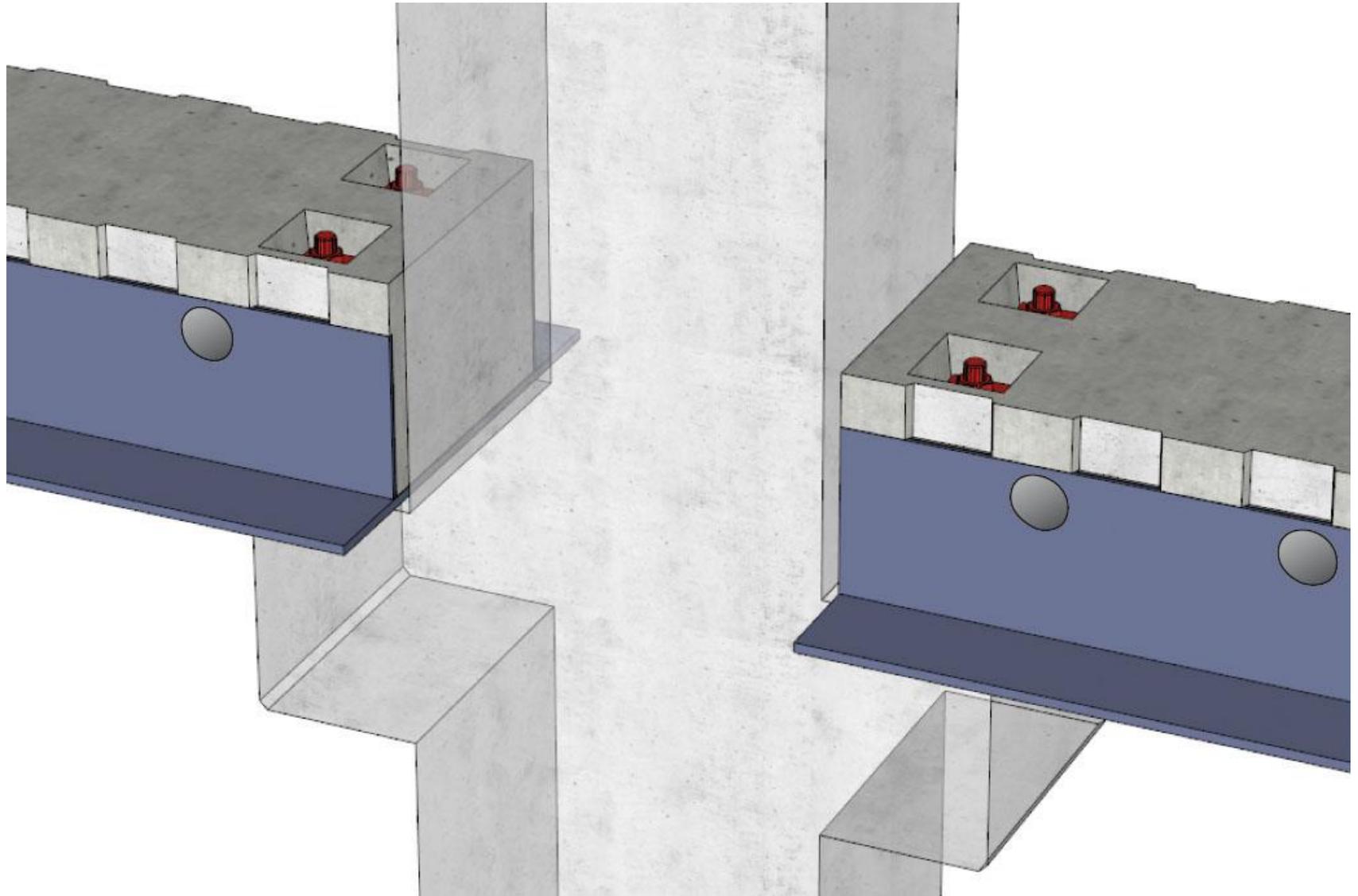
## Rezemare indirectă („pe cuțite”)- stâlpi



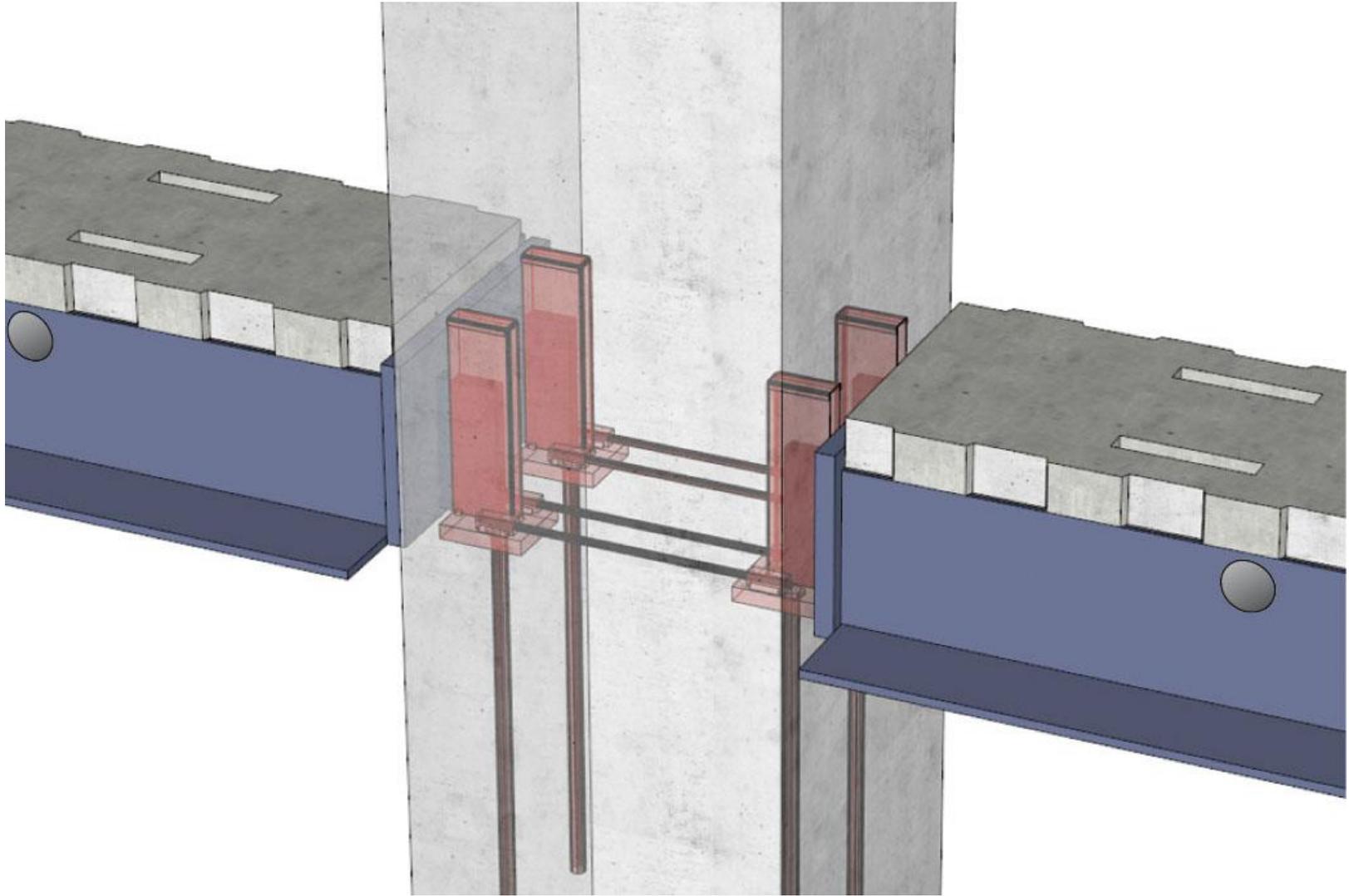
# Rezemare indirectă („pe cuțite”)- stâlpi



## Rezemare directă – stâlpi prefabricați



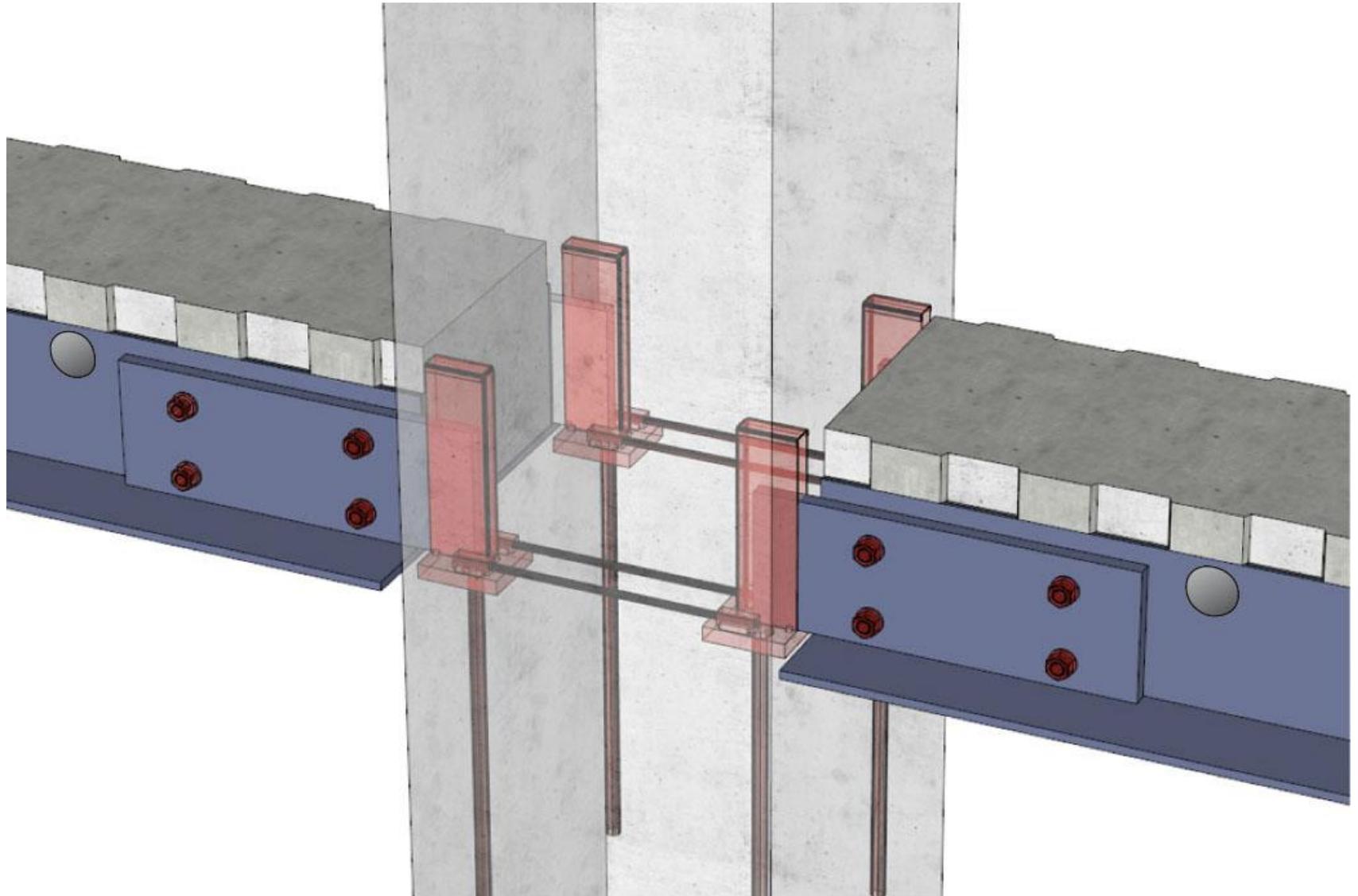
# Rezemare indirectă („pe cuțite mobile”) – stălp prefabricat



# Rezemare indirectă („pe cuțite mobile”) – stălp prefabricat



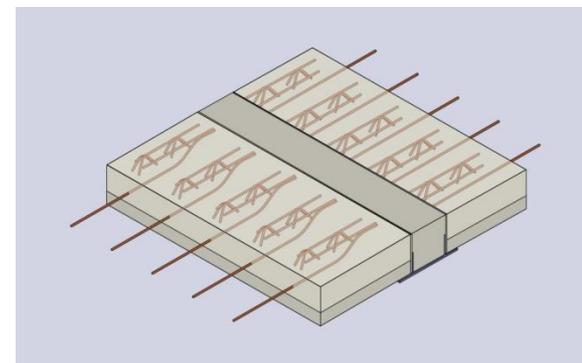
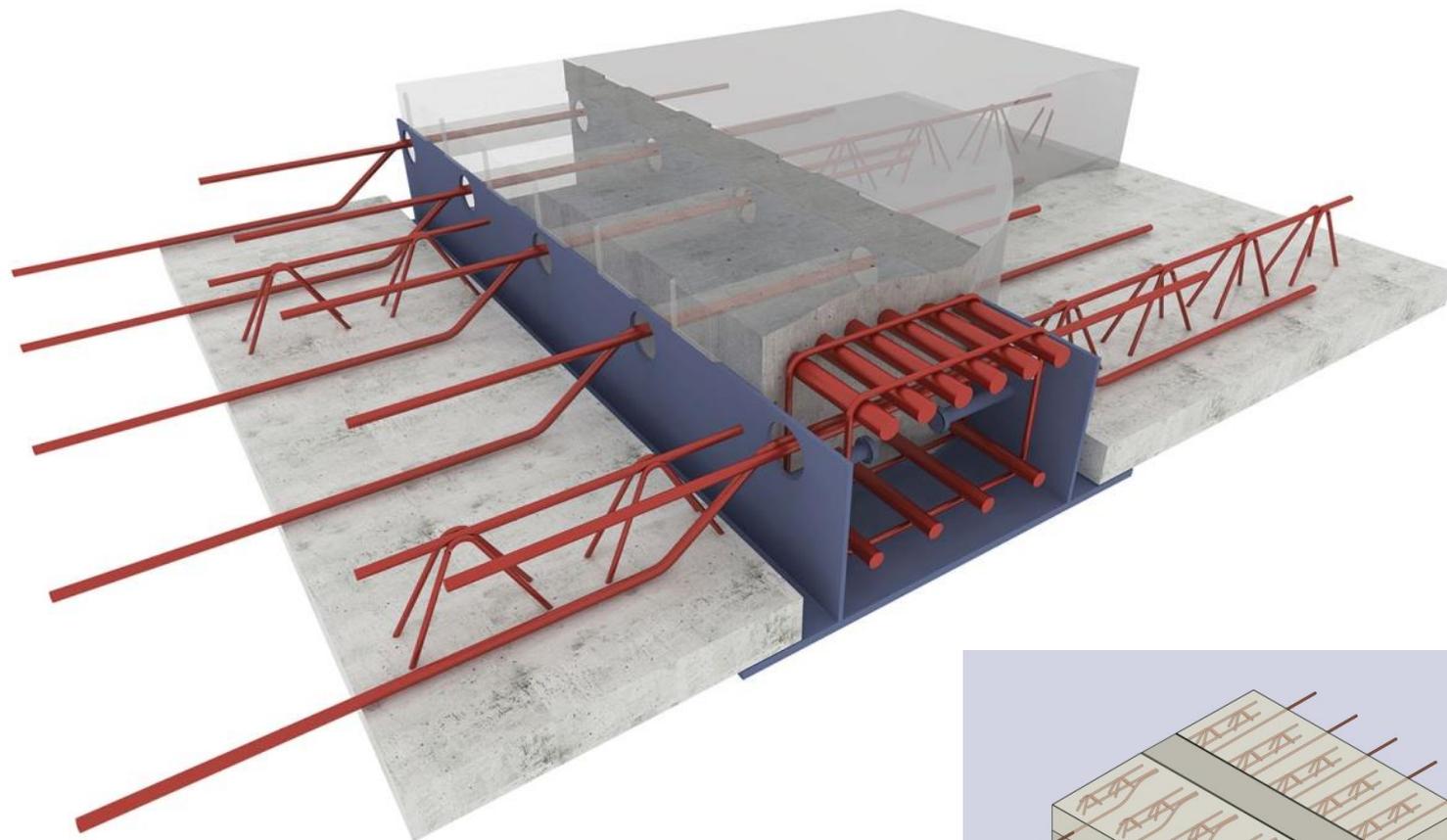
## Rezemare indirectă (pe cuțite înșurubate pe marginea plăcii) – stălp prefabricat



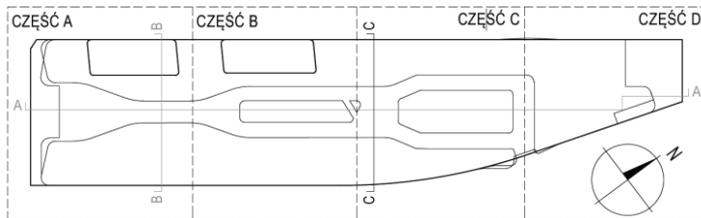
## Rezemare indirectă (pe cuțite înșurubate pe marginea plăcii) – stâlp prefabricat



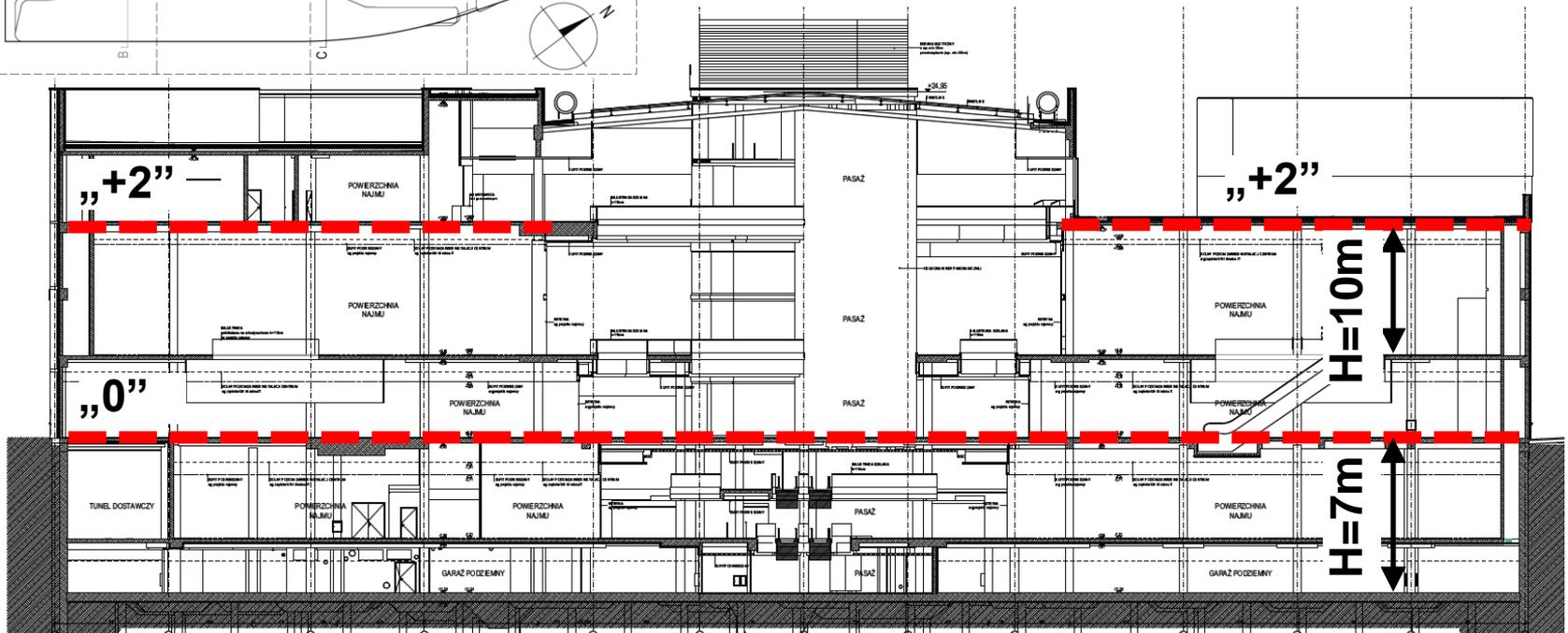
# Planşee „filigran”

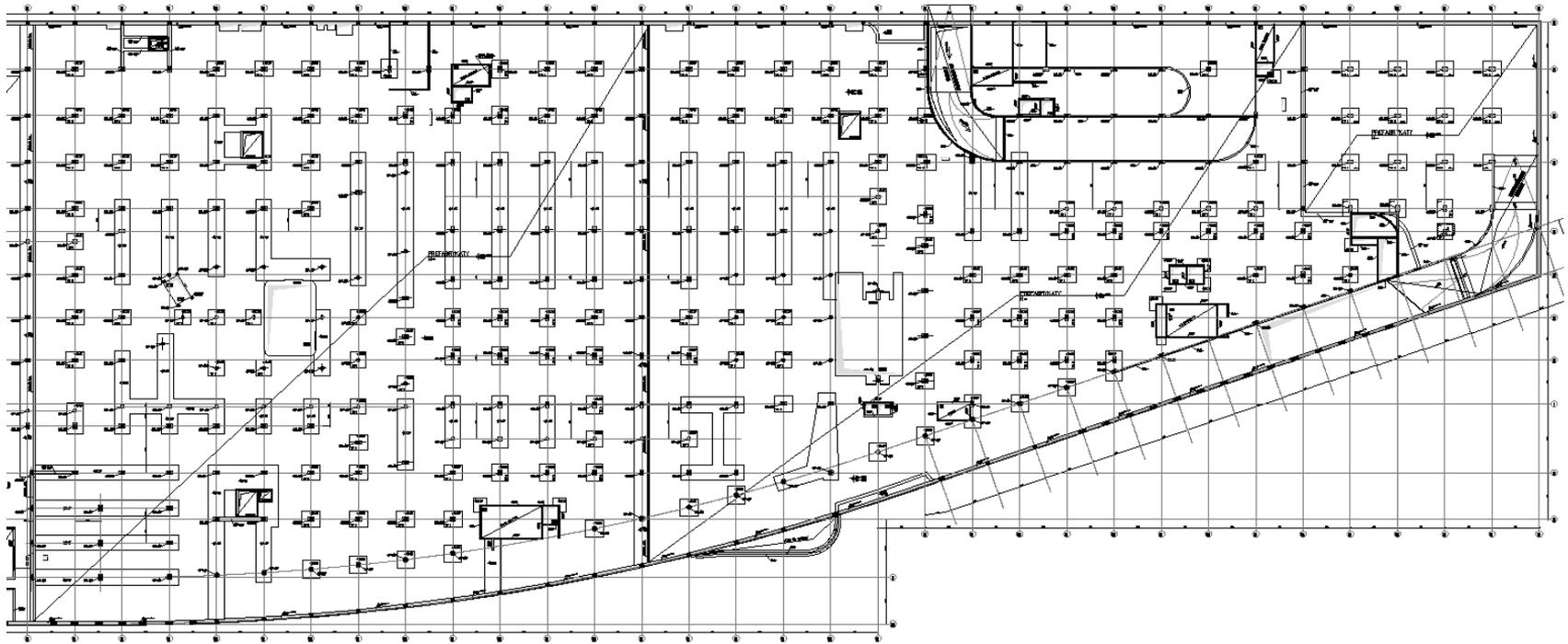


# BH – Central comercial MŁOCINY

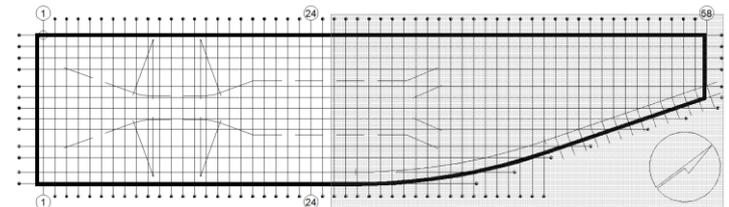


## C-C

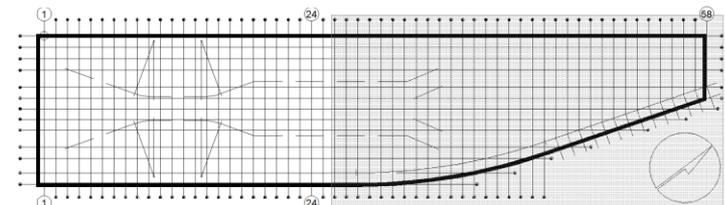
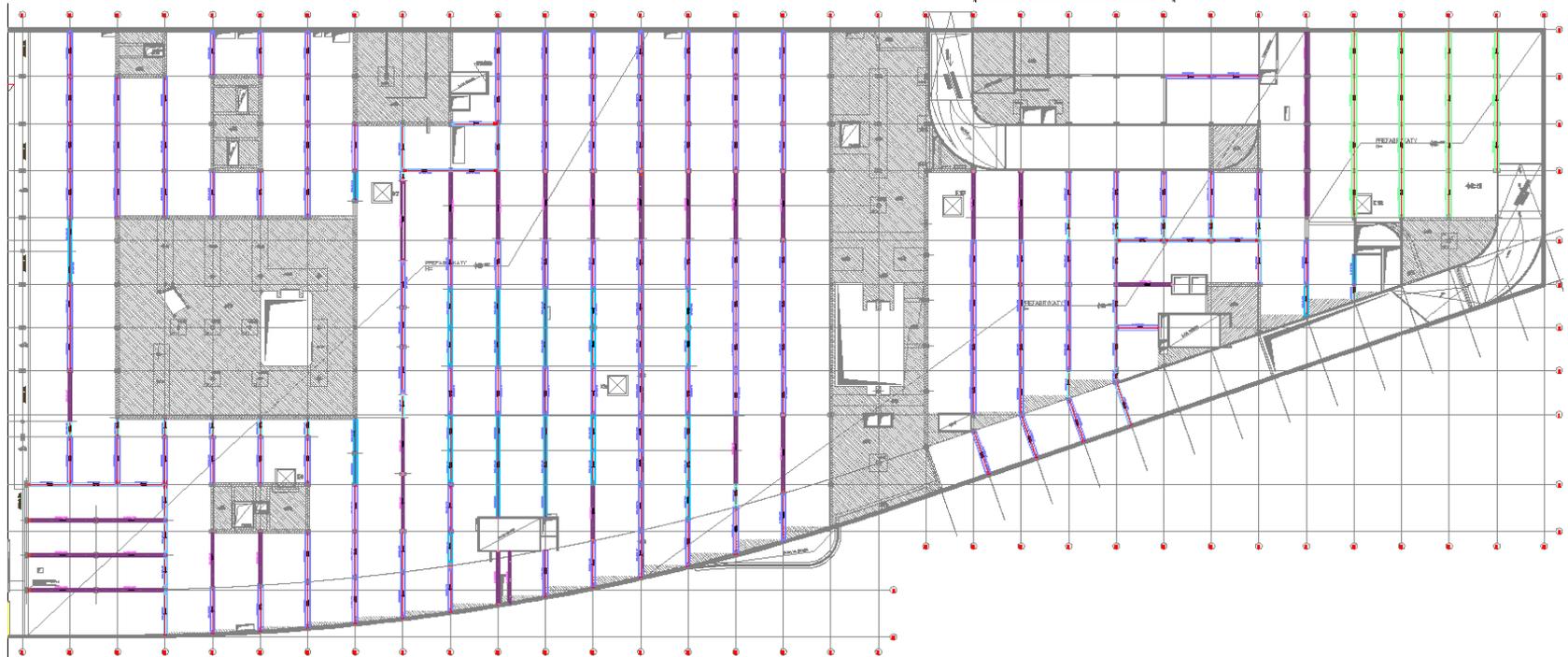
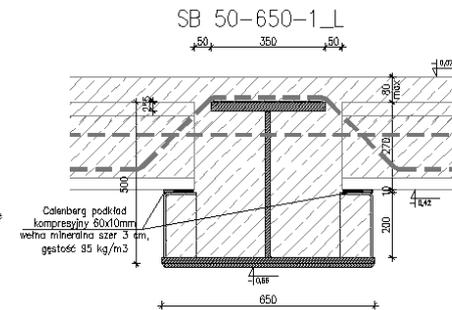
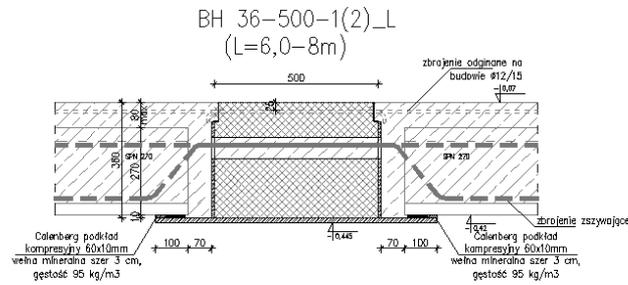




**LEVEL „0”- Planșeu monolitic**



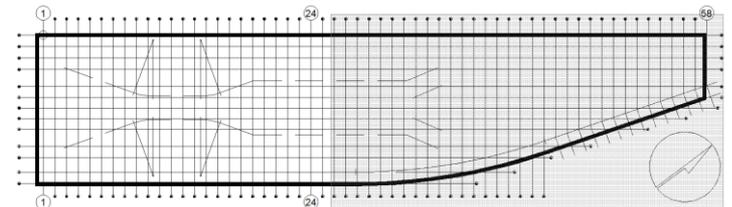
# BH- Central comercial MŁOCINY

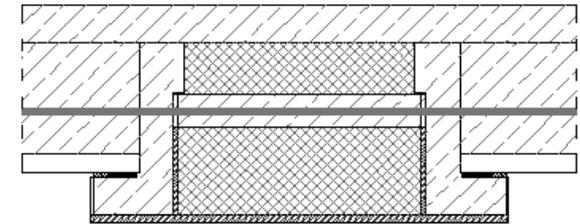
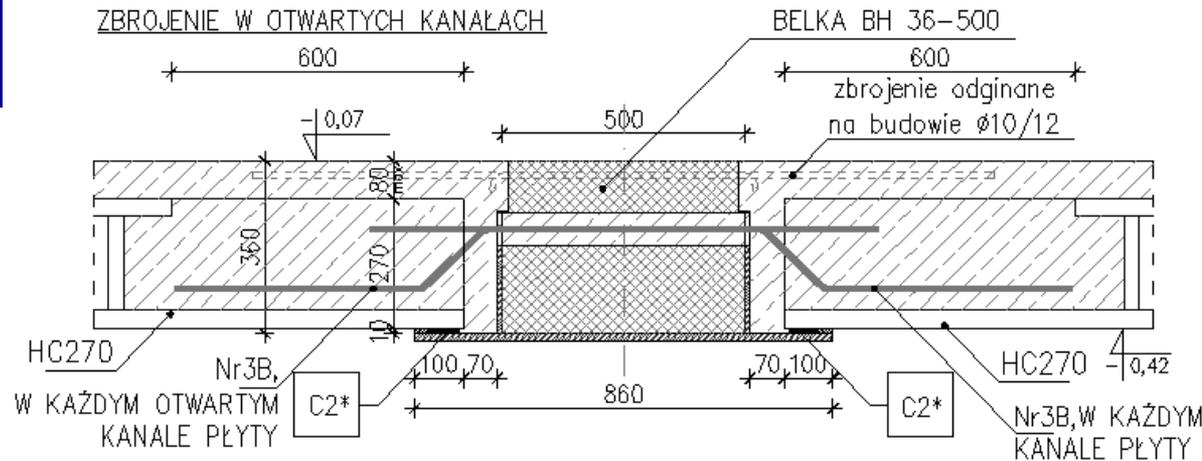
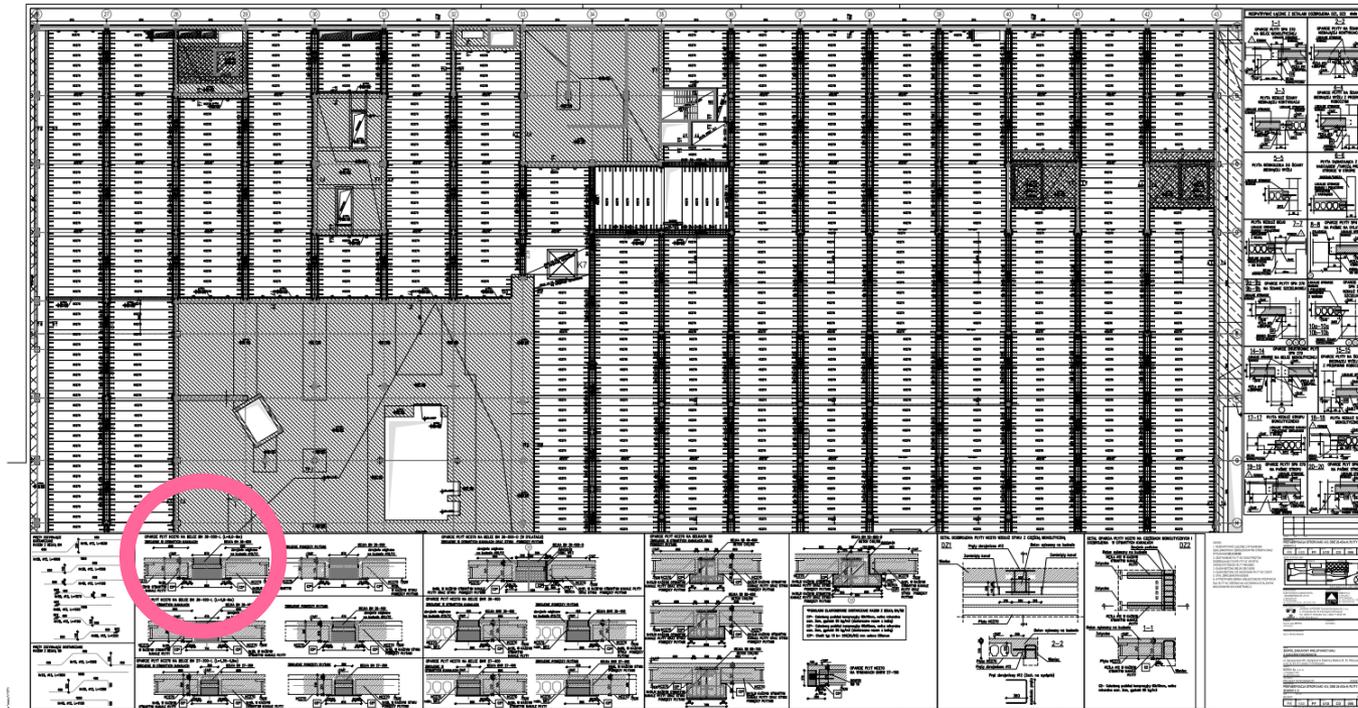


**Level „0”- Grinzi BH/SB: 198/32 buc.**

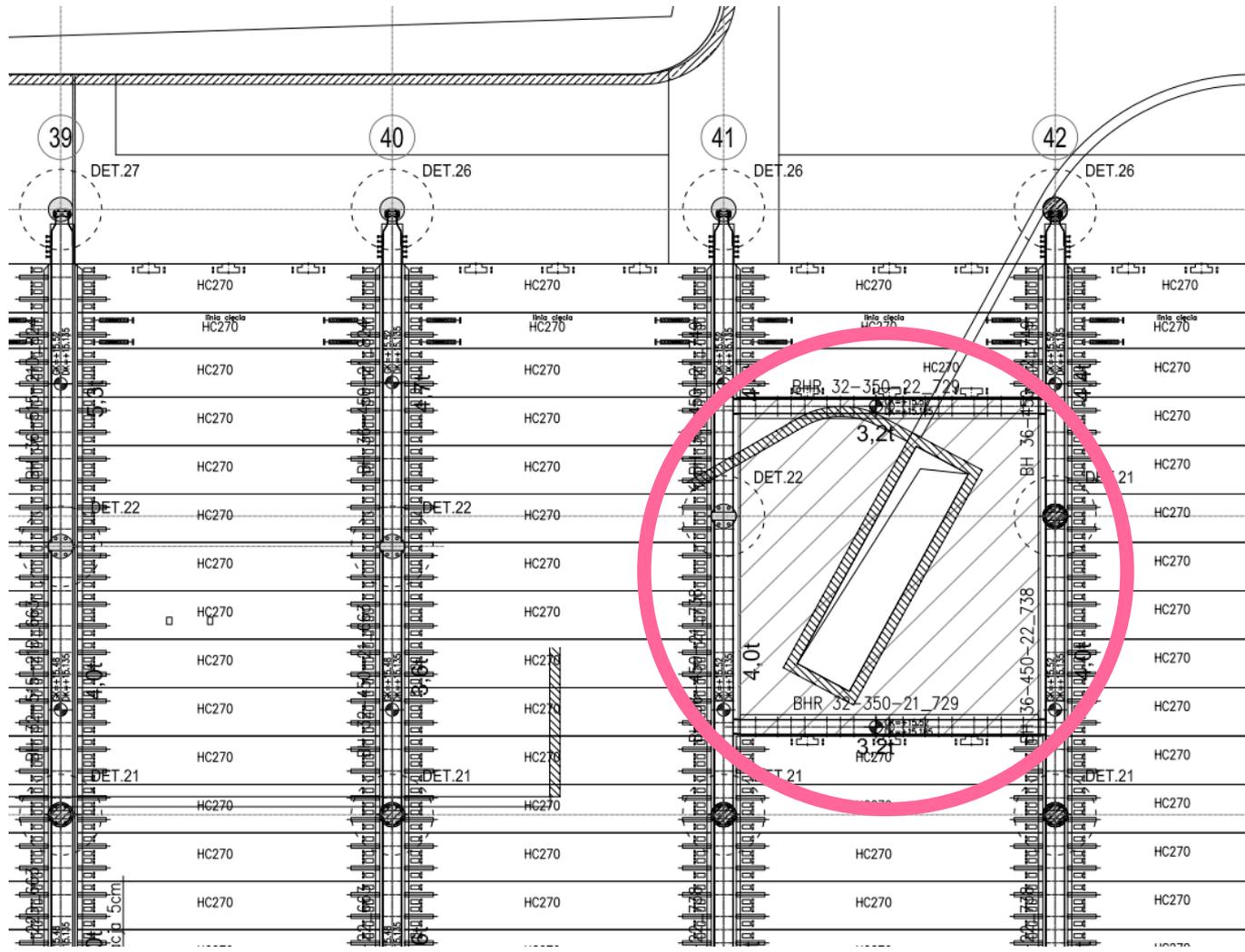


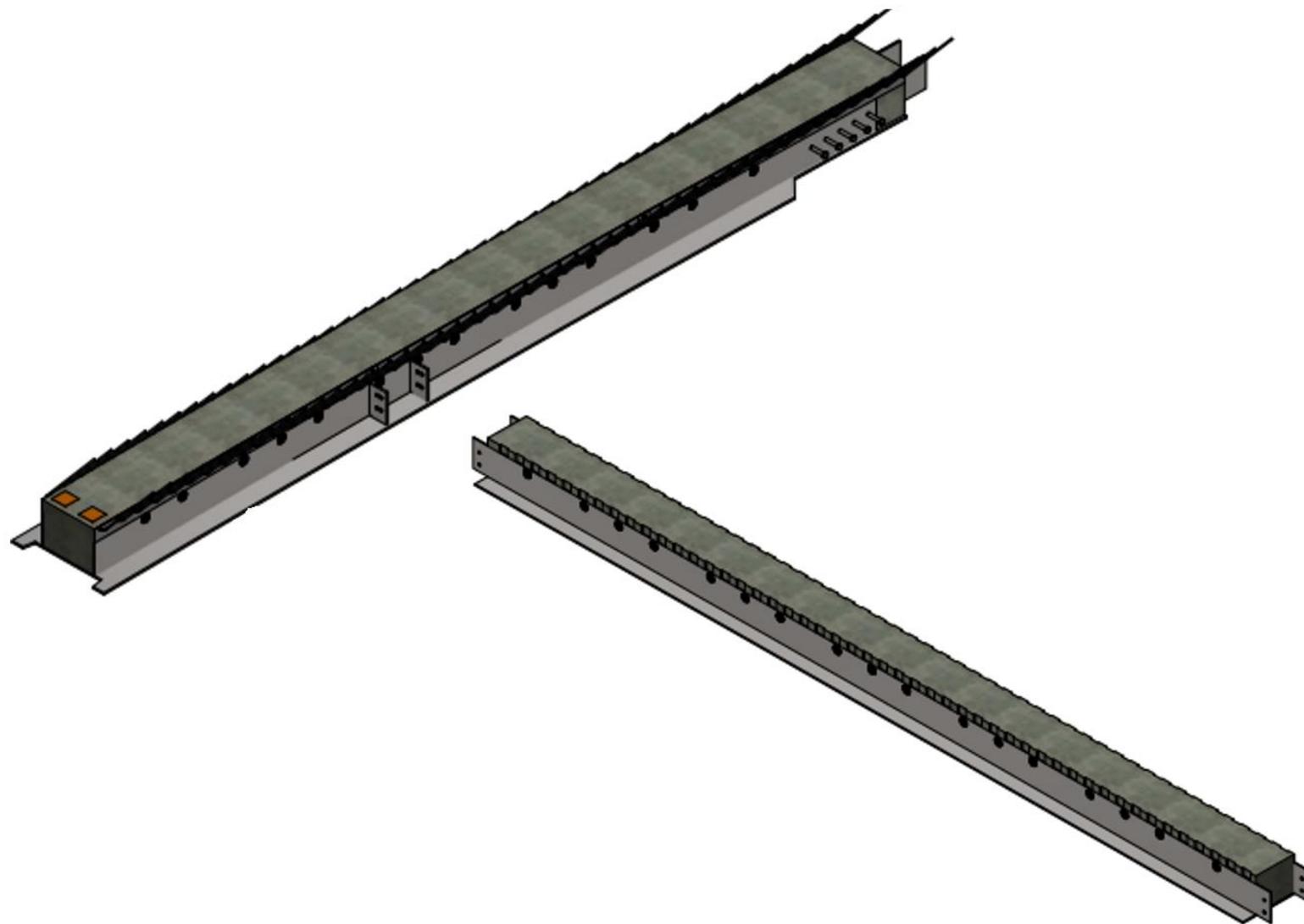
**Etaj „0”- Fășii cu goluri HC265/400  
1732 buc./ 16100 m2**

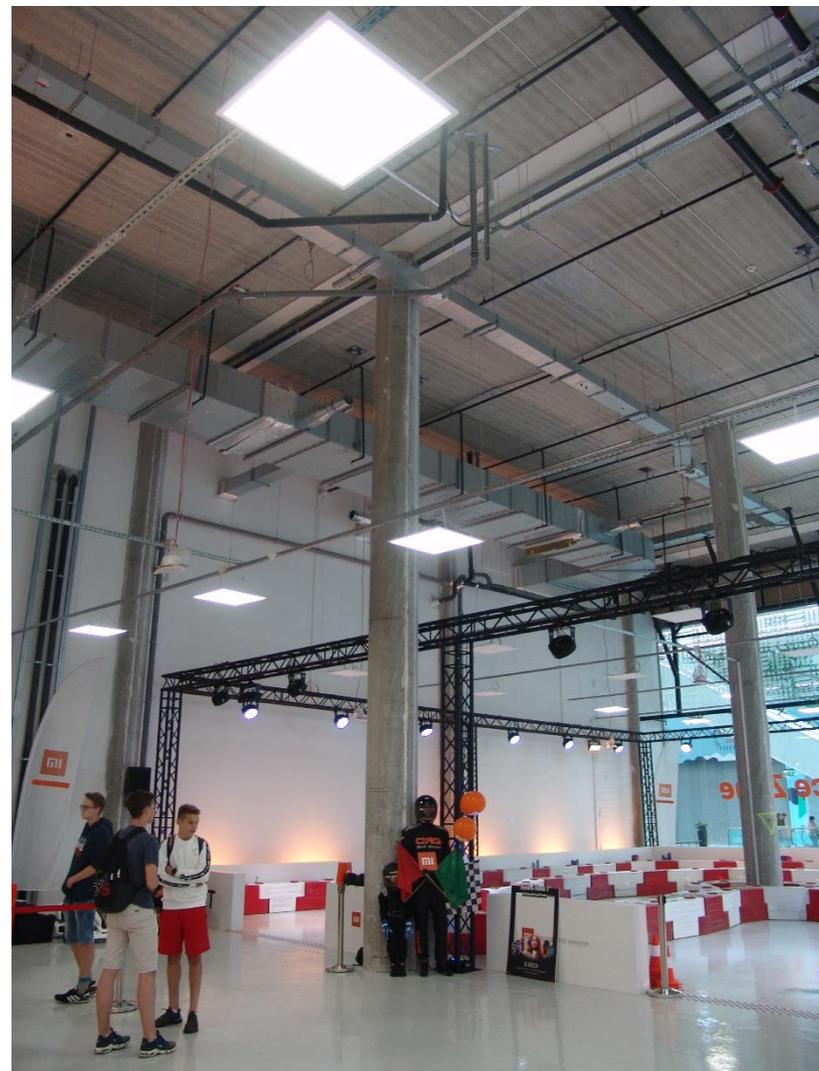
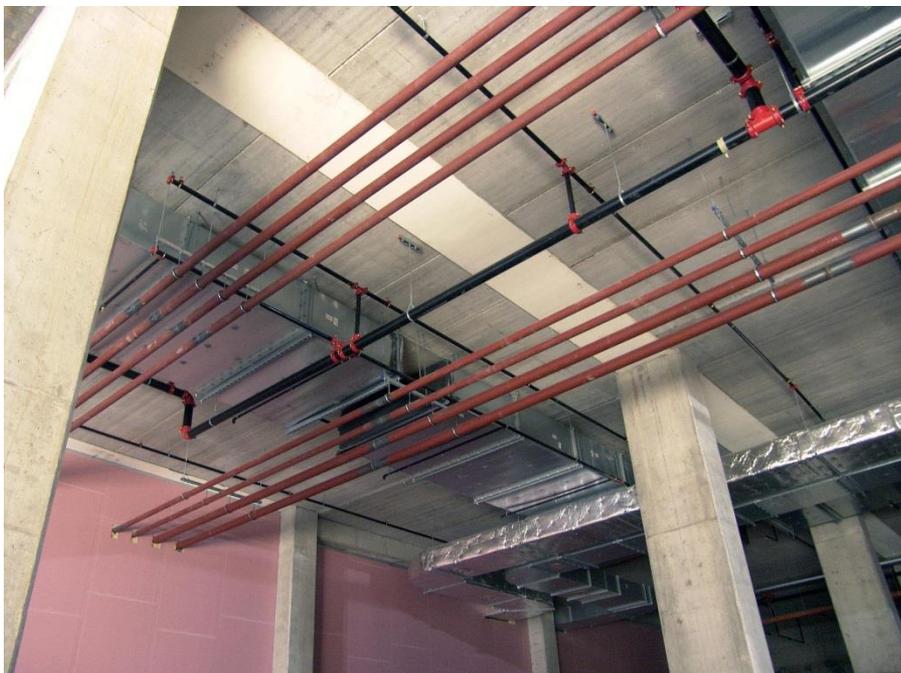










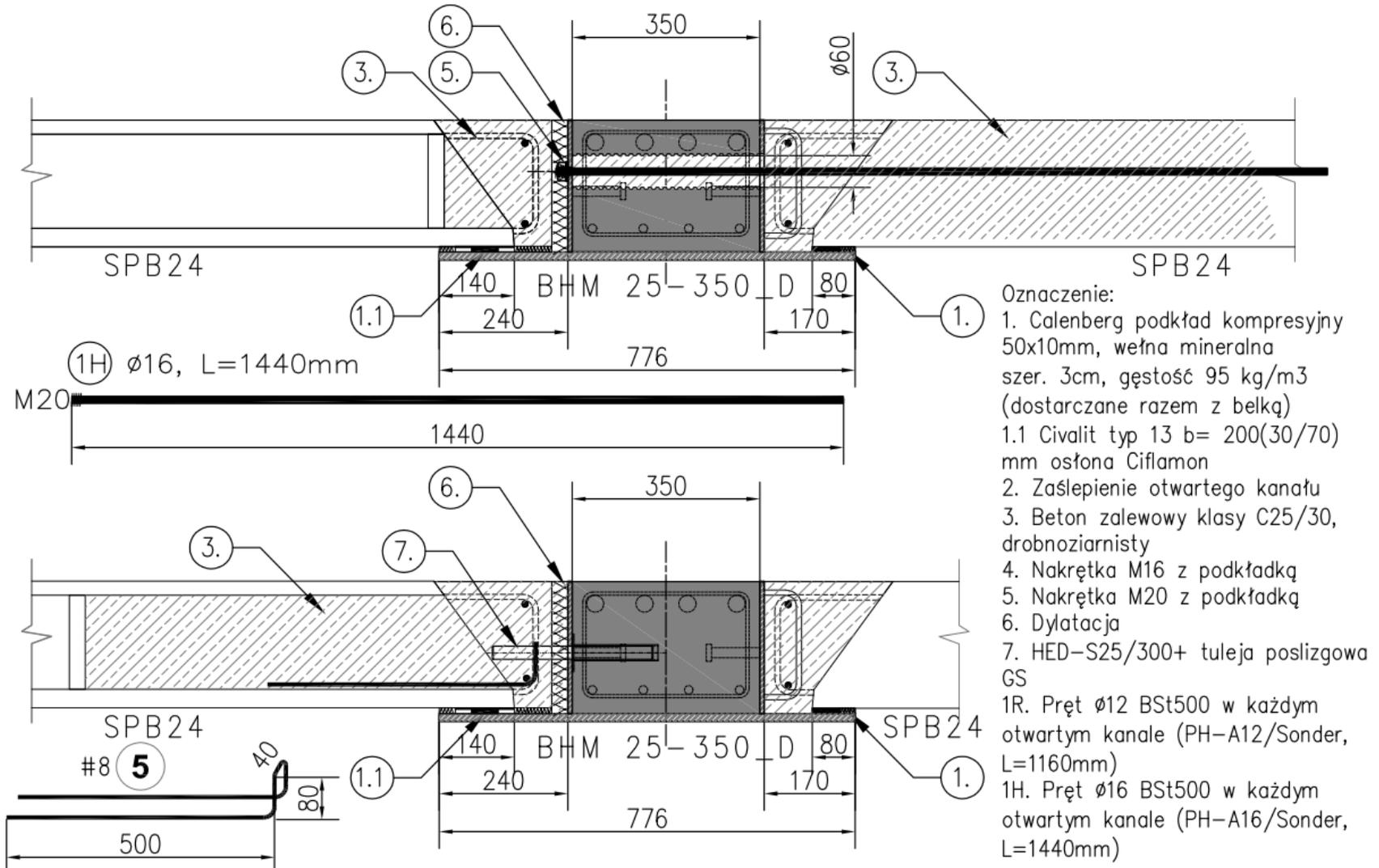


# BH- Centrul comercial JURAND



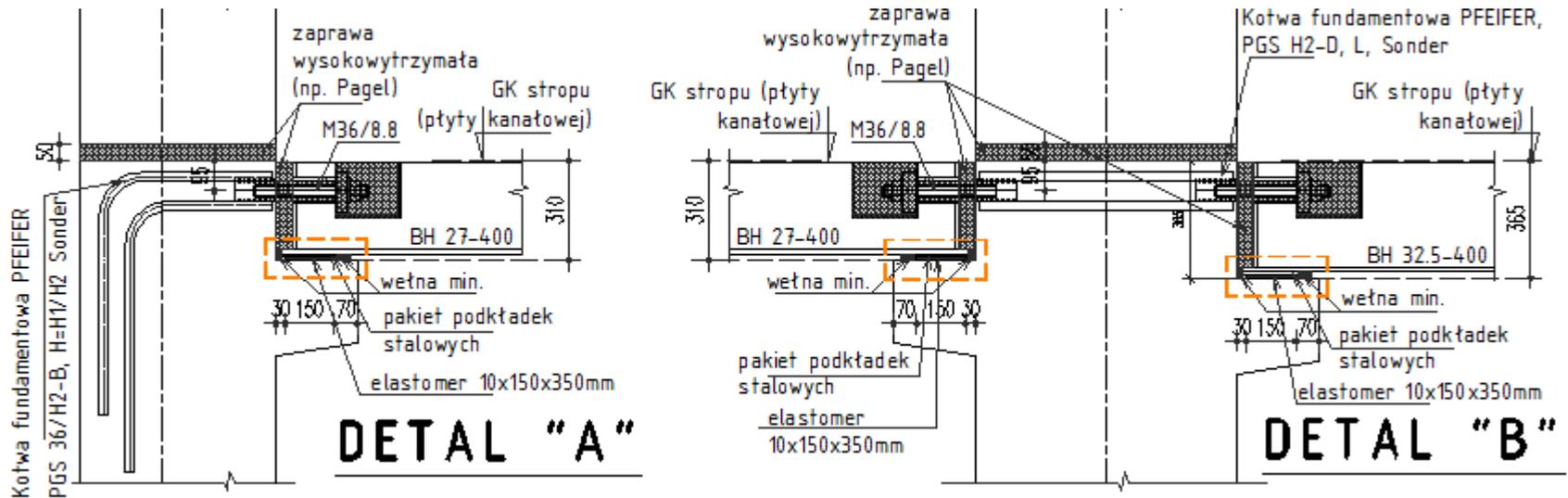
# Grinzi BH- soluții neobișnuite- JURAND







# BH- Clădire de birouri WAVE



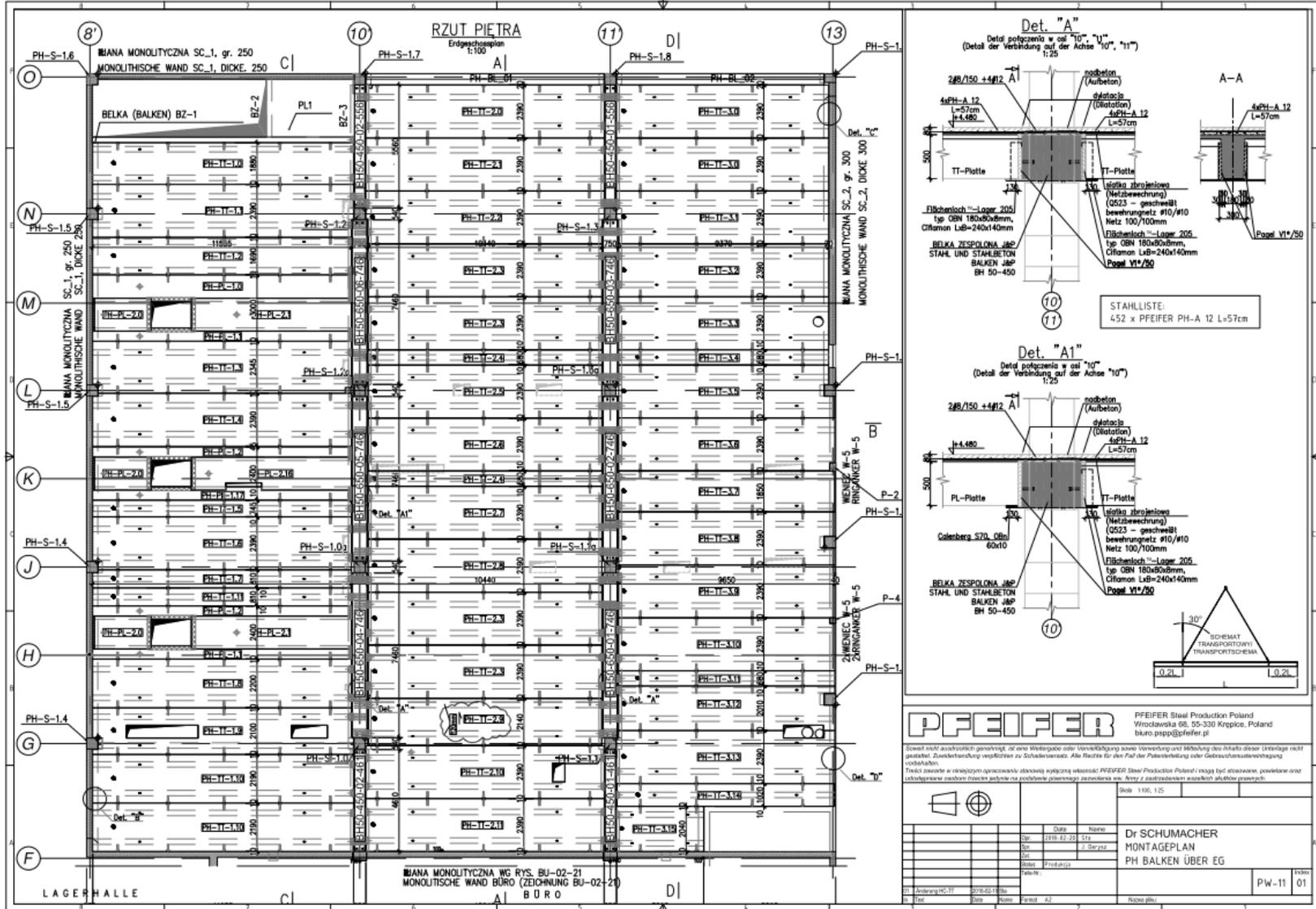
7. WAVE, Gdańsk, Clădire de birouri, (Hybridbeam 825,5 m / 153 St.)



7. WAVE, Gdańsk, Clădire de birouri, (Hybridbeam 825,5 m / 153 St.)

**PFEIFER**





**PFEIFER** PFEIFER Steel Production Poland  
 Wrocławska 66, 55-330 Krapkowice, Poland  
 biuro.ppp@pfeifer.pl

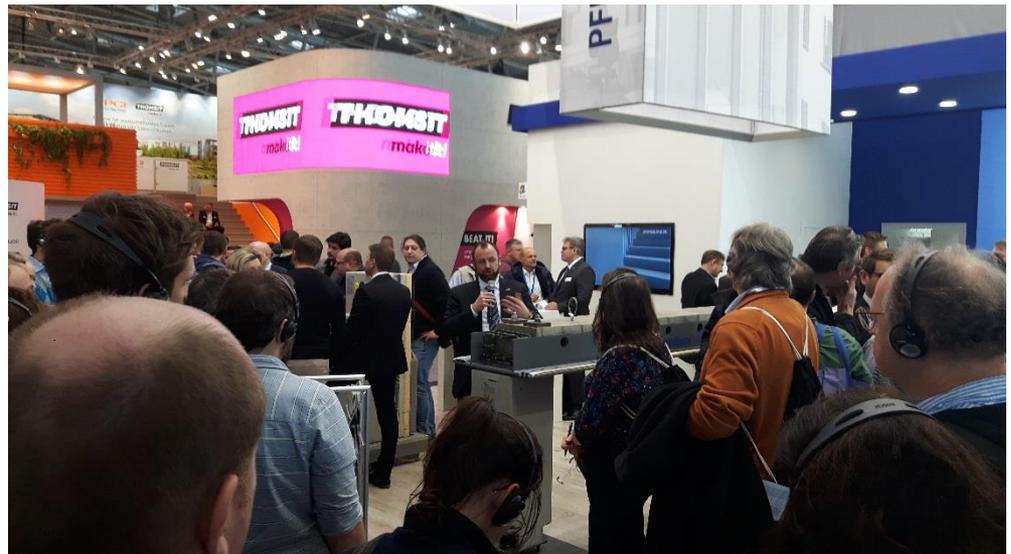
Schemat nie jest uważany za projekt, ani jego wykorzystanie bez zgody PFEIFER Steel Production Poland nie jest dozwolone. Powinno być używane wyłącznie do celów informacyjnych. Nie należy kopiować, rozpowszechniać ani wykorzystywać żadnych danych na podstawie niniejszego schematu bez zgody PFEIFER Steel Production Poland.

Sheet 1/10, 1/25		Scale 1:100, 1:25	
Date: 2018.02.23		Dr SCHUMACHER	
Author: P. Szczęsny		MONTAGEPLAN	
Status: Projekt		PH BALKEN ÜBER EG	
Project: 278.62.19.00		PW-11 01	
Date: 2018.02.23		Project: 62	

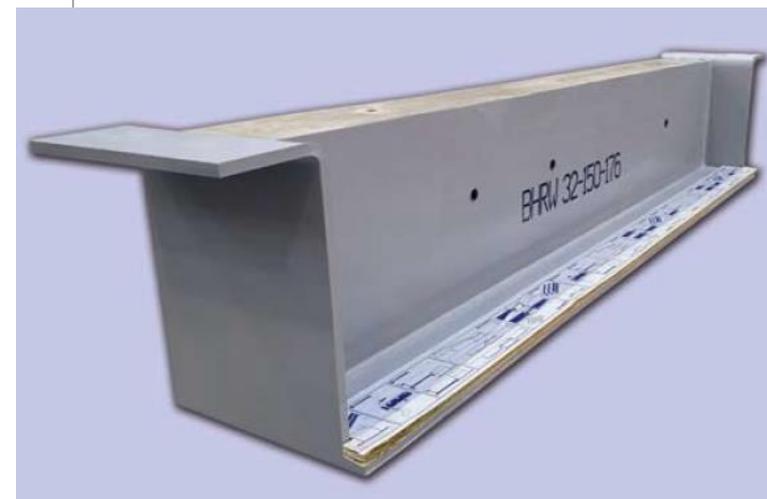
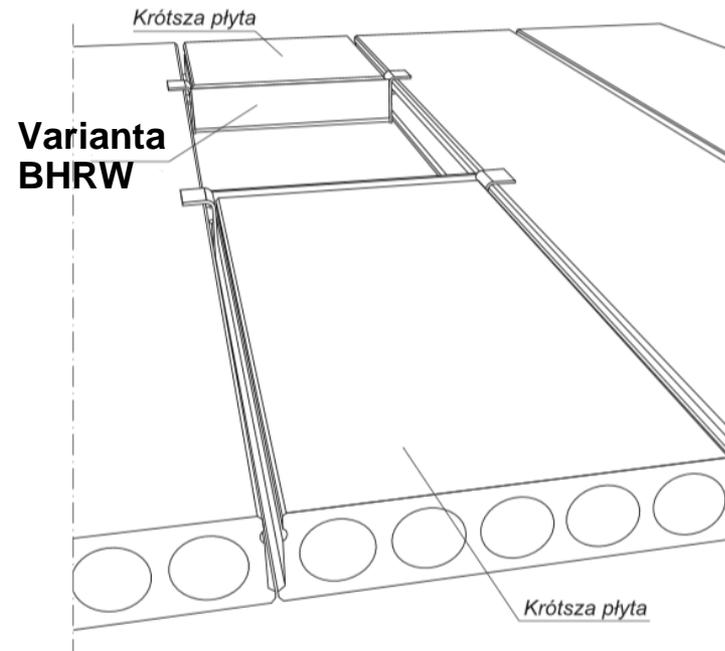
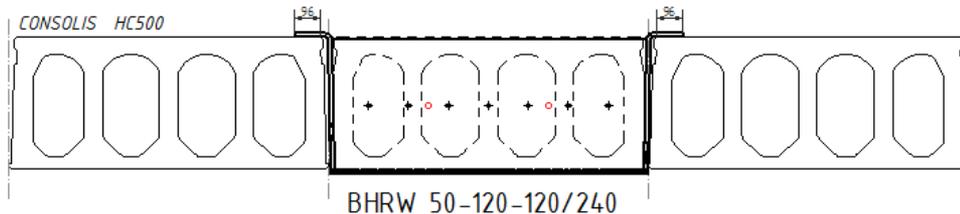
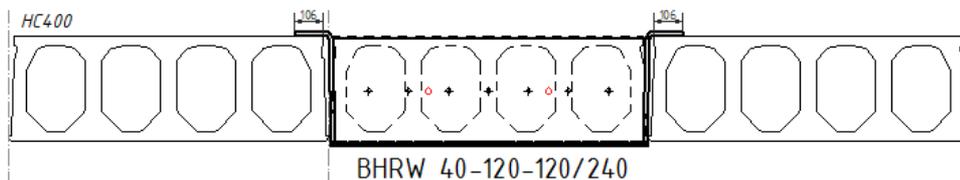
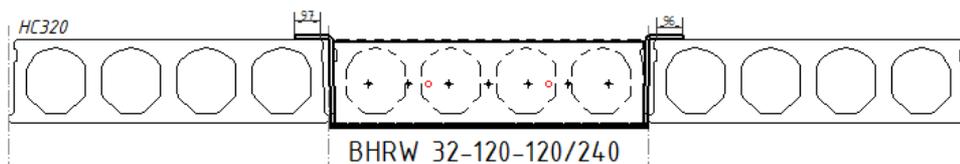
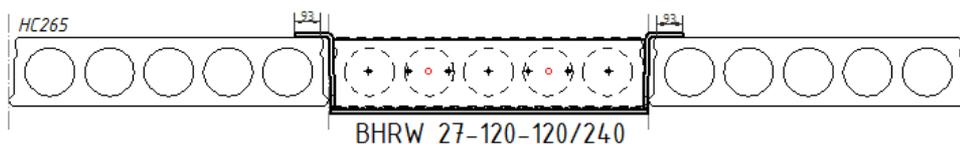
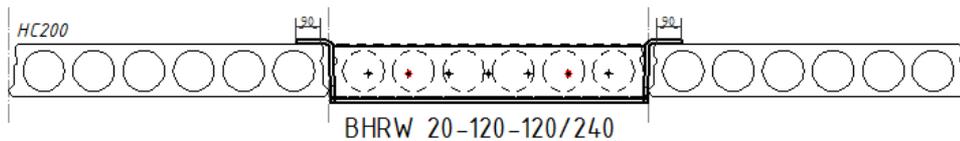
# BH- Încercări/teste



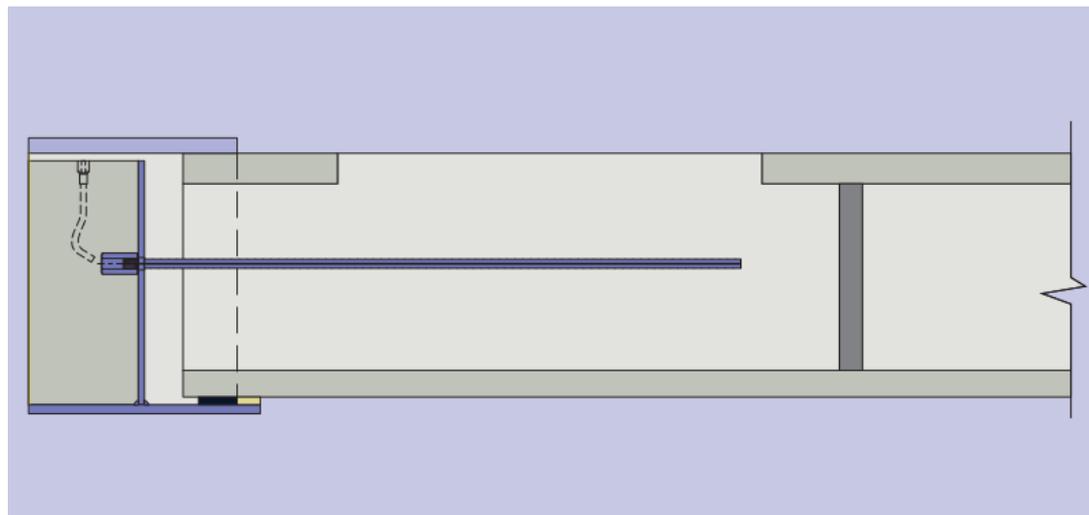
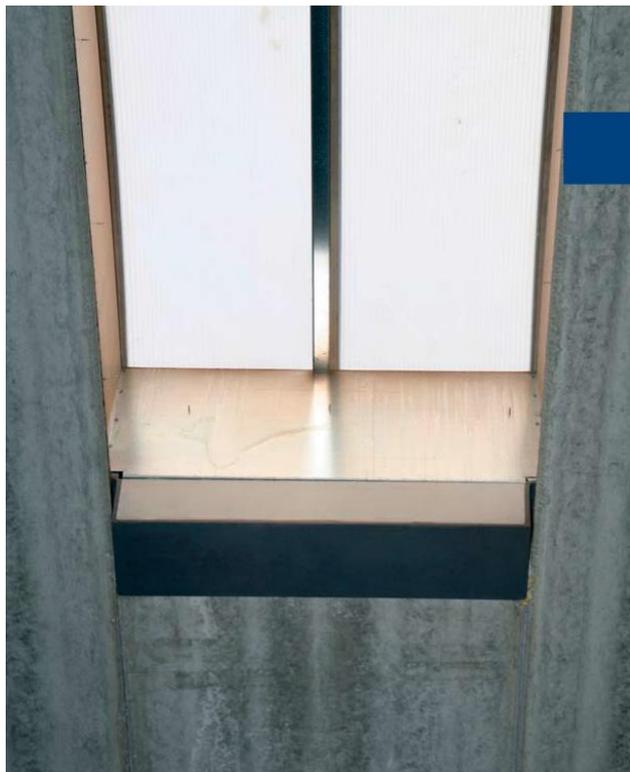
# BH- prezentarea grinzii în cadrul BAU 2019 Munchen



# Varianta grindă L=1,2m ; 2,4m



# Variantă grindă





**Muțumesc!**

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