

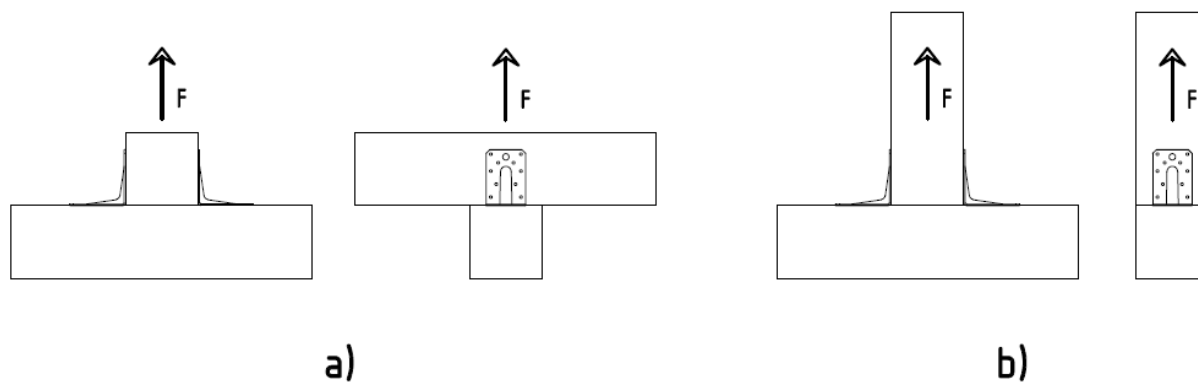
Úhelník BV/Ú 05-01

Obsah

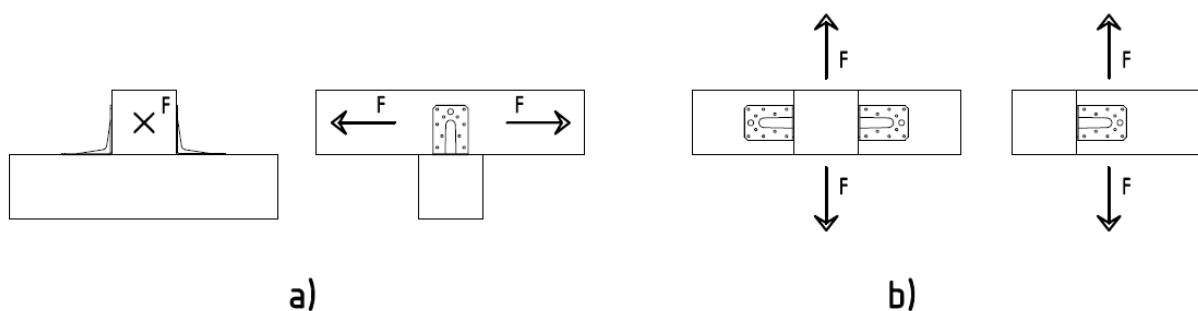
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Úvod

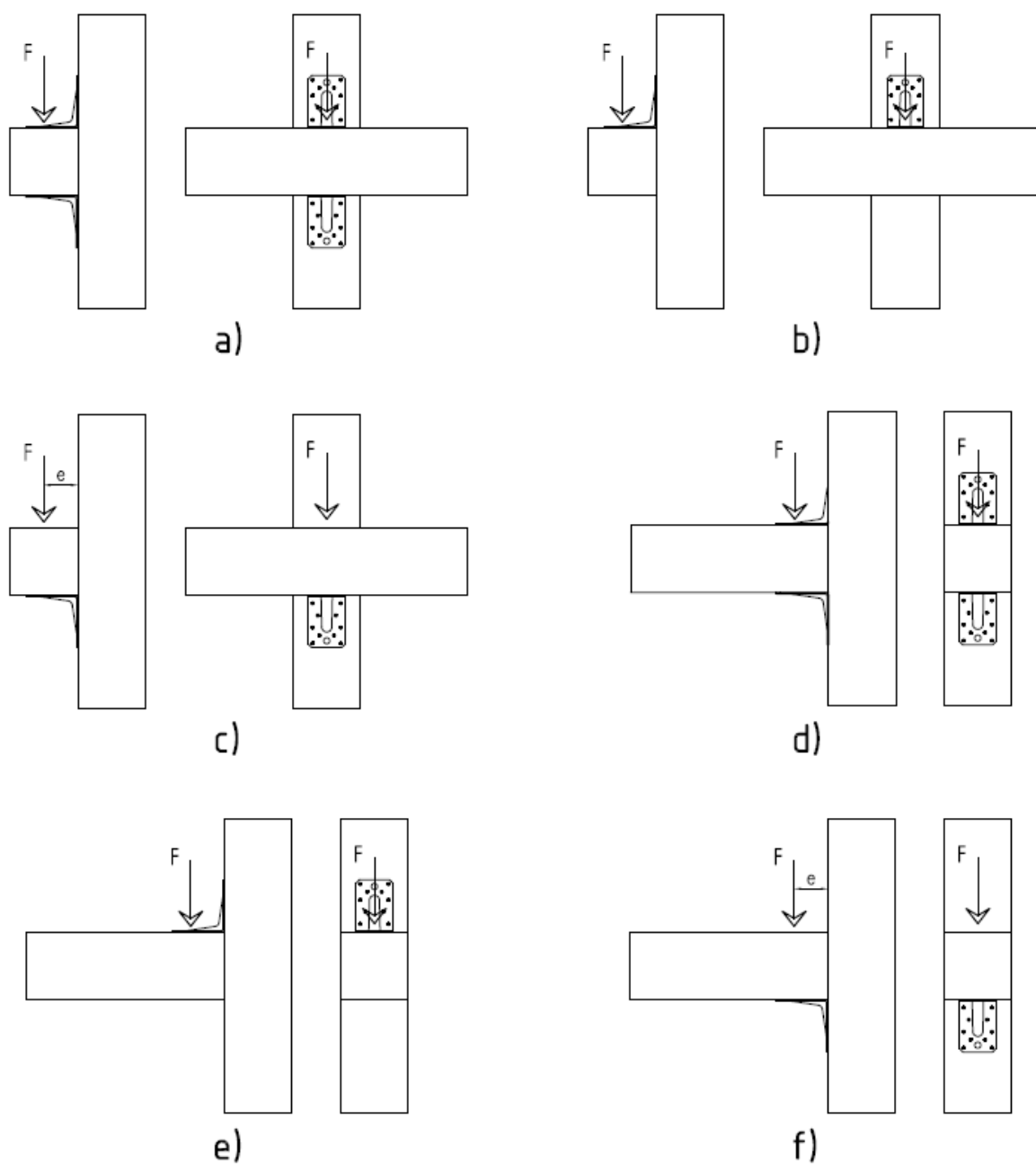
Katalog shrnuje únosnost vybraných spojovacích úhelníků 05-01 firmy Bova Březnice spol. s r.o. pro namáhání ve směru 1 (obr. 1), směru 2 (obr. 2) a směru 3 (obr. 3).



Obr. 1: Směr namáhání 1 ve vztahu ke spojovaným prvkům a) beam to beam, b) post to beam



Obr. 2: Směr namáhání 2 ve vztahu ke spojovaným prvkům a) beam to beam, b) trimmer connection



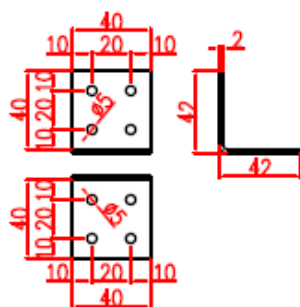
Obr. 3: Směr namáhání 3 ve vztahu ke spojovaným prvkům a) beam to beam – dva úhelníky; b) beam to beam – horní úhelník; c) beam to beam – dolní úhelník; d) beam to column – dva úhelníky; e) beam to column – horní úhelník; f) beam to column – dolní úhelník

Podmínky a poznámky k použití tabulky:

- jedná se o charakteristické hodnoty únosnosti spoje
- použité hřebíky - ANKER $\varnothing$ 4,0 mm a délky 60 mm
- spojované profily jsou z rostlého dřeva třídy C24
- pro kombinaci zatížení F_1 , F_2 a F_3 platí interakční vztah: $\left(\frac{F_{1,d}}{R_{1,d}}\right)^2 + \left(\frac{F_{2/3,d}}{R_{2/3,d}}\right)^2 \leq 1$

Pozn.: Při použití úhelníku ve dvou směrech (směr 1, směr 2) současně se musí brát zřetel na dodržení roztečí při prohřebíkování.

Úhelník 05-01 40x40x40



směr 1 beam to beam		směr 2 trimmer	
min	max		
vertikální		max	
horizontální			

směr 3 - horní úhelník			
beam to beam		beam to column	
min	max	min	max
vertikální			
horizontální			

směr 3 - dolní úhelník			
beam to beam		beam to column	
min	max	min	max
horizontální			
vertikální			

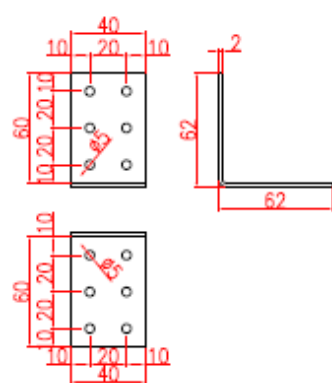
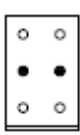
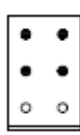
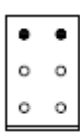
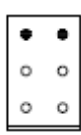
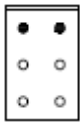
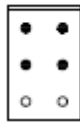
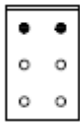
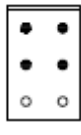
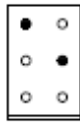
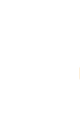
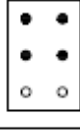
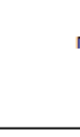
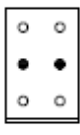
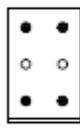
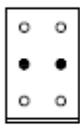
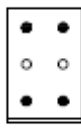
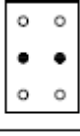
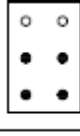
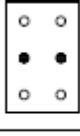
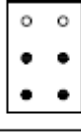
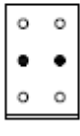
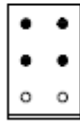
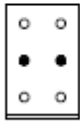
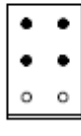
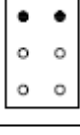
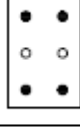
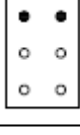
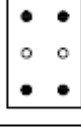
Charakteristické hodnoty únosnosti [kN]:

Směr 1			
Beam to beam connection			
2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování	
max	min	max	min
3,36	3,32	1,68	1,66

Směr 2			
Trimmer connection			
2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování	
max	min	max	Min
1,77	-	0,89	-

Směr 3									
Beam to beam connection a Beam to column connection									
2 úhelníky		1 úhelník (horní)		1 úhelník (dolní)					
prohřebíkování		prohřebíkování		prohřebíkování					
max	min	max	min	max	min	e [mm]	max	min	e [mm]
1,82	-	0,47	-	0,26	-	max 30	1,35	-	0

Úhelník 05-01 40x60x60

		směr 1			
		beam to beam		post to beam	
		min	max	min	max
vertikální					
horizontální					
		směr 2			
		beam to beam		trimmer	
		min	max		
vertikální			min		
horizontální			max		
		směr 3 - horní úhelník			
		beam to beam		beam to column	
		min	max	min	max
vertikální					
horizontální					
		směr 3 - dolní úhelník			
		beam to beam		beam to column	
		min	max	min	max
horizontální					
vertikální					

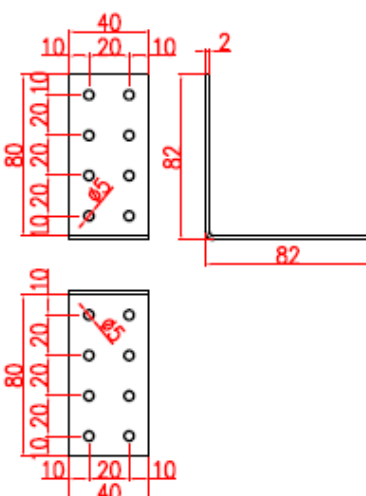
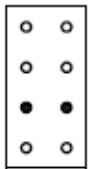
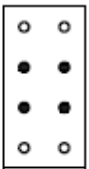
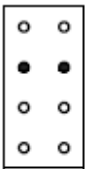
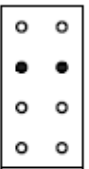
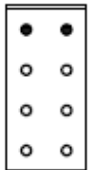
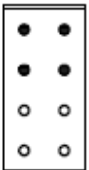
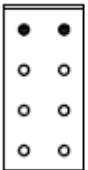
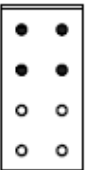
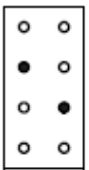
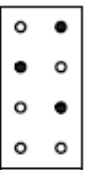
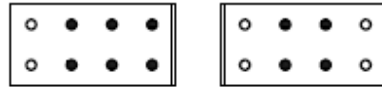
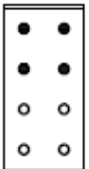
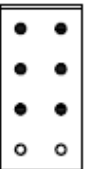
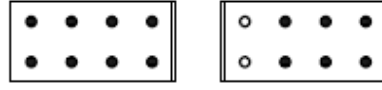
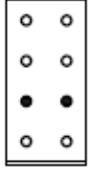
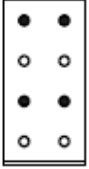
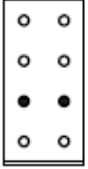
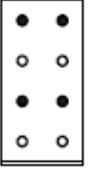
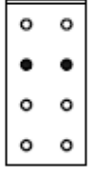
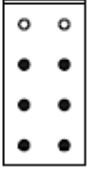
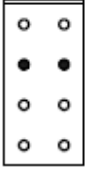
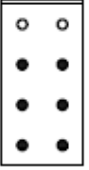
Charakteristické hodnoty únosnosti [kN]:

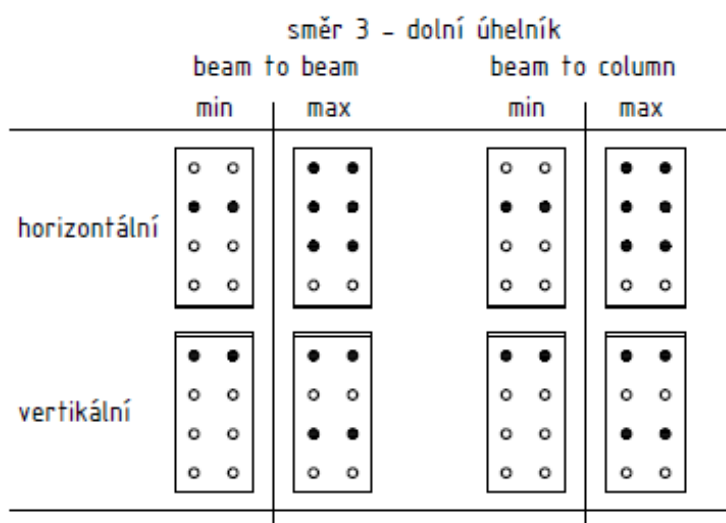
Směr 1							
Beam to beam connection				Post to beam connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
3,68	3,54	1,84	1,77	3,52	3,42	1,76	1,71

Směr 2							
Beam to beam connection				Trimmer connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
1,65	-	0,83	-	2,34	1,80	1,17	0,90

Směr 3									
Beam to beam connection a Beam to column connection									
2 úhelníky		1 úhelník (horní)		1 úhelník (dolní)					
prohřebíkování		prohřebíkování		prohřebíkování					
max	min	max	min	max	min	e [mm]	max	min	e [mm]
2,37	2,11	0,75	0,73	0,17	0,16	max 40	1,62	1,38	0

Úhelník 05-01 40x80x80

		směr 1			
		beam to beam		post to beam	
		min	max	min	max
vertikální					
horizontální					
		směr 2			
		beam to beam		trimmer	
		min	max		
vertikální				min	
horizontální				max	
		směr 3 - horní úhelník			
		beam to beam		beam to column	
		min	max	min	max
vertikální					
horizontální					



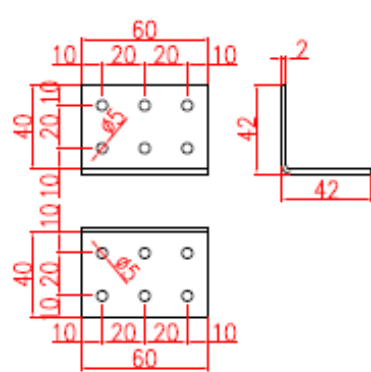
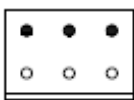
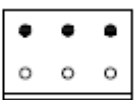
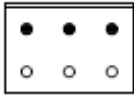
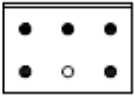
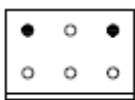
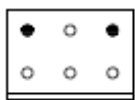
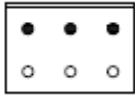
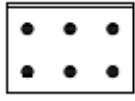
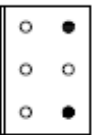
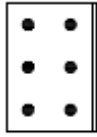
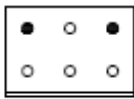
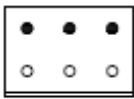
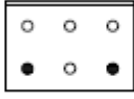
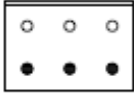
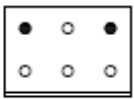
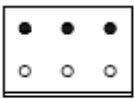
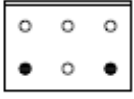
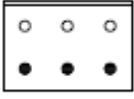
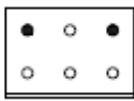
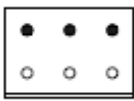
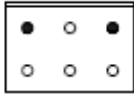
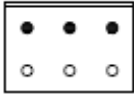
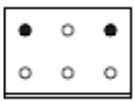
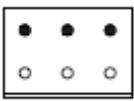
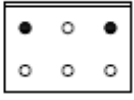
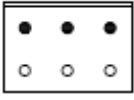
Charakteristické hodnoty únosnosti [kN]:

Směr 1							
Beam to beam connection				Post to beam connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
3,74	3,58	1,87	1,79	3,58	3,48	1,79	1,74

Směr 2							
Beam to beam connection				Trimmer connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
1,97	1,65	0,98	0,83	2,61	2,34	1,31	1,17

Směr 3									
Beam to beam connection a Beam to column connection									
2 úhelníky		1 úhelník (horní)		1 úhelník (dolní)					
prohřebíkování		prohřebíkování		prohřebíkování					
max	min	max	min	max	min	e [mm]	max	min	e [mm]
2,58	2,43	0,87	0,84	0,09	0,09	max 50	1,71	1,59	0

Úhelník 05-01 60x40x40

		směr 1	
		beam to beam	
		min	max
vertikální			
horizontální			
		směr 2	
		beam to beam	
		min	max
vertikální			
horizontální			
		trimmer	
		min	max
			
		max	
		směr 3 - horní úhelník	
		beam to beam	
		min	max
vertikální			
horizontální			
		beam to column	
		min	max
			
			
		směr 3 - dolní úhelník	
		beam to beam	
		min	max
horizontální			
vertikální			
		beam to column	
		min	max
			
			

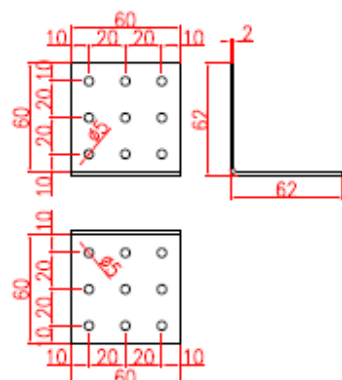
Charakteristické hodnoty únosnosti [kN]:

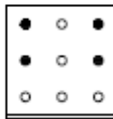
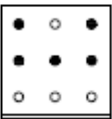
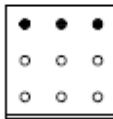
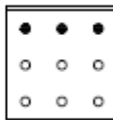
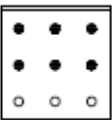
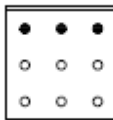
Směr 1			
Beam to beam connection			
2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování	
max	min	max	min
5,04	4,98	2,52	2,49

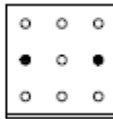
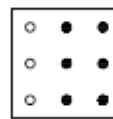
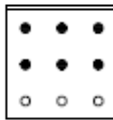
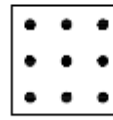
Směr 2							
Beam to beam connection				Trimmer connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
3,90	3,52	1,95	1,76	3,90	3,52	1,95	1,76

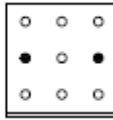
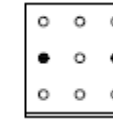
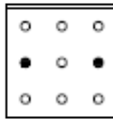
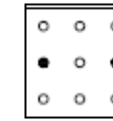
Směr 3									
Beam to beam connection a Beam to column connection									
2 úhelníky		1 úhelník (horní)		1 úhelník (dolní)					
prohřebíkování		prohřebíkování		prohřebíkování					
max	min	max	min	max	min	e [mm]	max	min	e [mm]
2,74	2,62	0,71	0,64	0,40	0,36	max 30	2,03	1,98	0

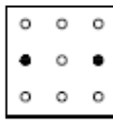
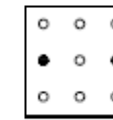
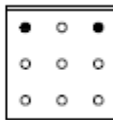
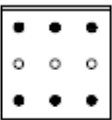
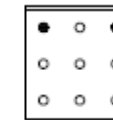
Úhelník 05-01 60x60x60



směr 1			
	beam to beam		post to beam
	min	max	min max
vertikální			
horizontální			

směr 2			
	beam to beam		trimmer
	min	max	min max
vertikální			
horizontální			

směr 3 - horní úhelník			
	beam to beam		beam to column
	min	max	min max
vertikální			
horizontální			

směr 3 - dolní úhelník			
	beam to beam		beam to column
	min	max	min max
horizontální			
vertikální			

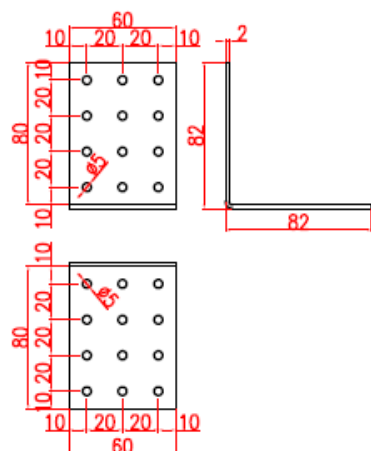
Charakteristické hodnoty únosnosti [kN]:

Směr 1							
Beam to beam connection				Post to beam connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
5,58	5,30	2,79	2,65	5,30	5,16	2,65	2,58

Směr 2							
Beam to beam connection				Trimmer connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
4,50	3,92	2,25	1,96	4,60	3,90	2,30	1,95

Směr 3									
Beam to beam connection a Beam to column connection									
2 úhelníky		1 úhelník (horní)		1 úhelník (dolní)					
prohřebíkování		prohřebíkování		prohřebíkování					
max	min	max	min	max	min	e [mm]	max	min	e [mm]
3,57	2,92	1,13	0,89	0,24	0,22	max 40	2,44	2,03	0

Úhelník 05-01 60x80x80



		směr 1			
		beam to beam		post to beam	
		min	max	min	max
	vertikální				
	horizontální				

		směr 2			
		beam to beam		trimmer	
		min	max		
	vertikální			min	
	horizontální			max	

		směr 3 - horní úhelník			
		beam to beam		beam to column	
		min	max	min	max
	vertikální				
	horizontální				

		směr 3 - dolní úhelník			
		beam to beam		beam to column	
		min	max	min	max
horizontální	•	•	•	•	•
	•	•	•	•	•
vertikální	•	•	•	•	•
	•	•	•	•	•

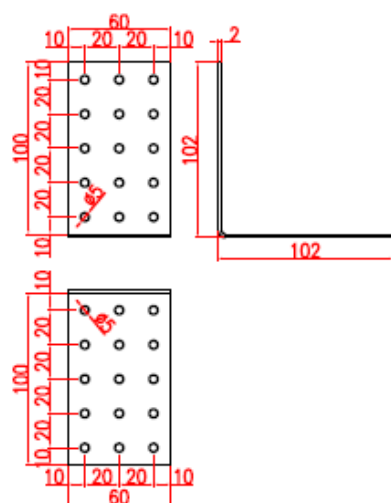
Charakteristické hodnoty únosnosti [kN]:

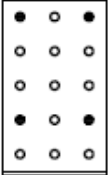
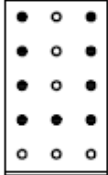
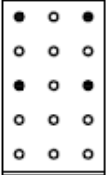
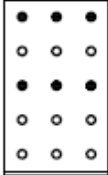
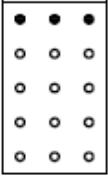
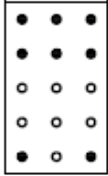
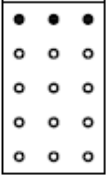
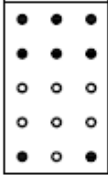
Směr 1							
Beam to beam connection				Post to beam connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
5,64	5,36	2,82	2,68	5,42	5,24	2,71	2,62

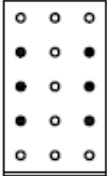
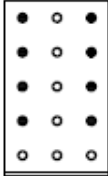
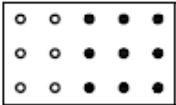
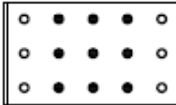
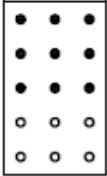
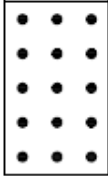
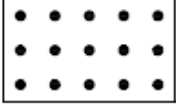
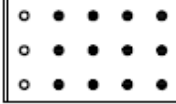
Směr 2							
Beam to beam connection				Trimmer connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
5,32	4,42	2,66	2,21	5,72	4,50	2,86	2,25

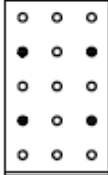
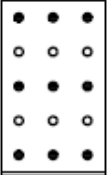
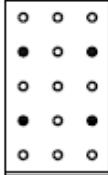
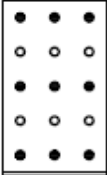
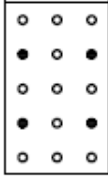
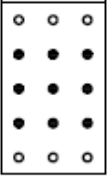
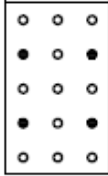
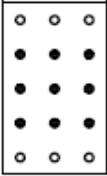
Směr 3									
Beam to beam connection a Beam to column connection									
2 úhelníky		1 úhelník (horní)		1 úhelník (dolní)					
prohřebíkování		prohřebíkování		prohřebíkování					
max	min	max	min	max	min	e [mm]	max	min	e [mm]
3,88	3,62	1,30	1,10	0,14	0,13	max 50	2,58	2,52	0

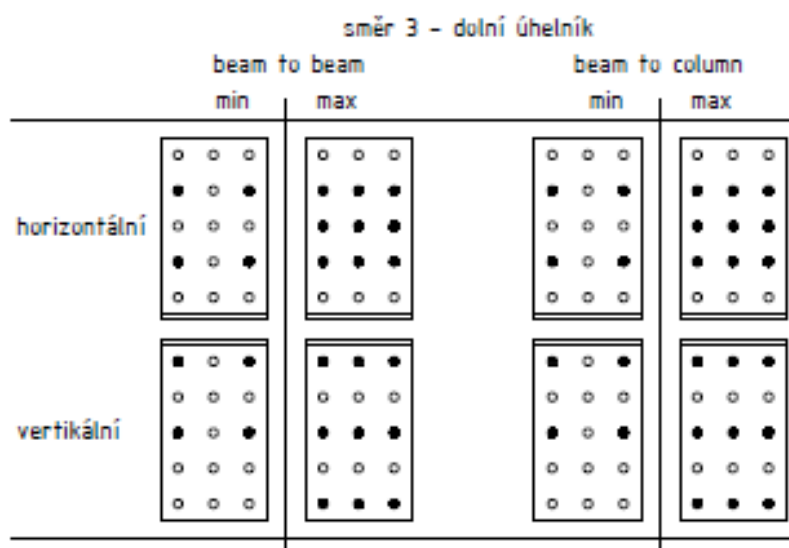
Úhelník 05-01 60x100x100



		směr 1			
		beam to beam		post to beam	
		min	max	min	max
vertikální					
horizontální					

		směr 2			
		beam to beam		trimmer	
		min	max		
vertikální				min	 
horizontální				max	 

		směr 3 - horní úhelník			
		beam to beam		beam to column	
		min	max	min	max
vertikální					
horizontální					



Charakteristické hodnoty únosnosti [kN]:

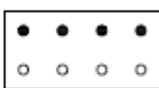
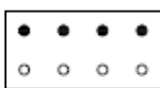
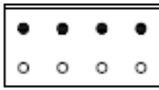
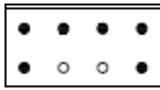
Směr 1							
Beam to beam connection				Post to beam connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
5,64	5,36	2,82	2,68	5,42	5,24	2,71	2,62

Směr 2							
Beam to beam connection				Trimmer connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
5,74	5,24	2,87	2,62	5,80	5,54	2,90	2,77

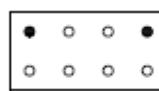
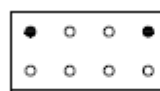
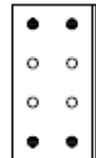
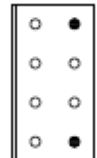
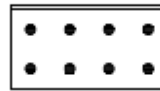
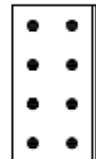
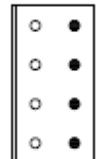
Směr 3									
Beam to beam connection a Beam to column connection									
2 úhelníky		1 úhelník (horní)		1 úhelník (dolní)					
prohřebíkování		prohřebíkování		prohřebíkování					
max	min	max	min	max	min	e [mm]	max	min	e [mm]
3,90	3,64	1,32	1,12	0,09	0,08	max 60	2,58	2,52	0

Úhelník 05-01 80x40x40

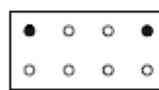
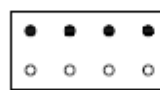
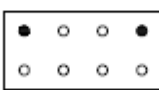
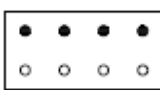
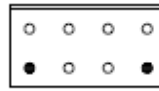
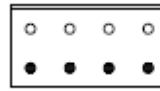
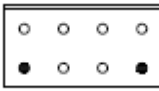
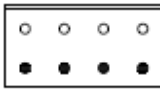
směr 1
beam to beam

	min	max
vertikální		
horizontální		

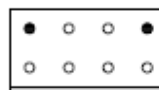
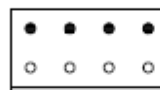
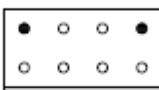
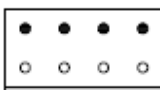
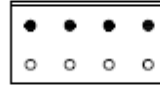
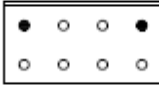
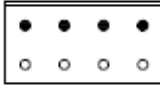
směr 2

	beam to beam		trimmer	
	min	max		
vertikální			min	 
horizontální			max	 

směr 3 - horní úhelník

	beam to beam		beam to column	
	min	max	min	max
vertikální				
horizontální				

směr 3 - dolní úhelník

	beam to beam		beam to column	
	min	max	min	max
horizontální				
vertikální				

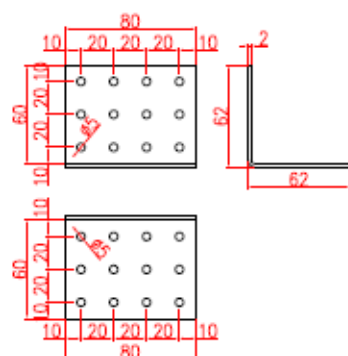
Charakteristické hodnoty únosnosti [kN]:

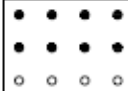
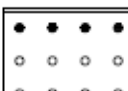
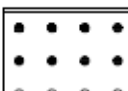
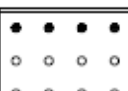
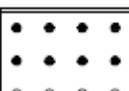
Směr 1			
Beam to beam connection			
2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování	
max	min	max	min
6,70	6,60	3,35	3,30

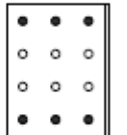
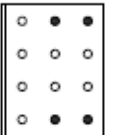
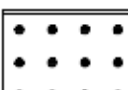
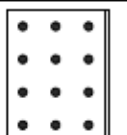
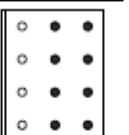
Směr 2							
Beam to beam connection				Trimmer connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
4,60	4,16	2,30	2,08	6,44	4,16	3,22	2,08

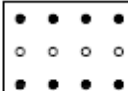
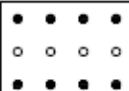
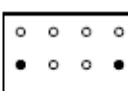
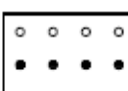
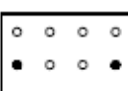
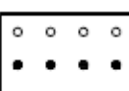
Směr 3									
Beam to beam connection a Beam to column connection									
2 úhelníky		1 úhelník (horní)		1 úhelník (dolní)					
prohřebíkování		prohřebíkování		prohřebíkování					
max	min	max	min	max	min	e [mm]	max	min	e [mm]
3,66	3,33	0,95	0,74	0,53	0,43	max 30	2,71	2,59	0

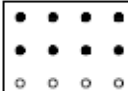
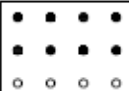
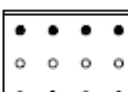
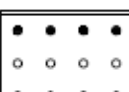
Úhelník 05-01 80x60x60



		směr 1			
		beam to beam		post to beam	
		min	max	min	max
vertikální					
horizontální					

		směr 2			
		beam to beam		trimmer	
		min	max		
vertikální				min	 
horizontální				max	 

		směr 3 - horní úhelník			
		beam to beam		beam to column	
		min	max	min	max
vertikální					
horizontální					

		směr 3 - dolní úhelník			
		beam to beam		beam to column	
		min	max	min	max
horizontální					
vertikální					

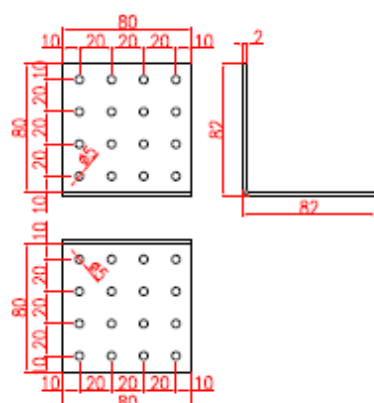
Charakteristické hodnoty únosnosti [kN]:

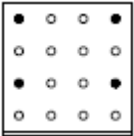
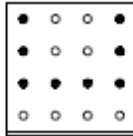
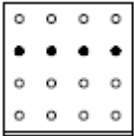
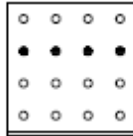
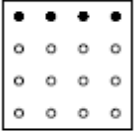
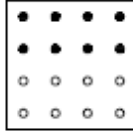
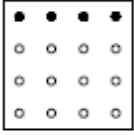
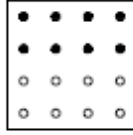
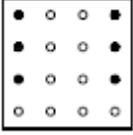
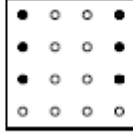
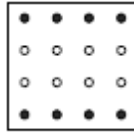
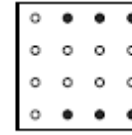
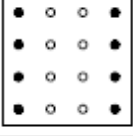
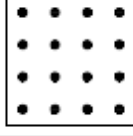
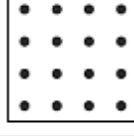
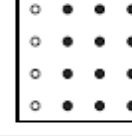
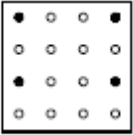
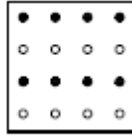
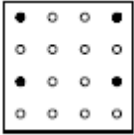
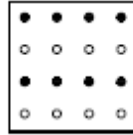
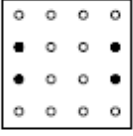
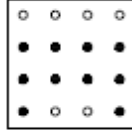
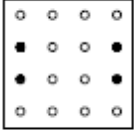
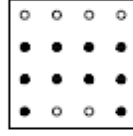
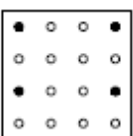
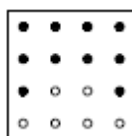
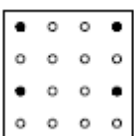
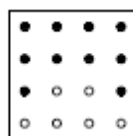
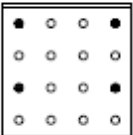
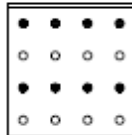
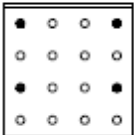
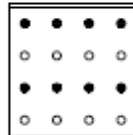
Směr 1							
Beam to beam connection				Post to beam connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
7,40	7,00	3,70	3,50	7,02	6,82	3,51	3,41

Směr 2							
Beam to beam connection				Trimmer connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
6,80	6,12	3,40	3,06	7,56	6,12	3,78	3,06

Směr 3									
Beam to beam connection a Beam to column connection									
2 úhelníky		1 úhelník (horní)		1 úhelník (dolní)					
prohřebíkování		prohřebíkování		prohřebíkování					
max	min	max	min	max	min	e [mm]	max	min	e [mm]
4,76	3,63	1,50	0,96	0,33	0,28	max 40	3,26	2,67	0

Úhelník 05-01 80x80x80



		směr 1			
		beam to beam		post to beam	
		min	max	min	max
vertikální					
horizontální					
		směr 2			
		beam to beam		trimmer	
		min	max	min	max
vertikální					
horizontální					
		směr 3 - horní úhelník			
		beam to beam		beam to column	
		min	max	min	max
vertikální					
horizontální					
		směr 3 - dolní úhelník			
		beam to beam		beam to column	
		min	max	min	max
horizontální					
vertikální					

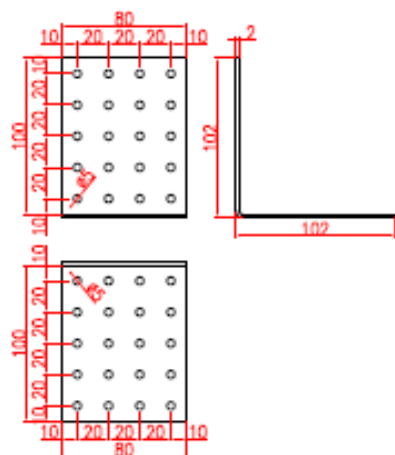
Charakteristické hodnoty únosnosti [kN]:

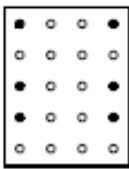
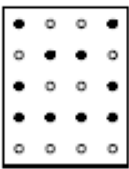
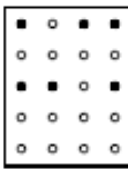
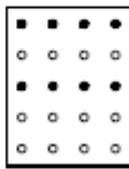
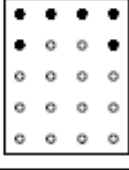
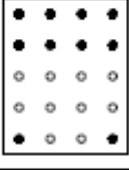
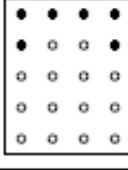
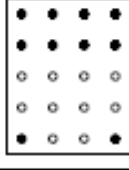
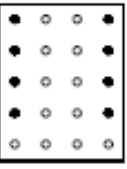
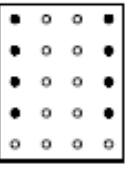
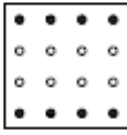
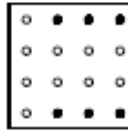
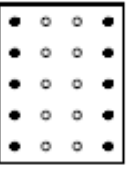
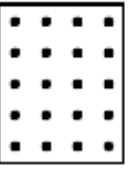
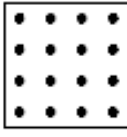
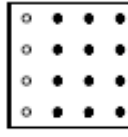
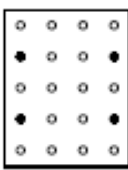
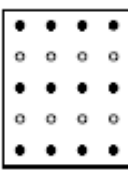
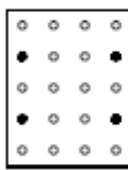
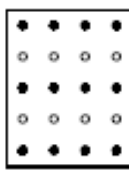
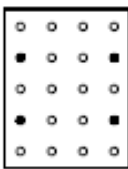
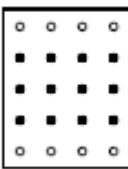
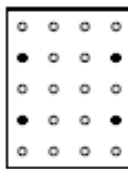
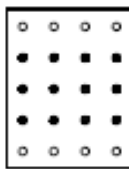
Směr 1							
Beam to beam connection				Post to beam connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
7,48	7,08	3,74	3,54	7,16	6,96	3,58	3,48

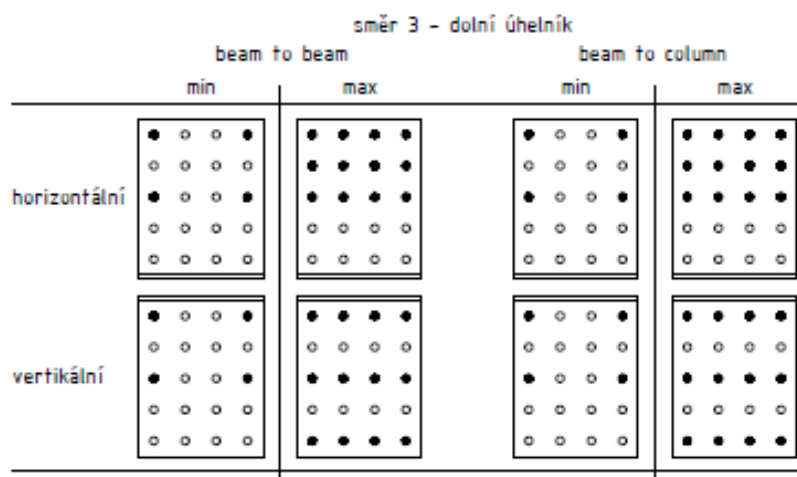
Směr 2							
Beam to beam connection				Trimmer connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
7,64	6,88	3,82	3,44	8,84	6,88	4,42	3,44

Směr 3									
Beam to beam connection a Beam to column connection									
2 úhelníky		1 úhelník (horní)		1 úhelník (dolní)					
prohřebíkování		prohřebíkování		prohřebíkování					
max	min	max	min	max	min	e [mm]	max	min	e [mm]
5,18	4,56	1,74	1,24	0,18	0,17	max 50	3,44	3,32	0

Úhelník 05-01 80x100x100



		směr 1			
		beam to beam		post to beam	
		min	max	min	max
vertikální					
horizontální					
		směr 2			
		beam to beam		trimmer	
		min	max	min	max
vertikální					
horizontální					
		směr 3 - horní úhelník			
		beam to beam		beam to column	
		min	max	min	max
vertikální					
horizontální					

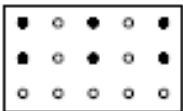
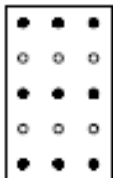
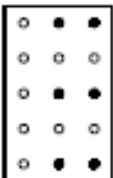
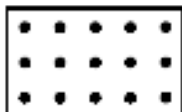
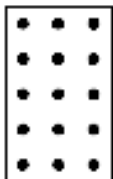
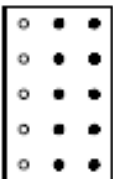


Charakteristické hodnoty únosnosti [kN]:

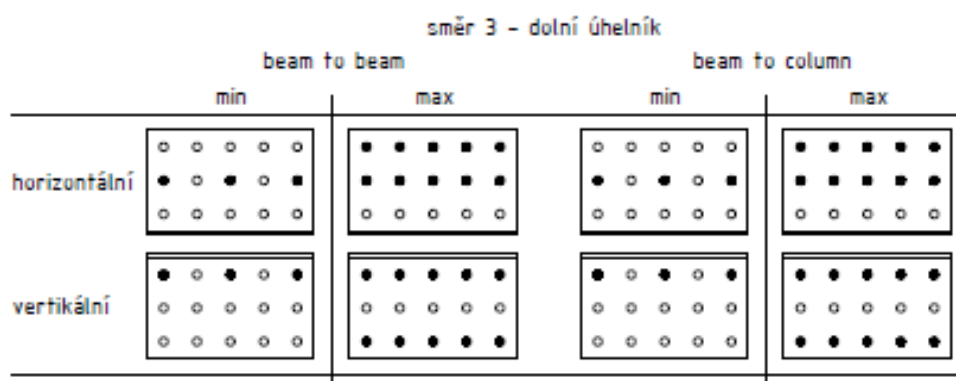
Směr 1							
Beam to beam connection				Post to beam connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
7,50	7,30	3,75	3,65	7,18	7,08	3,59	3,54

Směr 2							
Beam to beam connection				Trimmer connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
8,72	7,84	4,36	3,92	10,18	7,84	5,09	3,92

Směr 3									
Beam to beam connection a Beam to column connection									
2 úhelníky		1 úhelník (horní)		1 úhelník (dolní)					
prohřebíkování		prohřebíkování		prohřebíkování					
max	min	max	min	max	min	e [mm]	max	min	e [mm]
5,21	4,59	1,76	1,25	0,11	0,11	max 60	3,45	3,34	0

		směr 2			
		beam to beam		trimmer	
		min	max		
vertikální			min		
					
horizontální			max		

		směr 3 - horní úhelník			
		beam to beam		beam to column	
		min	max	min	max
vertikální					
horizontální					



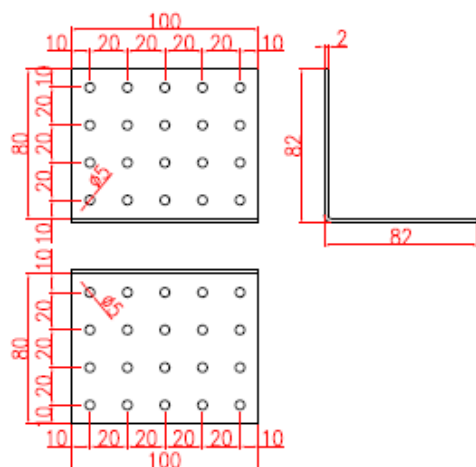
Charakteristické hodnoty únosnosti [kN]:

Směr 1							
Beam to beam connection				Post to beam connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
9,26	8,86	4,63	4,43	8,84	8,60	4,42	4,30

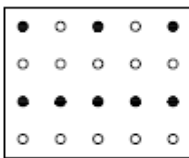
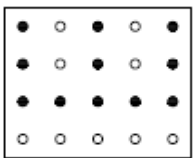
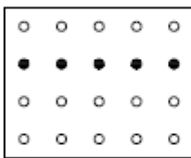
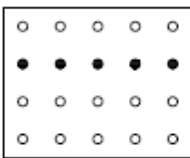
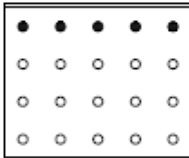
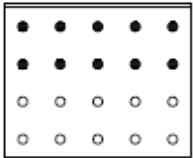
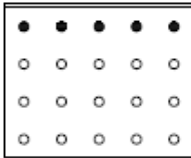
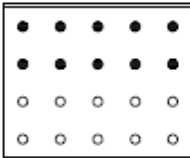
Směr 2							
Beam to beam connection				Trimmer connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
9,72	8,80	4,86	4,40	11,32	8,80	5,66	4,40

Směr 3									
Beam to beam connection a Beam to column connection									
2 úhelníky		1 úhelník (horní)		1 úhelník (dolní)					
prohřebíkování		prohřebíkování		prohřebíkování					
max	min	max	min	max	min	e [mm]	max	min	e [mm]
5,95	4,77	1,88	1,39	0,41	0,37	max 40	4,07	3,38	0

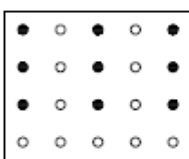
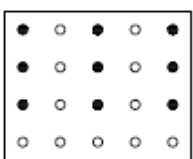
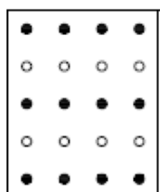
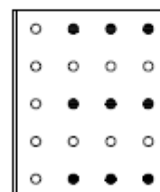
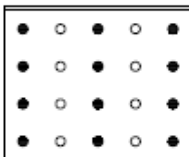
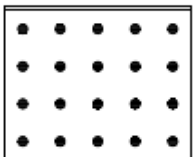
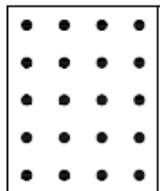
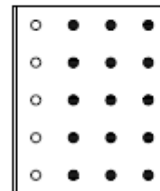
Úhelník 05-01 100x80x80



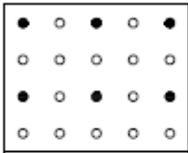
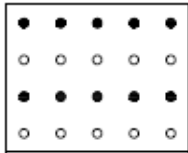
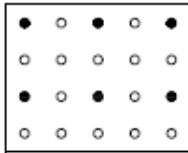
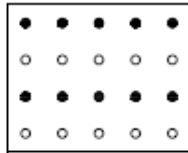
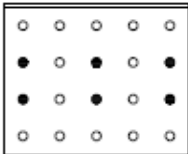
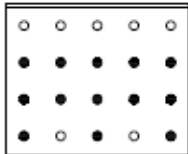
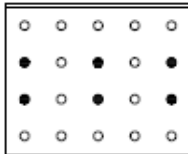
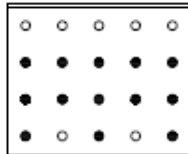
směr 1

beam to beam		post to beam		
min	max	min	max	
vertikální				
horizontální				

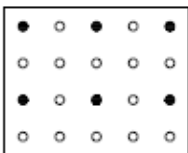
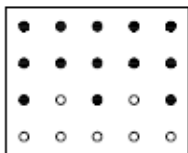
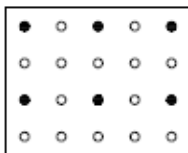
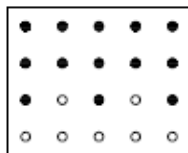
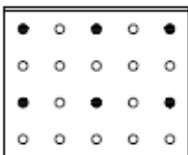
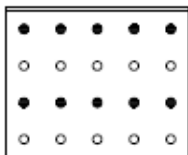
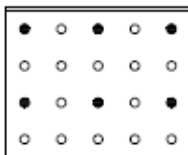
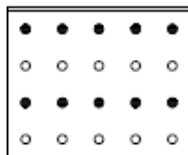
směr 2

beam to beam		trimmer			
min	max				
vertikální			min		
horizontální			max		

směr 3 – horní úhelník

	beam to beam		beam to column	
	min	max	min	max
vertikální				
horizontální				

směr 3 – dolní úhelník

	beam to beam		beam to column	
	min	max	min	max
horizontální				
vertikální				

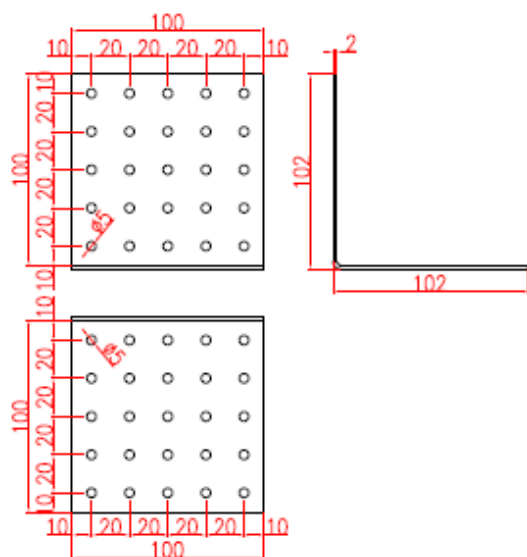
Charakteristické hodnoty únosnosti [kN]:

Směr 1							
Beam to beam connection				Post to beam connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
9,40	9,00	4,70	4,50	9,00	8,74	4,50	4,37

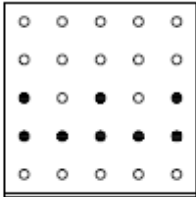
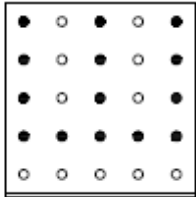
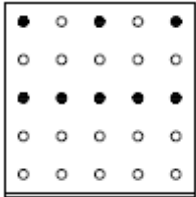
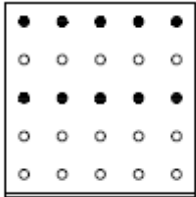
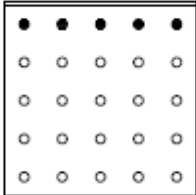
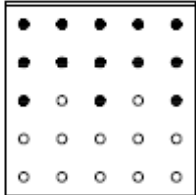
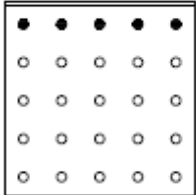
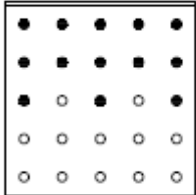
Směr 2							
Beam to beam connection				Trimmer connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
10,84	9,84	5,42	4,92	12,92	9,84	6,46	4,92

Směr 3									
Beam to beam connection a Beam to column connection									
2 úhelníky		1 úhelník (horní)		1 úhelník (dolní)					
prohřebíkování		prohřebíkování		prohřebíkování					
max	min	max	min	max	min	e [mm]	max	min	e [mm]
6,48	5,96	2,18	1,76	0,23	0,22	max 50	4,30	4,20	0

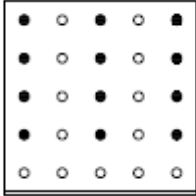
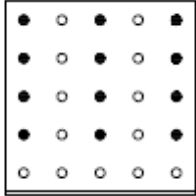
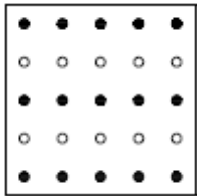
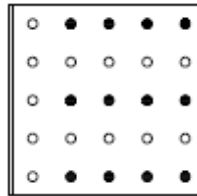
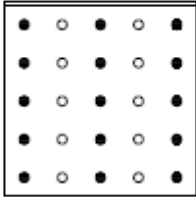
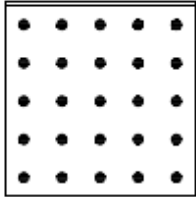
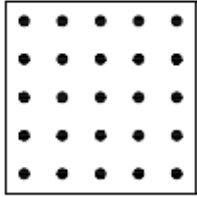
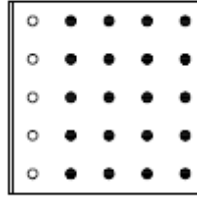
Úhelník 05-01 100x100x100

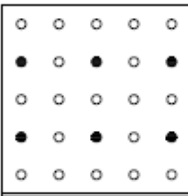
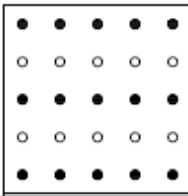
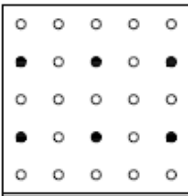
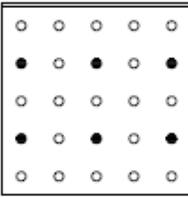
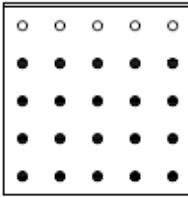
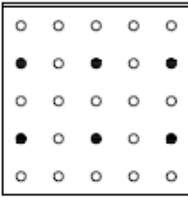
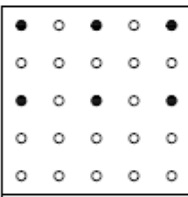
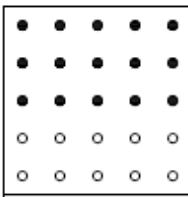
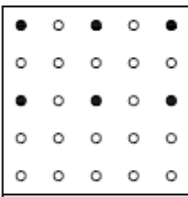
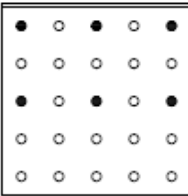
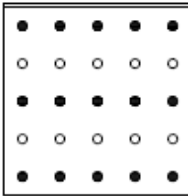
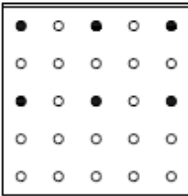


směr 1

	beam to beam		post to beam	
	min	max	min	max
vertikální				
horizontální				

směr 2

	beam to beam		trimmer	
	min	max	min	max
vertikální				
horizontální				

směr 3 – horní úhelník			
beam to beam		beam to column	
	min	max	
vertikální			
horizontální			
směr 3 – dolní úhelník			
beam to beam		beam to column	
	min	max	
horizontální			
vertikální			

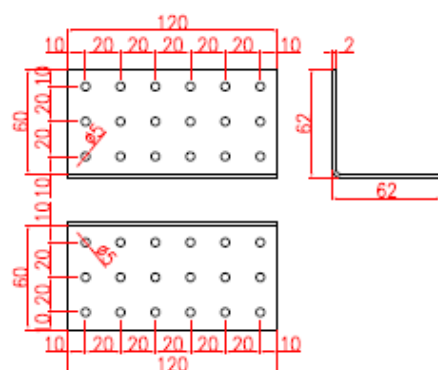
Charakteristické hodnoty únosnosti [kN]:

Směr 1							
Beam to beam connection				Post to beam connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
9,44	9,02	4,72	4,51	9,04	8,78	4,52	4,39

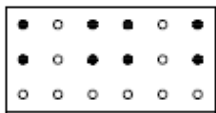
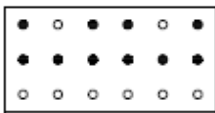
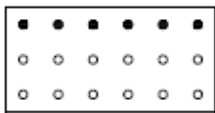
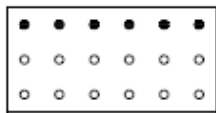
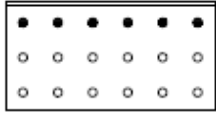
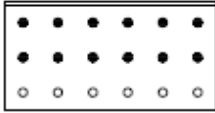
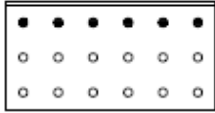
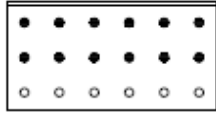
Směr 2							
Beam to beam connection				Trimmer connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
12,12	11,10	6,06	5,55	14,82	11,10	7,41	5,55

Směr 3									
Beam to beam connection a Beam to column connection									
2 úhelníky		1 úhelník (horní)		1 úhelník (dolní)					
prohřebíkování		prohřebíkování		prohřebíkování					
max	min	max	min	max	min	e [mm]	max	min	e [mm]
6,54	5,98	2,21	1,77	0,14	0,14	max 60	4,33	4,21	0

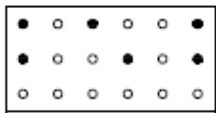
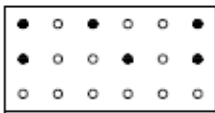
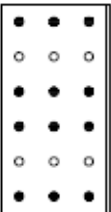
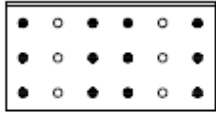
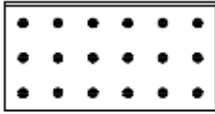
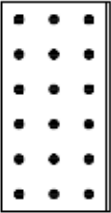
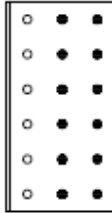
Úhelník 05-01 120x60x60

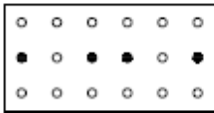
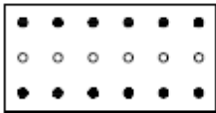
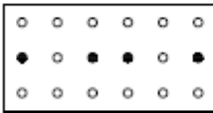
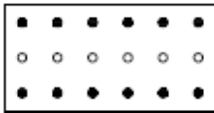
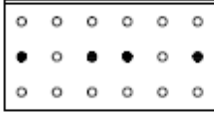
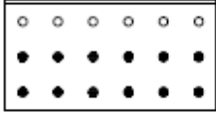
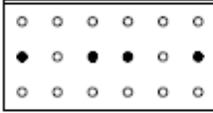
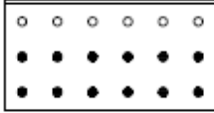


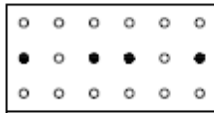
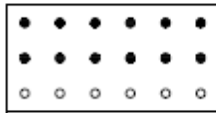
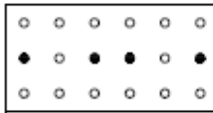
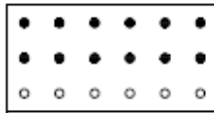
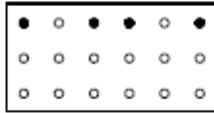
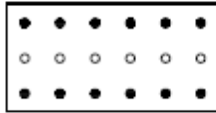
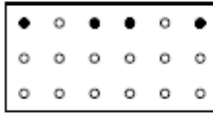
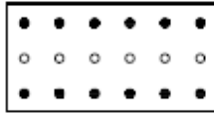
směr 1

	beam to beam		post to beam	
	min	max	min	max
vertikální				
horizontální				

směr 2

	beam to beam		trimmer	
	min	max	min	max
vertikální				
horizontální				

směr 3 - horní úhelník					
beam to beam			beam to column		
	min	max	min	max	
vertikální					
horizontální					

směr 3 - dolní úhelník					
beam to beam			beam to column		
	min	max	min	max	
horizontální					
vertikální					

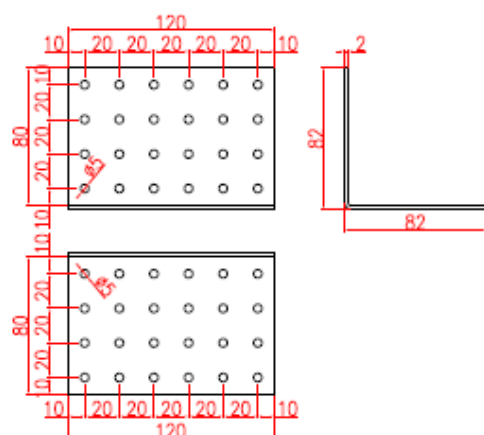
Charakteristické hodnoty únosnosti [kN]:

Směr 1							
Beam to beam connection				Post to beam connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
11,08	10,58	5,54	5,29	10,56	10,28	5,28	5,14

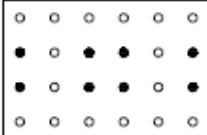
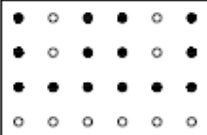
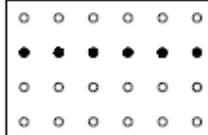
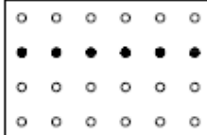
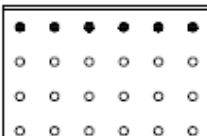
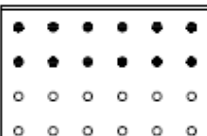
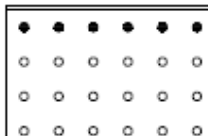
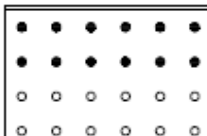
Směr 2							
Beam to beam connection				Trimmer connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
12,00	11,16	6,00	5,58	15,78	11,16	7,89	5,58

Směr 3									
Beam to beam connection a Beam to column connection									
2 úhelníky		1 úhelník (horní)		1 úhelník (dolní)					
prohřebíkování		prohřebíkování		prohřebíkování					
max	min	max	min	max	min	e [mm]	max	min	e [mm]
7,14	5,86	2,26	1,78	0,48	0,44	max 40	4,88	4,08	0

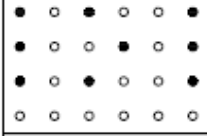
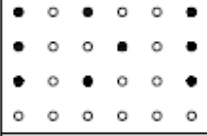
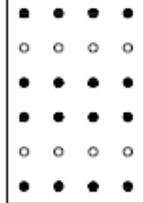
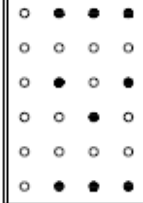
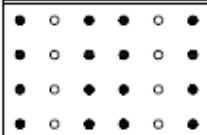
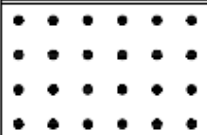
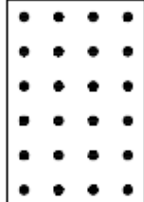
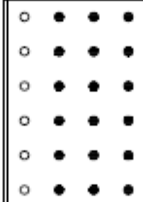
Úhelník 05-01 120x80x80

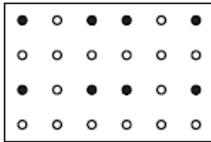
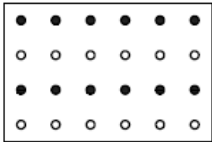
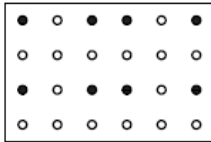
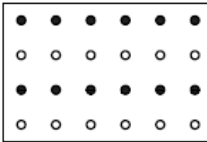
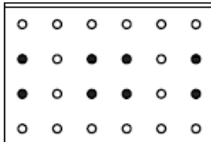
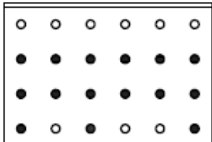
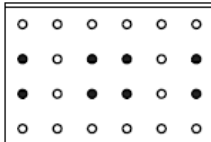
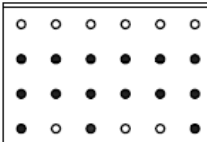


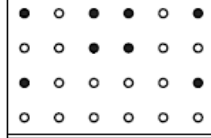
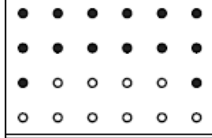
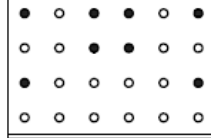
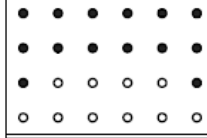
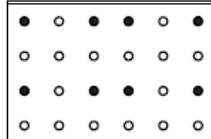
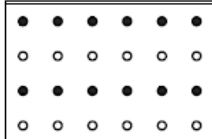
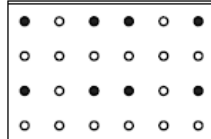
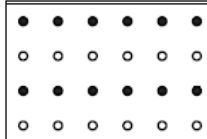
směr 1

	beam to beam		post to beam	
	min	max	min	max
vertikální				
horizontální				

směr 2

	beam to beam		trimmer	
	min	max	min	max
vertikální				
horizontální				

směr 3 - horní úhelník				
beam to beam		beam to column		
	min	max	min	max
vertikální				
horizontální				

směr 3 – dolní úhelník				
beam to beam			beam to column	
	min	max	min	max
horizontální				
vertikální				

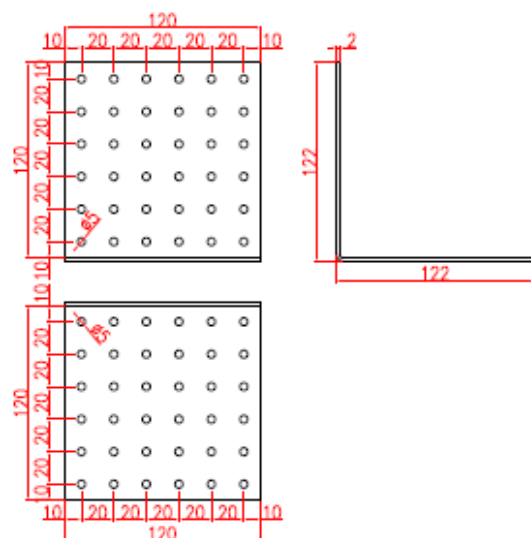
Charakteristické hodnoty únosnosti [kN]:

Směr 1							
Beam to beam connection				Post to beam connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
11,22	10,72	5,61	5,36	10,76	10,42	5,38	5,21

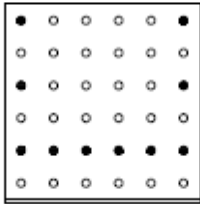
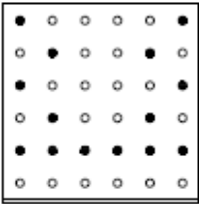
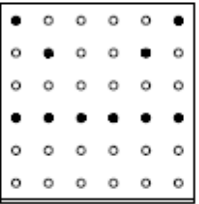
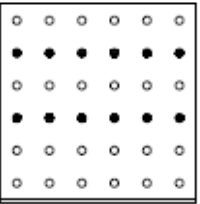
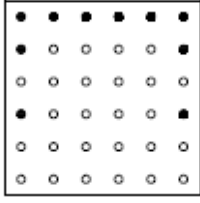
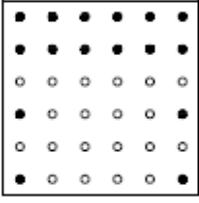
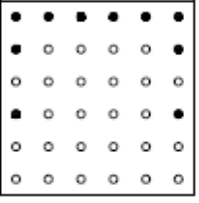
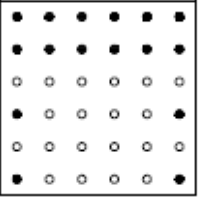
Směr 2							
Beam to beam connection				Trimmer connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
13,68	12,72	6,84	6,36	17,76	12,72	8,88	6,36

Směr 3									
Beam to beam connection a Beam to column connection									
2 úhelníky		1 úhelník (horní)		1 úhelník (dolní)					
prohřebikování		prohřebikování		prohřebikování					
max	min	max	min	max	min	e [mm]	max	min	e [mm]
7,78	7,31	2,62	2,24	0,27	0,26	max 50	5,16	5,07	0

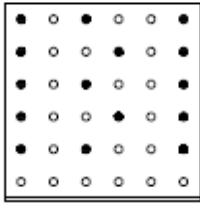
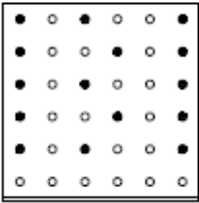
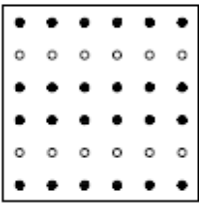
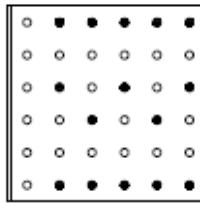
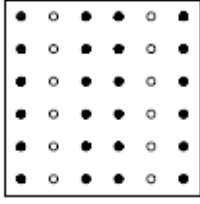
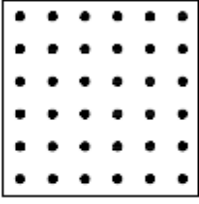
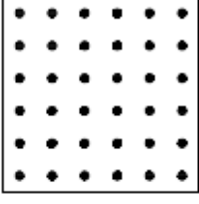
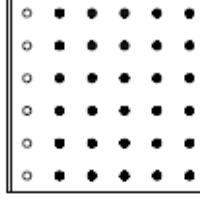
Úhelník 05-01 120x120x120

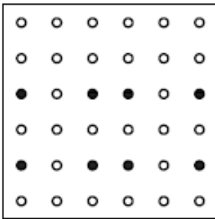
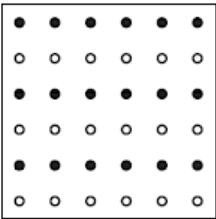
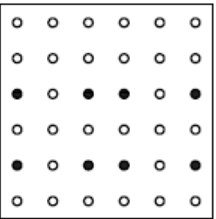
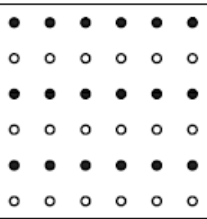
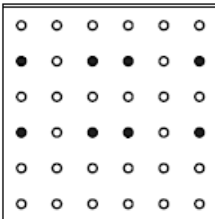
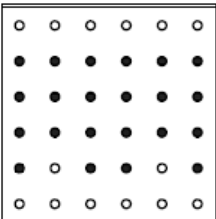
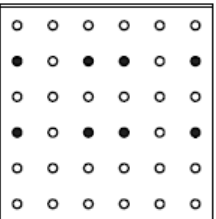
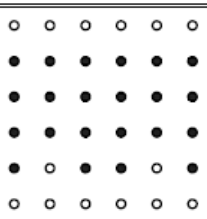
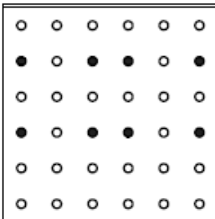
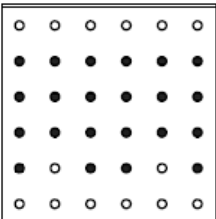
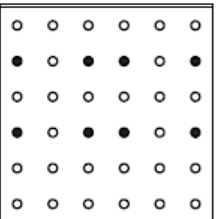
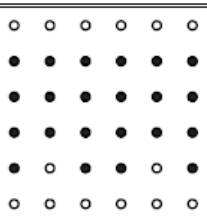
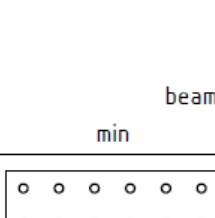
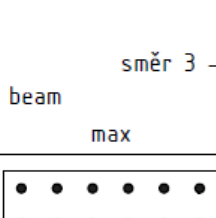
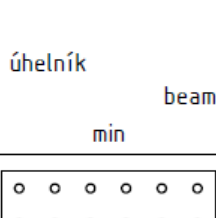
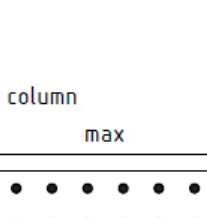


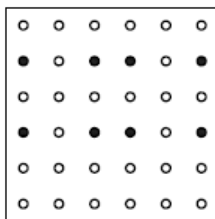
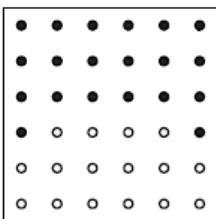
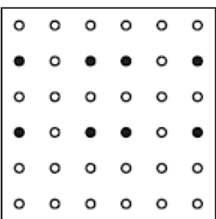
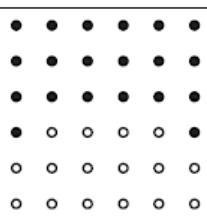
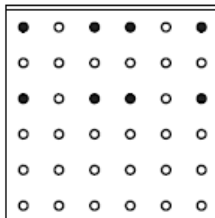
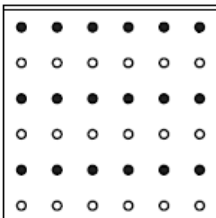
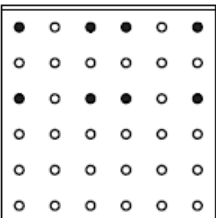
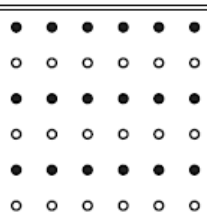
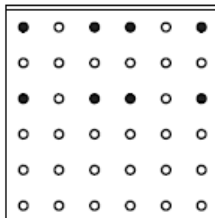
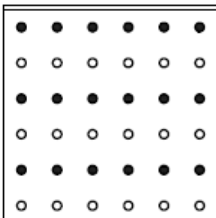
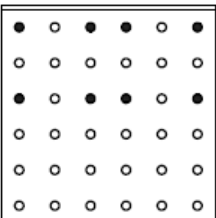
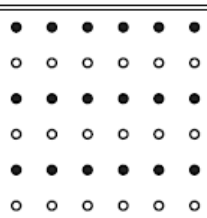
směr 1

	beam to beam		post to beam	
	min	max	min	max
vertikální				
horizontální				

směr 2

	beam to beam		trimmer	
	min	max	min	max
vertikální				
horizontální				

směr 3 – horní úhelník							
beam to beam				beam to column			
min		max		min		max	
vertikální							
							
horizontální							
							

směr 3 – dolní úhelník							
beam to beam				beam to column			
min		max		min		max	
horizontální							
							
vertikální							

Charakteristické hodnoty únosnosti [kN]:

Směr 1							
Beam to beam connection				Post to beam connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
11,26	11,00	5,63	5,50	10,80	10,62	5,40	5,31

Směr 2							
Beam to beam connection				Trimmer connection			
2 úhelníky		1 úhelník		2 úhelníky		1 úhelník	
prohřebíkování		prohřebíkování		prohřebíkování		prohřebíkování	
max	min	max	min	max	min	max	min
16,63	15,44	8,32	7,72	22,24	15,44	11,12	7,72

Směr 3									
Beam to beam connection a Beam to column connection									
2 úhelníky		1 úhelník (horní)		1 úhelník (dolní)					
prohřebíkování		prohřebíkování		prohřebíkování					
max	min	max	min	max	min	e [mm]	max	min	e [mm]
7,88	7,35	2,67	2,28	0,11	0,11	max 70	5,21	5,07	0