

WINDOR



ALUMÍNIOS

CATÁLOGO | CONSTRUÇÃO CIVIL

SISTEMAS
ESQUADRIAS
FACHADAS
GUARDA CORPO



A Windor iniciou suas atividades com um olhar estratégico diante da movimentação do mercado de alumínio no país.

Atuando em um mercado cada vez mais regionalizado e exigente, temos processo completo na produção de perfis de alumínio, distribuído em uma área de 22.000m².

EXTRUSÃO



ANODIZAÇÃO



PINTURA ELETRÓSTÁTICA



ACABAMENTO MADEIRA

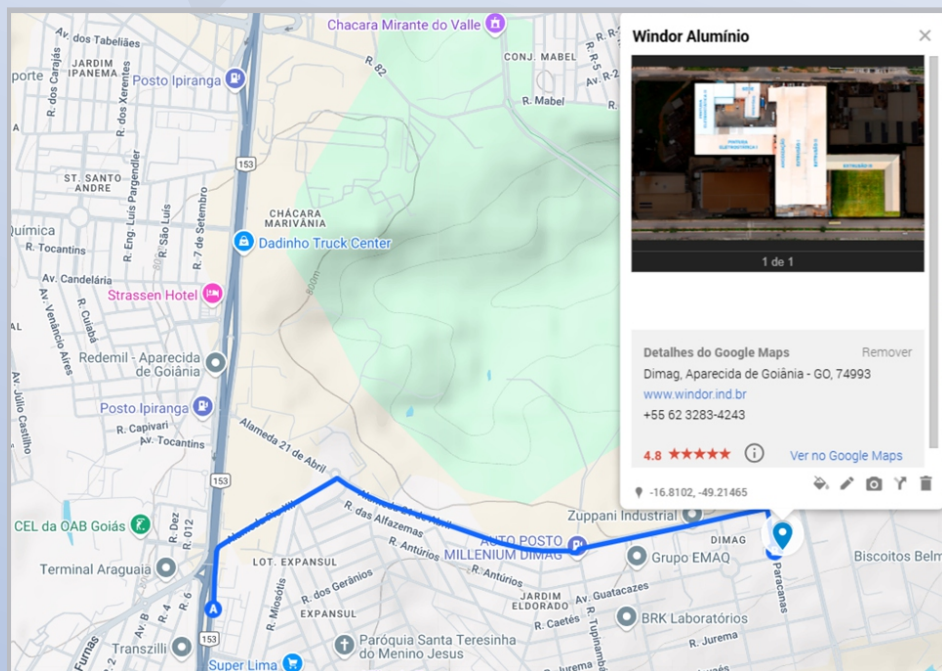




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PROPRIEDADES FÍSICAS TÍPICAS

LIGA	PESO ESPECÍFICO (g/cm³)	MÓDULO DE ELASTICIDADE (MPa)	MÓDULO DE RIGIDEZ (MPa)	TEMPERATURA DE FUSÃO (°C)	CALOR ESPECÍFICO ENTRE 0-100°C (Cal/g/°C)	COEFICIENTE DE EXPANSÃO LINEAR (L/°C)	CONDUTIBILIDADE TÉRMICA A 25°C (Cal/cm/°C)	CONDUTIBILIDADE ELÉTRICA (ACS) %
1050	2,70	70000	26500	650-660	0.22	24x10 ⁻⁶	0.50	60.0
3003	2,73	70000	26500	640-655	0.22	23x10 ⁻⁶	0.38	43.0
5052	2,68	72000	27500	595-650	0.23	23x10 ⁻⁶	0.33	34.0
6060	2,71	70000	26500	600-650	0.21	23x10 ⁻⁶	0.48	52.0
6063	2,71	70000	26500	600-650	0.21	23x10 ⁻⁶	0.48	52.0
6463	2,71	70000	26500	600-650	0.21	23x10 ⁻⁶	0.48	52.0
6005	2,71	70000	26500	580-650	0.22	24x10 ⁻⁶	0.37	40.0
6061	2,71	70000	26500	580-650	0.22	24x10 ⁻⁶	0.37	40.0
6082	2,71	70000	26500	555-650	0.21	24x10 ⁻⁶	0.44	45.5
6101	2,71	70000	26500	605-655	0.22	23x10 ⁻⁶	0.49	55.0
6261	2,71	70000	26000	570-655	0.22	23x10 ⁻⁶	0.44	47.0
6262	2,71	70000	26700	582-652	0.21	23x10 ⁻⁶	0.37	44.0
6351	2,71	70000	26500	555-650	0.21	24x10 ⁻⁶	0.44	45.5
7075	2,80	73000	27500	475-630	0.23	24x10 ⁻⁶	0.29	30.0

CARACTERÍSTICAS ESPECÍFICAS

LIGA	RESISTÊNCIA A CORROSÃO	ANODIZAÇÃO DECORATIVA	ANODIZAÇÃO PROTETORA	SOLDA MIG	SOLDA TIG	USINAGEM	DEFORMAÇÃO À FRIO	BRASAGEM	OUTRAS
1050	A	A	A	A	A	E	A	A	
3003	A	D	B	A	A	D	A	A	
5052	A	A	A	A	A	C	A	B	
6060	A	A	A	A	A	D	B	A	
6063	A	A	A	A	A	D	B	A	
6463	A	A	A	A	A	D	B	A	
6005	A	D	A	A	A	D	B	A	
6061	A	D	A	A	A	D	B	A	
6082	A	D	A	A	A	C	C	C	
6101	A	A	A	A	A	D	B	A	
6261	A	C	A	A	A	C	C	B	
6262	B	C	A	A	A	A	C	A	
6351	A	D	A	A	A	C	C	C	
7075	C	E	B	N	N	D	B	N	SOLDA POR RESISTÊNCIA

LIMITES DE COMPOSIÇÃO QUÍMICA (% EM PESO)

LIGA	Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OUTROS	
										CADA	TOTAL
1050	99.50	0.25	0.40	0.05	0.05	0.05	-	0.05	0.03	0.03	-
3003	-	-	-	0.05	1.0	-	-	-	-	-	-
	-	0.6	0.7	0.20	1.5	-	-	0.10	-	0.05	0.15
5052	-	-	-	-	-	2.2	0.15	-	-	-	-
	-	0.25	0.40	0.10	0.10	2.8	0.35	0.10	-	0.05	0.15
6005	-	0.6	-	-	-	0.4	-	-	-	-	-
	-	0.9	0.35	0.10	0.10	0.6	0.10	0.10	0.10	0.05	0.15
6005 A	-	0.5	-	-	-	0.4	-	-	-	-	-
	-	0.9	0.35	0.30	0.50	0.7	0.30	0.20	0.10	0.05	0.15
6060	-	0.30	0.10	-	-	0.35	-	-	-	-	-
	-	0.60	0.30	0.10	0.10	0.60	0.05	0.10	0.10	0.05	0.15
6063	-	0.20	-	-	-	0.45	-	-	-	-	-
	-	0.60	0.35	0.10	0.10	0.9	0.10	0.10	0.10	0.05	0.15
6061	-	0.40	-	0.15	-	0.8	0.04	-	-	-	-
	-	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15
6082	-	0.7	-	-	0.4	0.6	-	-	-	-	-
	-	1.3	0.5	0.10	1.0	1.2	0.25	0.20	0.10	0.05	0.15
6261	-	0.40	-	0.15	1.0	0.6	-	-	-	-	-
	-	0.7	0.40	0.40	0.35	1.2	0.25	0.20	0.10	0.05	0.15
6262	-	0.40	-	0.15	-	0.8	0.04	-	-	-	-
	-	0.8	0.7	0.40	0.15	1.2	0.14	0.25	0.15	0.05	0.15
6351	-	0.7	-	-	0.40	0.40	-	-	-	-	-
	-	1.3	0.50	0.10	0.8	0.8	-	0.20	0.20	0.05	0.15
6463	-	0.30	-	0.05	-	0.35	-	-	0.01	-	-
	-	0.60	0.15	0.20	0.05	0.65	-	0.03	0.03	0.05	0.15
7075	-	-	-	1.2	-	2.1	0.18	5.1	-	-	-
	-	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.15

* Apresenta em sua composição Pb = 0.20-0.60% e Bi = 0.20-0.60%
** Boro 0.05% máximo
*** Apresenta em sua composição Pb= 0.40-0.70% e Bi = 0.40-.070%

CARACTERÍSTICAS E APLICAÇÕES

LIGA	CARACTERÍSTICAS	APLICAÇÕES
1050	Baixa resistência mecânica, alta resistência à corrosão, boa conformabilidade, fácil de soldar, apropriada para anodização decorativa.	Indústria química, farmacêutica e alimentícia; utensílios domésticos. Refrigeração (trocadores de calor em geral)
3003	Média resistência mecânica, alta resistência à corrosão, boa conformabilidade, boa soldabilidade.	Tubos para trocadores de calor (radiadores automotivos). Antenas.
5052	Boa resistência mecânica, alta resistência à corrosão, boa conformabilidade.	Vergalhões para rebites, transporte e equipamentos.
6005 A	Boa resistência mecânica, alta resistência à corrosão, boa conformabilidade, e média usinabilidade.	Rodas e acessórios de bicicletas esportivas e motocicletas, náutica e transporte em geral.
6060	Média resistência mecânica, alta resistência à corrosão, boa conformabilidade.	Perfis para construção civil, caixilharia em geral, tubos de irrigação.
6063	Apropriada para anodização decorativa fosca	Móveis e iluminação.
6061	Boa resistência mecânica, boa resistência à corrosão, boa conformabilidade, e média usinabilidade.	Estruturas, construção naval, veículos e rebites. Indústria moveleira.
6101	Alta condutividade elétrica, média resistência mecânica, boa resistência à corrosão.	Liga especial para fins elétricos e barramentos (estruturas)
6261	Boa resistência mecânica, boa resistência à corrosão, boa conformabilidade, e média usinabilidade.	Carrocerias de veículos, estruturas e equipamentos.
6262	Ótima usinabilidade, alta resistência mecânica, alta resistência à corrosão, apropriada para anodização decorativa.	Peças usinadas em torno automático. Excelente alternativa para o latão de corte livre.
6351	Boa resistência mecânica, alta resistência à corrosão, boa conformabilidade, e média usinabilidade.	Engenharia estrutural, construção de navios, veículos e equipamentos. Peças usinadas em tornos não automáticos. Forjamento a frio.
6463	Média resistência mecânica, boa resistência à corrosão, boa conformabilidade, apropriada para anodização decorativa de alto brilho.	Painéis e frisos para eletrodomésticos, automóveis e armários.
7075	Os mais altos valores de resistência mecânica, média resistência à corrosão, boa forjabilidade e usinabilidade.	Peças sujeitas aos mais altos esforços mecânicos e indústria aeronáutica, militar, máquinas e equipamentos. Moldes para injeção de plástico.

PROPRIEDADES MECÂNICAS

LIGA	TÊMPERA	LIMITE DE RESISTÊNCIA À TRAÇÃO (MPa)		LIMITE CONVENCIONAL DE ESCOAMENTO (MPa)		LIMITE DE RESISTÊNCIA AO CIZALHAMENTO (MPa)	% DE ALONGAMENTO EM 50mm	DUREZA BRINELL 2,5/62,5
1050	O	95	(80)	-	(30)	(62)	25	-
	H14	85	(100)	70	(80)	(72)	-	-
	H18	110	(130)	90	(100)	(76)	-	-
3003	O	130	(120)	-	-	(76)	25	-
	H12	115	(140)	-	-	-	-	-
	H14	140	(151)	-	-	(97)	-	-
	H16	165	-	-	-	(103)	-	-
	H18	185	-	-	-	(110)	-	-
5052	O	220	(209)	-	-	(123)	25	-
	H32	215	(227)	160	(183)	-	-	-
	H34	233	(260)	180	(235)	(144)	-	-
	H36	255	-	200	(250)	(165)	-	-
	H38	270	-	-	-	(165)	-	-
6005 A	T6F	260	(270)	215	(230)	-	10	82
6060	O	130	(125)	-	-	(76)	18	-
6063	T4A	110	(145)	60	(79)	(98)	-	-
6463	T5	150	(219)	110	(189)	(118)	8	66
	T6C	180	(226)	150	(197)	(135)	-	-
	T^	205	(235)	170	(213)	-	8	-
6061	O	150	-	110	-	(82)	16	-
	T4	180	(211)	110	(129)	(165)	16	-
	T6	260	(309)	240	(280)	(206)	8	(102)
	T6*	290	(351)	240	(332)	-	10	(105)
	T8	-	(368)	-	(348)	(100)	-	-
	T89	370	-	325	-	-	-	-
6261	T4A	157	(186)	83	(108)	-	-	-
	T4	181	(199)	98	(123)	-	-	-
	T6C	229	(280)	199	(248)	-	10	(90)
	T6	260	(309)	240	(280)	-	8	(102)
6351	T4	220	(227)	130	(121)	(152)	16	(64)
	T6	290	(315)	255	(288)	(201)	8	(106)
6101	O	-	(137)	-	(82)	-	-	-
	T6	200	(230)	172	(213)	-	-	-
6262	T6	260	-	-	-	-	10	-
	T9	360	(390)	330	(370)	-	5	(111)
7075	O	275	-	165	-	-	-	-
	T6	560	(630)	495	(608)	(329)	-	(150)

EXTRUSÃO

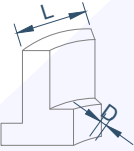
Para os produtos extrusados são adotadas as tolerâncias contidas na norma ABNT NBR 8116-Alumínio e suas ligas que é baseada na ASTM (ANSI H35.2-M). Dadas as necessidades de constante atualização da norma NBR 8116, devido aos avanços das indústrias produtoras de alumínio e as necessidades cada vez maiores das indústrias usuárias de perfis extruzados, os valores constantes desta tabela estão sujeitos à mudanças. Neste trabalho, apresentamos apenas a tabela mais usual, sendo que informações complementares poderão ser obtidas com técnicos da Windor. A tabela apresenta as tolerâncias padronizadas. Quando nenhuma tolerância é mostrada deve ser estabelecida de comum acordo entre o comprador e fornecedor.

TOLERÂNCIA NA SEÇÃO TRANSVERAL DO PERFIL

DIMENSÃO NOMINAL (mm)	TOLERÂNCIAS - PARA MAIS E PARA MENOS (mm) (C) (D)							
	DIMENSÕES DO METAL			DIMENSÕES ENTRE SUPERFÍCIES METÁLICAS				
	DIMENSÃO NOMINAL ONDE 75% OU MAIS É METAL (E) (F)			DESVIO PERMISSÍVEL DA DIMENSÃO NOMINAL QUANDO MAIS DE 25% DA DIMENSÃO FOR VAZIO (G) (H)				
	TODAS AS DIMENSÕES EXCETO AQUELAS INCLuíDAS NA COLUNA 3	ESPESSURAS DE PAREDE, CIRCUNDANDO UM VAZIO DE 70mm OU MAIS (I) (J)	NAS DIMENSÕES MEDIDAS A UMA DISTÂNCIA "A" DA BASE DA ABA					
5 A 15			15 A 30	30 A 60	60 A 100	100 A 150	150 A 200	
COLUNA 01	COLUNA 02	COLUNA 03	COLUNA 04	COLUNA 05	COLUNA 06	COLUNA 07	COLUNA 08	COLUNA 09
ATÉ 3,2	0,15	± 10% DA ESPESSURA ESPECIFICADA	0,25	0,30	-	-	-	-
3,2 A 6,3	0,18		0,30	0,36	0,41	-	-	-
6,3 A 12,5	0,20		0,36	0,41	0,46	0,50	-	-
12,5 A 20	0,23		0,41	0,46	0,50	0,56	-	-
20 A 25	0,25		0,46	0,50	0,56	0,64	0,76	-
25 A 40	0,30	MÁXIMO ± 1,50 MÍNIMO ± 0,25	0,54	0,58	0,66	0,76	0,88	-
40 A 50	0,36		0,60	0,66	0,78	0,92	1,05	1,25
50 A 100	0,60		0,86	0,96	1,20	1,45	1,70	2,05
100 A 150	0,86		1,10	1,25	1,65	2,00	2,40	2,80
150 A 200	1,10		1,35	1,55	2,40	2,50	3,05	3,55
200 A 250	1,35		1,65	1,90	2,50	3,05	3,70	4,30

Vergalhões, barras e perfis extrusados. Tolerâncias na seção transversal em milímetros para mais ou para menos. Essas tolerâncias aplicam-se a perfis extrusados exceto na têmpera O (estado cozido) e têmpera F (como fabricado). (A) Estas tolerâncias - padrão aplicam-se a perfis comuns: podem ser necessárias tolerâncias mais amplas para alguns perfis e podem ser possíveis tolerâncias mais estreitas para outros, dependendo do acordo prévio entre o comprador e o fornecedor. (B) As tolerâncias para perfis extrusados nas ligas e têmperas especiais devem ser negociadas entre o comprado e o fornecedor. (C) A tolerância aplicável a uma dimensão composta de 2 ou mais componentes é a soma das tolerâncias das dimensões componentes, se todas elas forem indicadas. (D) Se uma tolerância dimensional especificada não for simétrica, então o valor da tolerância - padrão a ser aplicado é aquele que seria aplicado à média das dimensões máxima e mínima permissíveis pela tolerância inicialmente especificada.

RETILINEARIEDADE

	DIÂMETRO DO MENOR CÍRCULO CIRCUNSCRITO (mm) ¹	ESPESSURA MÍNIMA (mm)	DESVIO (D) PERMISSÍVEL POR METRO DE COMPRIMENTO (mm) ²
	ATÉ 38,09 ATÉ 38,09 ACIMA DE 38,10	ATÉ 2,4 ACIMA DE 2,4 QUALQUER	4,0 1,0 1,0

TORÇÃO

	DIÂMETRO DO MENOR CÍRCULO CIRCUNSCRITO (mm) ¹	DESVIO (Y) PERMISSÍVEL (GRAUS)		
	ATÉ 38,09 DE 38,09 A 76,19 ACIMA DE 76,20	POR METRO DE COMPRIMENTO	COMPRIMENTO TOTAL	TORÇÃO MÁXIMA
		3,3 1,6 0,8	3,3xL (metros) 1,6xL (metros) 0,8xL (metros)	7% 5% 3%

COMPRIMENTO

DIÂMETRO DO MENOR CÍRCULO CIRCUNSCRITO (mm) ¹	DESVIO PERMISSÍVEL EM RELAÇÃO AO COMPRIMENTO NOMINAL (SOMENTE A MAIS) (mm)		
	COMPRIMENTO NOMINAL (mm)		
	ATÉ 3600	3661 A 9150	9151 A 15250
ATÉ 76,19	3,2	6,4	9,5
76,20 A 203,19	4,8	7,9	11,1
ACIMA DE 203,20	6,4	9,5	12,7

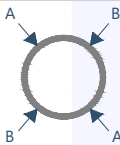
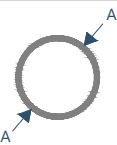
ANGULARIDADE

DIÂMETRO DO MENOR CÍRCULO CIRCUNSCRITO (mm) ¹	DESVIO PERMISSÍVEL EM RELAÇÃO AO ÂNGULO NOMINAL (graus) ⁴
ATÉ 4,75 DE 4,76 A 19,04 ACIMA DE 19,05	± 2,0 ± 1,5 ± 1,0

CORTE FINAL

DESVIO PERMISSÍVEL DO QUADRO ± 1°
(1) PARA VERGALHÕES DIÂMETRO NOMINAL, PARA BARRAS LARGURA NOMINAL.
(2) PARA OBTER DESVIO PERMISSÍVEL EM BARRAS DE MAIS DE UM METRO DE COMPRIMENTO MULTIPLICA-SE O VALOR EM METROS PELO VALOR DO DESVIO POR METRO.
(3) QUANDO HOUVER DUAS ABAS ADJACENTES CONSIDERA-SE A DE MENOR ESPESSURA.
(4) QUANDO O ESPAÇO LIMITADO PELO ÂNGULO É TODO METAL, CONSIDERA-SE A MENOR ESPESSURA DE METAL NO VÉRTICE DO ÂNGULO.

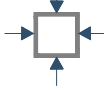
DIÂMETROS - TUBOS REDONDOS

DIMENSÃO NOMINAL (mm)	DESVIO PERMISSÍVEL DO DIÂMETRO MÉDIO $\frac{AA+BB}{2}$ EM		DESVIO PERMISSÍVEL DO DIÂMETRO EM QUALQUER PONTO EM RELAÇÃO AO DIÂMETRO NOMINAL ($\pm$ mm) ⁽¹⁾	
	RELAÇÃO AO DIÂMETRO NOMINAL ($\pm$ mm)	TUBOS EXTRUDADOS		
6,35 A 25,39		0,25		0,51
25,40 A 50,79		0,30		0,64
50,80 A 101,59		0,38		0,76
101,60 A 152,39		0,64		1,27
152,40 A 203,19		0,89		1,90
203,20 A 253,99		1,14		2,54

(1) NÃO APLICÁVEL NA TÊMPERA O, TUBOS EM ROLOS OU TUBOS CUJA ESPESSURA DA PAREDE FOR INFERIOR A 0,5mm OU 2,5% DO DIÂMETRO EXTERNO OU DO DIÂMETRO DA CIRCUNFERÊNCIA EQUIVALENTE (DIÂMETRO DO CÍRCULO CUJA CIRCUNFERÊNCIA MEDE O PERÍMETRO DO TUBO).

ALTURA E LARGURA

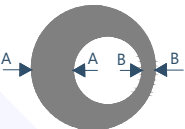
TUBOS QUADRADOS, RETANGULARES, SEXTAVADOS E OITAVADOS

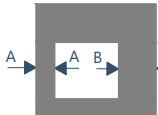
ESPESSURA NOMINAL DA PAREDE (mm)	DESVIO PERMISSÍVEL DA ALTURA OU LARGURA EM RELAÇÃO À DIMENSÃO NOMINAL (mm)		
	NOS CANTOS	EM LADOS OPOSTOS ⁽¹⁾	
	 TUBOS QUADRADOS E RETANGULARES	 TUBOS QUADRADOS, SEXTAVADOS E OITAVADOS	 TUBOS RETANGULARES
	TUBOS EXTRUDADOS		
12,70 A 19,5	0,30	0,51	A TOLERÂNCIA PARA LARGURA É O VALOR DA TOLERÂNCIA PARA UMA DIMENSÃO IGUAL À ALTURA, E INVERSAMENTE, MAS EM NENHUM CASO ESTA TOLERÂNCIA É MENOR DO QUE NOS CANTOS ⁽²⁾
19,6 A 25,40	0,36	0,51	
25,41 A 50,80	0,46	0,63	
50,81 A 101,60	0,63	0,89	
101,61 A 126,70	0,89	1,14	
126,70 A 152,40	1,14	1,40	

(1) NÃO APLICÁVEL NA TÊMPERA 0, TUBOS EM ROLOS OU TUBOS CUJA ESPESSURA DA PAREDE FOR INFERIOR A 0,5mm OU 2,5% DO DIÂMETRO EXTERNO OU DO DIÂMETRO DA CIRCUNFERÊNCIA EQUIVALENTE (DIÂMETRO DO CÍRCULO CUJA CIRCUNFERÊNCIA MEDE O PERÍMETRO DO TUBO).(2) EM UM TUBO RETANGULAR EXTRUDADO DE 76,20X34,10mm A TOLERÂNCIA DA LARGURA (76,20) É DE ± 0,63mm E NA ALTURA (38,10) É DE ± 0,89mm.

ESPESSURA DA PAREDE

TUBOS EXTRUDADOS

TUBOS REDONDOS EXTRUDADOS					
ESPESSURA NOMINAL DA PAREDE (mm)	DESVIO PERMISSÍVEL DA ESPESSURA MÉDIA $\frac{AA+BB}{2}$ EM RELAÇÃO À ESPESSURA NOMINAL (± mm)				DESVIO PERMISSÍVEL DA ESPESSURA EM QUALQUER PONTO EM RELAÇÃO À ESPESSURA MÉDIA (EXCÊNTRICIDADE) (± mm)
					
	DIÂMETRO EXTERNO (mm)				
	ATÉ 31,75	31,75 A 76,19	76,20 A 126,99	ACIMA DE 127,0	
ATÉ 1,19	0,15	-	-	-	10% DA ESPESSURA MÉDIA DA PAREDE. MÁXIMO: 1,52 MÍNIMO: 0,25
1,20 A 1,55	0,18	0,20	0,20	0,25	
1,56 A 1,95	0,20	0,20	0,23	0,30	
1,96 A 3,15	0,23	0,23	0,25	0,38	
3,16 A 6,34	0,23	0,23	0,33	0,51	
6,35 A 9,51	0,28	0,28	0,41	0,63	
9,52 A 12,69	-	0,38	0,53	0,89	
12,70 A 19,04	-	0,51	0,71	1,14	

TUBOS QUADRADOS, RETANGULARES, SEXTAVADOS E OITAVADOS - EXTRUDADOS				
ESPESSURA NOMINAL DA PAREDE (mm)	DESVIO PERMISSÍVEL DA ESPESSURA MÉDIA $\frac{AA+BB}{2}$ EM RELAÇÃO À ESPESSURA NOMINAL (± mm) 		DESVIO PERMISSÍVEL DA ESPESSURA EM QUALQUER PONTO EM RELAÇÃO À ESPESSURA MÉDIA (EXCÊNTRICIDADE) (± mm) 	
	DIÂMETRO DO CIRCUITO CIRCUNSCRITO			
	MENOR QUE 127,0		MAIOR QUE 127,0	
ATÉ 1,19	0,13	0,20	0,13	10% DA ESPESSURA MÉDIA DA PAREDE.
1,20 A 1,55	0,15	0,23	0,18	
1,56 A 1,95	0,18	0,25	0,25	
1,96 A 3,15	0,18	0,25	0,25	MÁXIMO: 1,52 MÍNIMO: 0,25
3,16 A 6,34	0,20	0,38	0,36	
6,35 A 9,51	0,28	0,51	0,63	
9,52 A 12,69	0,36	0,76	0,76	
12,70 A 19,04	0,63	1,02	1,02	

PERFIS TABELADOS

PÁGINAS 16 a 19

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
AT-0019	CT-001	0,069	16
AT-0020	-	0,096	16
AT-0150	CT-015	0,141	16
AT-0151	CT-007	0,102	16
AT-0287	CT-034	1,650	16
AT-0598	CT-031	0,567	16
AT-0682	CT-005	0,120	16
AT-1230*	CT-019	0,430	16
AT-1231*	CT-047	0,335	16
AT-1232*	CT-026	0,659	16
AT-0735	-	0,096	16
AT-0736	-	0,141	16
AT-0737	-	0,105	16
AT-1102	-	0,277	16
AT-1233*	-	0,659	16
AT-0017	-	0,614	17
AT-0206	-	0,787	17
AT-0392	TQ-004	0,205	17
AT-0688	-	1,916	17
AT-1106	TQ-014	0,625	17
AT-1132	TQ-005	0,243	17
AT-1234*	TQ-002	0,200	17
AT-1235*	TQ-009	0,428	17
AT-0018	-	1,442	17
AT-0032	TG-073	0,422	17
AT-0207	-	1,192	17
AT-0246	TG-108	0,686	17
AT-0288	-	0,205	17
AT-0590	TG-004	0,350	17
AT-0611	-	0,176	17

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
AT-0921	TG-074	0,262	17
AT-1020	-	0,632	17
AT-1021	-	0,795	17
AT-1105	TG-014	0,950	17
AT-0077	-	1,712	18
AT-0145	-	0,246	18
AT-0146	-	0,146	18
AT-0390	TR-011	0,133	18
AT-0441	TR-018	0,161	18
AT-0666	-	0,136	18
AT-0738	TR-039	0,185	18
AT-1012	-	0,072	18
AT-0162	-	0,341	18
AT-0665	-	0,119	18
AT-0186	-	0,085	18
AT-0189	-	0,227	18
AT-0217	-	0,114	18
AT-0052	-	1,894	19
AT-0216	-	0,458	19
AT-0156	-	0,573	19
AT-0158	BC-002	0,115	19
AT-0190	-	1,365	19
AT-0214	-	0,282	19
AT-0215	-	0,740	19
AT-0285	-	5,492	19
AT-0286	BC-060	0,462	19
AT-0603	-	0,401	19
AT-1101	BC-025	0,230	19
AT-1115	-	0,398	19
AT-1177	-	1,374	19
AT-1201	BC-016	0,258	19

CONTRAMARCO

PÁGINAS 20 a 23

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
CM-093	CM-093	0,780	20
CM-094*	-	0,951	20
CM-034	CM-088	0,236	20
CL-006	CL-006	1,112	21
CL-011	CL-011	0,319	21
CL-044	CL-044	1,093	21
CL-010	CL-010	0,385	21
CM-200	CM-200	0,198	22
CM-174	CM-174	0,411	22
CM-060	CM-060	0,276	22
CM-098	CM-098	0,392	22
CM-129	CM-129	0,489	22

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
CM-095*	-	0,477	23
CM-101*	-	0,275	23
CM-097*	-	0,453	23

ACABAMENTO

PÁGS. 67a 68 e 77

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
WAC-001*	-	0,165	67
WAC-002*	-	0,125	67
WAC-003*	-	0,094	68
WAC-368	-	0,130	77

LINHA W₁₆

PÁGINAS 24 a 26

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W16-483	-	0,197	24
W16-490	-	0,180	24
W16-533	-	0,560	24
W16-485	-	0,388	24
W16-491	-	0,144	24
W16-535	-	0,111	24
W16-480	-	0,266	25

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W16-481	-	0,285	25
W16-482	-	0,334	25
W16-534	-	0,302	25
W16-562	-	0,738	25
W16-563	-	0,517	25
W16-487	-	0,319	26
W16-560	-	0,652	26
W16-561	-	0,357	26

LINHA W₂₀

PÁGINAS 27 a 38

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W20-266	-	0,657	27
W20-265	-	0,684	27
W20-284*	-	0,645	27
W20-285*	-	0,599	27
W20-286*	-	0,928	27
W20-287*	-	1,045	27
W20-592*	-	0,422	28
W20-283	-	0,170	28
W20-267	-	0,473	28
W20-282*	-	0,352	28
W20-288*	-	0,797	28
W20-293*	-	0,908	29
W20-295*	-	0,946	29
W20-303*	-	0,878	29
W20-304*	-	0,835	30
W20-301*	-	1,310	30
W20-302*	-	1,390	30
W20-300*	-	0,532	31
W20-296*	-	0,455	31
W20-297*	-	0,600	31
W20-298*	-	0,600	32

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W20-299*	-	0,704	32
W20-305*	-	1,155	32
W20-268	-	0,465	33
W20-280*	-	0,540	33
W20-281*	-	0,832	33
W20-270	-	0,485	33
W20-271*	-	0,602	33
W20-272*	-	0,741	34
W20-273*	-	0,931	34
W20-277*	-	0,973	34
W20-279*	-	0,810	34
W20-269*	-	0,483	34
W20-276*	-	0,586	34
W20-274*	-	0,601	35
W20-294*	-	0,740	35
W20-275*	-	0,931	35
W20-278*	-	0,972	35
W20-291*	-	0,605	36
W20-292	-	0,791	37
W20-289*	-	1,306	37
W20-306*	-	1,387	37
W20-290*	-	1,098	38

LINHA W₂₅

PÁGINAS 42 a 57

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W25-001	SU-001	0,769	42
W25-002	SU-002	0,715	42
W25-003	SU-003	0,523	42
W25-007	SU-007	0,383	42
W25-004	SU-004	0,504	42
W25-005	SU-005	1,108	42
W25-006	SU-006	1,086	43
W25-009	SU-009	0,908	43
W25-010	SU-010	1,103	43
W25-011	SU-011	0,971	43
W25-012	SU-012	0,554	44

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W25-013	SU-013	0,772	44
W25-014	SU-014	0,677	44
W25-224	-	1,668	45
W25-230	SU-230	0,954	45
W25-228	SU-228	0,688	45
W25-540	-	0,271	46
W25-494	-	0,227	46
W25-537	-	0,275	46
W25-291	SU-291	0,263	46
W25-541	-	0,301	46
W25-121	SU-121	1,586	47

LINHA W₂₅

PÁGINAS 42 a 57

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W25-122	SU-122	1,512	47
W25-123	SU-123	0,920	47
W25-039	SU-039	0,520	48
W25-040	SU-040	0,480	48
W25-041	SU-041	0,507	48
W25-042	SU-042	0,564	48
W25-043	SU-043	0,962	48
W25-044	SU-044	0,970	48
W25-047	SU-047	1,041	49
W25-049	SU-049	1,053	49
W25-192	SU-192	0,556	49
W25-227	SU-227	0,551	49
W25-107	SU-107	0,265	49
W25-053	SU-053	0,507	50
W25-102	SU-102	0,111	50
W25-225	SU-225	0,989	50
W25-103	SU-103	0,147	50
W25-203	SU-203	0,133	50
W25-242	SU-242	0,740	51
W25-243	SU-243	0,712	51
W25-245	SU-245	0,688	51
W25-280	SU-280	1,006	51
W25-079	SU-079	0,341	52
W25-086	SU-086	0,596	52
W25-083	SU-083	0,153	52
W25-276	SU-276	0,169	52

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W25-200	SU-200	0,443	52
W25-081	SU-081	0,412	52
W25-080	SU-080	0,360	53
W25-082	SU-082	0,382	53
W25-084	SU-084	0,125	53
W25-292	SU-292	0,221	53
W25-090	SU-090	0,453	53
W25-091	SU-091	0,401	53
W25-055	SU-055	0,545	54
W25-056	SU-056	0,539	54
W25-057	SU-057	0,631	54
W25-061	SU-061	1,063	54
W25-188	SU-188	0,586	54
W25-186	SU-186	0,510	54
W25-226	SU-226	1,014	55
W25-499	-	1,085	55
W25-532	-	1,090	55
W25-270	SU-270	0,711	55
W25-279	SU-279	0,581	56
W25-111	SU-111	0,640	56
W25-241	SU-241	0,734	56
25-548	25-548	0,293	56
W25-108	SU-108	0,146	56
W25-068	SU-068	0,534	57
W25-069	SU-069	0,576	57
W25-070	SU-070	0,522	57
W25-187	SU-187	0,512	57

ARREMATES

PÁGINA 59

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
MP-347	MP-347	0,202	59
MH-0017	MH-017	0,197	59
MN-014*	MN-014	0,214	59

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
CM-169	CM-169	0,435	59
CM-493	CM-493	0,365	59
ME-013	ME-013	0,268	59

LINHA W_{25PLUS}

PÁGINAS 60 a 79

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W25-1008*	SU-008	0,246	60
W25-271*	SU-271	0,350	60
W25-1260	SU-260	0,725	60
W25-1272*	SU-272	0,465	60
W25-1002*	-	0,939	60
W25-1005*	-	1,383	61
W25-1006*	-	2,155	61
W25-1011*	-	1,204	61
W25-1230*	-	1,000	62
W25-1018*	SU-018	0,621	62
W25-1019*	SU-019	1,789	62

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W25-1224*	-	2,752	63
W25-1121*	-	1,445	63
W25-1122*	-	1,491	64
W25-1123*	-	0,844	64
W25-1124*	-	2,364	64
W25-1125*	-	3,427	65
W25-1126*	-	1,276	65
W25-1020*	-	1,381	66
W25-1021*	-	1,683	66
W25-1022*	-	0,871	66
W25-1026*	-	0,411	67

LINHA W_{25PLUS}

PÁGINAS 60 a 79

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W25-1027*	-	0,585	67
W25-1028*	-	0,301	67
W25-1029*	-	0,337	67
W25-1068*	-	0,114	68
W25-1053*	-	0,800	68
W25-1031*	-	0,125	68
W25-1250*	SU-250	0,715	68
W25-1032*	-	1,011	69
W25-1033*	-	1,086	69
W25-1044*	-	0,930	69
W25-1040*	-	0,561	70
W25-1041*	-	0,545	70
W25-1036*	-	0,731	70
W25-1037*	-	0,716	70
W25-1042*	-	0,667	70
W25-1047*	-	1,153	71
W25-1049*	-	1,115	71
W25-1034*	-	1,001	71
W25-1035*	-	0,959	71
W25-1045*	-	1,233	72
W25-1046*	-	1,190	72
W25-1050*	-	0,830	73
W25-1051*	-	1,001	73

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W25-1052*	-	1,163	73
W25-1186*	-	0,801	74
W25-1057*	-	0,731	74
W25-1270*	SU-270	0,748	74
W25-1048*	-	0,919	74
W25-1062*	-	1,027	74
W25-1060*	SU-060	0,955	75
W25-1054*	-	1,080	75
W25-1055*	-	1,160	75
W25-1064*	-	1,110	76
W25-1056	-	0,621	76
W25-1058*	-	0,792	76
W25-1061	-	1,133	76
W25-1063*	-	1,241	77
W25-1059*	-	1,007	77
W25-1065*	-	1,058	77
W25-1499*	-	1,116	77
W25-1066*	-	1,146	78
W25-1067*	-	0,617	78
W25-542	-	1,217	78
W25-543	-	1,393	79
W25-544	-	1,440	79
W25-545	MN-010	1,025	79

LINHA W_{25x45} PÁGINAS 88 a 89

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
25-540	25-540	0,560	88
25-548	25-548	0,293	88
25-002	25-002	0,351	88
25-542	25-542	0,704	88
25-508	25-508	0,756	88
BG-001	BG-001	0,108	88
25-016	25-016	0,429	89

LINHA W_{30x45} PÁGINAS 90 a 92

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W30-023	30-023	0,539	90
W30-034	30-034	0,292	90
W30-026	30-026	0,792	90
W30-077	30-077	0,796	90
W30-082	30-082	1,195	91
BG-010	BG-010	0,119	91
W30-025	30-025	0,752	91
W28-514	28-514	0,195	92

LINHA W₃₂

PÁGINAS 93 a 102

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W32-044	LG-044	1,247	93
W32-047	LG-047	1,133	93
W32-002	LG-002	0,638	93
W32-124	LG-124	0,773	94
W32-003	LG-003	0,756	94
W32-176	LG-176	1,542	94
W32-062	LG-062	1,766	95
W32-116	LG-116	1,551	95
W32-158	LG-158	0,876	95

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W32-111	LG-111	0,096	96
W32-157	LG-157	0,250	96
W32-028	LG-028	0,454	96
W32-023	LG-023	0,550	96
W32-070	LG-070	2,273	97
W32-071	LG-071	2,120	97
W32-072	LG-072	1,250	98
W32-006	LG-006	0,677	98
W32-007	LG-007	1,230	98

LINHA W₃₂

PÁGINAS 93 a 102

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W32-017	LG-017	1,009	99
W32-019	LG-019	1,080	99
W32-018	LG-018	1,572	99
W32-020	LG-020	1,116	99
W32-048	LG-048	0,967	100
W32-049	LG-049	0,908	100
W32-055	LG-055	0,758	100
W32-050	LG-050	0,811	100

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W32-052	LG-052	1,669	100
W32-053	LG-053	1,659	101
W32-054	LG-054	1,575	101
W32-057	BG-057	0,170	101
W32-059	LG-059	0,173	101
W32-068	LG-068	0,400	102
W32-085	LG-085	0,518	102
W32-083	LG-083	0,417	102
W32-091	LG-091	0,151	102

LINHA W₃₂PLUS

PÁGINAS 104 a 125

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W32-004*	LG-004	2,022	104
W32-1008*	-	2,510	104
W32-1024*	-	1,324	105
W32-1041	-	2,060	105
W32-1005*	LG-005	2,857	106
W32-1025*	-	1,223	106
W32-1009*	-	4,098	107
W32-1062*	-	1,962	107
W32-1118*	-	1,744	108
W32-1119*	-	1,851	108
W32-1120	-	1,176	108
W32-1066*	-	2,639	109
W32-1037*	-	0,924	109
W32-1123*	-	0,999	109
W32-1122	-	2,602	109
W32-1030*	-	2,550	110
W32-1032*	-	2,384	110
W32-1031*	-	2,267	111
W32-1033*	-	1,377	111
W32-1034*	-	0,616	112
W32-1035*	-	0,521	112
W32-1036*	-	0,319	112
W32-1078*	-	1,390	113
W32-1018*	-	1,571	113
W32-1060*	-	1,504	113
W32-1048*	-	0,960	114
W32-1049*	-	0,951	114
W32-1067*	-	1,818	114
W32-1052*	-	1,751	114
W32-022*	LG-022	1,051	115
W32-1029*	-	1,131	115
W32-1162*	LG-162	1,130	115
W32-1097*	-	1,440	116

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W32-1098*	-	1,668	116
W32-1114*	-	1,073	116
W32-1090	-	0,884	116
W32-1096*	-	1,572	117
W32-1094	-	1,820	117
W32-1095	-	1,017	117
W32-1142*	-	1,213	117
W32-1040*	-	0,662	118
W32-1026*	-	0,158	118
W32-1065*	-	0,161	118
W32-1077*	-	0,345	118
W32-027*	-	0,149	118
W32-074*	LG-074	0,751	119
W32-079*	LG-079	0,757	119
W32-075*	LG-075	1,141	119
W32-080*	LG-080	1,147	119
W32-076*	LG-076	0,765	120
W32-093*	LG-093	0,706	120
W32-1097*	-	0,445	120
W32-092*	LG-092	0,157	120
W32-056*	LG-056	0,736	121
W32-016*	LG-016	0,338	121
W32-1013*	-	1,028	121
W32-1014*	-	1,345	121
W32-1061*	-	0,967	122
W32-1010*	BG-009	0,174	122
W32-058*	LG-058	0,757	122
W32-042*	LG-042	1,150	122
W32-043*	LG-043	0,911	122
W32-1011*	-	1,024	123
W32-1012*	-	1,275	123
W32-1038	-	1,878	125
W32-1039	MN-030	1,954	125

LINHA W_{32SLIM} _____ PÁGINAS 128 a 133

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W32S-017	-	0,616	130
W32S-030*	-	0,802	130
W32S-023	-	1,064	130
W32S-031*	-	1,059	130
W32S-025*	-	0,822	131
W32S-028*	-	1,016	131
W32S-029*	-	1,471	131
W32S-019	-	1,438	131

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W32S-046	-	0,734	132
W32S-045*	-	0,928	132
W32S-043	-	1,054	132
W32S-044	-	0,771	132
W32S-026	-	0,224	132
W32S-027	-	0,237	132
W32S-012	-	0,267	132
W32S-004*	-	0,403	133

LINHA W_{INTEGRADA} _____ PÁGINAS 134 a 141

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
WIN-001	MN-001	1,120	134
WIN-002	-	0,828	134
WIN-049*	MN-049	1,480	134
WIN-023	MN-023	0,688	135
WIN-004	-	0,628	135
WIN-003	MN-003	0,827	135
WIN-014	-	0,542	136
WIN-015	MN-015	0,792	136
WIN-055	MN-055	0,431	136
WIN-009	-	0,771	136
WIN-017*	MN-027	1,651	137

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
WIN-018*	-	2,219	137
WIN-007	MN-007	0,713	137
WIN-012	-	0,954	137
WIN-008	-	1,282	138
WIN-013	-	1,243	138
WIN-016	-	1,335	138
WIN-011	-	0,725	139
WIN-006	-	0,900	139
WIN-039	MN-039	1,216	140
WIN-031	MN-031	1,335	140
WIN-032	MN-032	1,603	141

LINHA W_{42x45} _____ PÁGINAS 142 a 144

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W42-012	42-012	0,842	142
W42-014	42-014	0,374	142
W42-032	42-032	1,378	142
W42-006*	42-006	1,545	142

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
W42-176	42-176	1,955	143
W42-173	42-173	1,494	143
W42-999*	42-999	0,870	143
W42-037	BG-037	0,207	144

LINHA W_{GC} MINIMALISTA _____ PÁGINAS 145 a 146

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
WGC-001	-	1,269	145
WGC-002	-	1,089	145

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
WGC-005	-	1,450	145
WGC-004	-	0,504	146
WGC-003	-	1,315	146

LINHA W_{GC} _____ PÁGINAS 147 a 149

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
WGC-243	CG-083	1,403	147
WGC-244	CG-074	0,274	147
WGC-245	CG-072	1,247	147
WGC-247	CG-075	0,521	148
WGC-391	CG-021	0,329	148

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
WGC-327	CG-077	0,859	148
WGC-446	CHU-888	1,101	148
WGC-453	-	1,154	148
WGC-423	CG-179	1,214	149
WGC-421	CG-180	1,102	149
WGC-422	CG-182	1,219	149

LINHA WGRADIL

PÁGINAS 150 a 152

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
WGR-002*	-	1,118	150
WGR-007*	-	0,511	150
WGR-005*	-	1,191	150
WGR-013*	-	1,350	150
WGR-004*	-	1,484	151
WGR-006*	-	1,590	151

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
WGR-014*	-	1,592	151
WGR-010*	-	0,333	152
WGR-009*	-	0,636	152
WGR-011*	-	0,506	152
WGR-012*	-	0,685	152
WGR-015*	-	0,410	152
WGR-016*	-	0,405	152

FACHADA IMPACTO

PÁGINAS 153 a 159

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
WFA-200	FA-200	1,936	153
WFA-235	FA-235	1,275	153
WFA-515	FA-515	1,470	153
WFA-400	FA-400	1,516	154
WFA-260	FA-260	1,329	154
WFA-211	FA-211	0,995	154
WFA-223	FA-223	2,038	155
WFA-206*	FA-206	1,489	155
WFA-401*	FA-401	1,727	155
WFA-278*	FA-278	1,453	156
WFA-279*	FA-279	1,826	156
WFA-397*	FA-397	0,716	156

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
WFA-375	FA-375	2,454	157
WFA-204	FA-204	0,936	157
WFA-294	FA-294	0,788	157
WFA-376*	FA-376	2,295	158
WFA-228	FA-228	0,602	158
WFA-230	FA-230	0,801	158
WFA-205	FA-205	0,191	158
WFA-245	FA-245	0,766	158
WFA-265	FA-265	0,907	159
WFA-299	FA-299	0,221	159
WFA-237	FA-237	0,121	159
WFA-239A	FA-239A	0,636	159
WFA-238A	FA-238A	0,565	159

LINHA WGRID

PÁGINAS 160 a 176

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
WGRI-101*	-	0,973	160
WGRI-201*	-	0,916	160
WGRI-1000*	-	0,188	160
WGRI-607*	-	0,513	160
WGRI-301*	-	1,087	160
WGRI-709*	-	0,206	160
WGRI-102*	-	1,249	161
WGRI-202*	-	1,119	161
WGRI-501*	-	0,785	161
WGRI-302*	-	1,283	161
WGRI-710*	-	0,287	162
WGRI-103*	-	1,763	162
WGRI-502*	-	0,980	162
WGRI-203*	-	1,639	163
WGRI-303*	-	1,405	163
WGRI-711*	-	0,421	163
WGRI-104*	-	2,072	164
WGRI-503*	-	1,191	164
WGRI-204*	-	1,949	164
WGRI-304*	-	1,527	165
WGRI-712*	-	0,529	165

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
WGRI-205*	-	2,258	165
WGRI-105*	-	2,382	166
WGRI-504*	-	1,548	166
WGRI-206*	-	2,655	166
WGRI-106*	-	2,919	167
WGRI-505*	-	1,769	167
WGRI-305*	-	1,727	168
WGRI-713*	-	0,631	168
WGRI-207*	-	2,926	168
WGRI-107*	-	3,221	169
WGRI-506*	-	2,092	169
WGRI-306*	-	1,826	170
WGRI-714*	-	0,740	170
WGRI-401*	-	0,274	170
WGRI-402*	-	0,242	170
WGRI-403*	-	0,724	171
WGRI-804*	-	1,708	171
WGRI-805*	-	2,732	171
WGRI-806*	-	3,854	172
WGRI-803*	-	3,176	172
WGRI-802*	-	2,054	173

LINHA W_{GRID}

PÁGINAS 160 a 176

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
WGRI-801*	-	0,365	173
WGRI-809*	-	4,531	173
WGRI-807*	-	2,047	174
WGRI-808*	-	3,409	174

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
WGRI-812*	-	5,209	175
WGRI-810*	-	2,386	176
WGRI-811*	-	4,810	176

VENEZIANAS

PÁGINAS 177 a 178

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
VZ-024	VZ-024	0,230	177
US-280	US-280	0,230	177
VZ-051	VZ-051	0,282	177
US-294	US-294	0,282	177
VZ-006	VZ-006	0,321	177
US-285	US-285	0,321	177

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
US-320	-	0,308	178
VZ-064	-	0,308	178
VZ-060	VZ-060	0,399	178
VZ-005	VZ-005	0,370	178
VZ-486	-	0,277	178
VZ-1082	-	0,199	178

LAMBRIS

PÁGINAS 179 a 180

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
WLB-369	-	0,668	179
WLB-370	LB-050	0,624	179
WLB-440	STL-814	0,711	179

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
WLB-1183	LB-165	1,693	180
WLB-1092	-	0,688	180
WLB-1317	LB-066	0,924	180

RÉGUAS

PÁGINA 181

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
AT-0119	-	0,453	181
AT-0212	-	0,583	181
AT-0692	-	0,306	181

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
AT-0345	-	0,631	181
AT-0290	PC-002	0,454	181
AT-1219	PC-003	0,965	181

POLICARBONATO

PÁGINA 182

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
AT-0163	-	0,385	182
AT-0165	-	0,306	182
AT-0166	-	0,151	182

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
AT-0167	-	0,118	182
AT-0168	-	0,126	182
AT-0164	-	0,179	182

TELA MOSQUITEIRA

PÁGINA 183

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
AT-0053	-	0,296	183
AT-0144	-	0,248	183

PORTÃO

PÁGINA 184

CÓDIGO	REFERÊNCIA	PESO (kg/m)	PÁG.
AT-0371	-	0,685	184
AT-0372	-	0,824	184
AT-0387	-	0,390	184
AT-0388	-	0,577	184

CANTONEIRA DE ABAS IGUAIS

	PESO (kg/m)	PESO BARRA 6 metros	MILÍMETRO		POLEGADA	
			A	C	A	C
AT-0019	0,069	0,414	12,7	1,20	1/2"	1/16"
AT-0020	0,096	0,576	15,9	1,15	5/8"	1/16"
AT-0150	0,141	0,846	25,4	1,00	1"	1/32"
AT-0151	0,102	0,612	19,1	1,00	3/4"	1/32"
AT-0287	1,650	9,900	49,2	6,30	1.15/16"	1/4"
AT-0598	0,567	3,402	50,8	2,18	2"	3/32"
AT-0682	0,120	0,720	15,9	1,50	5/8"	1/16"
AT-1230*	0,430	2,578	25,4	3,17	1"	1/8"
AT-1231*	0,335	2,013	38,1	1,58	1.1/2"	1/16"
AT-1232*	0,659	3,952	38,1	3,17	1.1/2"	1/8"

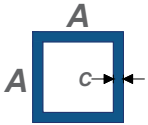
CANTONEIRA COM CANTO ARREDONDADO

	PESO (kg/m)	PESO BARRA 6 metros	MILÍMETRO		POLEGADA	
			A	C	A	C
AT-0735	0,096	0,576	15,9	1,00	5/8"	1/32"
AT-0736	0,141	0,846	25,4	1,01	1"	1/32"
AT-0737	0,105	0,630	19,1	1,00	3/4"	1/32"

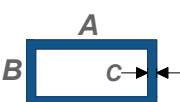
CANTONEIRA DE ABAS DESIGUAIS

	PESO (kg/m)	PESO BARRA 6 metros	MILÍMETRO			POLEGADA		
			A	B	C	A	B	C
AT-1102	0,277	1,662	31,75	19,0	2,00	1.1/4"	3/4"	3/32"
AT-1233*	0,659	3,952	50,8	25,4	3,17	2"	1"	1/8"

TUBO QUADRADO

	PESO (kg/m)	PESO BARRA 6 metros	MILÍMETRO		POLEGADA	
			A	C	A	C
AT-0017	0,614	3,684	50,8	1,20	2"	1/16"
AT-0206	0,787	4,722	50,8	1,40	2"	1/16"
AT-0392	0,205	1,230	19,0	1,00	3/4"	1/32"
AT-0688	1,916	11,496	100,0	1,80	4"	1/16"
AT-1106	0,625	3,750	38,1	1,50	1.1/2"	1/16"
AT-1132	0,243	1,458	19,0	1,20	3/4"	1/16"
AT-1234*	0,200	1,200	12,7	1,58	1/2"	1/16"
AT-1235*	0,428	2,570	25,4	1,58	1"	1/16"

TUBO RETANGULAR

	PESO (kg/m)	PESO BARRA 6 metros	MILÍMETRO			POLEGADA		
			A	B	C	A	B	C
AT-0018	1,442	8,652	101,6	50,6	1,70	4"	2"	1/16"
AT-0032	0,422	2,532	50,8	25,4	1,00	2"	1"	1/32"
AT-0207	1,192	7,152	101,6	50,8	1,40	4"	2"	1/16"
AT-0246	0,686	4,116	50,8	37,7	1,40	2"	1.15/32"	1/32"
AT-0288	0,205	1,230	25,4	12,7	1,00	1"	1/2"	1/32"
AT-0590	0,350	2,100	50,8	12,7	1,50	2"	1/2"	1/16"
AT-0611	0,176	1,056	20,0	13,0	1,00	25/32"	1/2"	1/32"
AT-0921	0,262	1,572	25,4	12,7	1,30	1"	1/2"	1/16"
AT-1020	0,632	3,792	55,0	40,0	1,20	2.3/16"	1.19/32"	1/16"
AT-1021	0,795	4,770	70,0	40,0	1,30	2.3/4"	1.9/16"	1/16"
AT-1105	0,950	5,700	76,2	38,1	1,50	3"	1.1/2"	1/16"

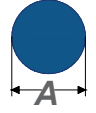
TUBO REDONDO

	PESO (kg/m)	PESO BARRA 6 metros	MILÍMETRO			POLEGADA		
			A	B	C	A	B	C
AT-0077	1,712	10,272	63,5	57,2	3,18	2.1/2"	2.1/4"	1/8"
AT-0145	0,246	1,475	14,3	13,3	1,00	9/16"	17/32"	1/32"
AT-0146	0,146	0,876	19,0	17,2	0,90	3/4"	11/16"	1/32"
AT-0390	0,133	0,798	15,9	13,9	1,00	5/8"	9/16"	1/32"
AT-0441	0,161	0,966	19,1	17,1	1,00	3/4"	7/10"	1/32"
AT-0666	0,136	0,816	22,5	21,1	0,70	7/8"	13/16"	1/32"
AT-0738	0,185	1,110	25,2	23,5	0,90	1"	1.15/16"	1/32"
AT-1012	0,072	0,432	14,1	12,9	0,60	9/16"	1/2"	1/32"

TUBO REDONDO ESTRIADO

	PESO (kg/m)	PESO BARRA 6 metros	MILÍMETRO			POLEGADA		
			A	B	C	A	B	C
AT-0162	0,341	2,046	31,0	28,0	3,00	1.7/32"	1.1/32"	1/8"
AT-0665	0,119	0,714	22,4	20,7	0,85	7/8"	13/16"	1/32"

VERGALHÃO REDONDO

	PESO (kg/m)	PESO BARRA 6 metros	MILÍMETRO	POLEGADA
			A	A
AT-0186	0,085	0,510	9,5	3/8"
AT-0189	0,227	1,362	25,4	1"
AT-0217	0,114	0,684	12,7	1/2"

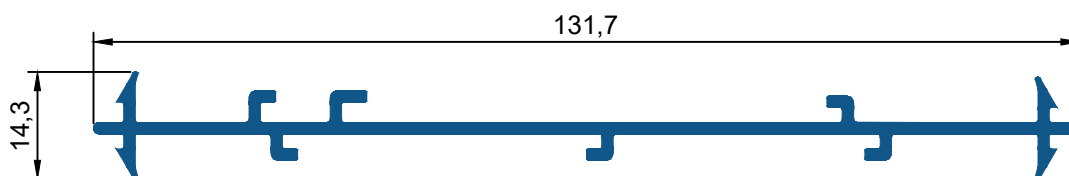
VERGALHÃO QUADRADO

 A A	PESO (kg/m)	PESO BARRA 6 metros	MILÍMETRO	POLEGADA
			A	A
AT-0052	1,894	11,364	25,8	1"
AT-0216	0,458	2,748	12,7	1/2"

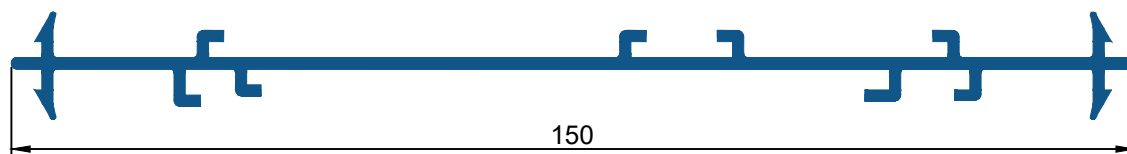
BARRA CHATA

 C A	PESO (kg/m)	PESO BARRA 6 metros	MILÍMETRO		POLEGADA	
			A	C	A	C
AT-0156	0,573	3,438	63,5	3,20	2.1/2"	1/8"
AT-0158	0,115	0,690	12,7	3,20	1/2"	1/8"
AT-0190	1,365	8,190	76,2	6,30	3"	1/4"
AT-0214	0,282	1,692	31,0	3,20	1.7/32"	1/8"
AT-0215	0,740	4,440	65,1	4,00	2.9/16"	5/32"
AT-0285	5,492	32,952	101,6	19,00	4"	3/4"
AT-0286	0,462	2,772	50,8	3,20	2"	1/8"
AT-0603	0,401	2,406	50,8	2,80	2"	1/8"
AT-1101	0,230	1,380	25,4	3,18	1"	1/8"
AT-1115	0,398	2,388	50,8	2,80	2"	1/9"
AT-1177	1,374	8,244	50,8	9,52	2"	3/8"
AT-1201	0,258	1,548	19,1	4,76	3/4"	3/16"

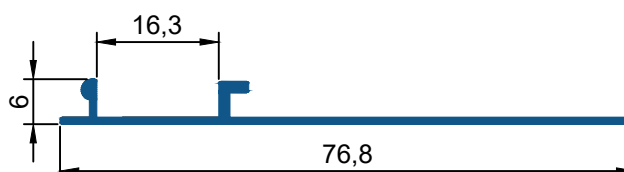
CONTRAMARCO



CM-093
0,780 kg/m

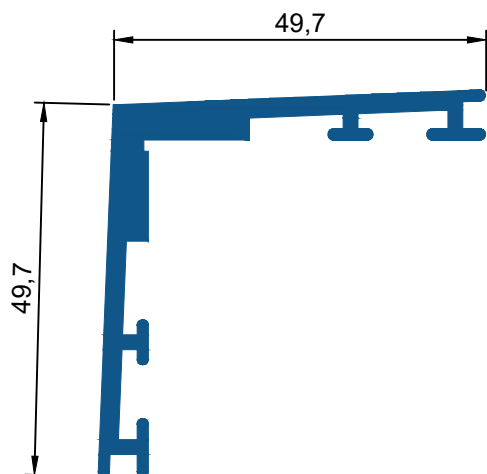


*** CM-094**
0,951 kg/m

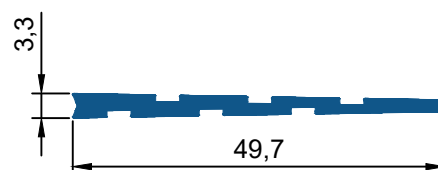


CM-034
0,236 kg/m

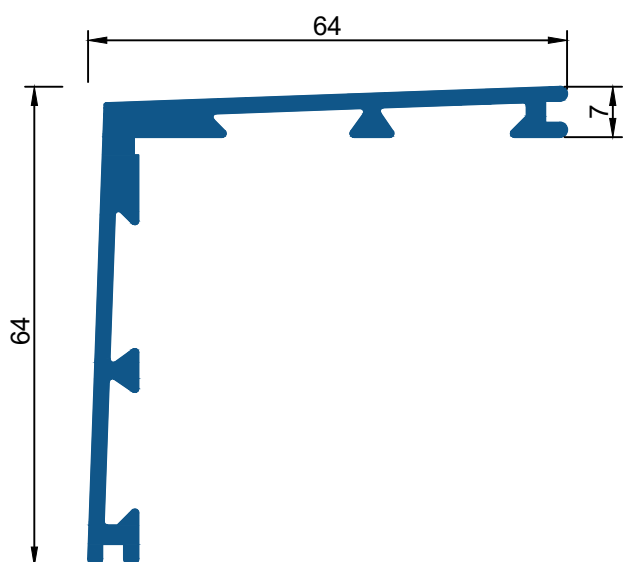
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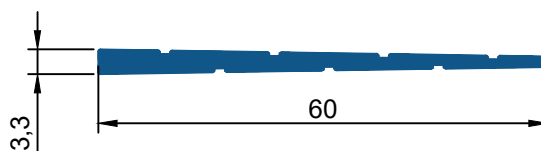
CL-006
1,112 kg/m



CL-011
0,319 kg/m

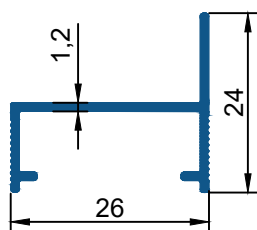


CL-044
1,093 kg/m

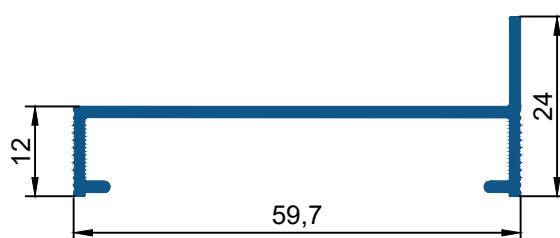


CL-010
0,385 kg/m

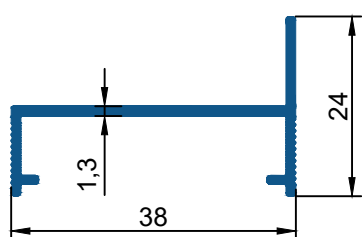
CONTRAMARCO



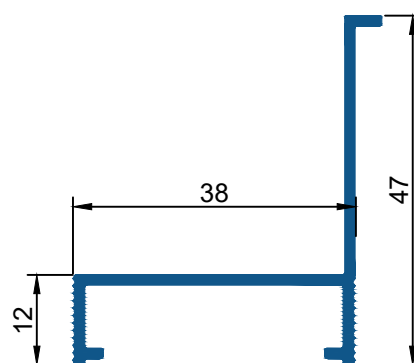
CM-200
0,198 kg/m



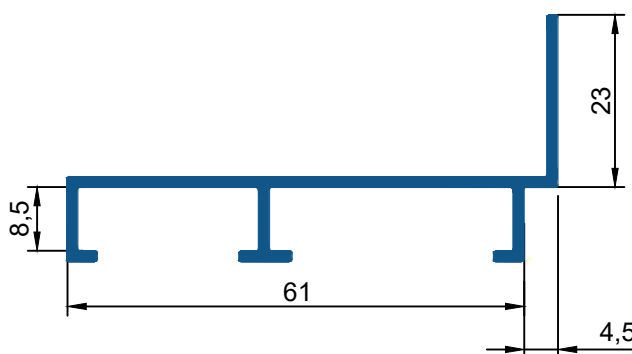
CM-174
0,411 kg/m



CM-060
0,276 kg/m

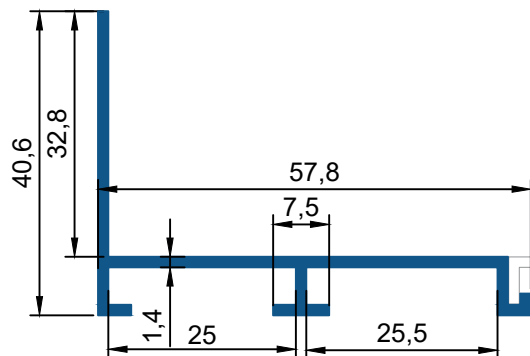


CM-098
0,392 kg/m

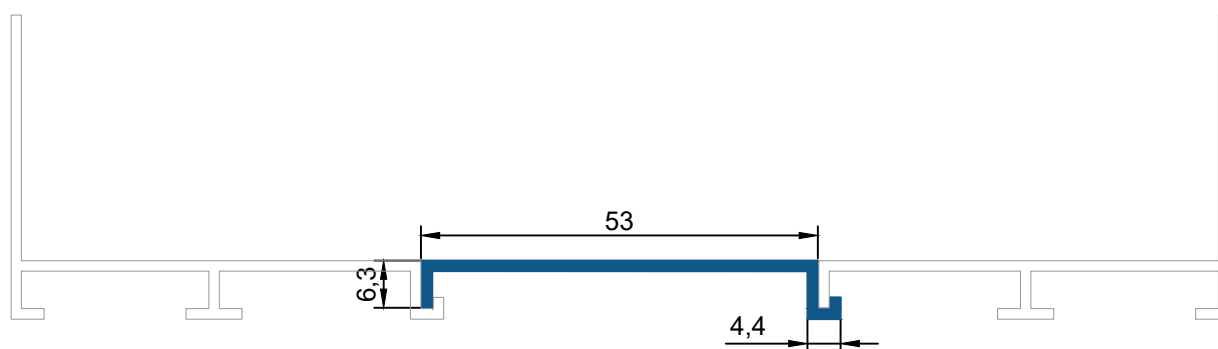


CM-129
0,489 kg/m

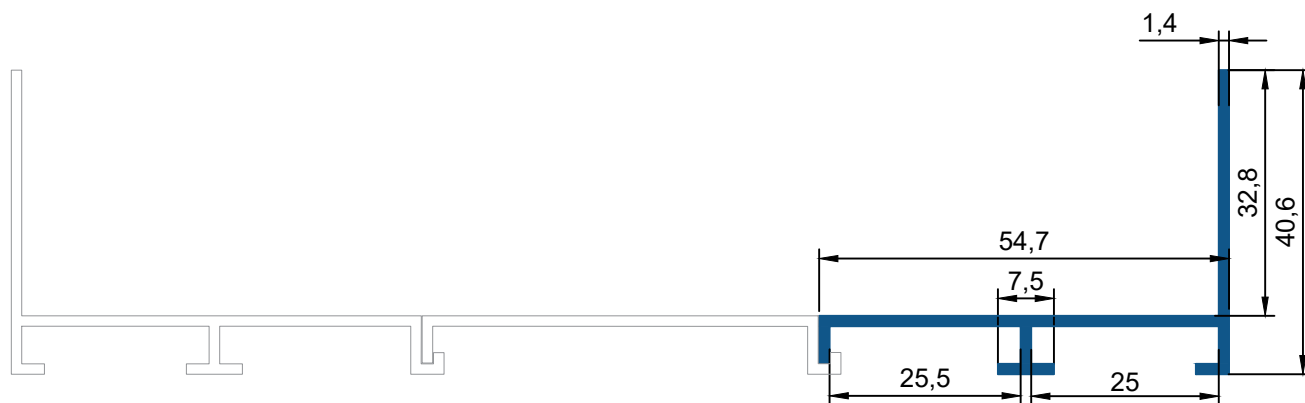
CONTRAMARCO



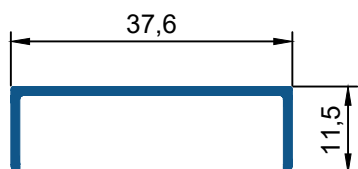
CM-095
0,477 kg/m



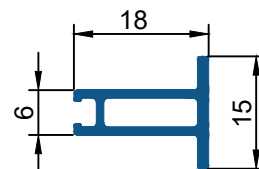
CM-101
0,275 kg/m



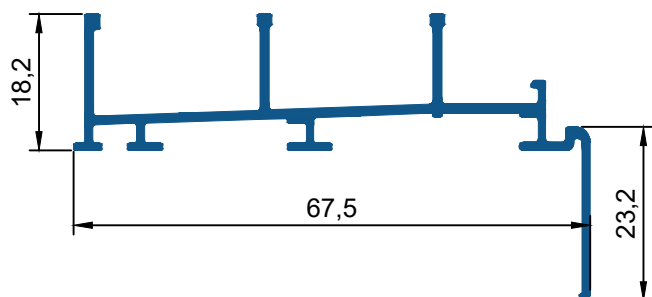
CM-097
0,453 kg/m



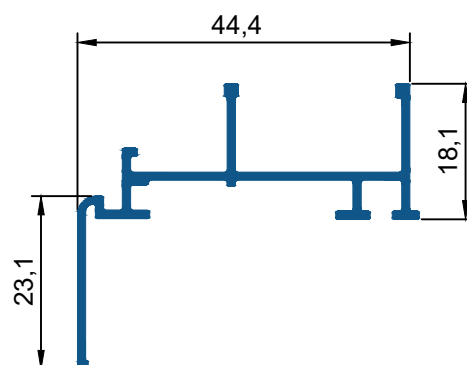
W16-483
0,197 kg/m



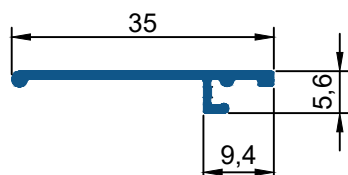
W16-490
0,180 kg/m



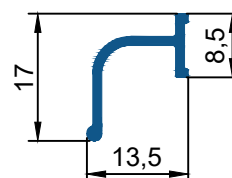
W16-533
0,560 kg/m



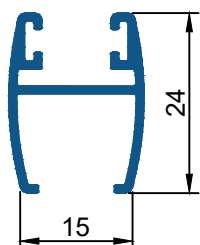
W16-485
0,388 kg/m



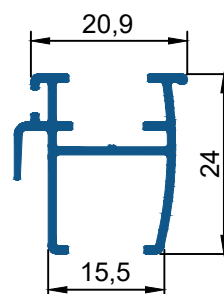
W16-491
0,144 kg/m



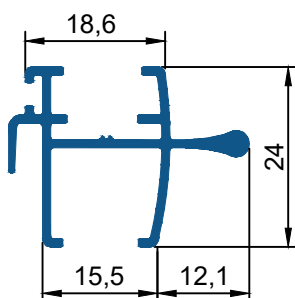
W16-535
0,111 kg/m



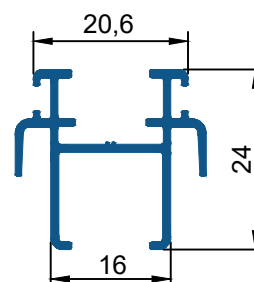
W16-480
0,266 kg/m



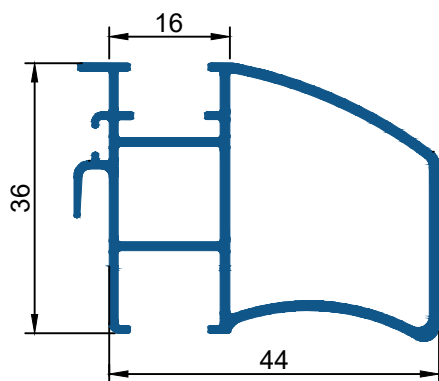
W16-481
0,285 kg/m



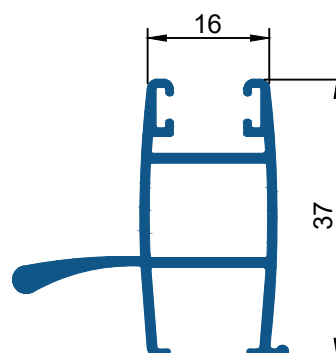
W16-482
0,334 kg/m



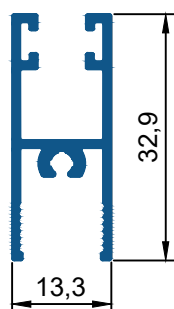
W16-534
0,302 kg/m



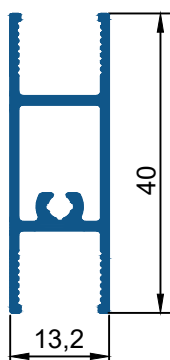
W16-562
0,738 kg/m



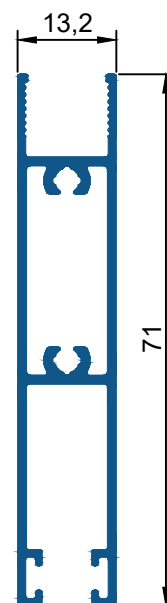
W16-563
0,517 kg/m



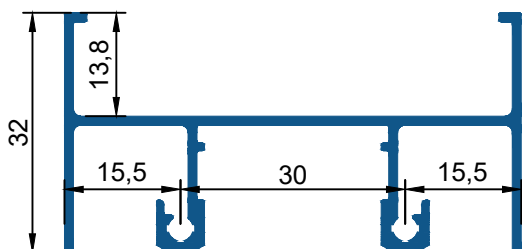
W16-487
0,319 kg/m



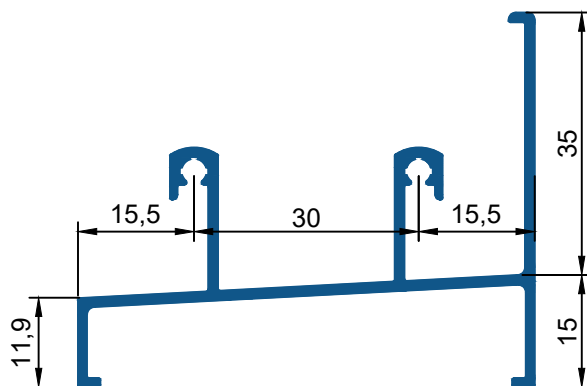
W16-561
0,357 kg/m



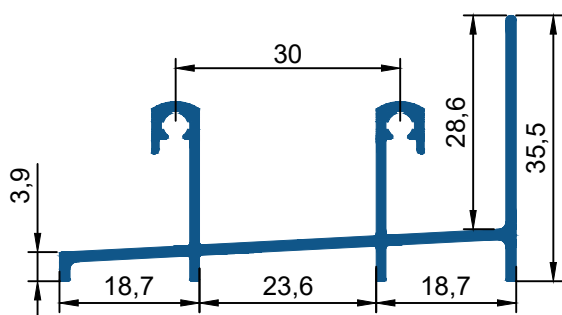
W16-560
0,652 kg/m



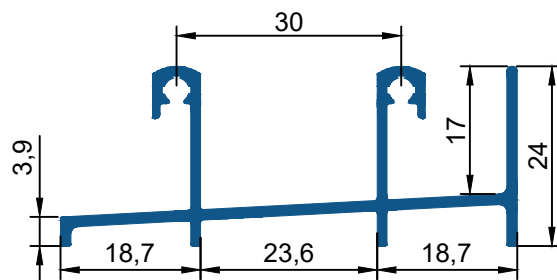
W20-266
0,657 kg/m



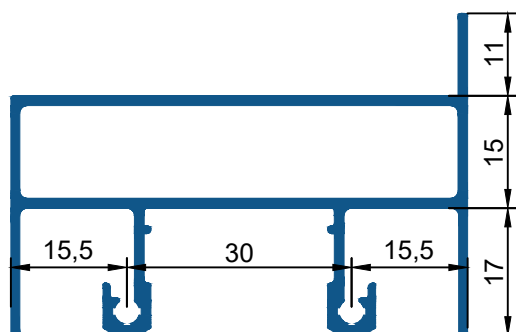
W20-265
0,684 kg/m



*** W20-284**
0,645 kg/m

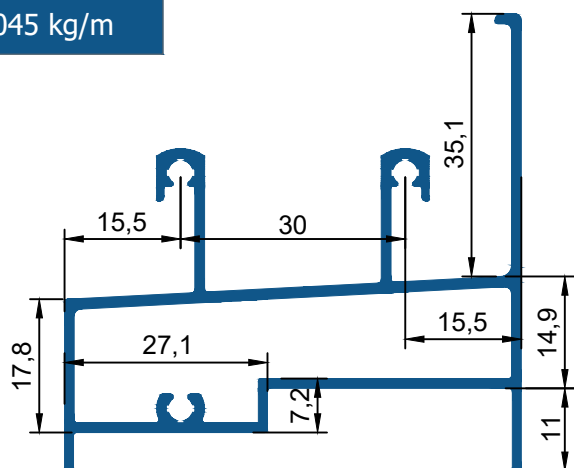


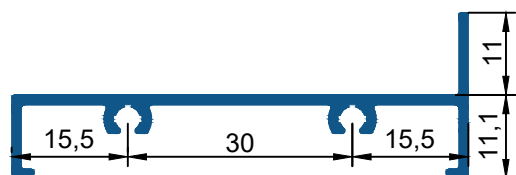
*** W20-285**
0,599 kg/m



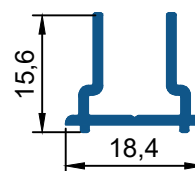
*** W20-286**
0,928 kg/m

W20-287
1,045 kg/m

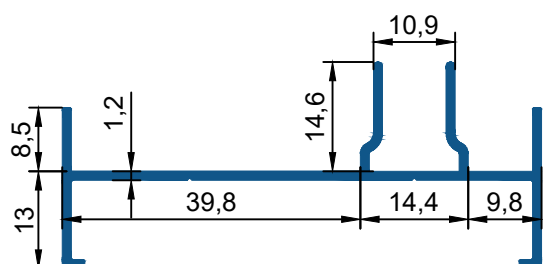




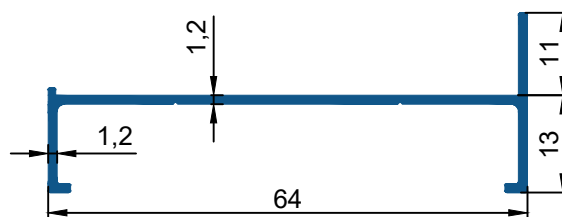
W20-592
0,422 kg/m



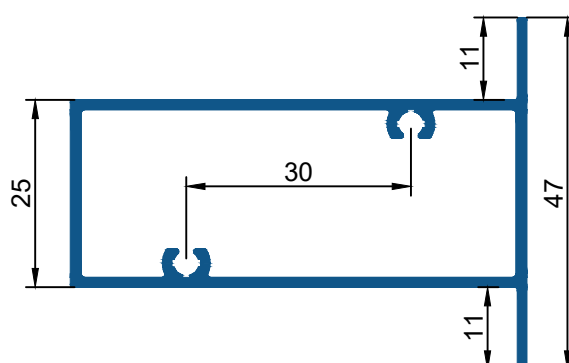
W20-283
0,170 kg/m



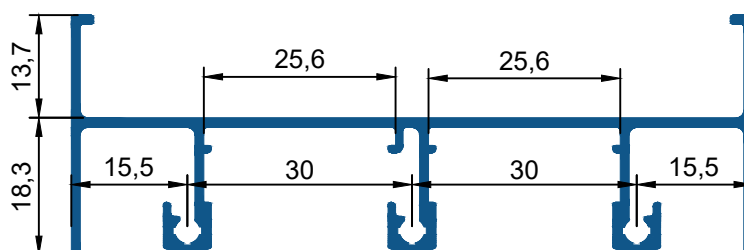
W20-267
0,473 kg/m



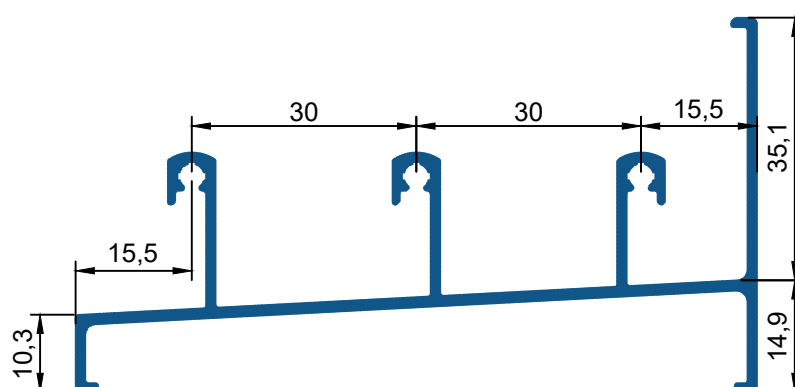
W20-282
0,352 kg/m



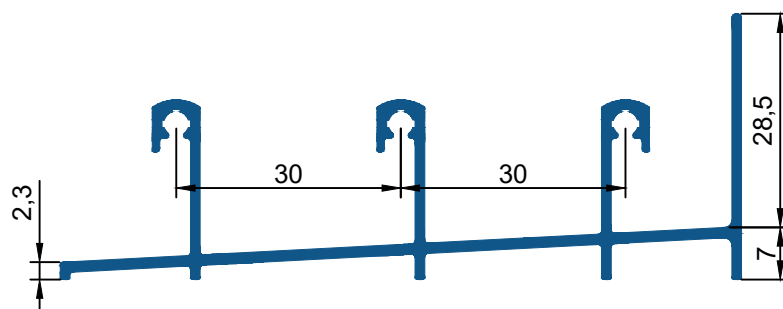
W20-288
0,797 kg/m



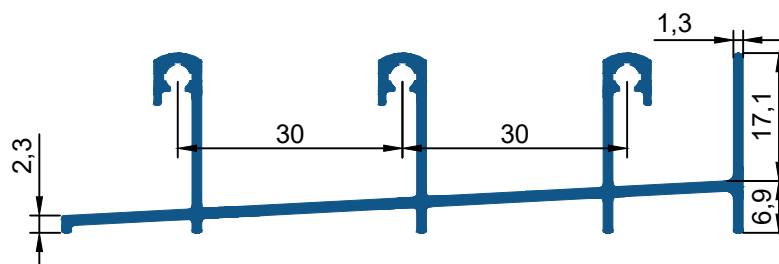
W20-293
0,908 kg/m



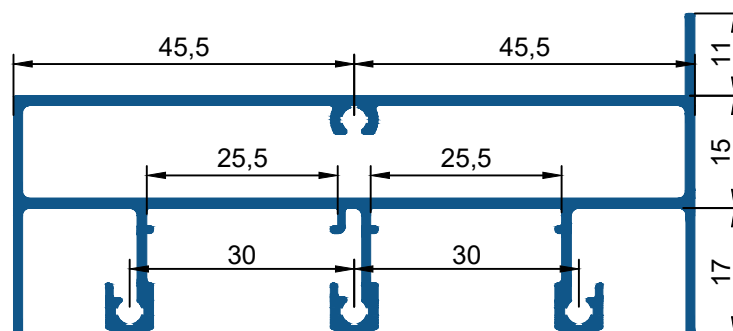
W20-295
0,946 kg/m



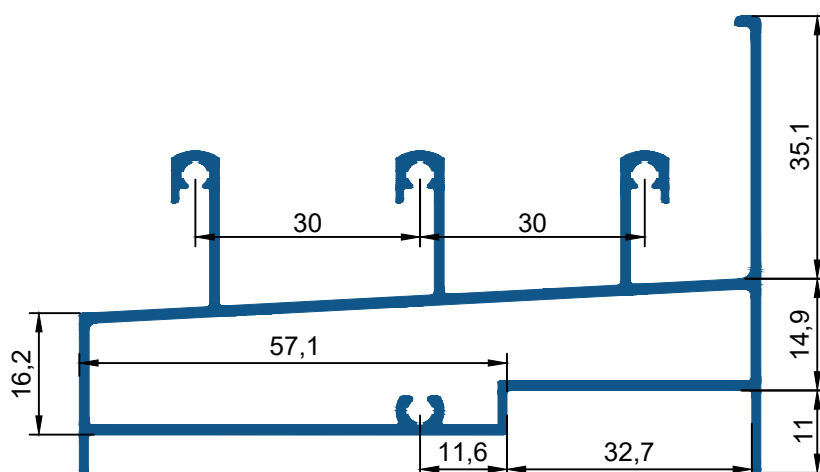
W20-303
0,878 kg/m



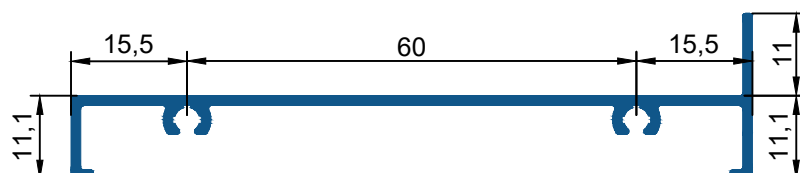
*** W20-304**
0,835 kg/m



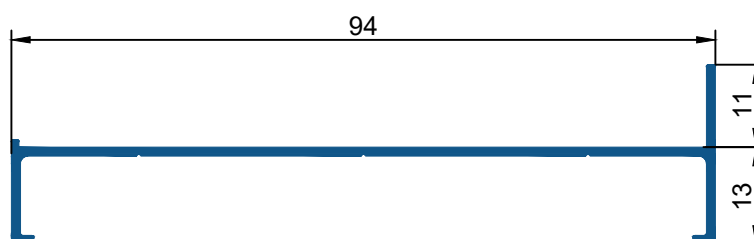
*** W20-301**
1,310 kg/m



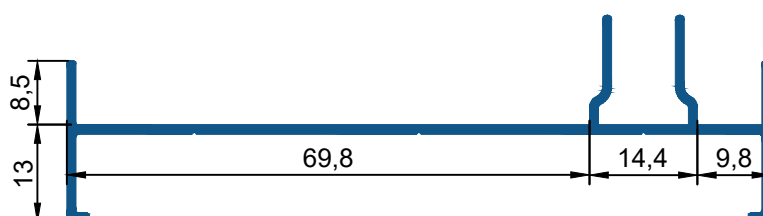
*** W20-302**
1,390 kg/m



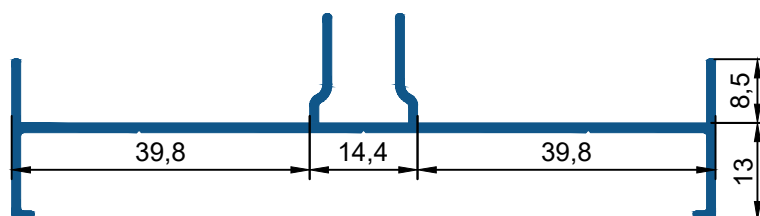
W20-300
0,532 kg/m



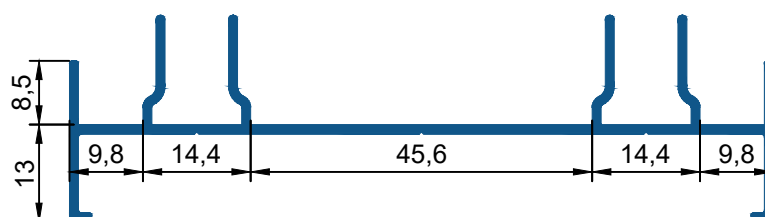
W20-296
0,455 kg/m



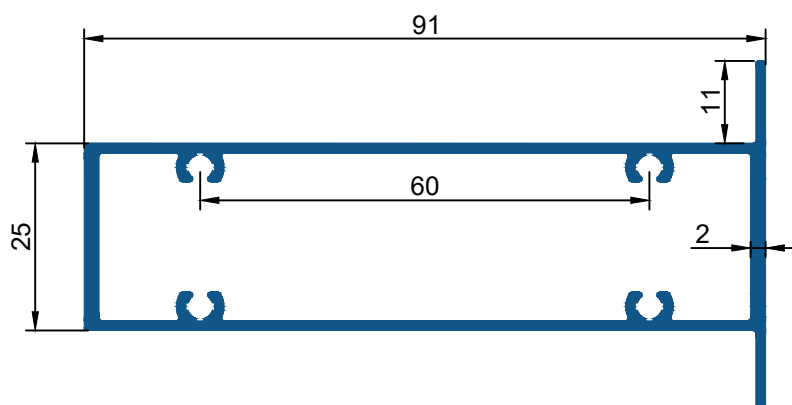
W20-297
0,600 kg/m



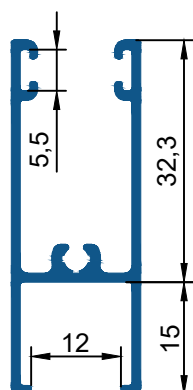
*** W20-298**
0,600 kg/m



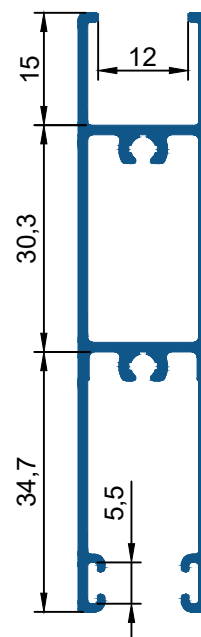
*** W20-299**
0,704 kg/m



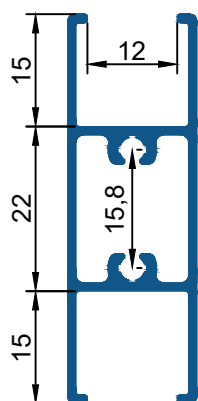
*** W20-305**
1,155 kg/m



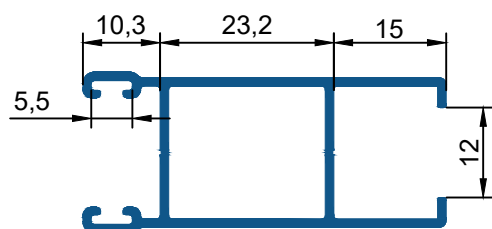
W20-268
0,465 kg/m



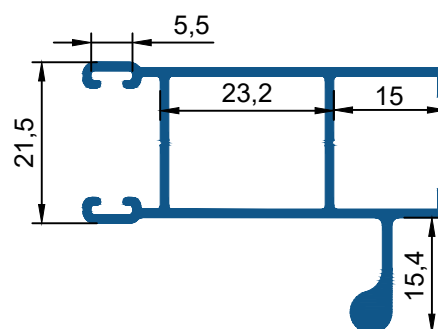
*** W20-281**
0,832 kg/m



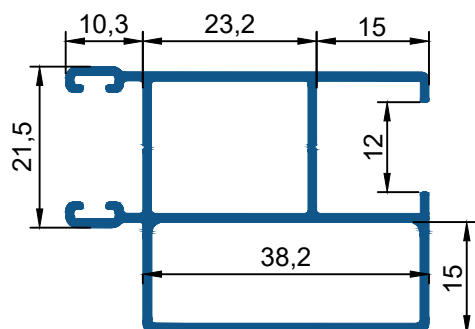
*** W20-280**
0,540 kg/m



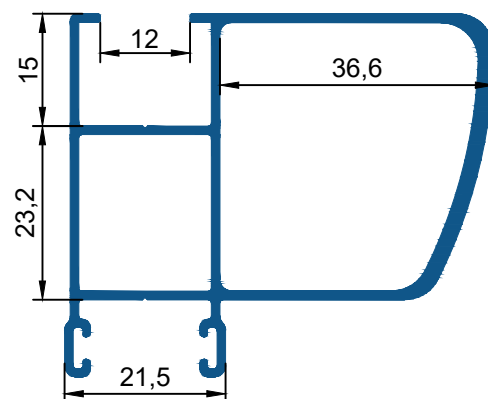
W20-270
0,485 kg/m



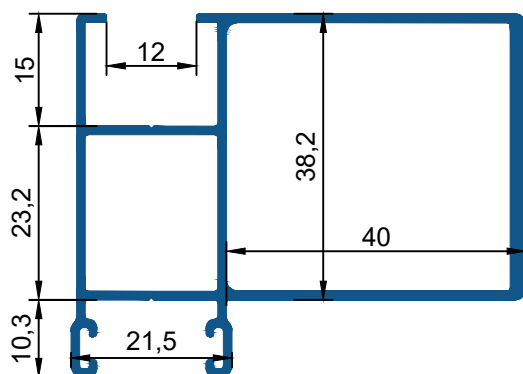
*** W20-271**
0,602 kg/m



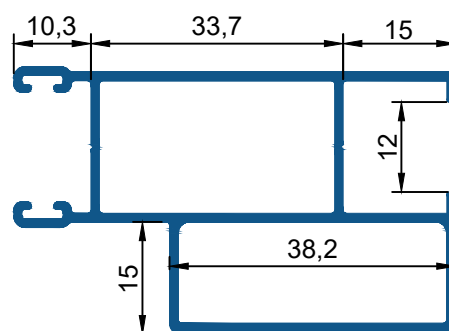
*** W20-272**
0,741 kg/m



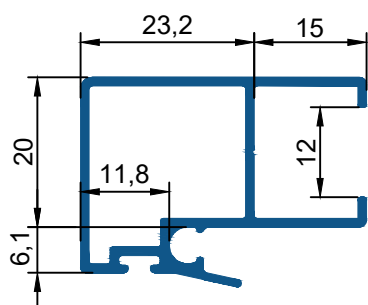
*** W20-273**
0,931 kg/m



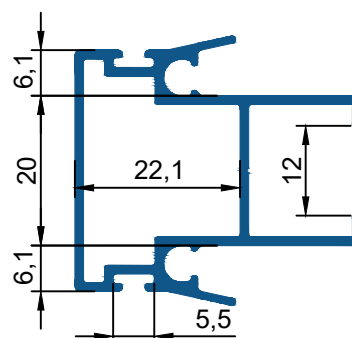
*** W20-277**
0,973 kg/m



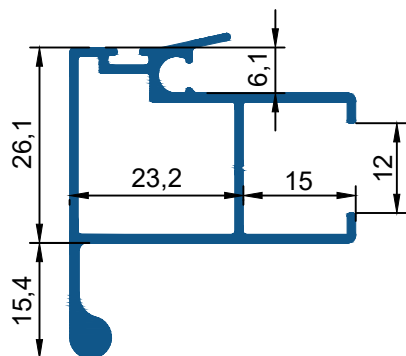
*** W20-279**
0,810 kg/m



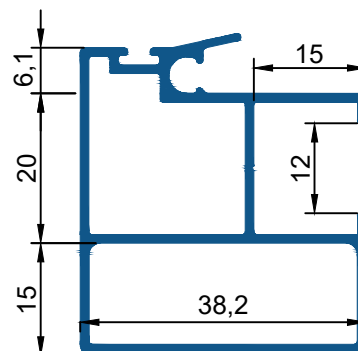
*** W20-269**
0,483 kg/m



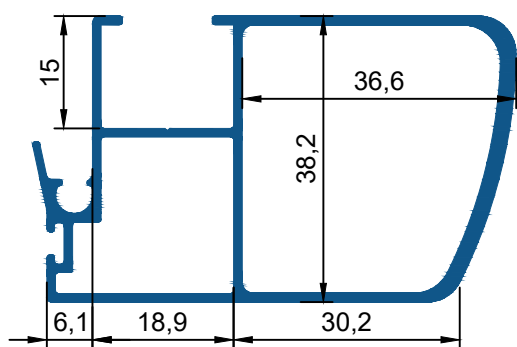
*** W20-276**
0,586 kg/m



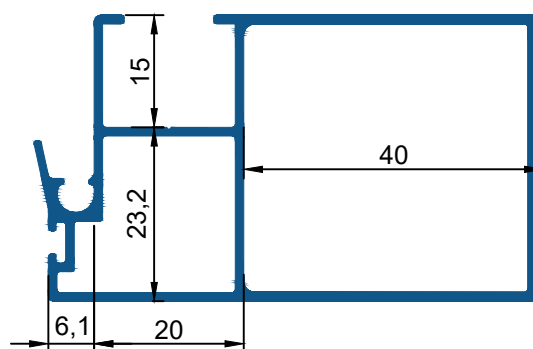
W20-274
0,601 kg/m



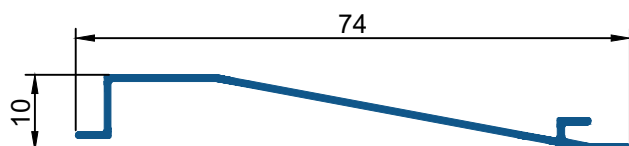
W20-294
0,740 kg/m



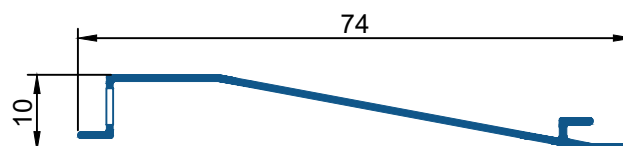
W20-275
0,931 kg/m



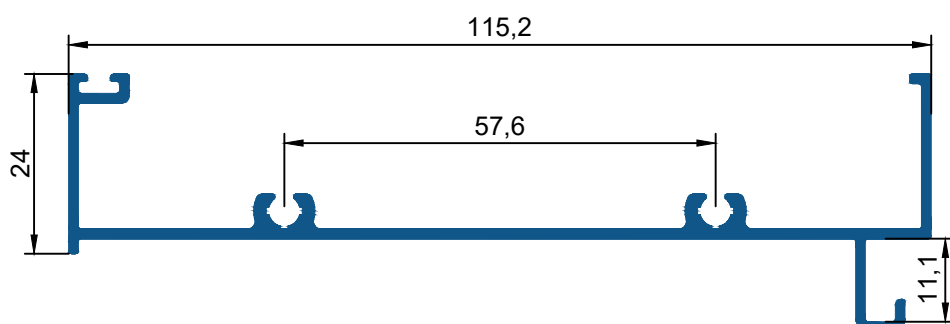
W20-278
0,972 kg/m



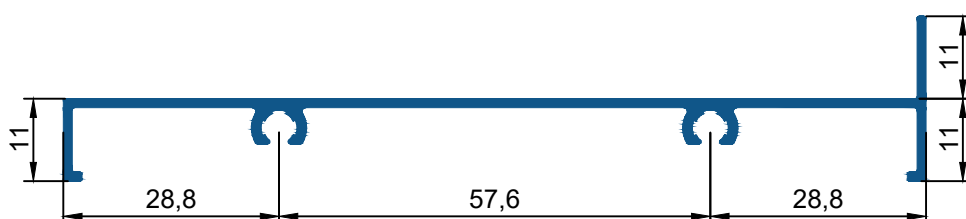
VZ-024
0,230 kg/m



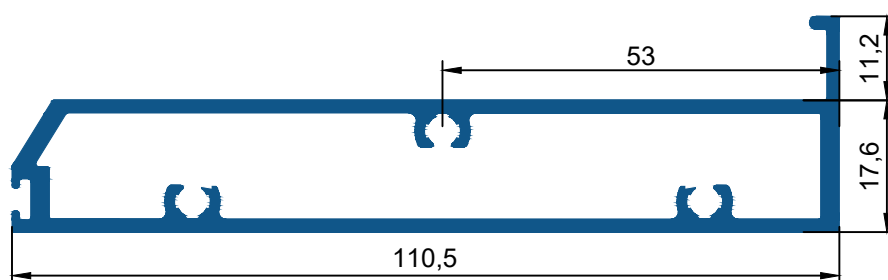
US-280
0,230 kg/m



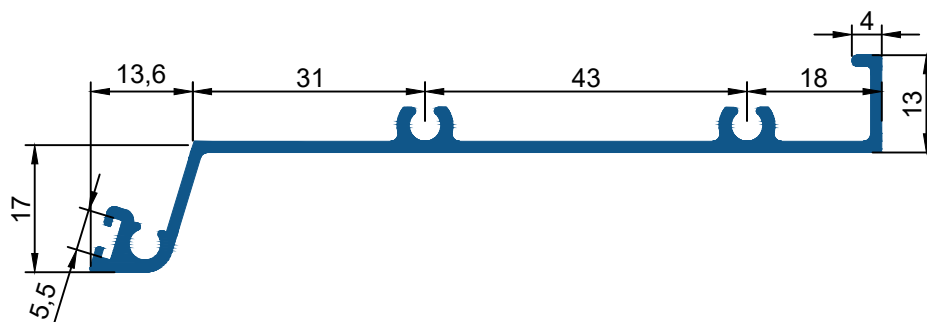
WIN-002
0,823 kg/m



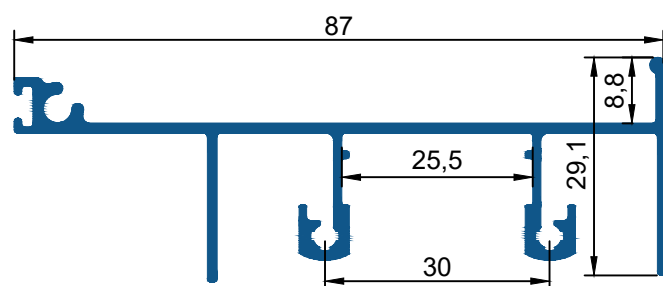
*** W20-291**
0,605 kg/m



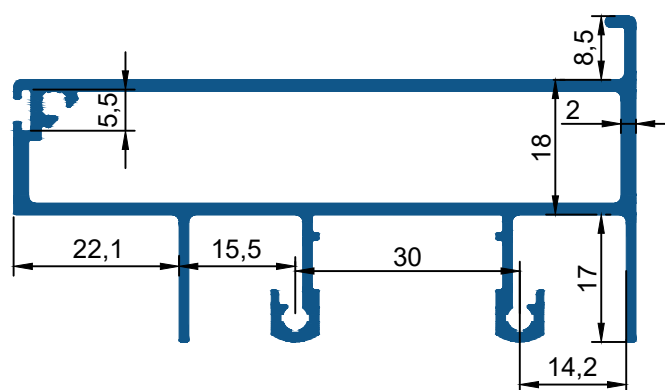
*** WIN-049**
1,480 kg/m



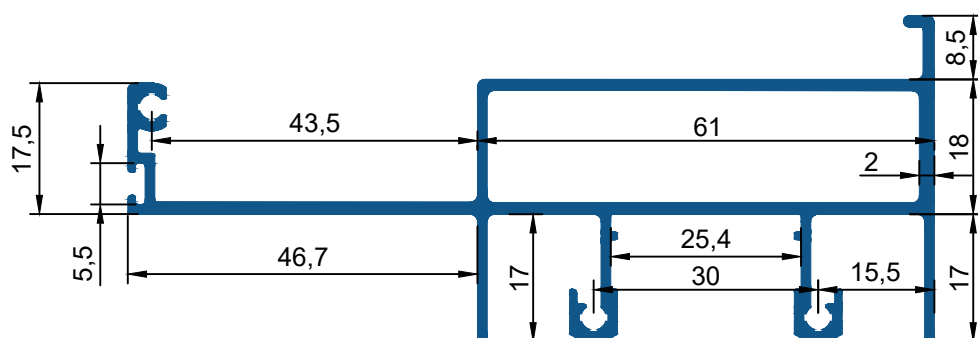
WIN-023
0,688 kg/m



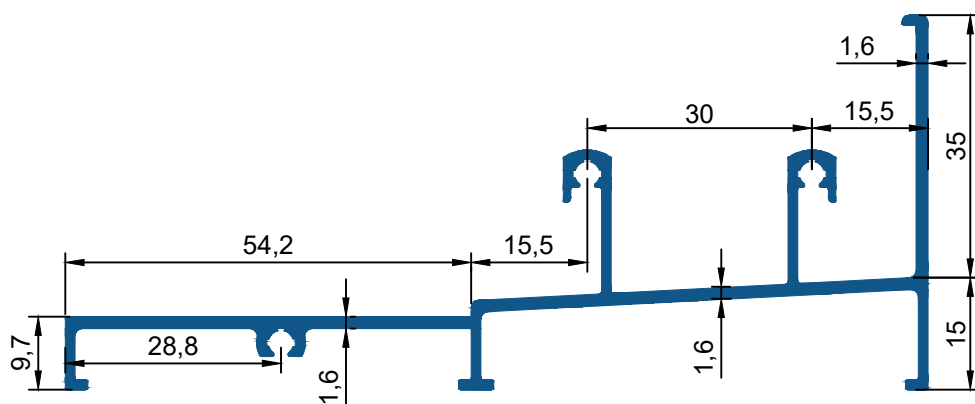
W20-292
0,791 kg/m



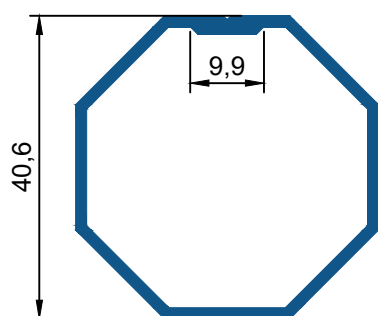
*** W20-289**
1,306 kg/m



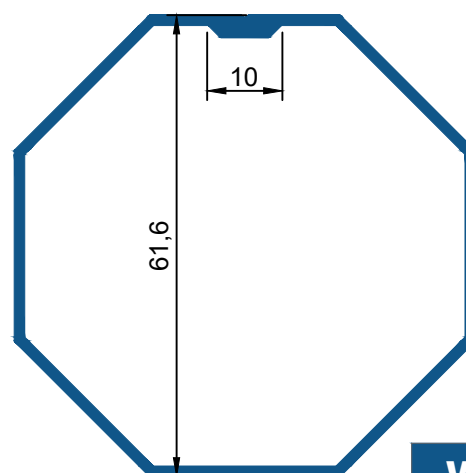
*** W20-306**
1,387 kg/m



W20-290
1,098 kg/m

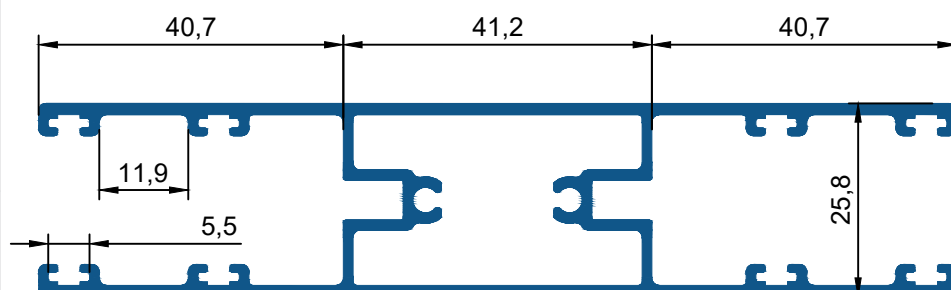
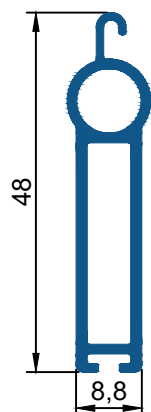


WIN-014
0,542 kg/m

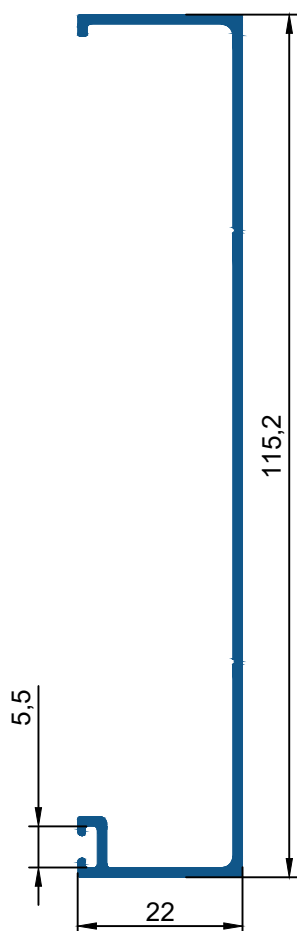


WIN-015
0,792 kg/m

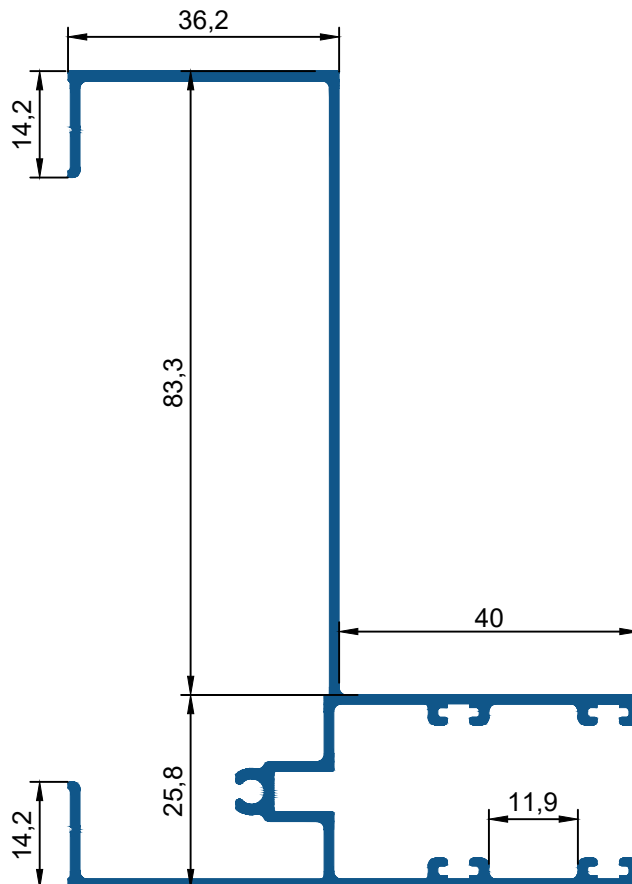
WIN-055
0,431 kg/m



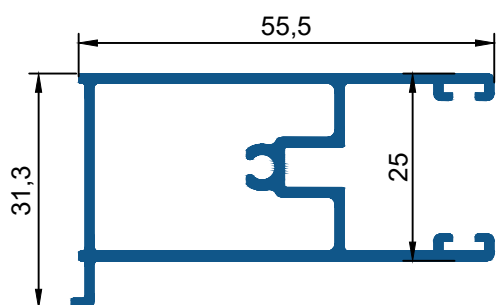
WIN-017
1,651 kg/m



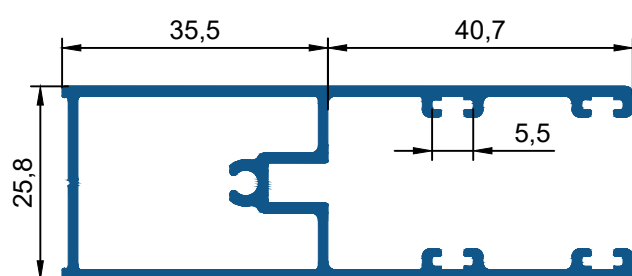
WIN-004
0,628 kg/m



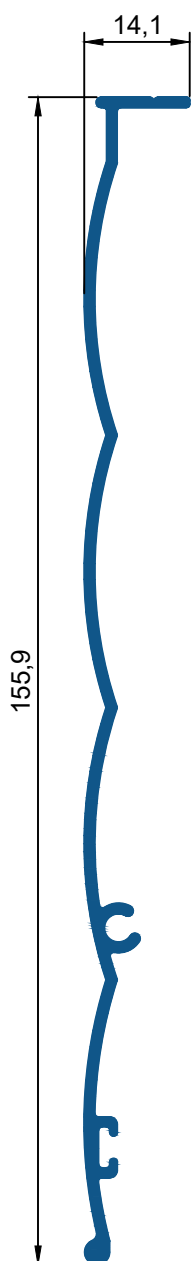
WIN-013
1,243 kg/m



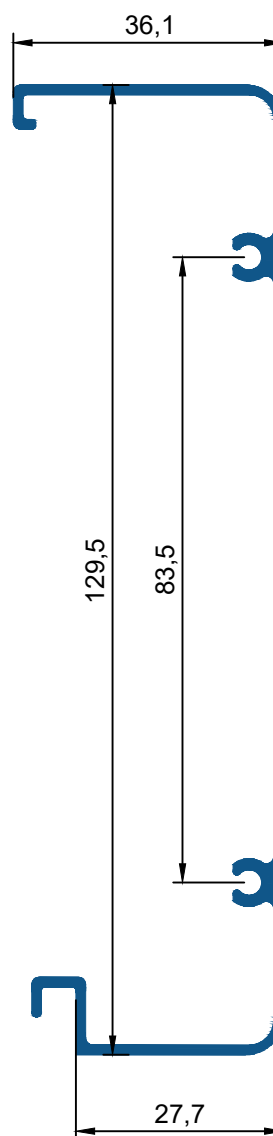
WIN-007
0,713 kg/m



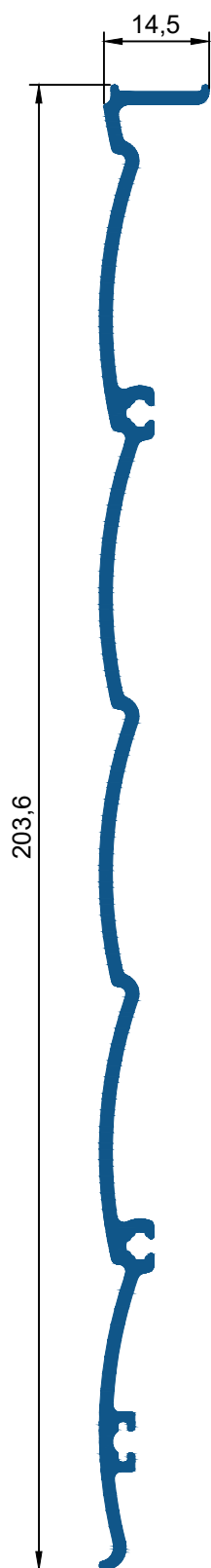
WIN-012
0,954 kg/m



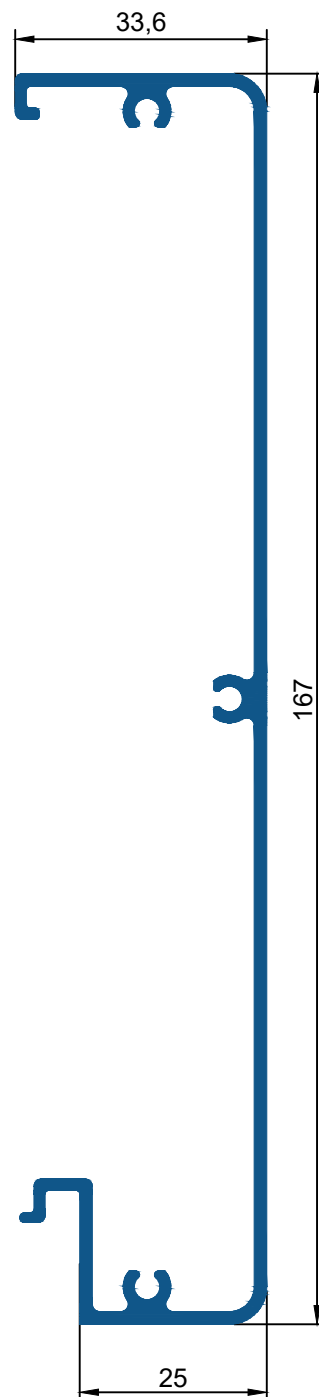
WIN-011
0,725 kg/m



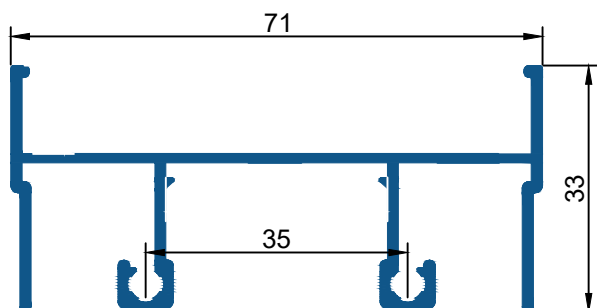
WIN-006
0,900 kg/m



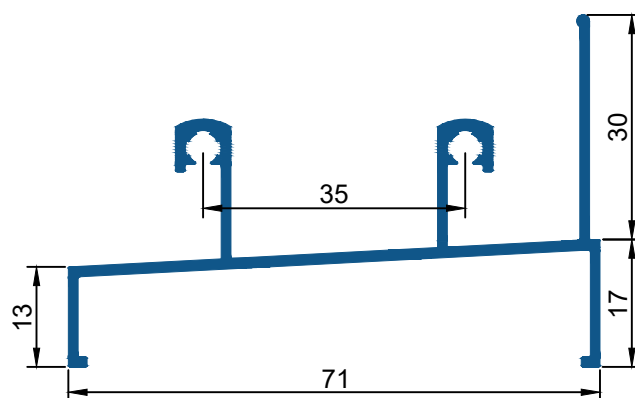
WIN-039
1,216 kg/m



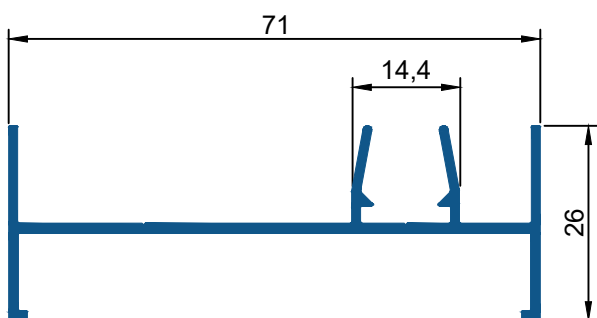
WIN-031
1,335 kg/m



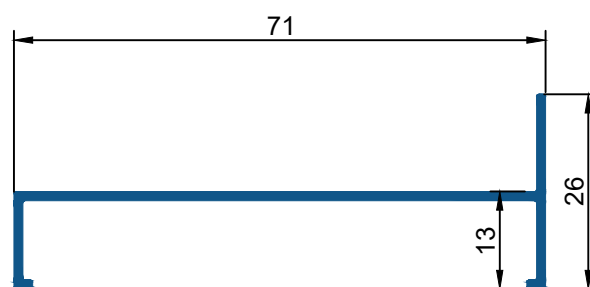
W25-001
0,769 kg/m



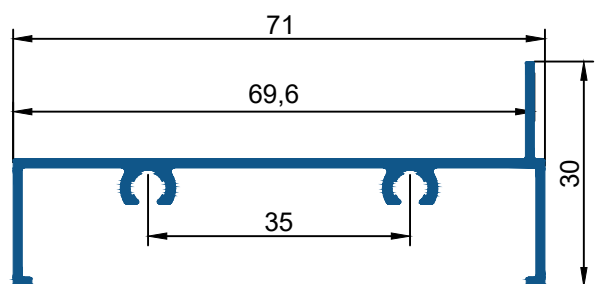
W25-002
0,715 kg/m



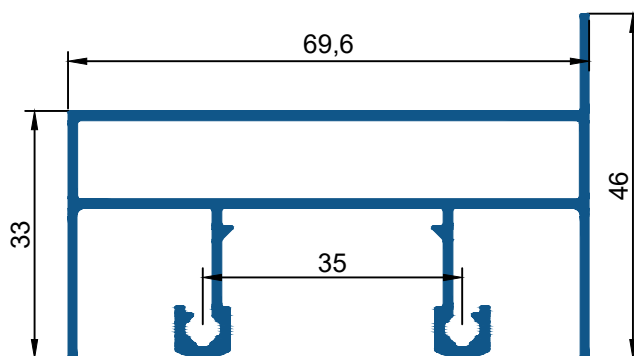
W25-003
0,523 kg/m



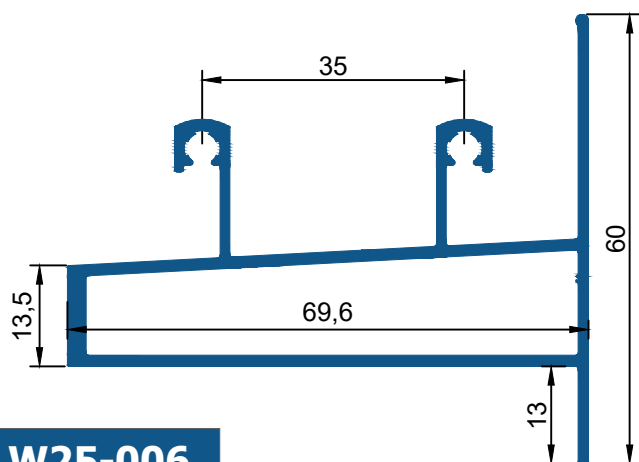
W25-007
0,383 kg/m



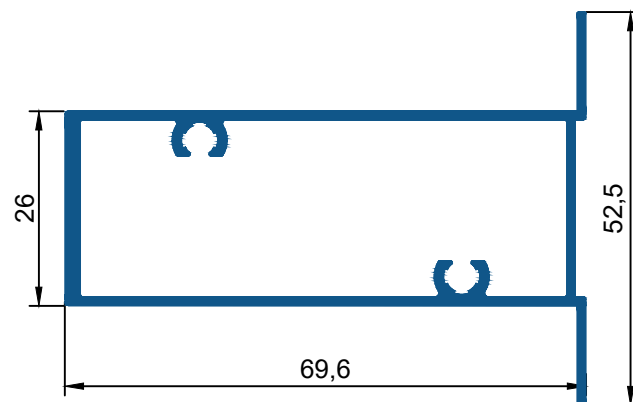
W25-004
0,504 kg/m



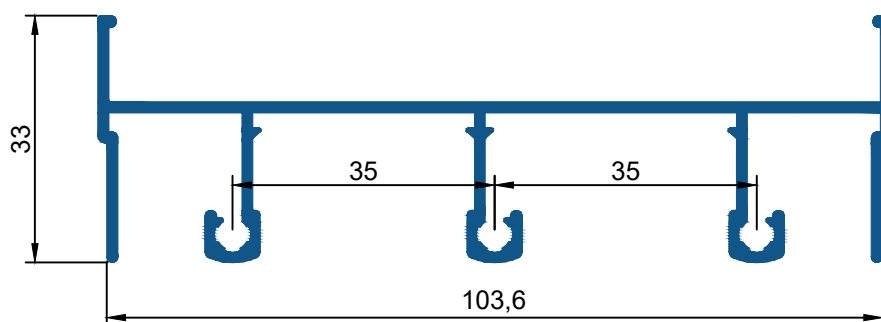
W25-005
1,108 kg/m



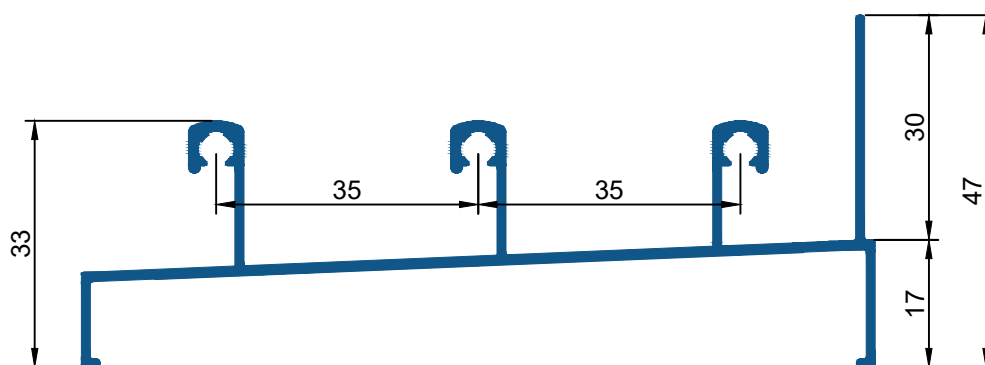
W25-006
1,086 kg/m



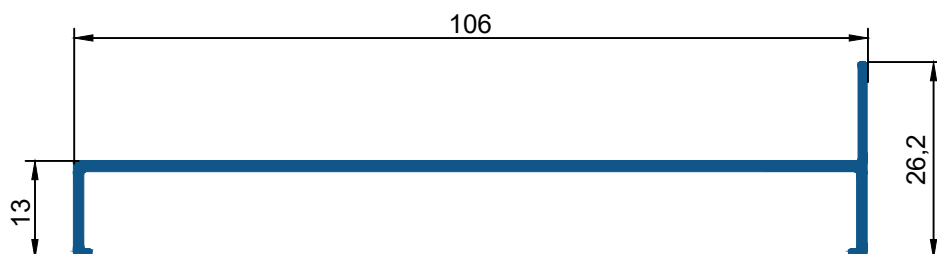
W25-009
0,908 kg/m



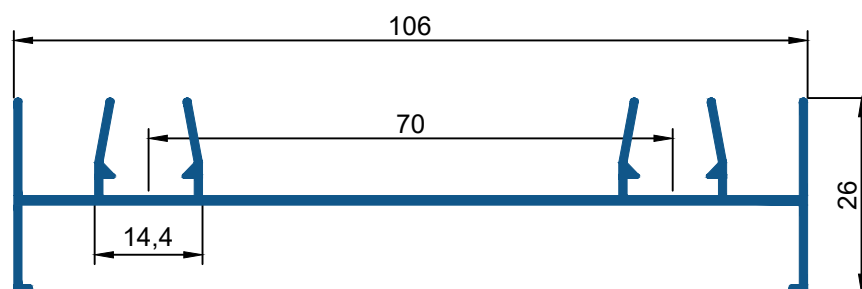
W25-010
1,103 kg/m



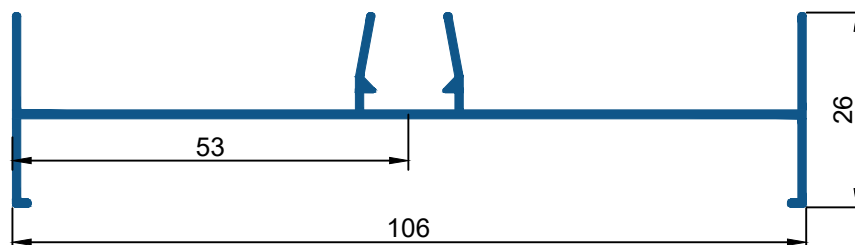
W25-011
0,971 kg/m



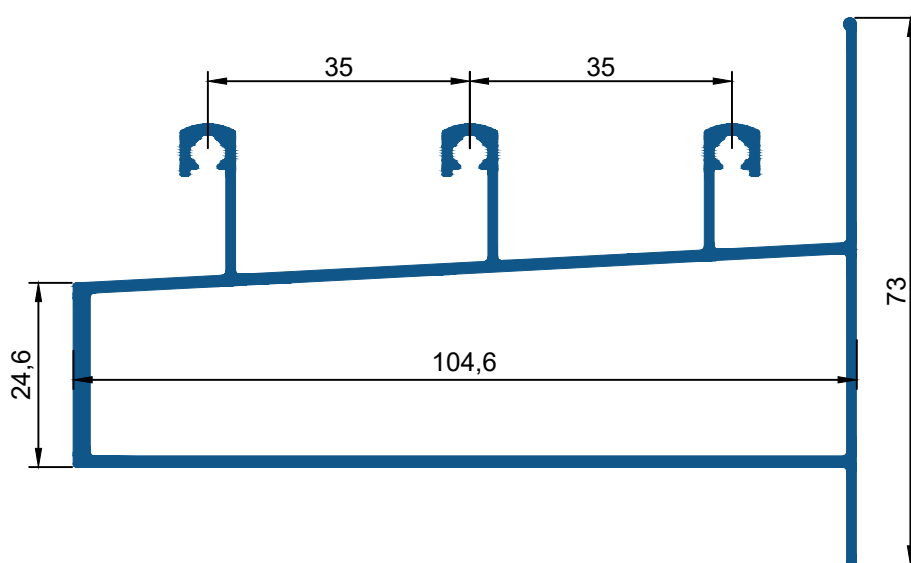
W25-012
0,554 kg/m



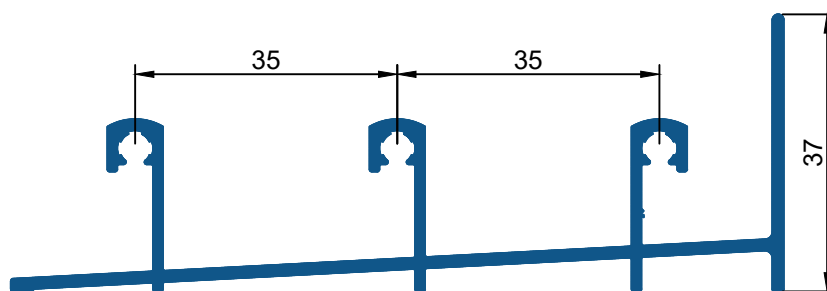
W25-013
0,772 kg/m



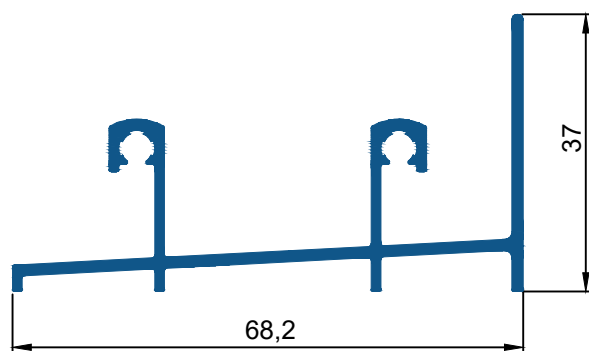
W25-014
0,677 kg/m



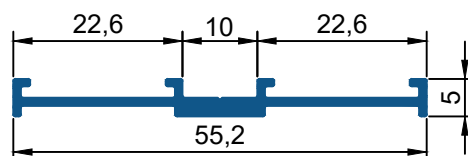
W25-224
1,668 kg/m



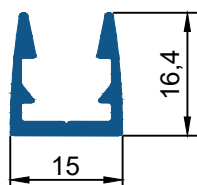
W25-230
0,954 kg/m



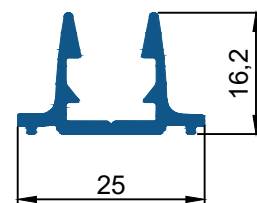
W25-228
0,688 kg/m



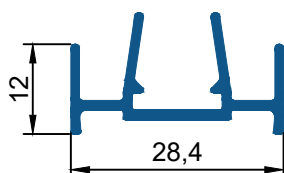
W25-540
0,271 kg/m



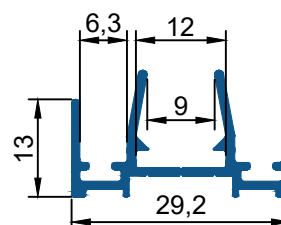
W25-494
0,227 kg/m



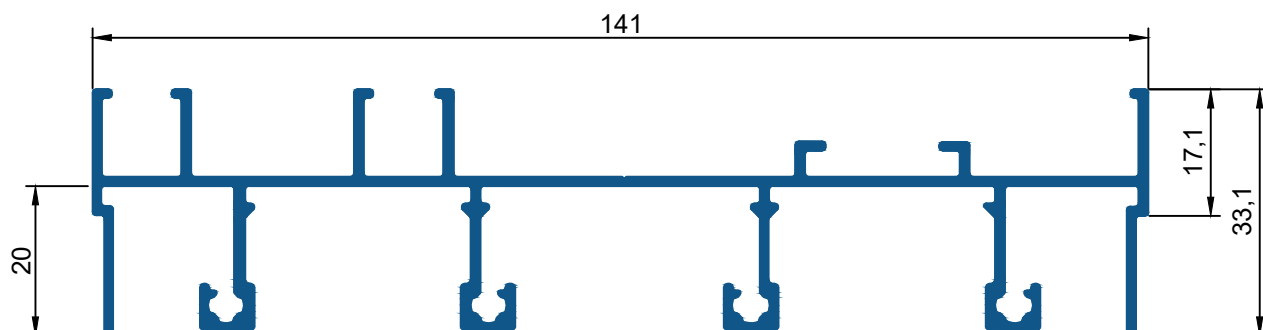
W25-537
0,275 kg/m



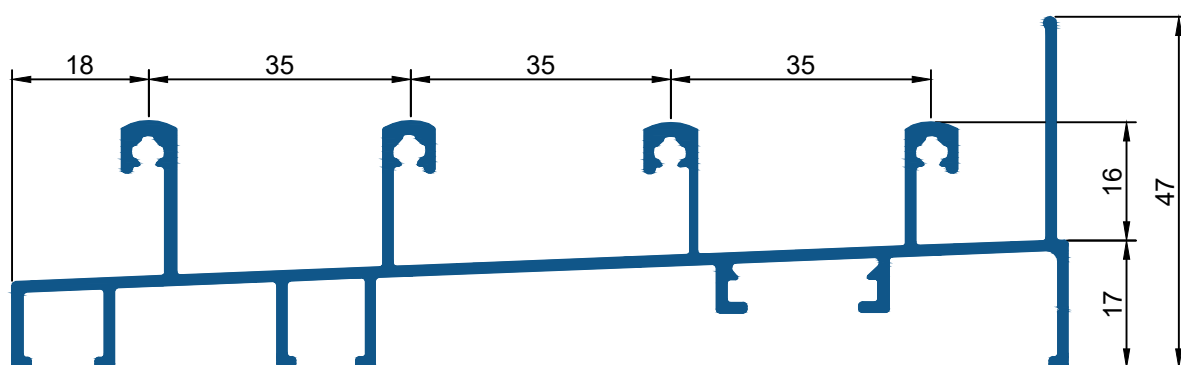
W25-291
0,263 kg/m



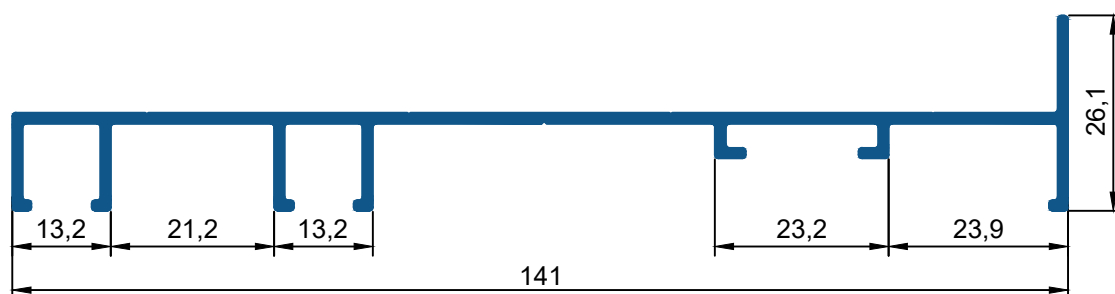
W25-541
0,301 kg/m



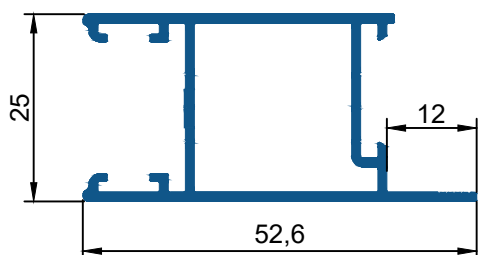
W25-121
1,586 kg/m



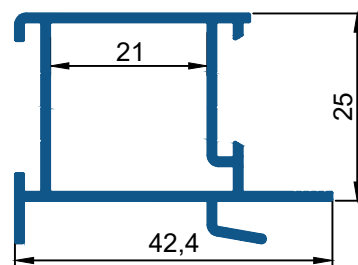
W25-122
1,512 kg/m



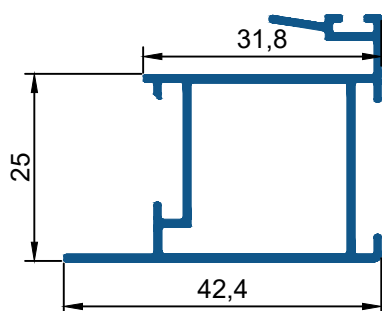
W25-123
0,920 kg/m



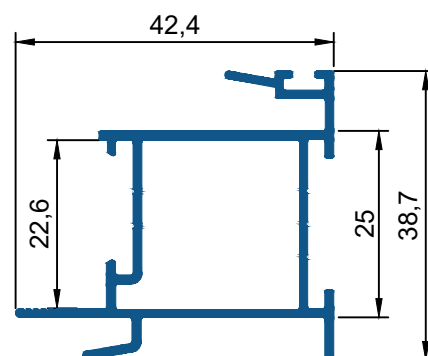
W25-039
0,520 kg/m



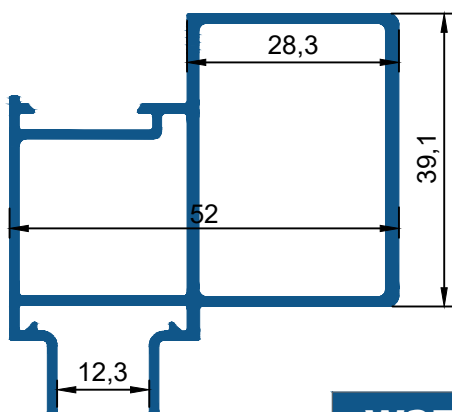
W25-040
0,480 kg/m



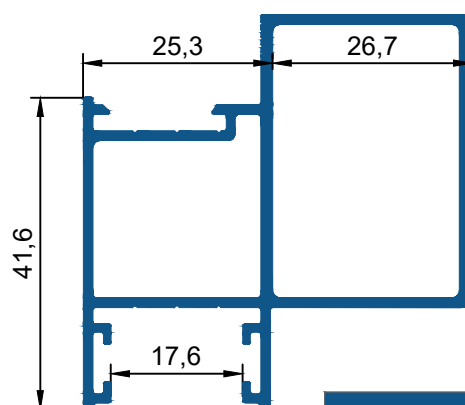
W25-041
0,507 kg/m



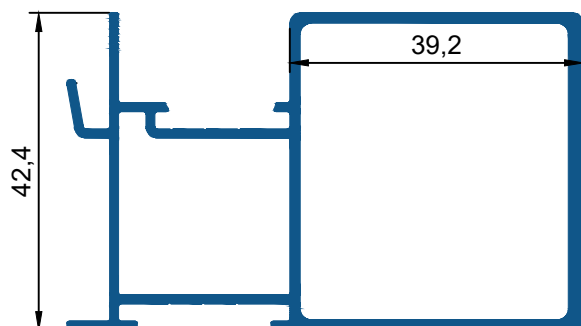
W25-042
0,564 kg/m



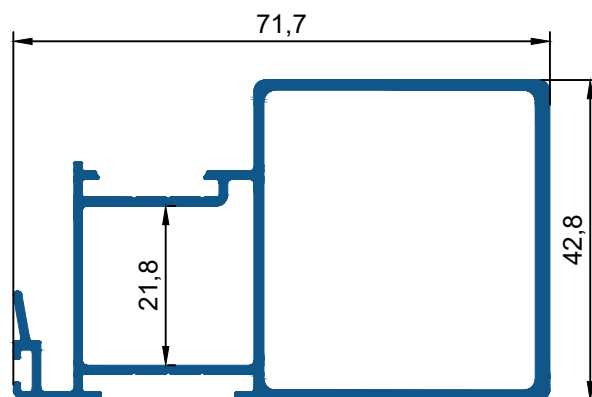
W25-043
0,962 kg/m



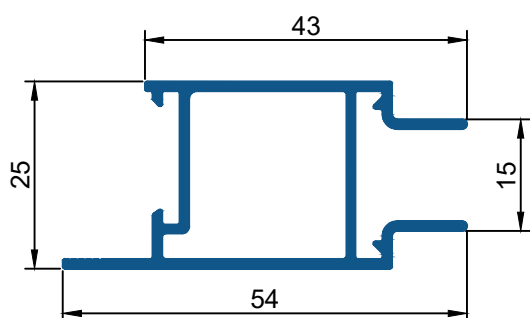
W25-044
0,970 kg/m



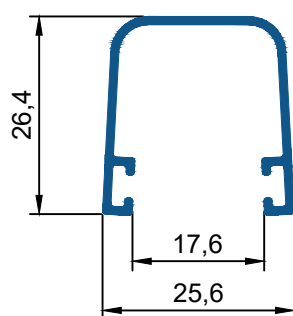
W25-047
1,041 kg/m



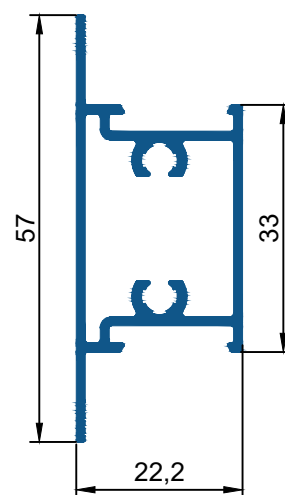
W25-049
1,053 kg/m



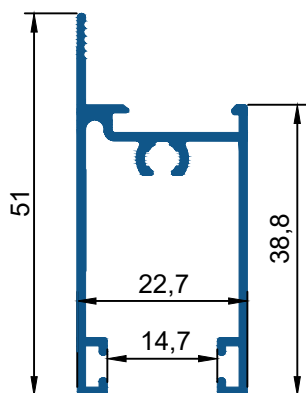
W25-192
0,556 kg/m



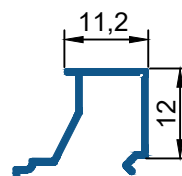
W25-107
0,265 kg/m



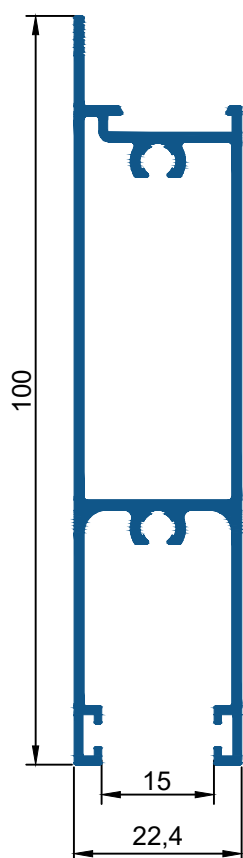
W25-227
0,551 kg/m



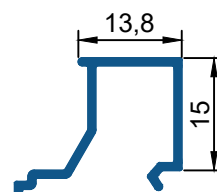
W25-053
0,507 kg/m



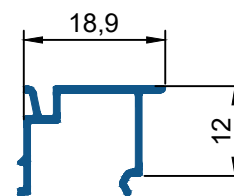
W25-102
0,111 kg/m



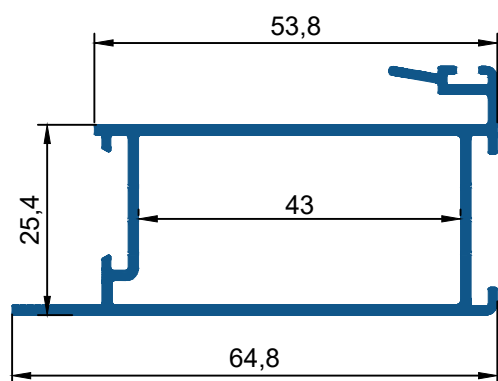
W25-225
0,989 kg/m



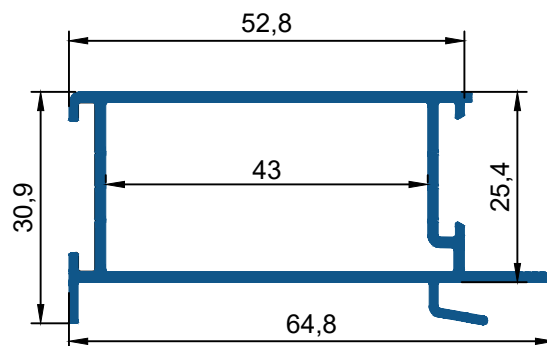
W25-103
0,147 kg/m



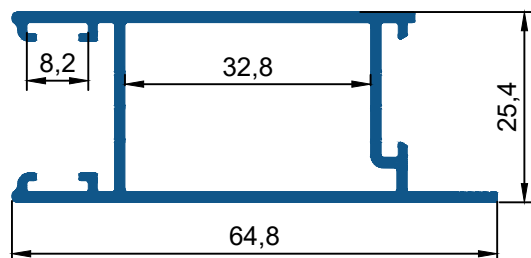
W25-203
0,133 kg/m



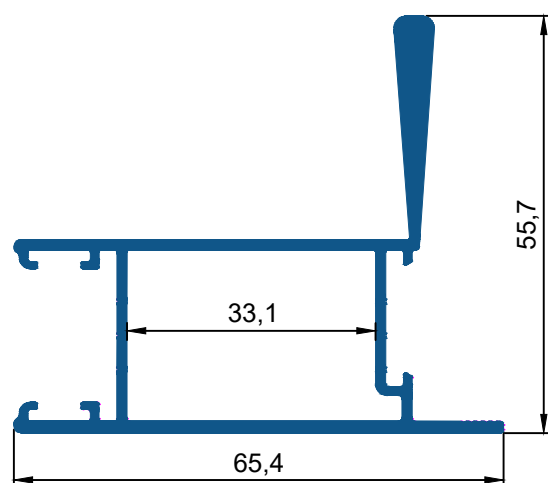
W25-242
0,740 kg/m



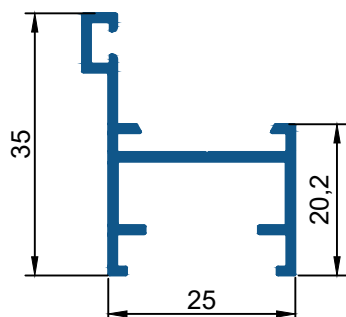
W25-243
0,712 kg/m



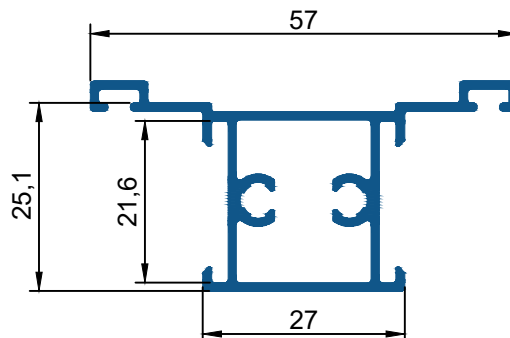
W25-245
0,688 kg/m



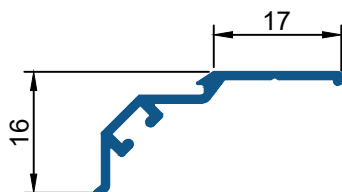
W25-280
1,006 kg/m



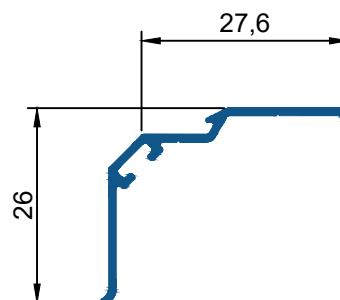
W25-079
0,341 kg/m



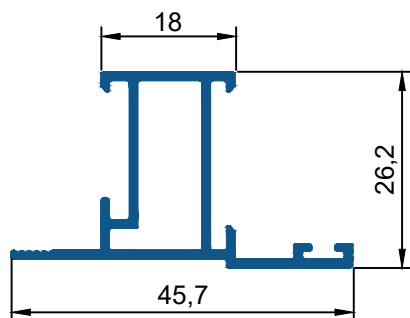
W25-086
0,596 kg/m



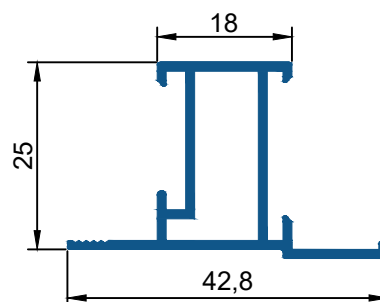
W25-083
0,153 kg/m



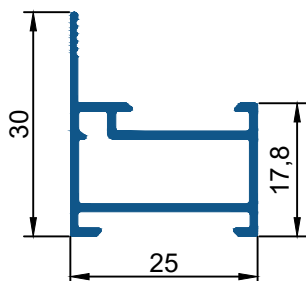
W25-276
0,169 kg/m



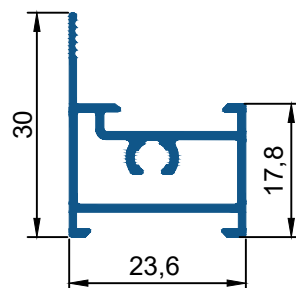
W25-200
0,443 kg/m



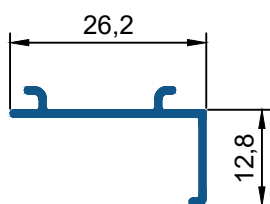
W25-081
0,412 kg/m



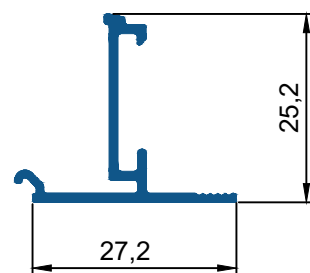
W25-080
0,360 kg/m



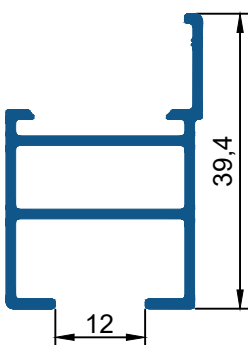
W25-082
0,382 kg/m



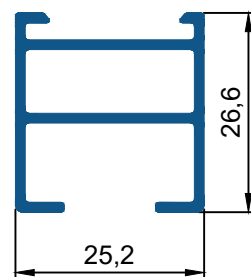
W25-084
0,125 kg/m



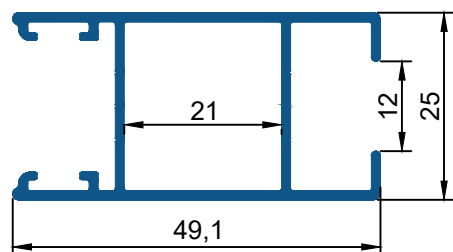
W25-292
0,221 kg/m



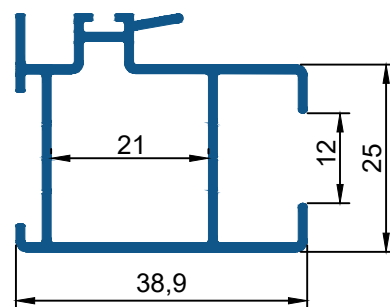
W25-090
0,453 kg/m



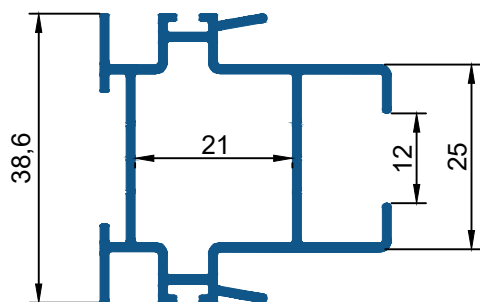
W25-091
0,401 kg/m



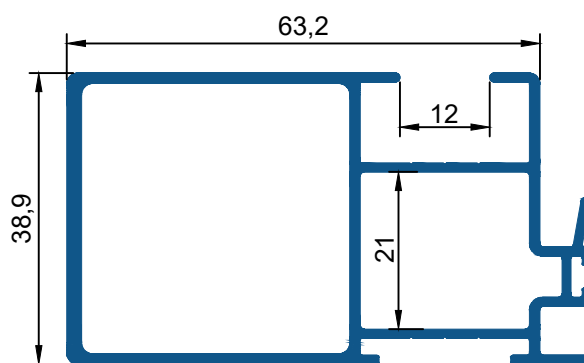
W25-055
0,545 kg/m



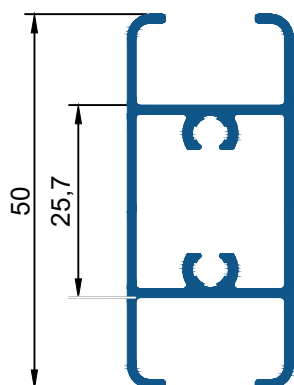
W25-056
0,539 kg/m



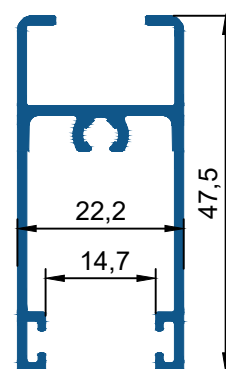
W25-057
0,631 kg/m



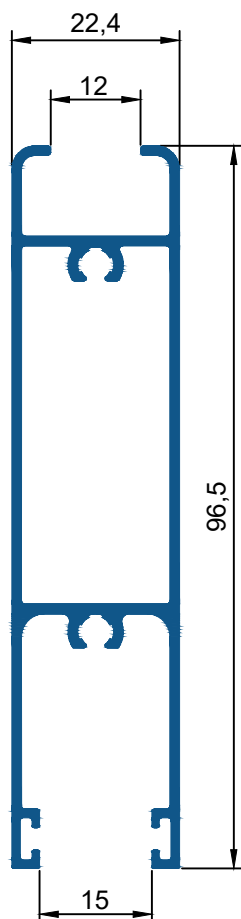
W25-061
1,063 kg/m



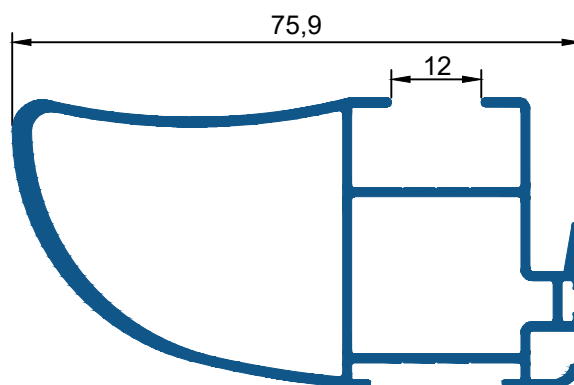
W25-188
0,586 kg/m



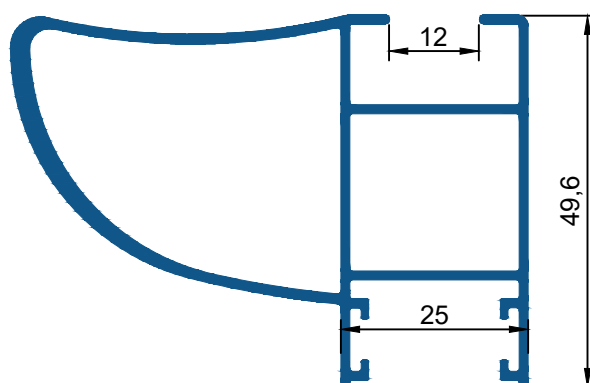
W25-186
0,510 kg/m



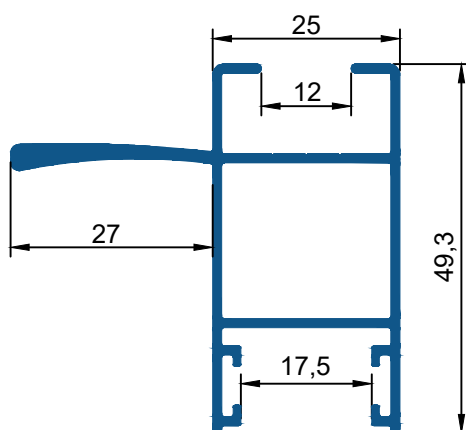
W25-226
1,014 kg/m



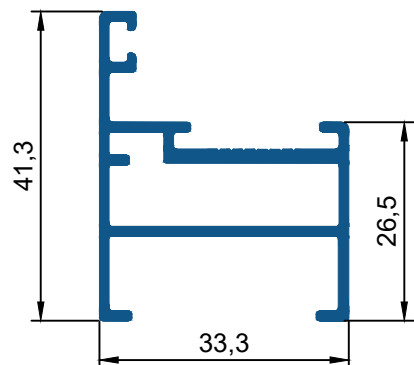
W25-499
1,085 kg/m



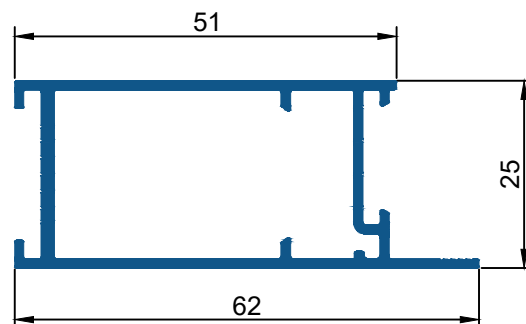
W25-532
1,090 kg/m



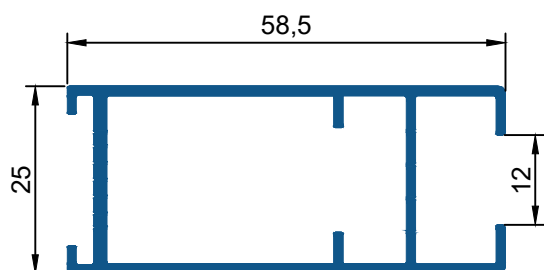
W25-270
0,711 kg/m



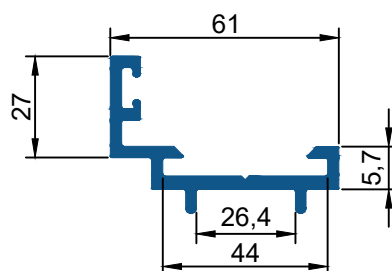
W25-279
0,581 kg/m



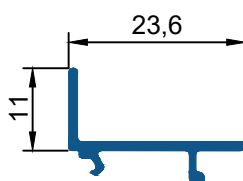
W25-111
0,640 kg/m



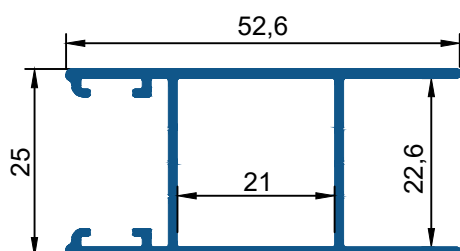
W25-241
0,734 kg/m



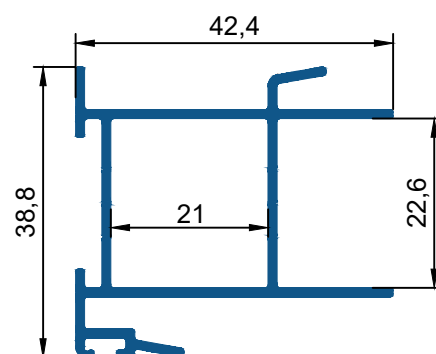
25-548
0,293 kg/m



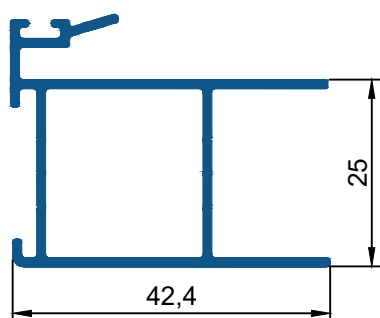
W25-108
0,146 kg/m



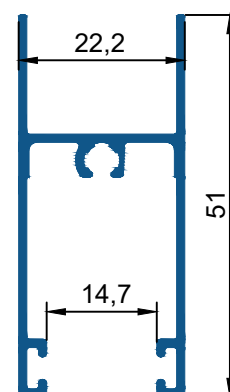
W25-068
0,534 kg/m



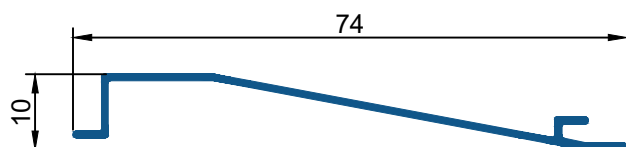
W25-069
0,576 kg/m



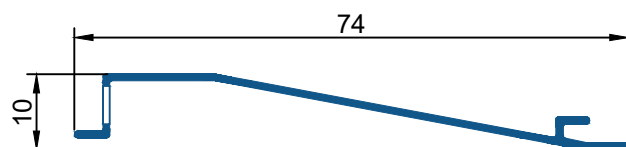
W25-070
0,522 kg/m



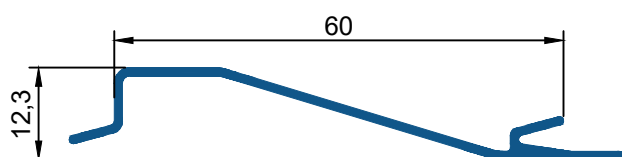
W25-187
0,512 kg/m



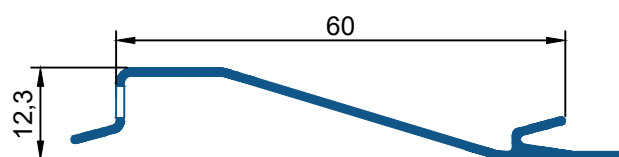
VZ-024
0,230 kg/m



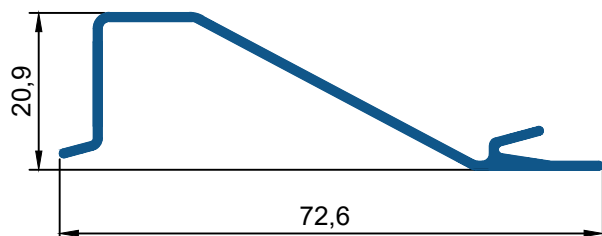
US-280
0,230 kg/m



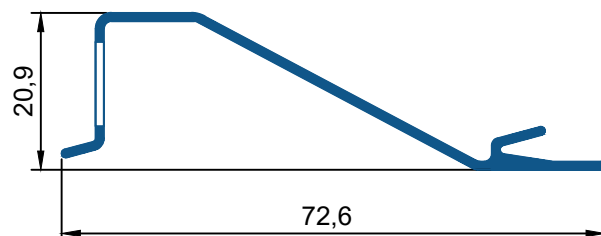
VZ-051
0,282 kg/m



US-294
0,282 kg/m

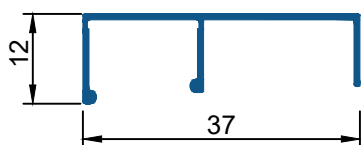


VZ-006
0,321 kg/m

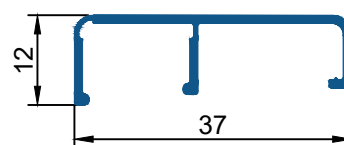


US-285
0,321 kg/m

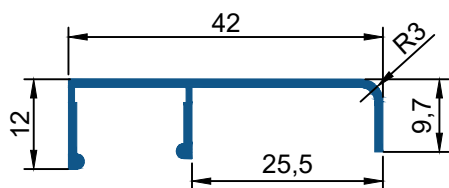
ARREMATES



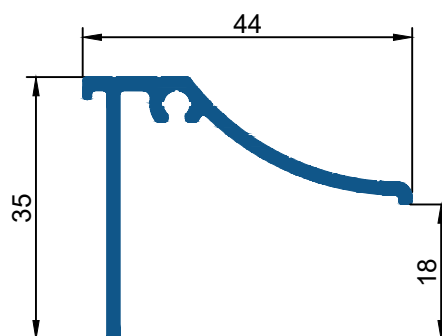
MP-347
0,202 kg/m



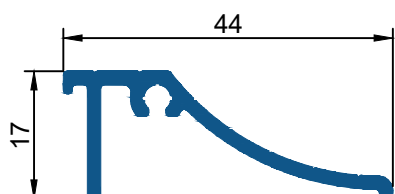
MH-0017
0,197 kg/m



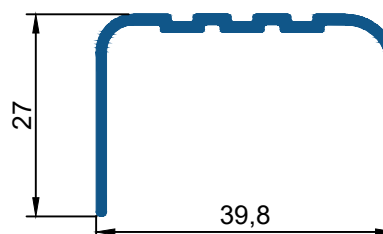
*** MN-014**
0,214 kg/m



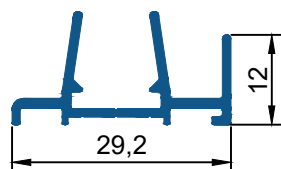
CM-169
0,435 kg/m



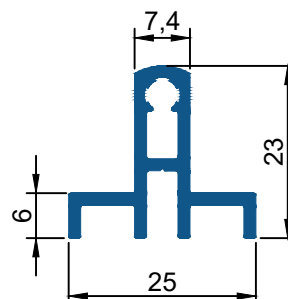
CM-493
0,365 kg/m



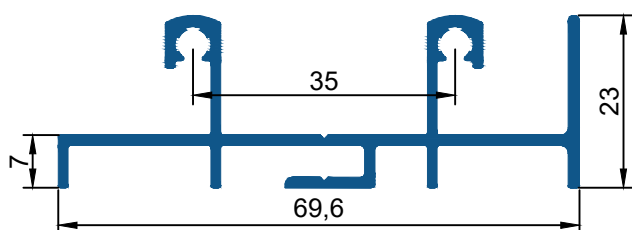
ME-013
0,268 kg/m



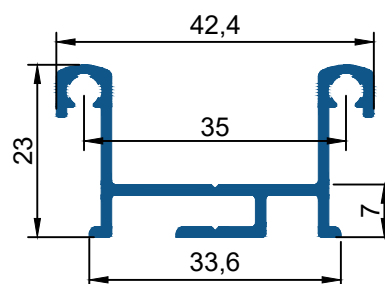
*** W25-1008**
0,246 kg/m



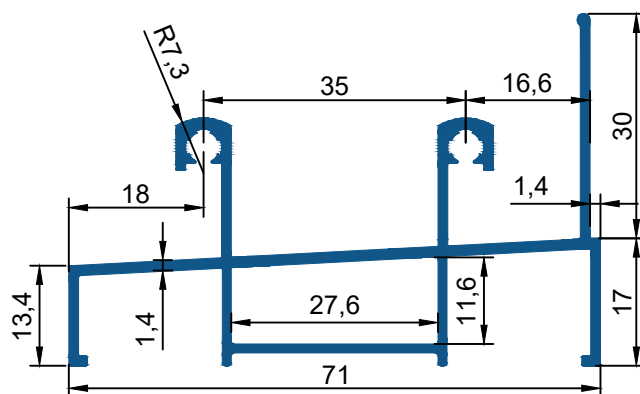
*** W25-271**
0,350 kg/m



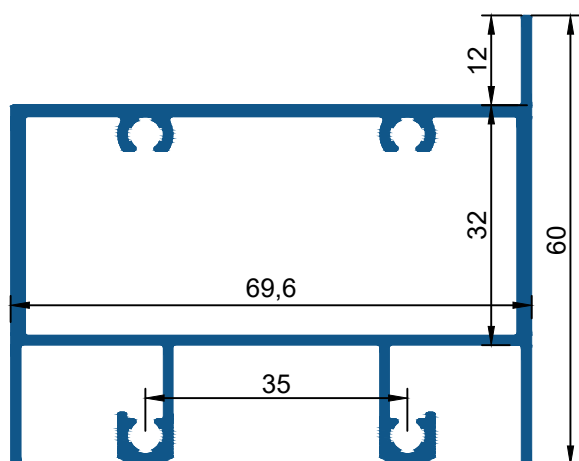
W25-1260
0,725 kg/m



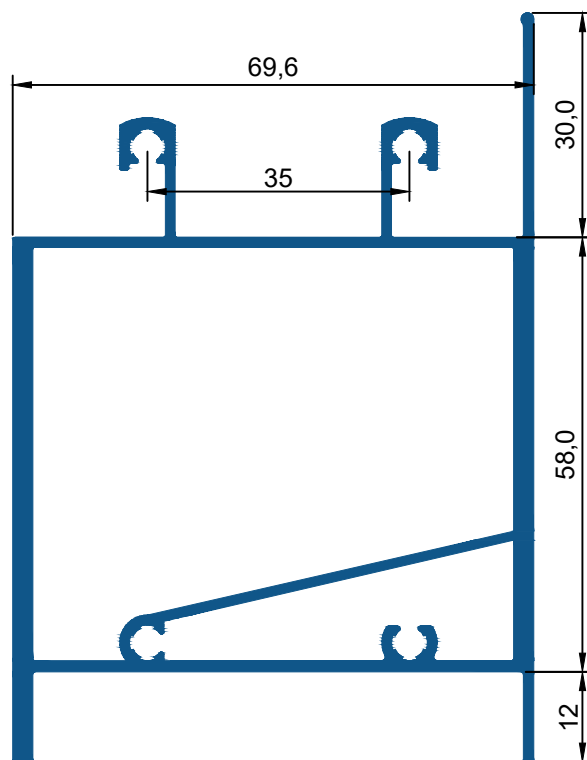
*** W25-1272**
0,465 kg/m



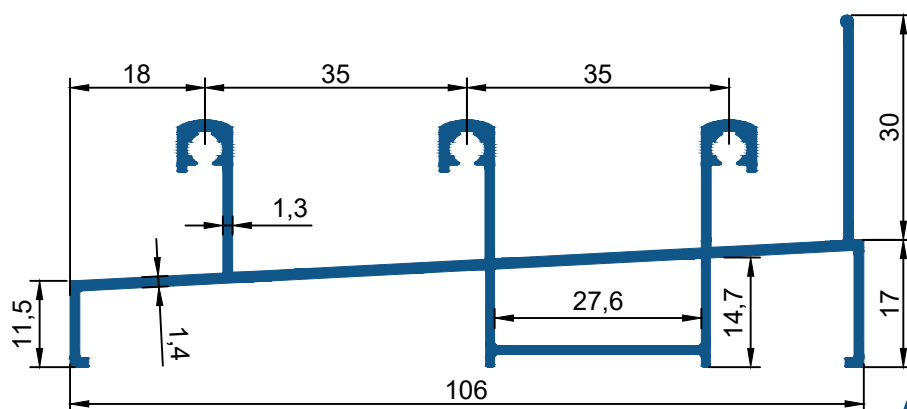
*** W25-1002**
0,939 kg/m



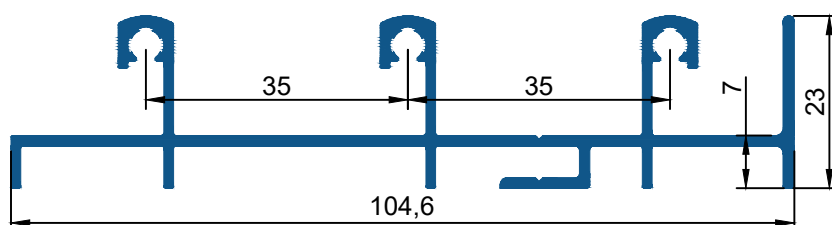
*** W25-1005**
1,383 kg/m



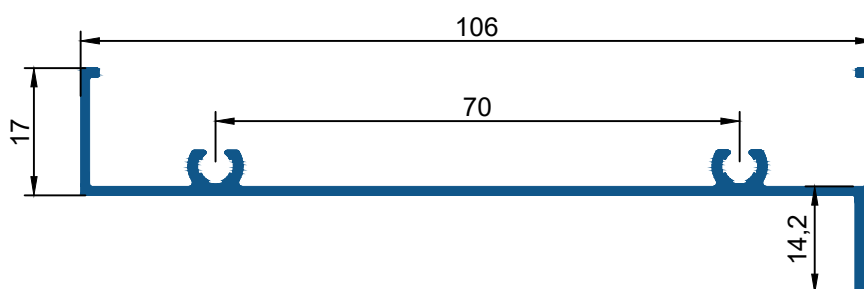
*** W25-1006**
2,155 kg/m



*** W25-1011**
1,204 kg/m

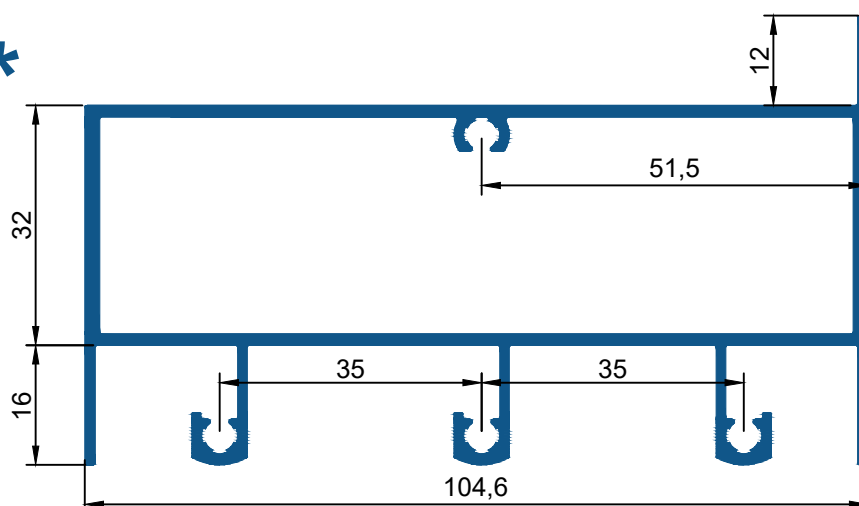


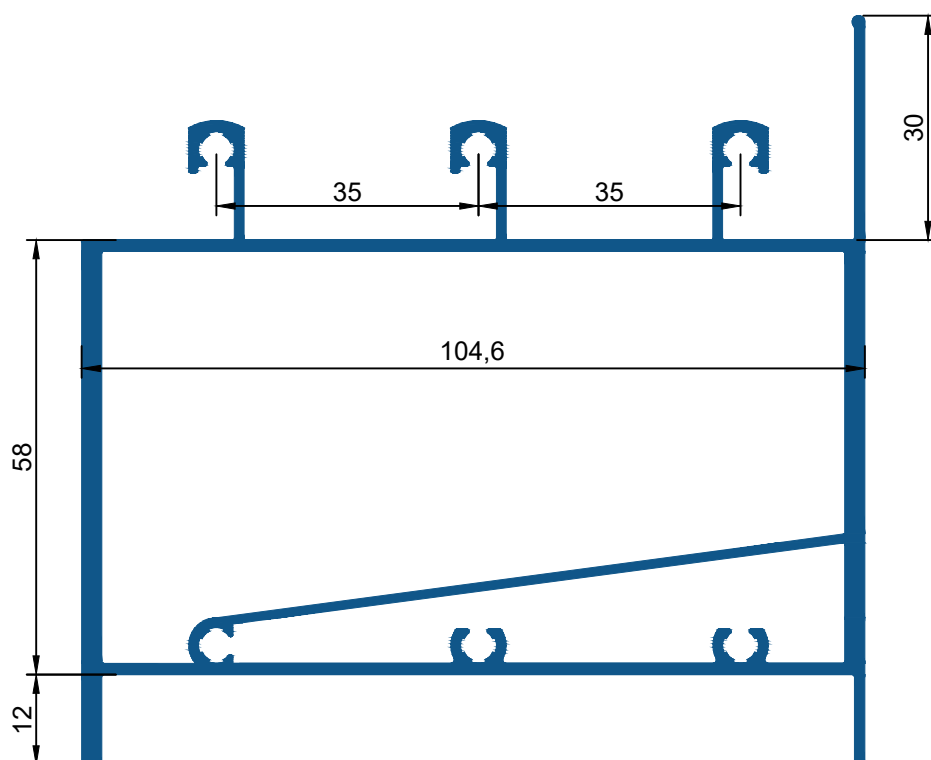
W25-1230
1,000 kg/m



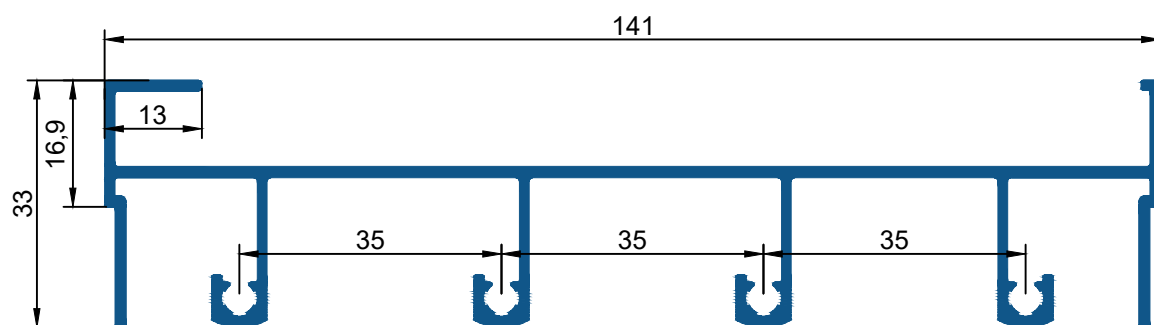
W25-1018
0,621 kg/m

W25-1019
1,789 kg/m

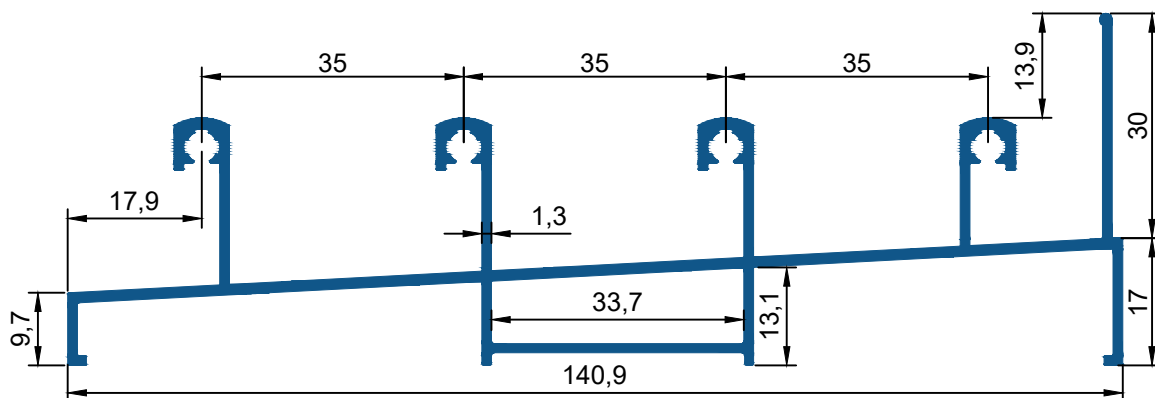




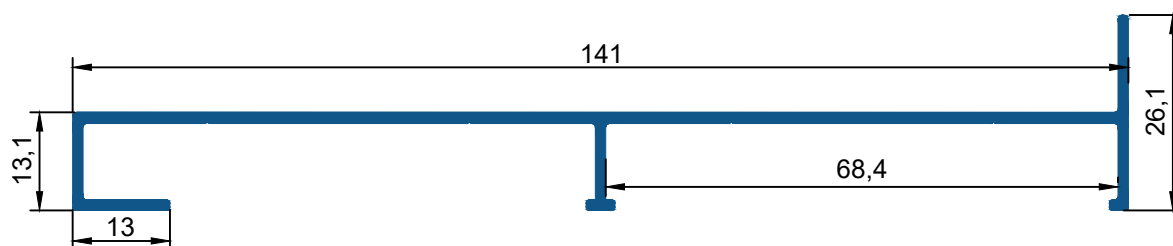
*** W25-1224**
2,752 kg/m



*** W25-1121**
1,445 kg/m

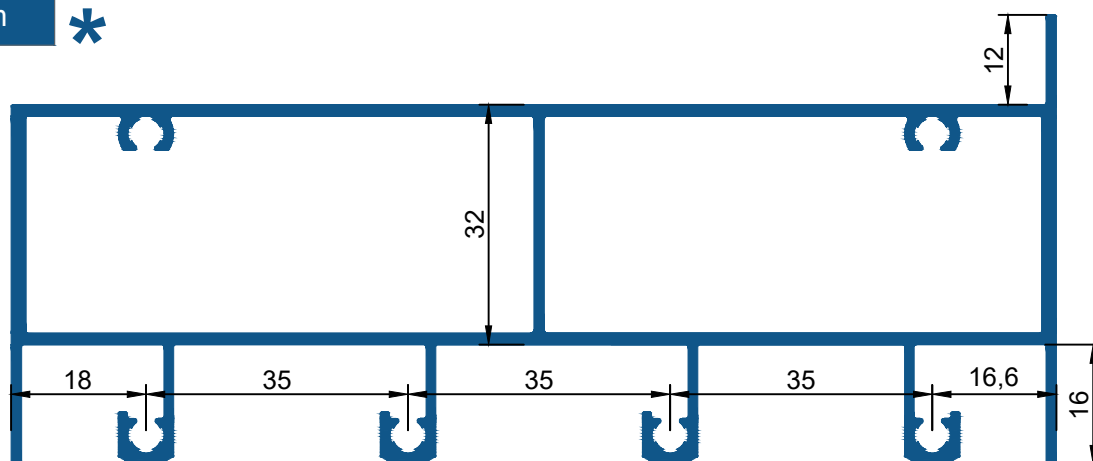


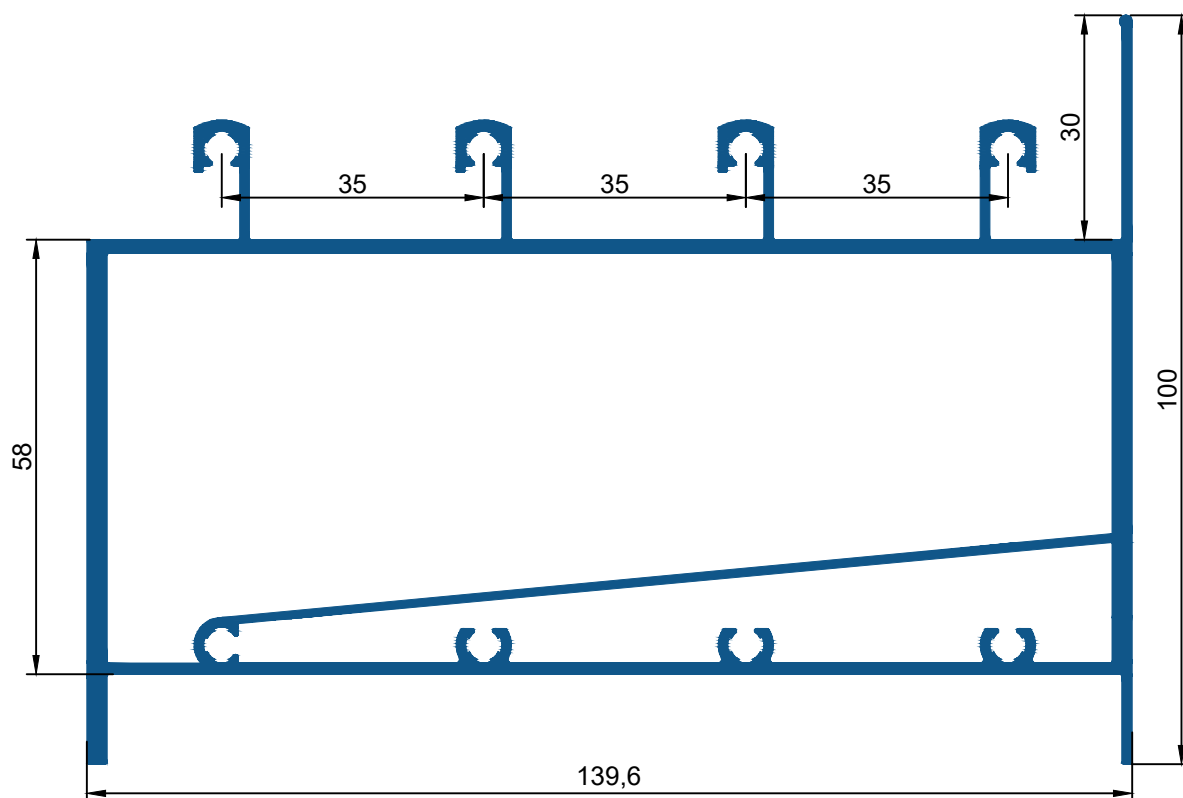
W25-1122
1,491 kg/m



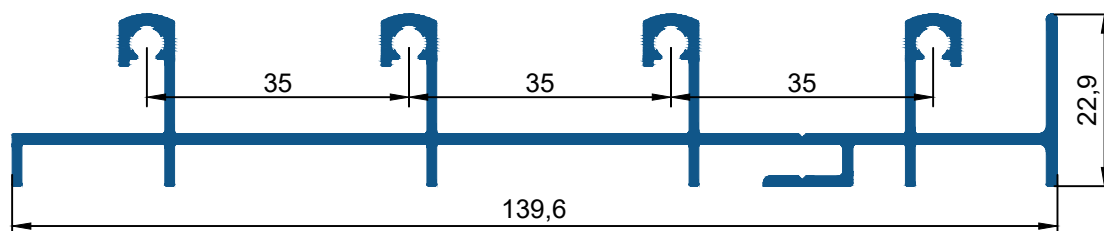
W25-1123
0,844 kg/m

W25-1124
2,364 kg/m

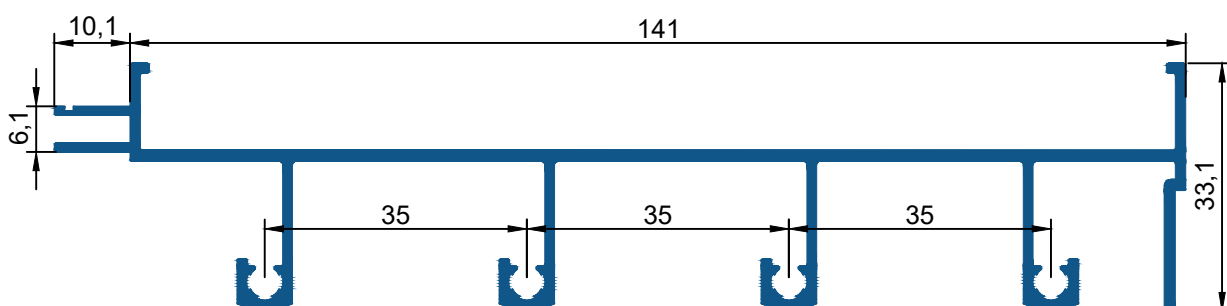




*** W25-1125**
3,427 kg/m

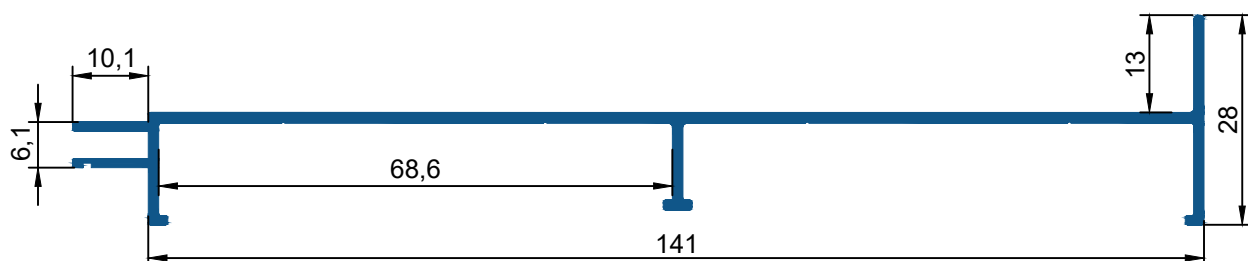
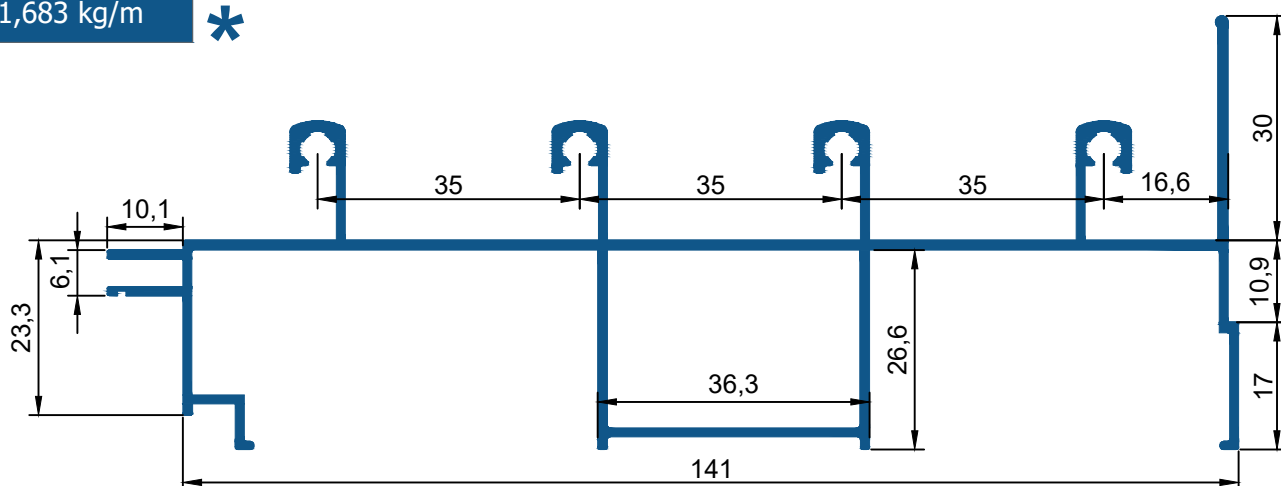


*** W25-1126**
1,276 kg/m

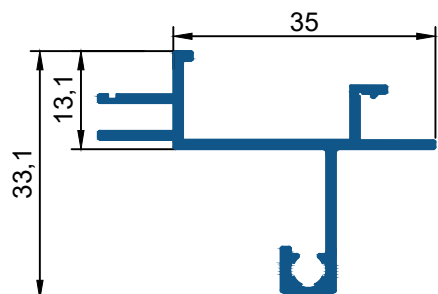


*** W25-1020**
1,381 kg/m

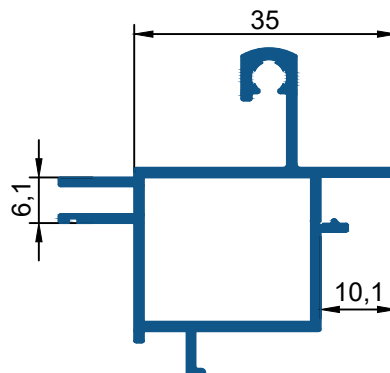
W25-1021
1,683 kg/m



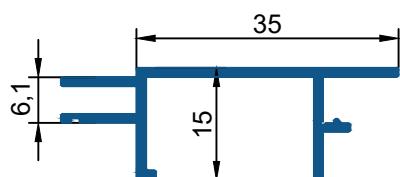
*** W25-1022**
0,871 kg/m



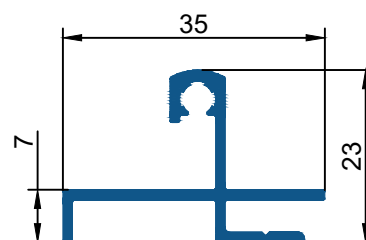
*** W25-1026**
0,411 kg/m



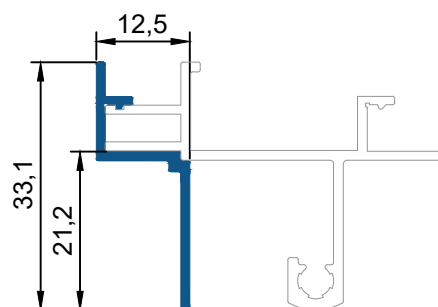
*** W25-1027**
0,585 kg/m



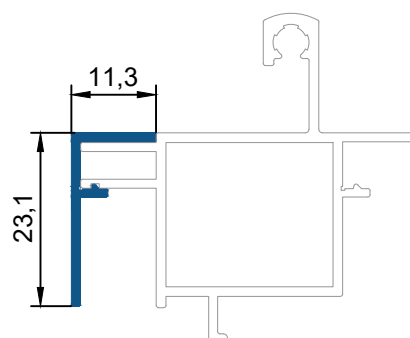
*** W25-1028**
0,301 kg/m



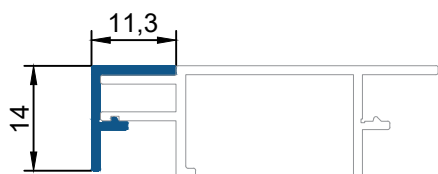
*** W25-1029**
0,337 kg/m



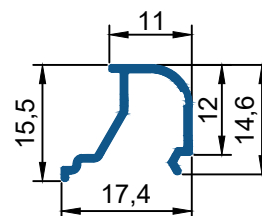
*** WAC-001**
0,165 kg/m



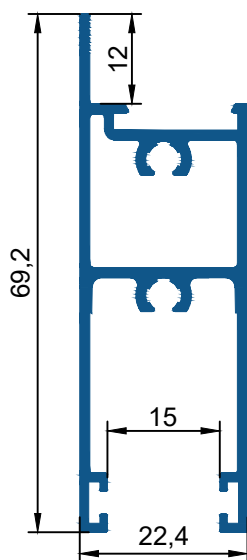
*** WAC-002**
0,125 kg/m



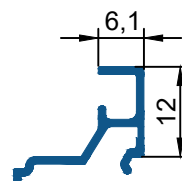
WAC-003
0,094 kg/m



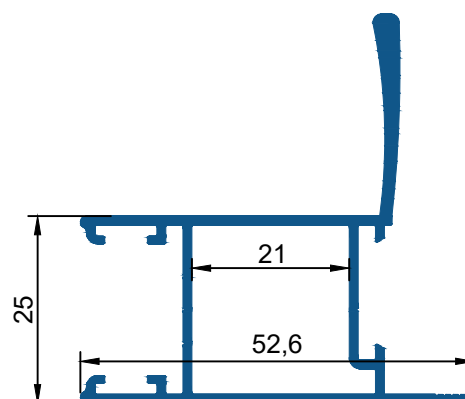
W25-1068
0,114 kg/m



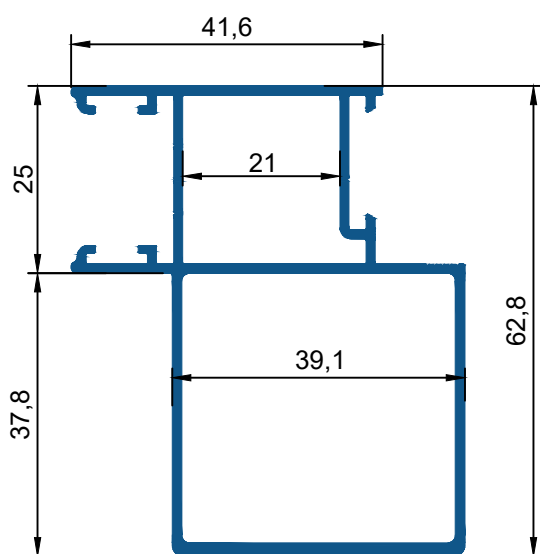
W25-1053
0,800 kg/m



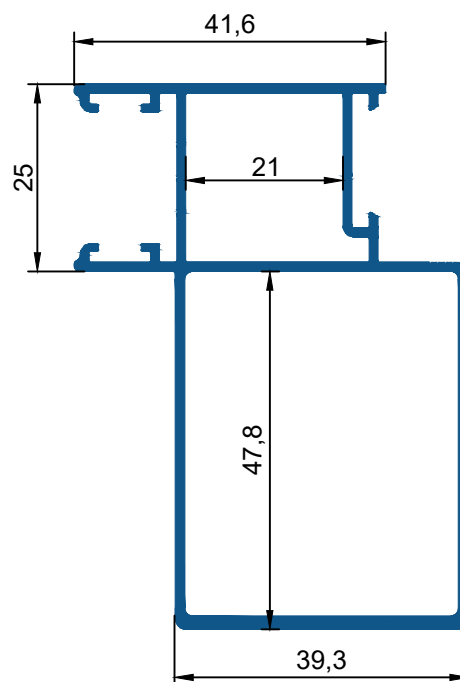
W25-1031
0,125 kg/m



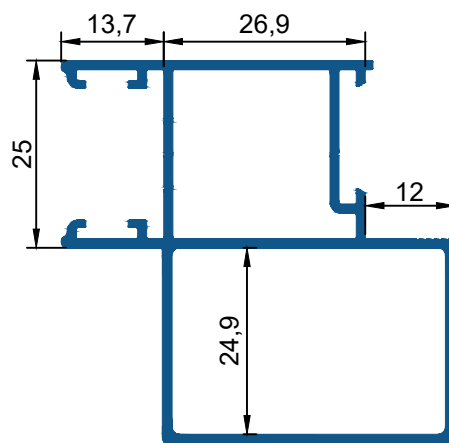
W25-1250
0,715 kg/m



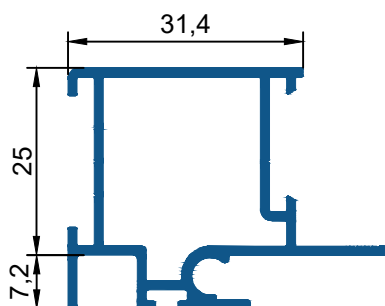
*** W25-1032**
1,011 kg/m



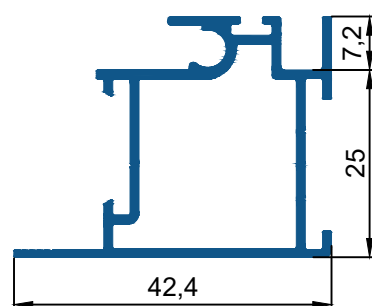
*** W25-1033**
1,086 kg/m



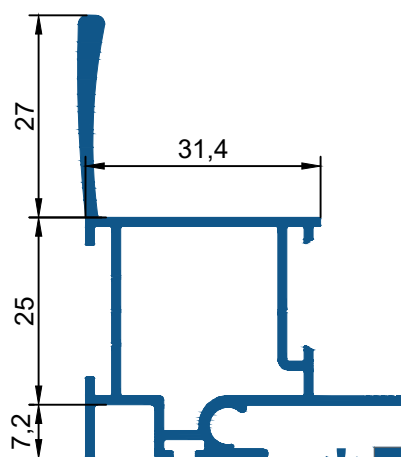
*** W25-1044**
0,930 kg/m



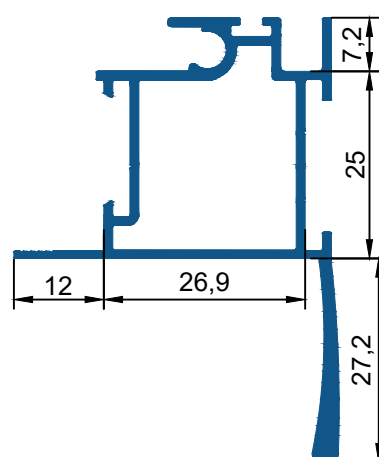
W25-1040
0,561 kg/m



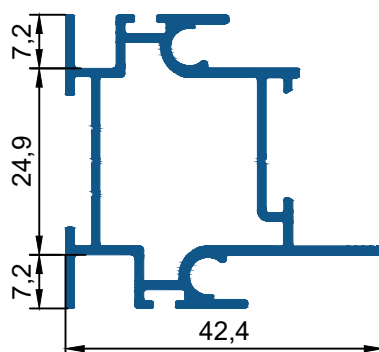
W25-1041
0,545 kg/m



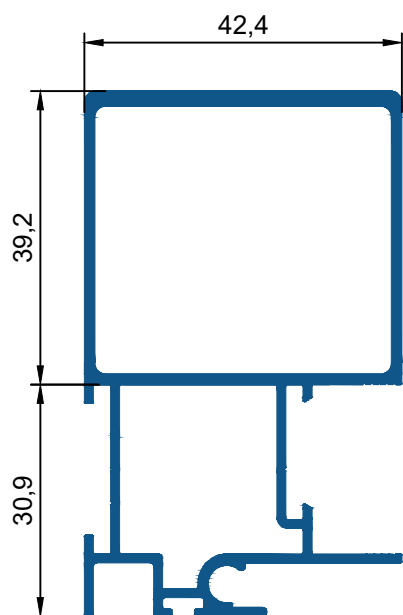
W25-1036
0,731 kg/m



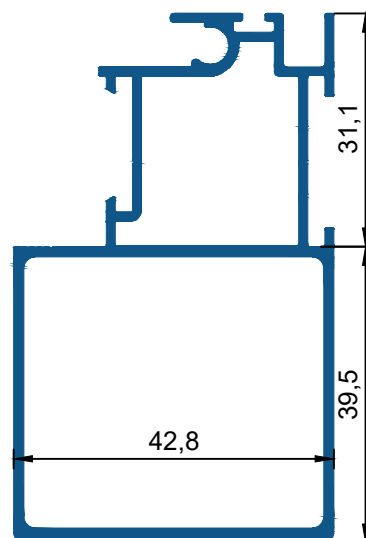
W25-1037
0,716 kg/m



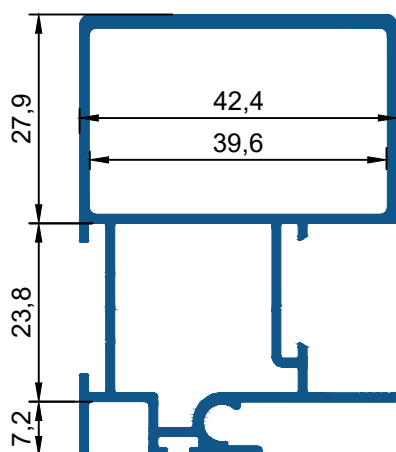
W25-1042
0,667 kg/m



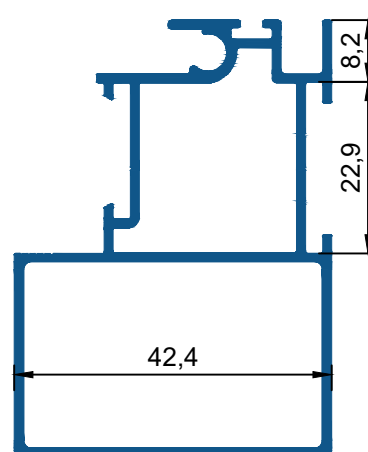
*** W25-1047**
1,153 kg/m



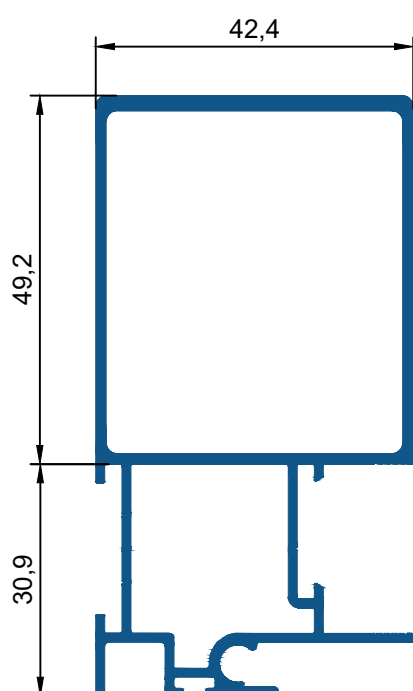
*** W25-1049**
1,115 kg/m



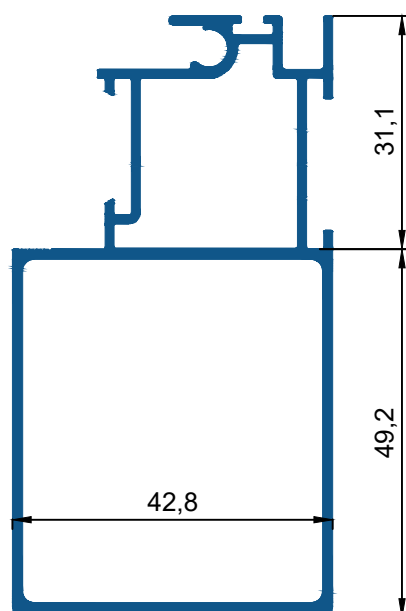
*** W25-1034**
1,001 kg/m



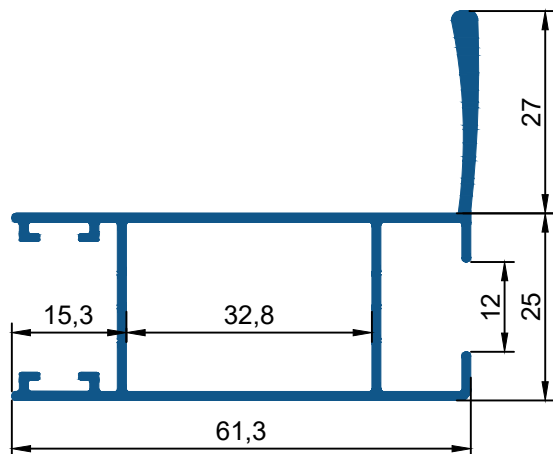
*** W25-1035**
0,959 kg/m



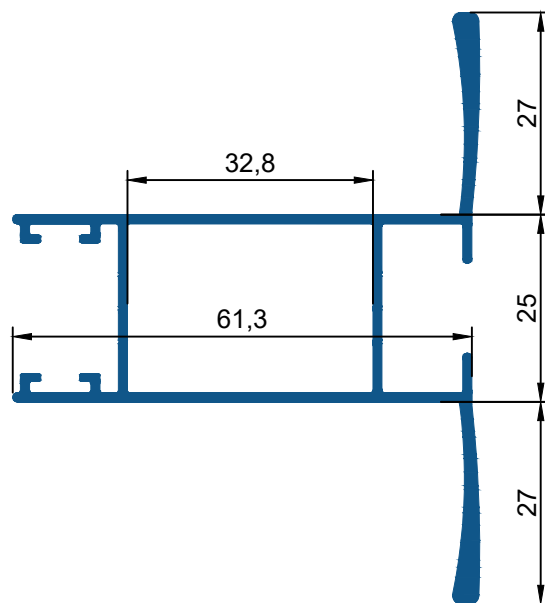
*** W25-1045**
1,233 kg/m



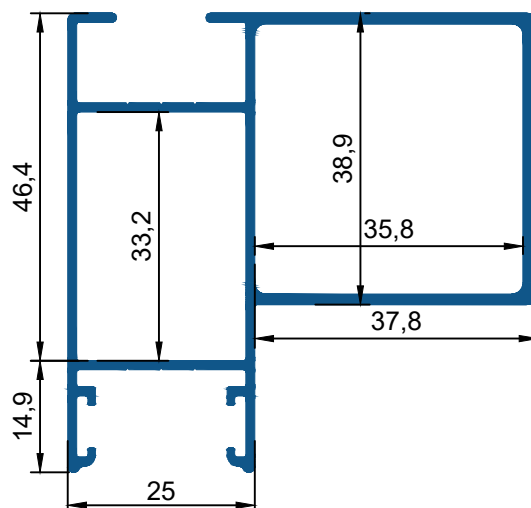
*** W25-1046**
1,190 kg/m



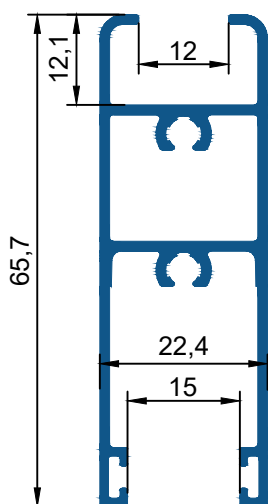
*** W25-1050**
0,830 kg/m



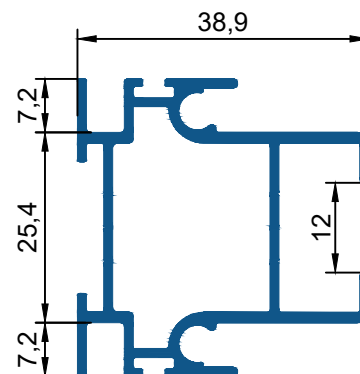
*** W25-1051**
1,001 kg/m



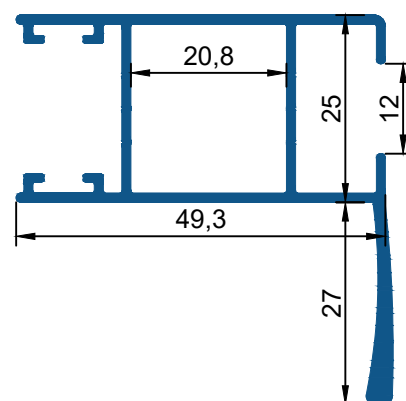
*** W25-1052**
1,163 kg/m



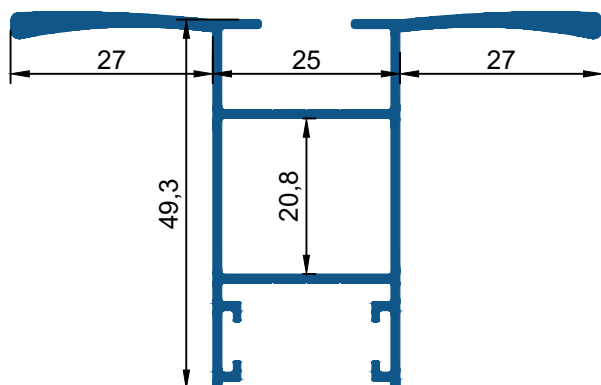
*** W25-1186**
0,801 kg/m



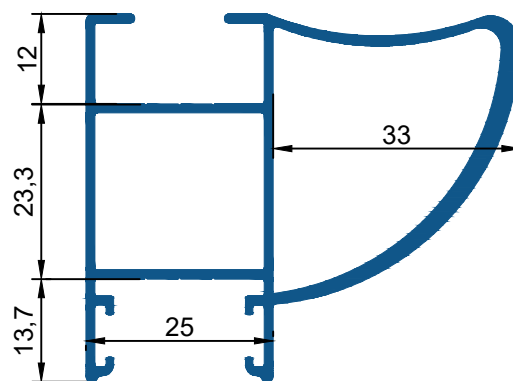
*** W25-1057**
0,731 kg/m



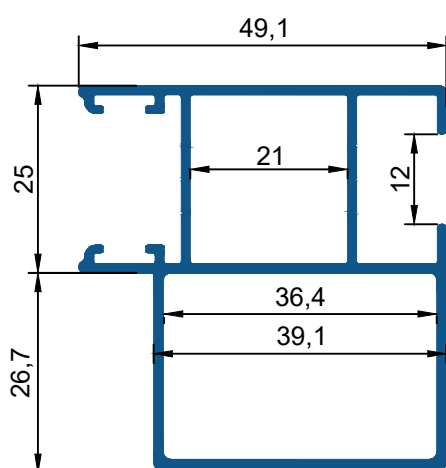
*** W25-1270**
0,748 kg/m



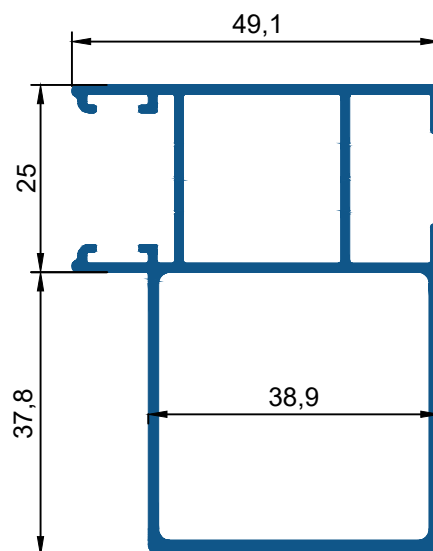
*** W25-1048**
0,919 kg/m



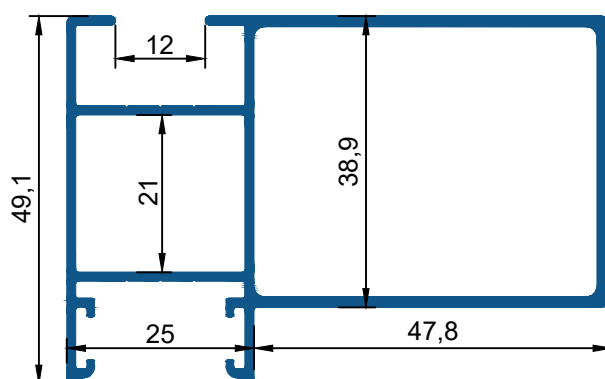
*** W25-1062**
1,027 kg/m



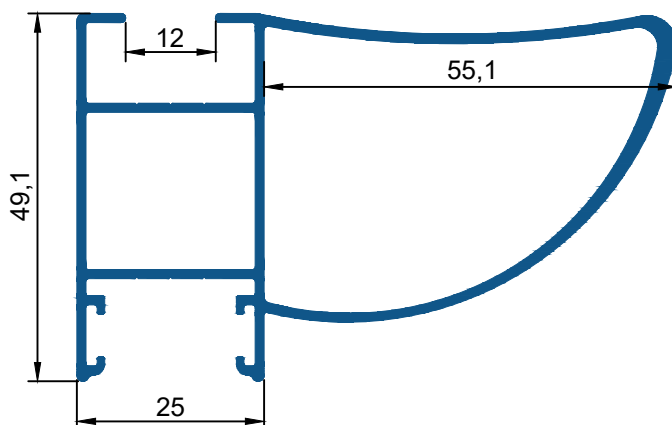
*** W25-1060**
0,955 kg/m



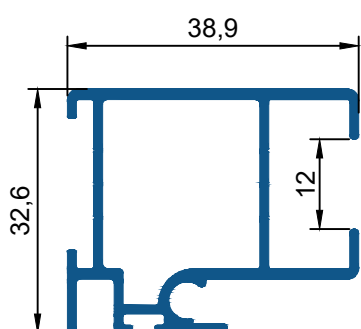
*** W25-1054**
1,080 kg/m



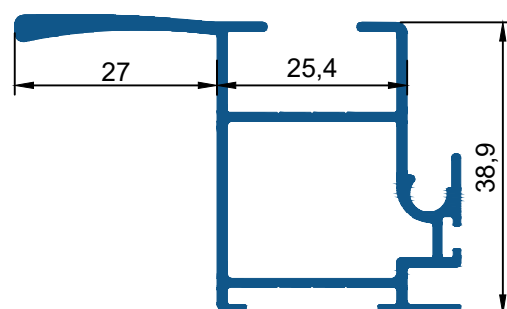
*** W25-1055**
1,160 kg/m



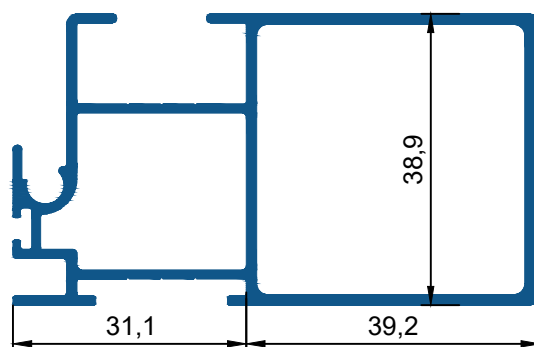
*** W25-1064**
1,110 kg/m



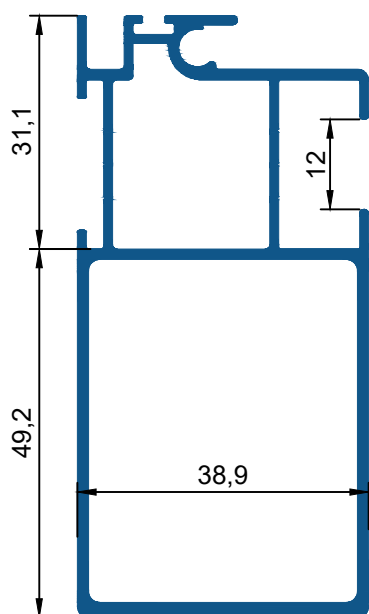
W25-1056
0,621 kg/m



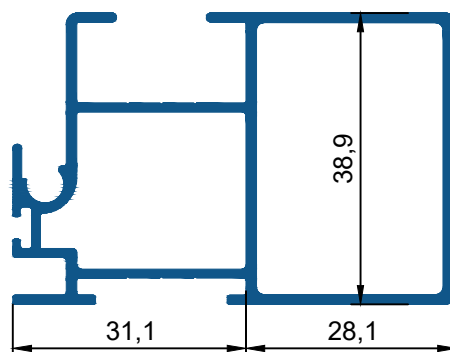
*** W25-1058**
0,792 kg/m



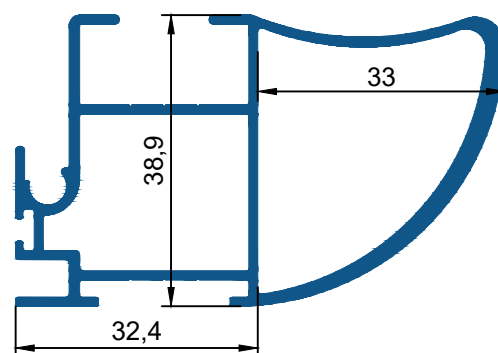
W25-1061
1,133 kg/m



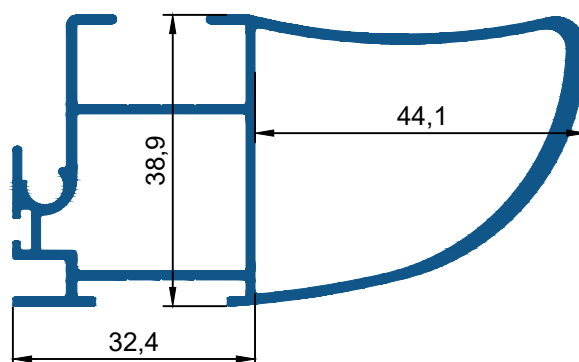
*** W25-1063**
1,241 kg/m



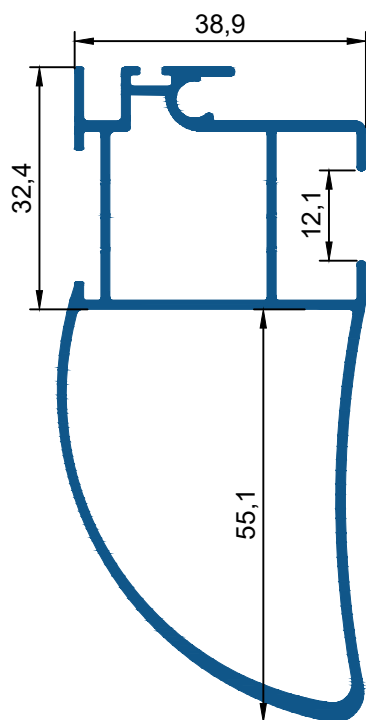
*** W25-1059**
1,007 kg/m



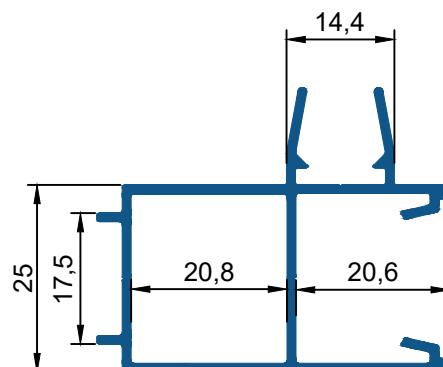
*** W25-1065**
1,058 kg/m



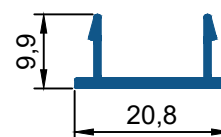
*** W25-1499**
1,116 kg/m



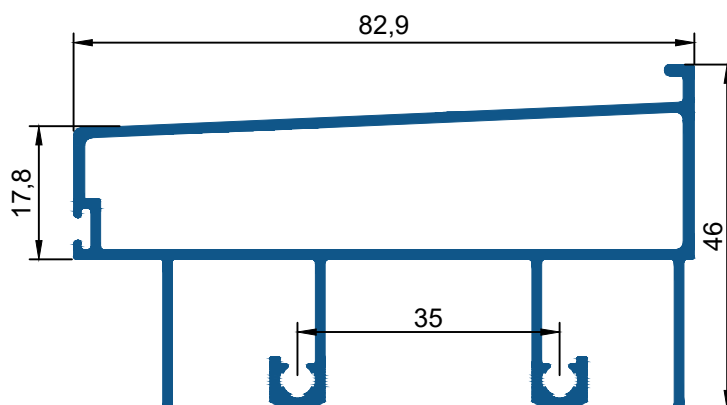
*** W25-1066**
1,146 kg/m



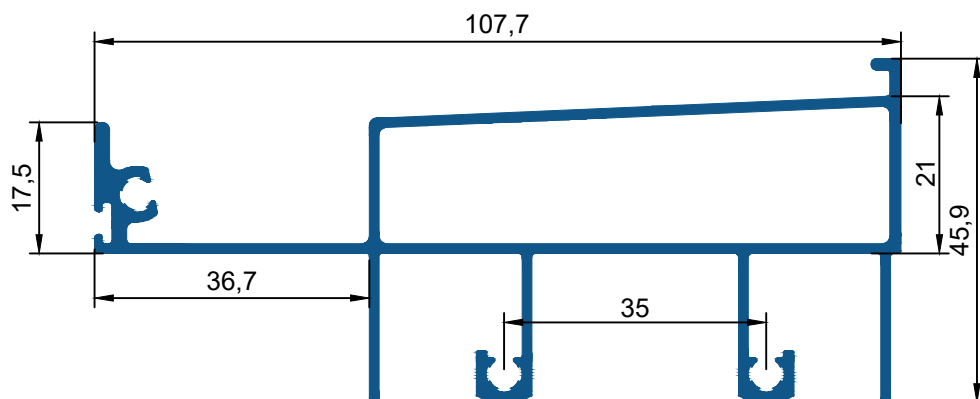
*** W25-1067**
0,617 kg/m



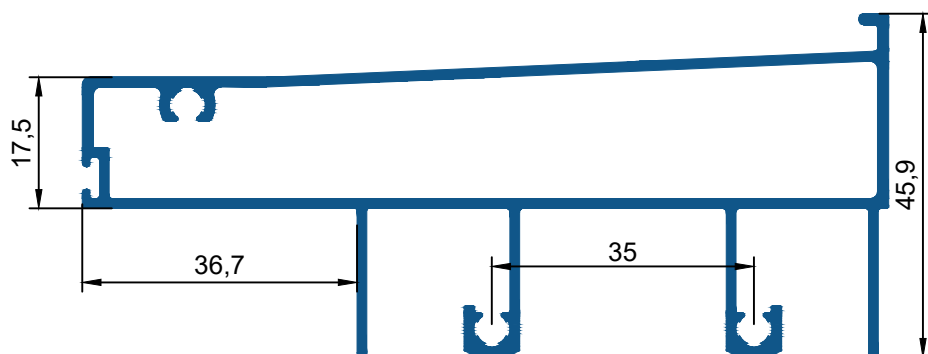
WAC-368
0,130 kg/m



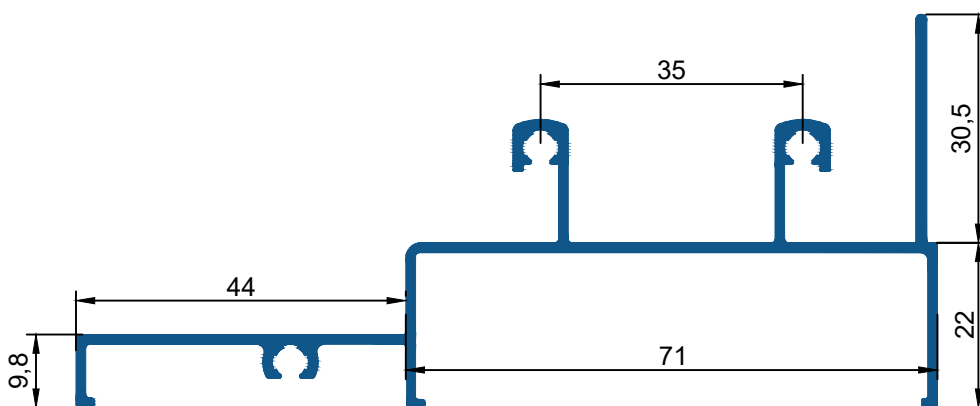
W25-542
1,217 kg/m



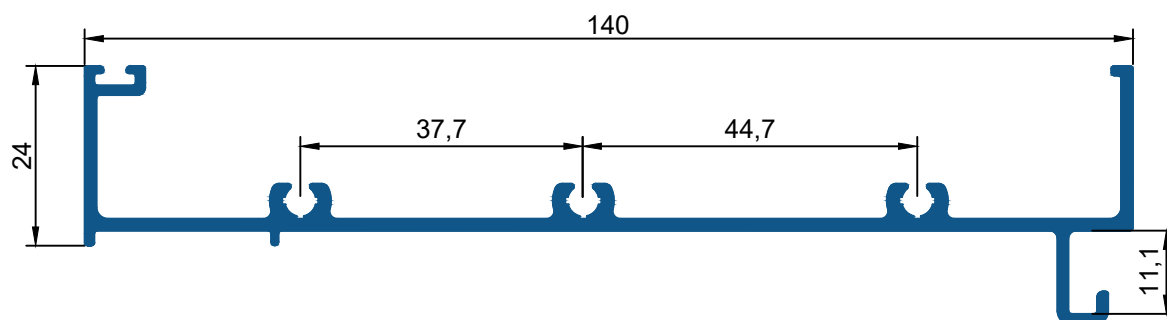
W25-543
1,393 kg/m



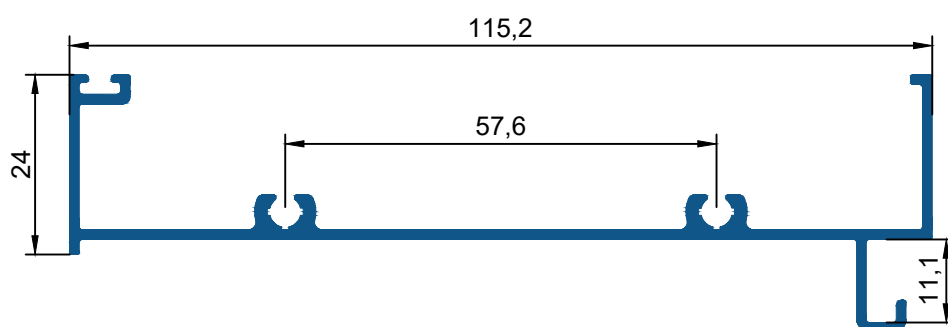
W25-544
1,440 kg/m



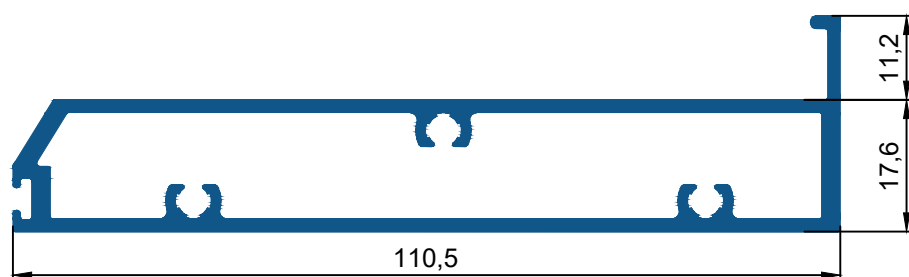
W25-545
1,025 kg/m



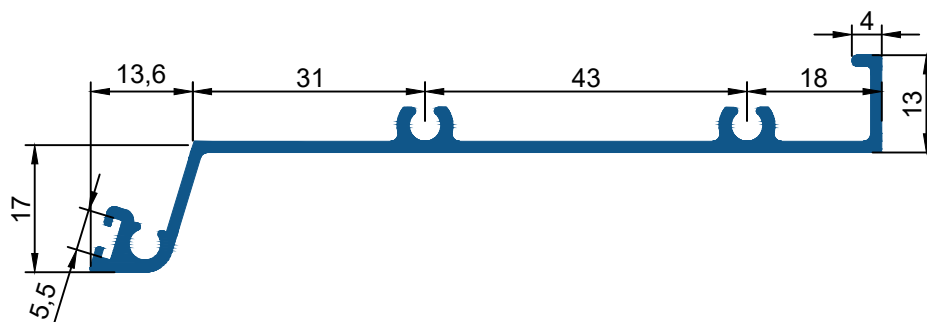
WIN-001
1,120 kg/m



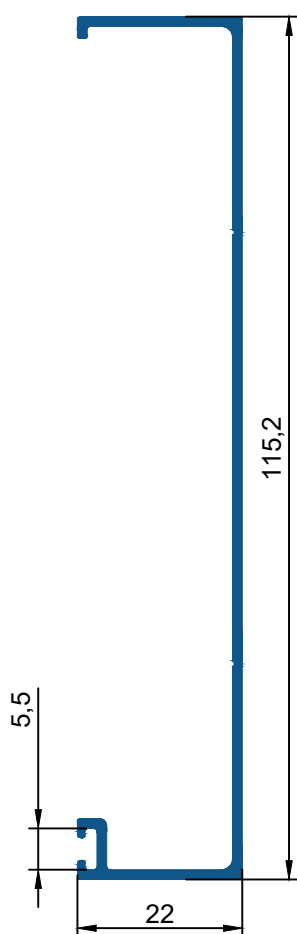
WIN-002
0,828 kg/m



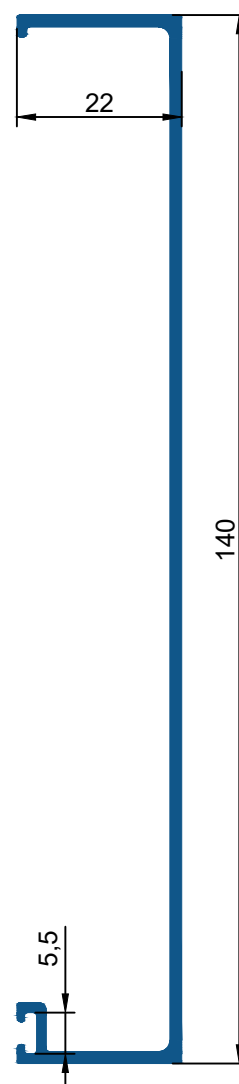
*** WIN-049**
1,480 kg/m



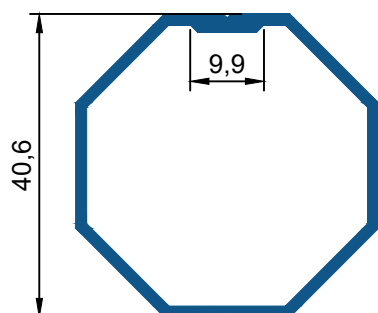
WIN-023
0,688 kg/m



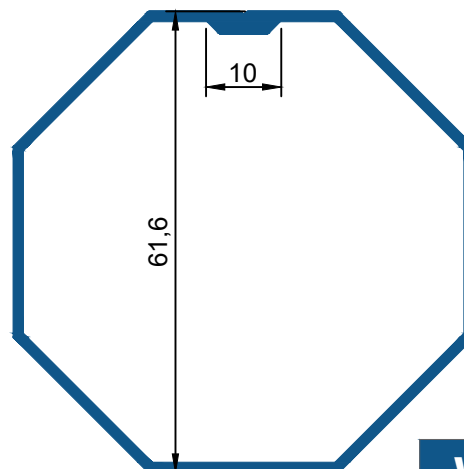
WIN-004
0,628 kg/m



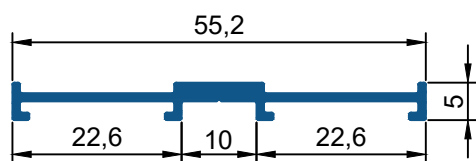
WIN-003
0,827 kg/m



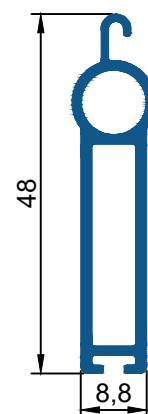
WIN-014
0,542 kg/m



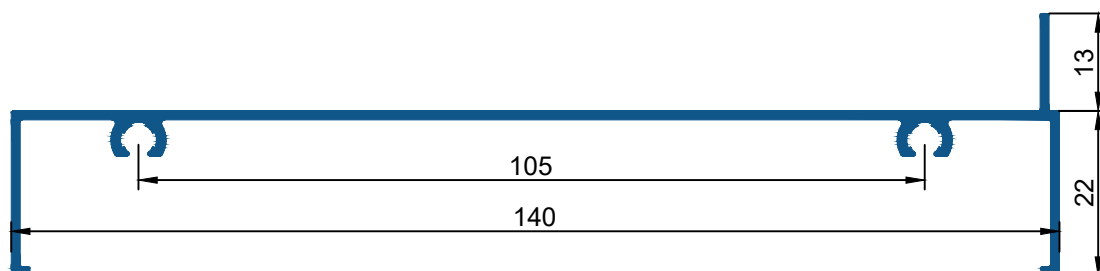
WIN-015
0,792 kg/m



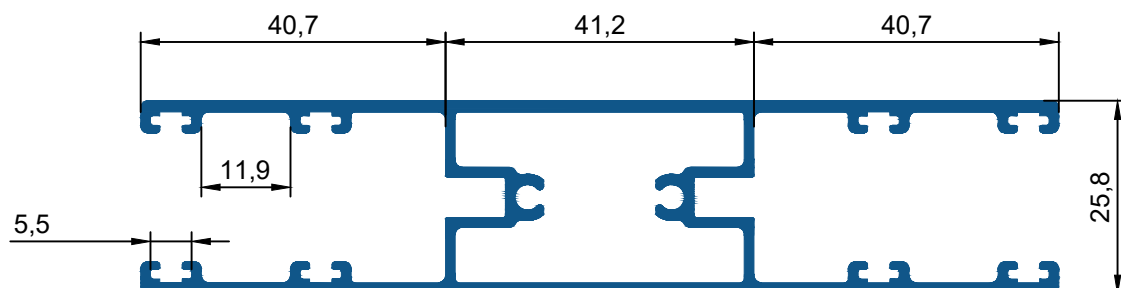
W25-540
0,271 kg/m



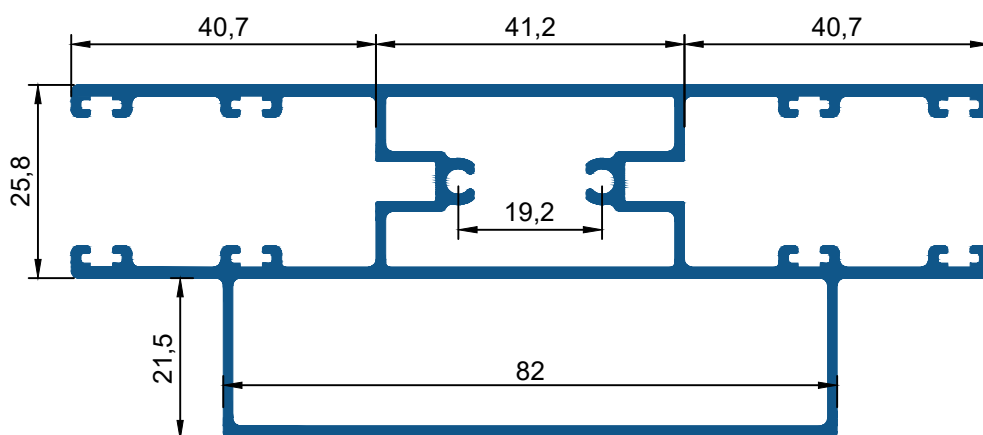
WIN-055
0,431 kg/m



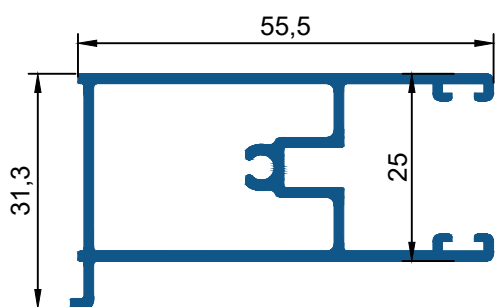
WIN-009
0,771 kg/m



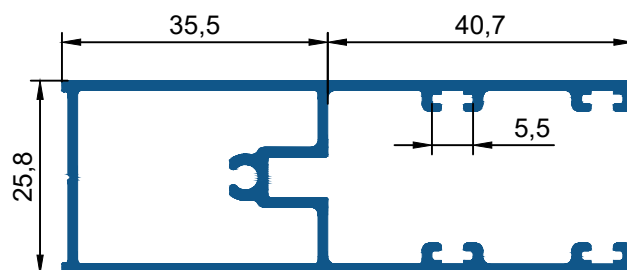
WIN-017
1,651 kg/m



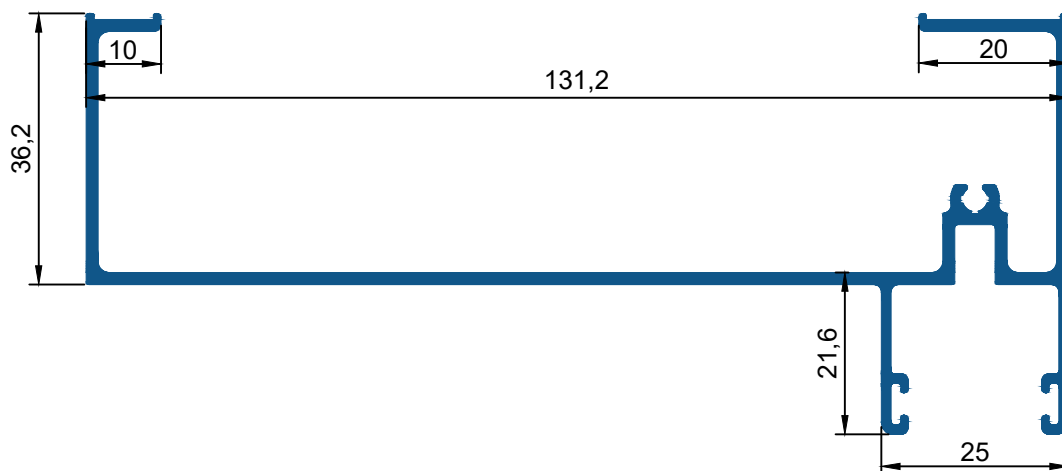
WIN-018
2,219 kg/m



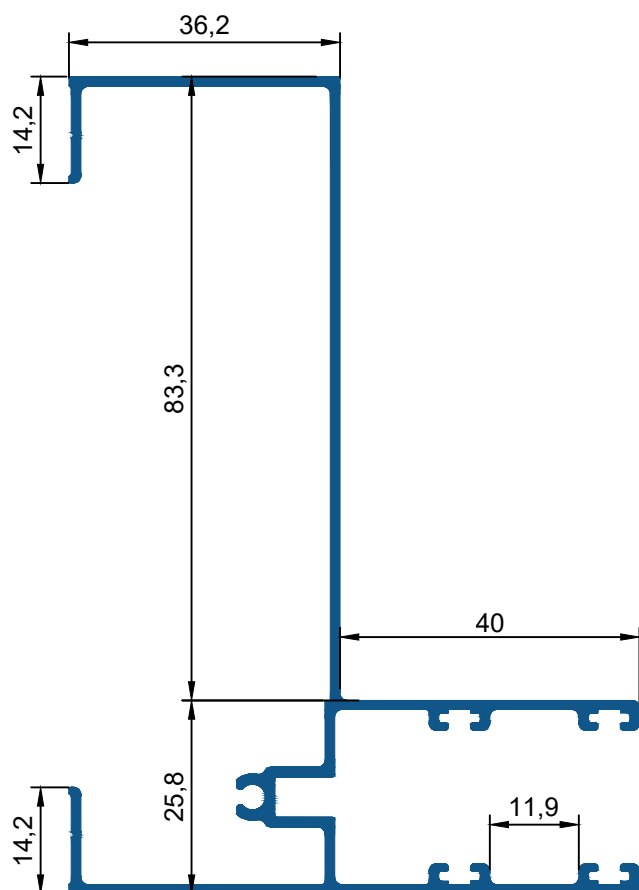
WIN-007
0,713 kg/m



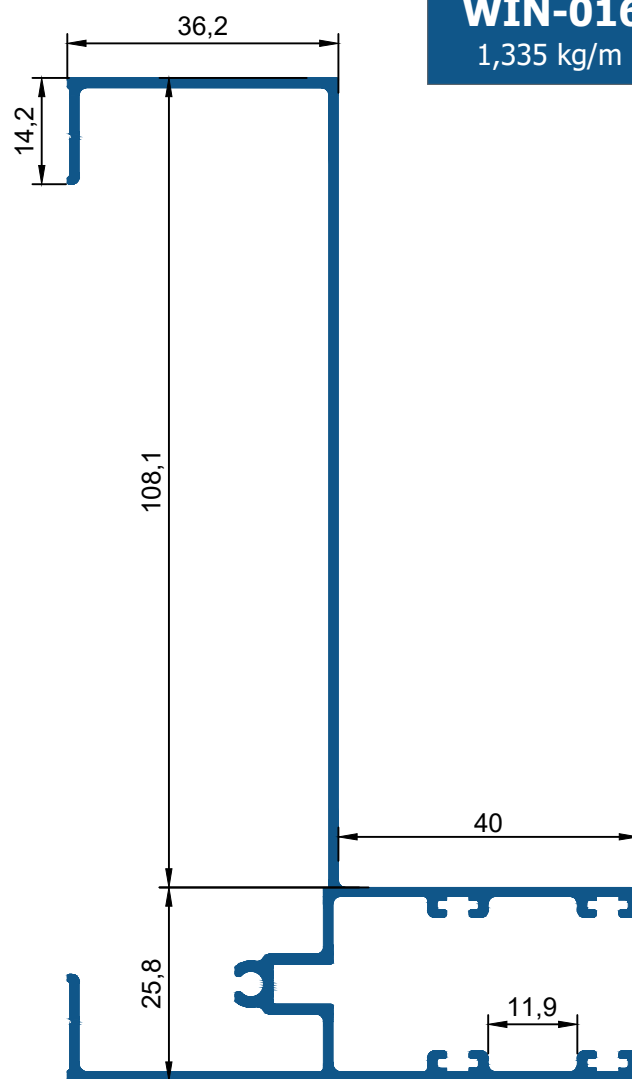
WIN-012
0,954 kg/m



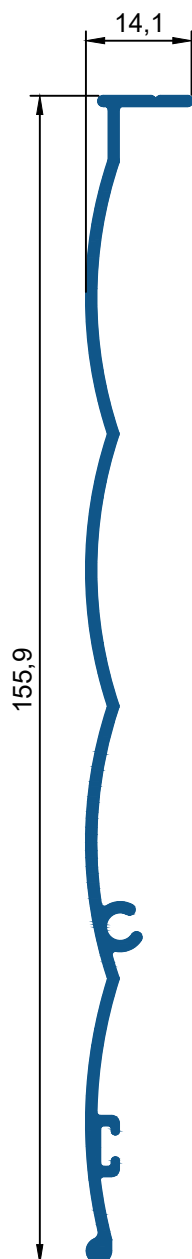
WIN-008
1,282 kg/m



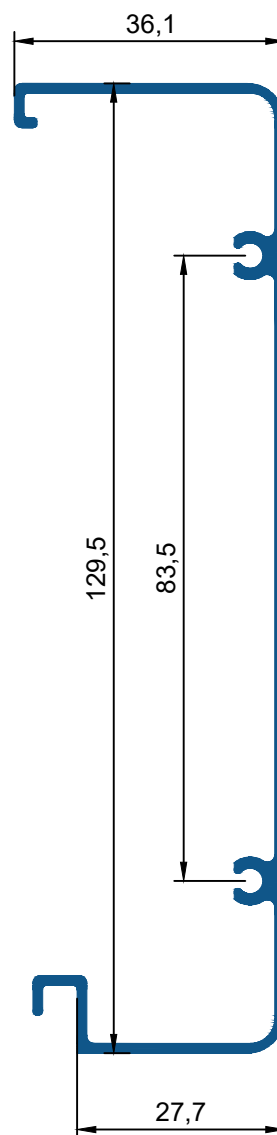
WIN-013
1,243 kg/m



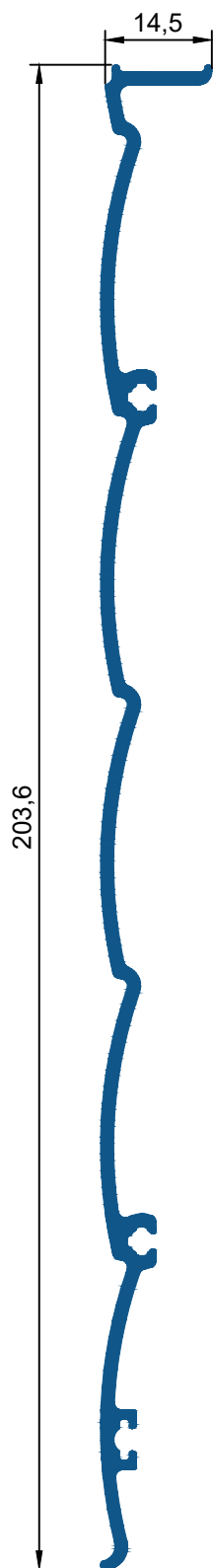
WIN-016
1,335 kg/m



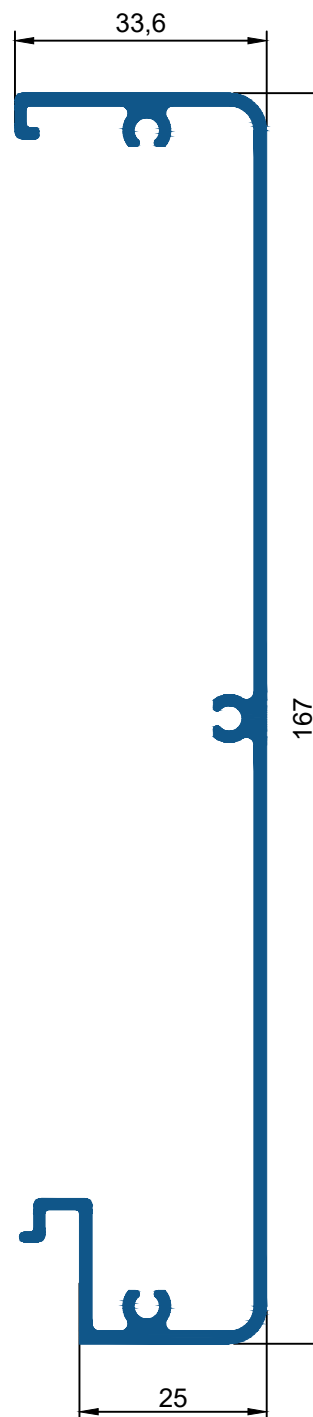
WIN-011
0,725 kg/m



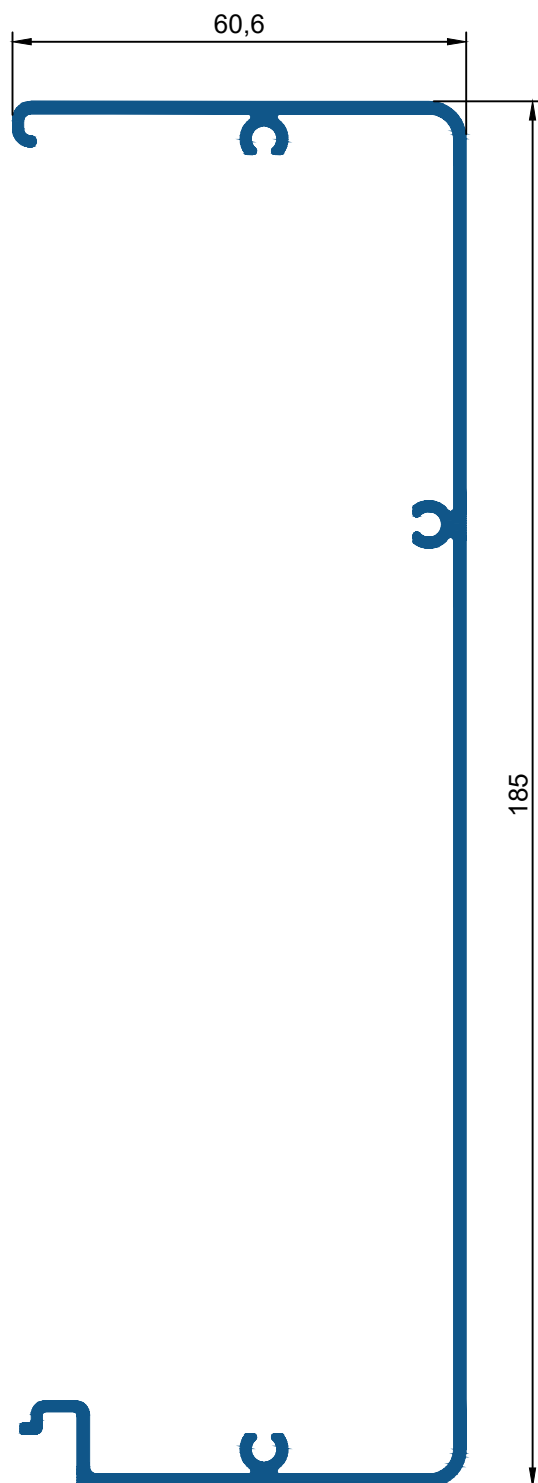
WIN-006
0,900 kg/m



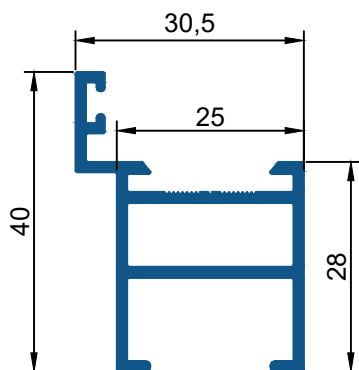
WIN-039
1,216 kg/m



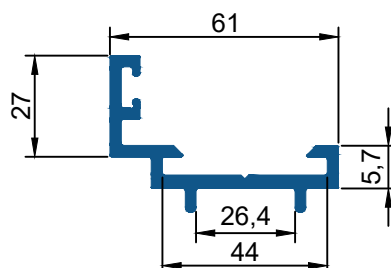
WIN-031
1,335 kg/m



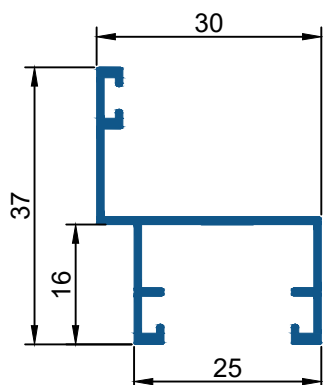
WIN-032
1,603 kg/m



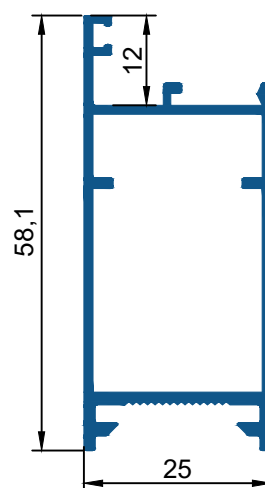
25-540
0,560 kg/m



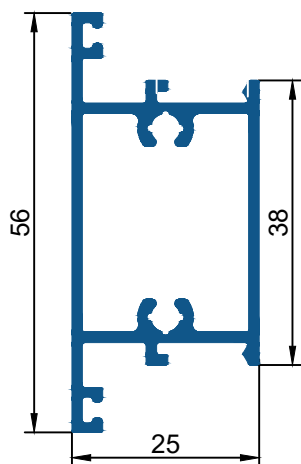
25-548
0,293 kg/m



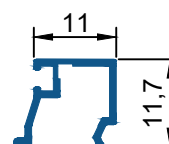
25-002
0,351 kg/m



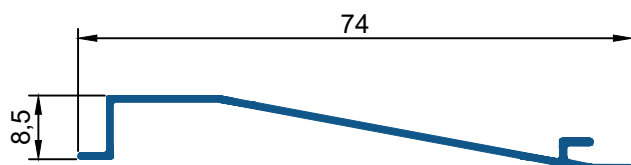
25-542
0,704 kg/m



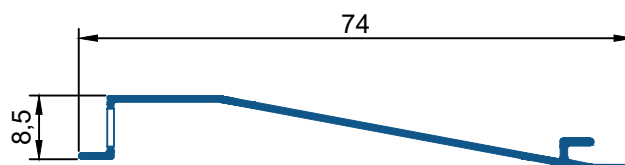
25-508
0,756 kg/m



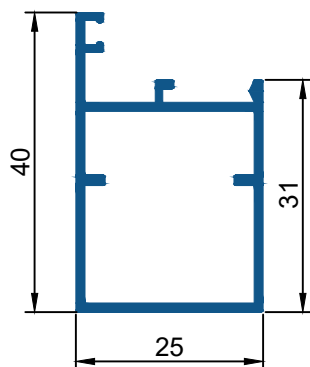
BG-001
0,108 kg/m



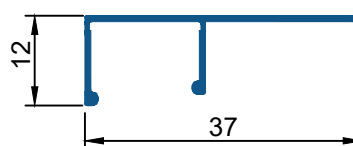
VZ-024
0,230 kg/m



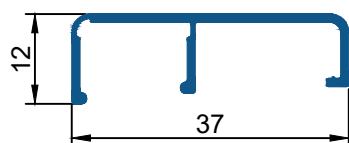
US-280
0,230 kg/m



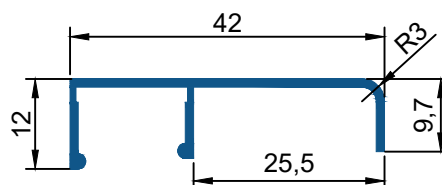
25-016
0,429 kg/m



MP-347
0,202 kg/m

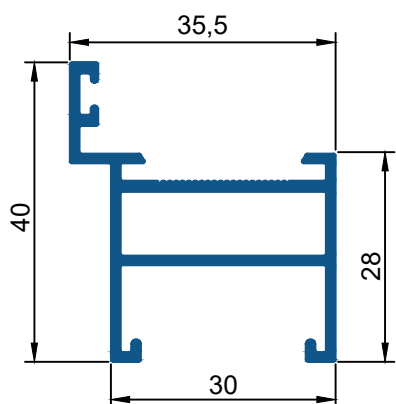


MH-0017
0,197 kg/m

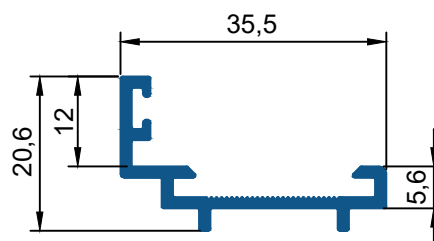


*** MN-014**
0,214 kg/m

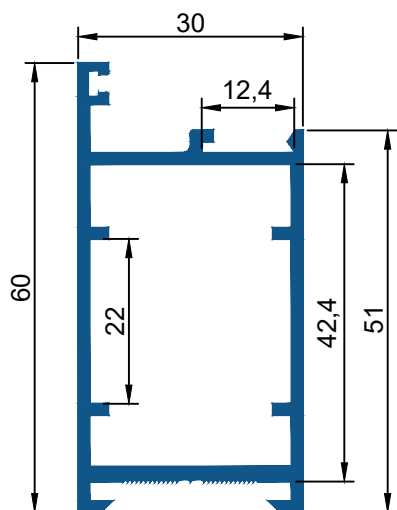
W30X45



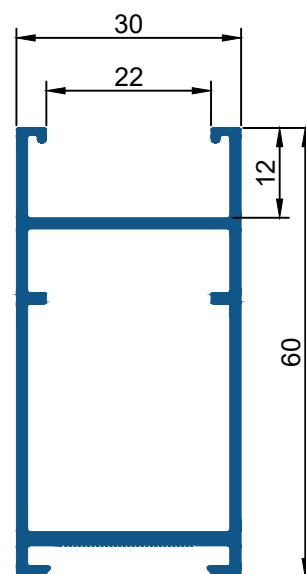
W30-023
0,539 kg/m



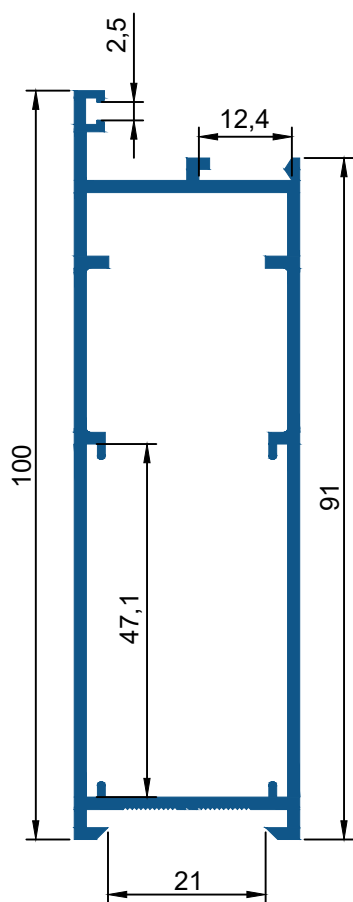
W30-034
0,292 kg/m



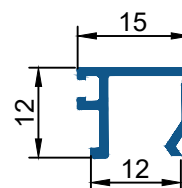
W30-026
0,792 kg/m



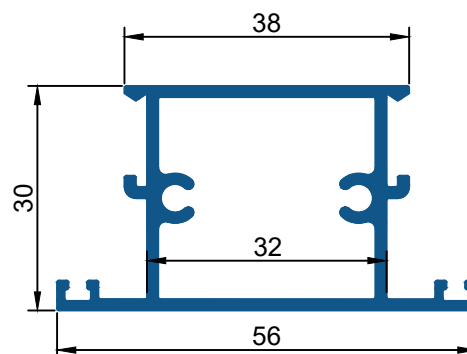
W30-077
0,796 kg/m



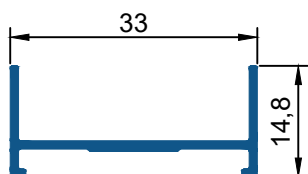
W30-082
1,195 kg/m



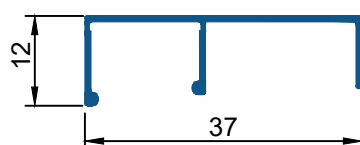
BG-010
0,119 kg/m



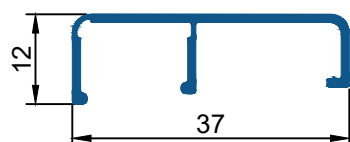
W30-025
0,752 kg/m



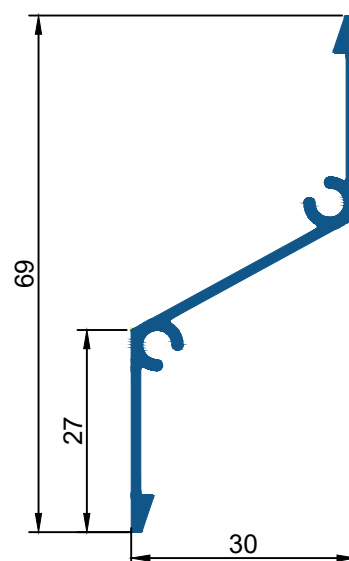
W28-514
0,195 kg/m



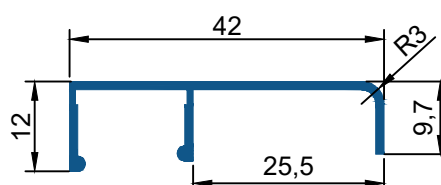
MP-347
0,202 kg/m



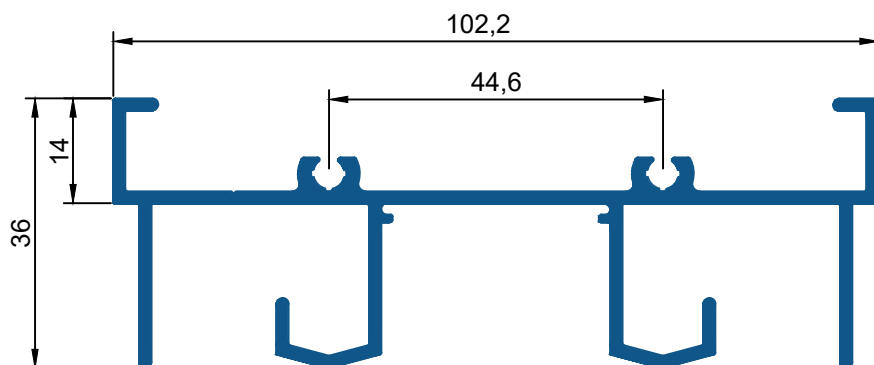
MH-0017
0,197 kg/m



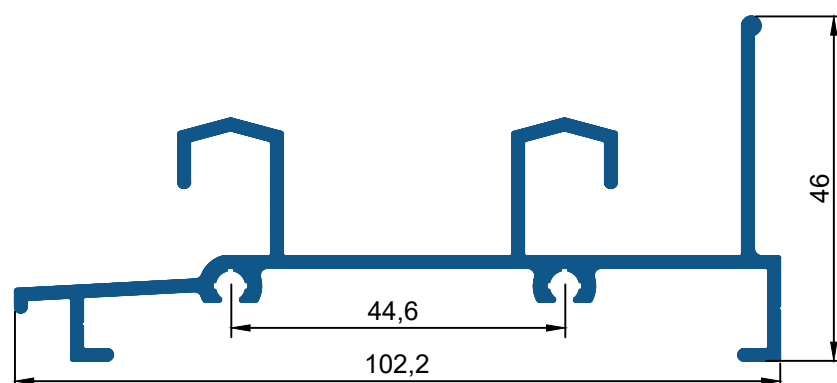
VZ-060
0,399 kg/m



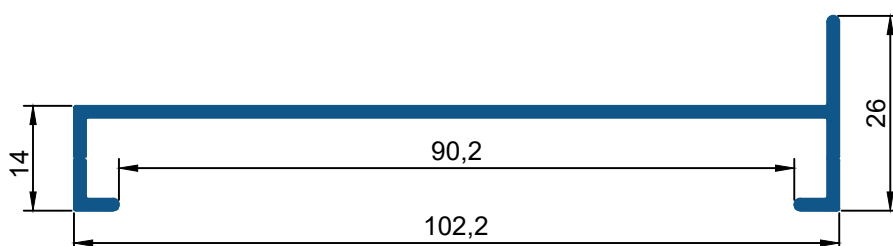
*** MN-014**
0,214 kg/m



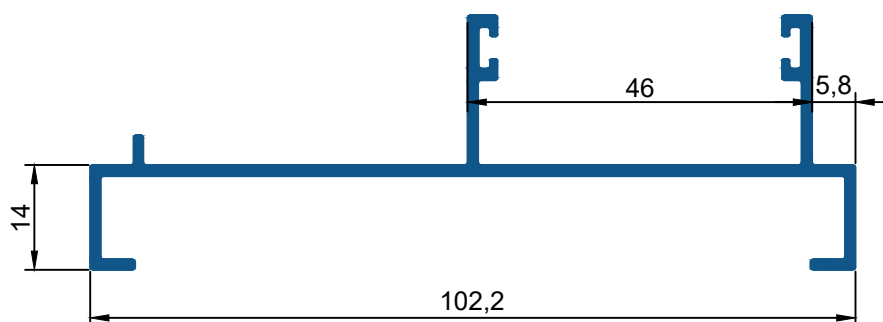
W32-044
1,247 kg/m



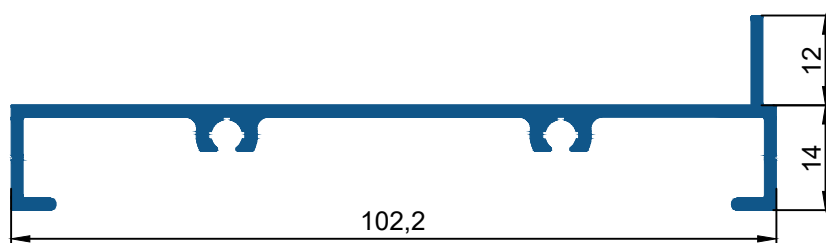
W32-047
1,133 kg/m



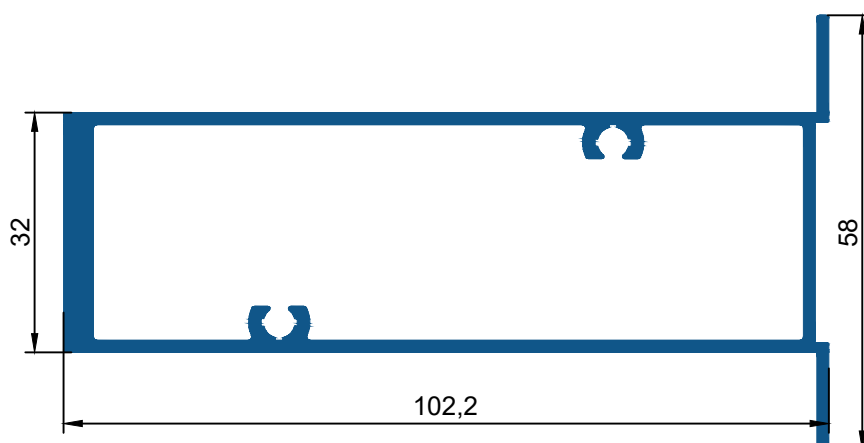
W32-002
0,638 kg/m



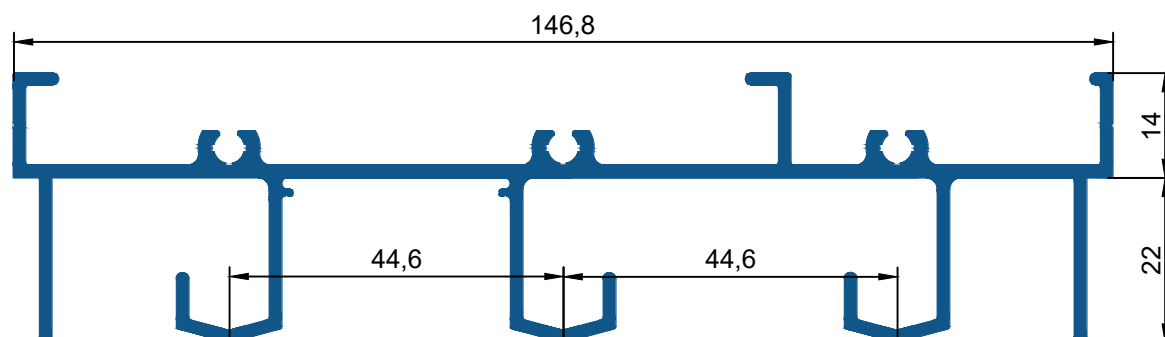
W32-124
0,773 kg/m



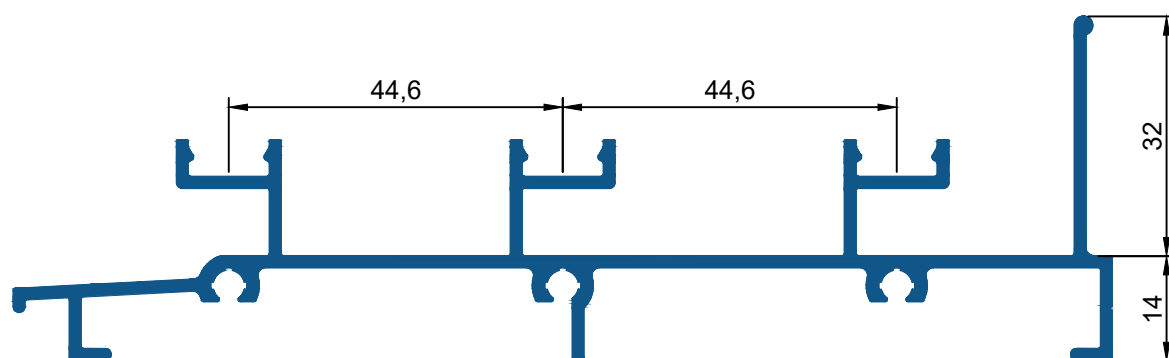
W32-003
0,756 kg/m



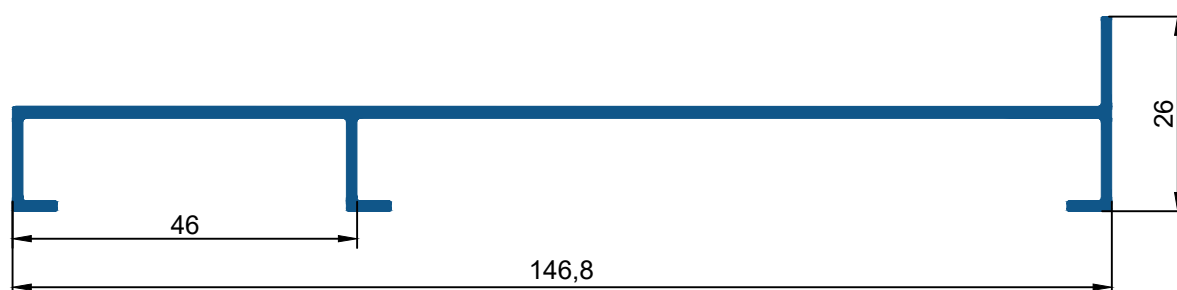
W32-176
1,542 kg/m



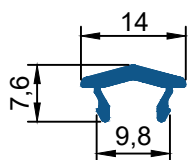
W32-062
1,766 kg/m



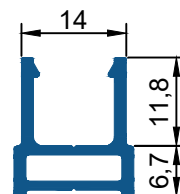
W32-116
1,551 kg/m



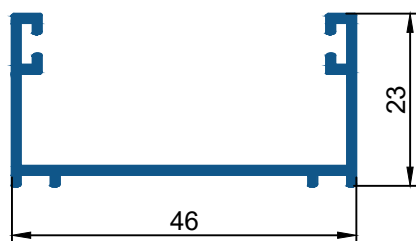
W32-158
0,876 kg/m



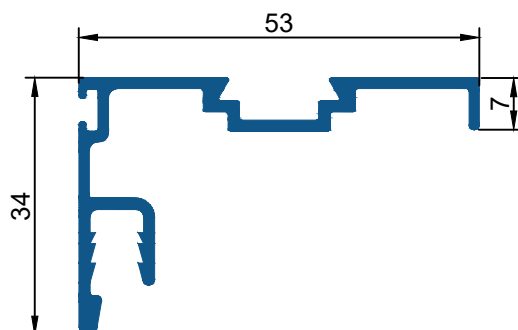
W32-111
0,096 kg/m



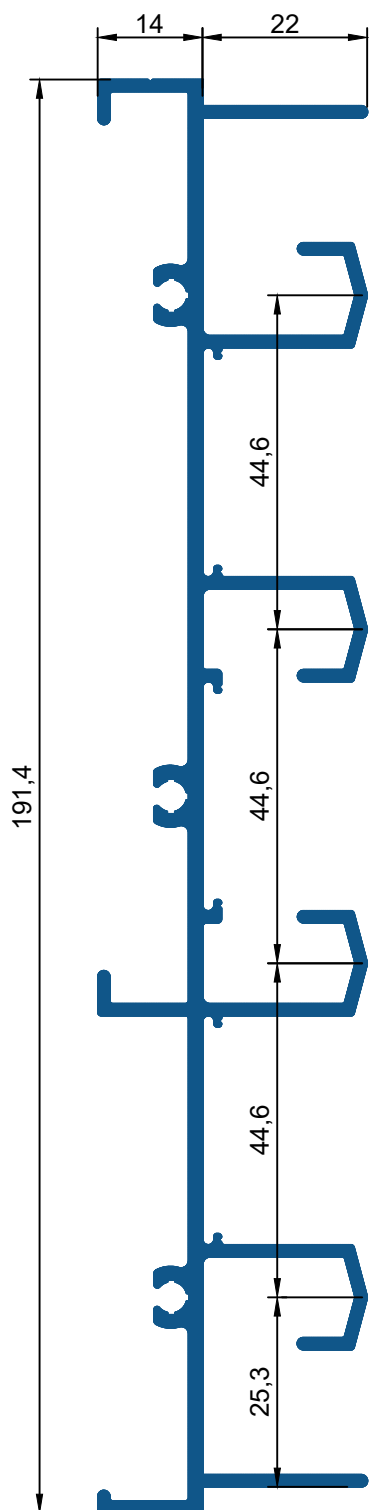
W32-157
0,250 kg/m



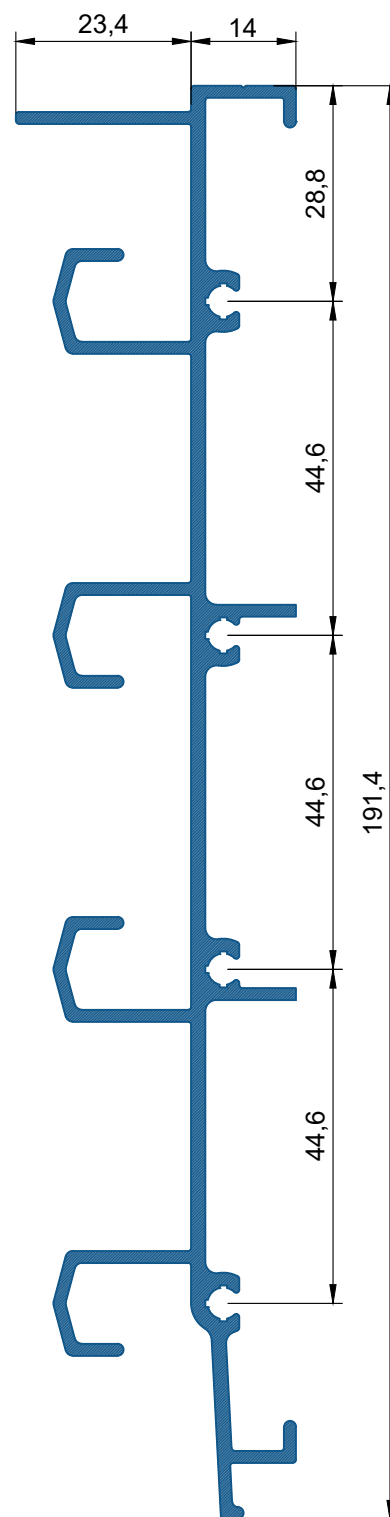
W32-028
0,454 kg/m



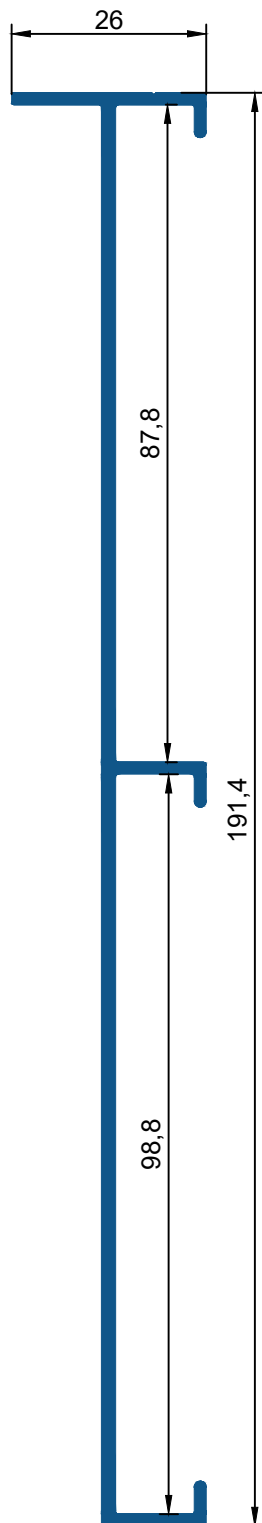
W32-023
0,550 kg/m



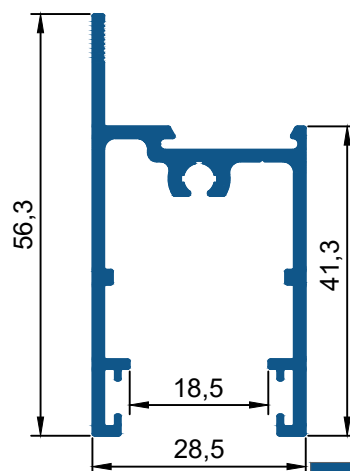
W32-070
2,273 kg/m



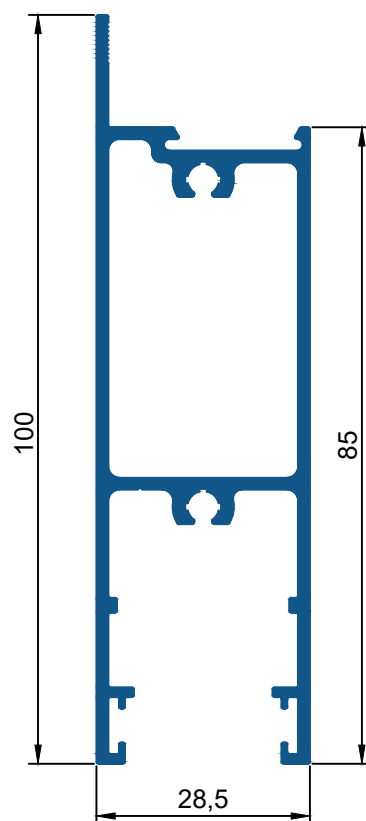
W32-071
2,120 kg/m



W32-072
1,250 kg/m



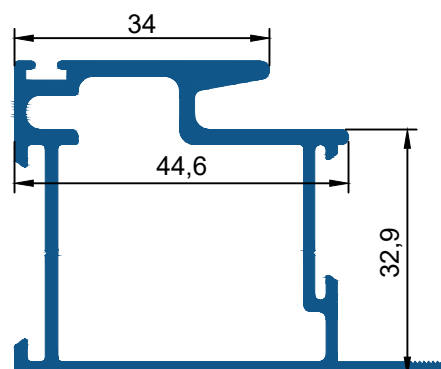
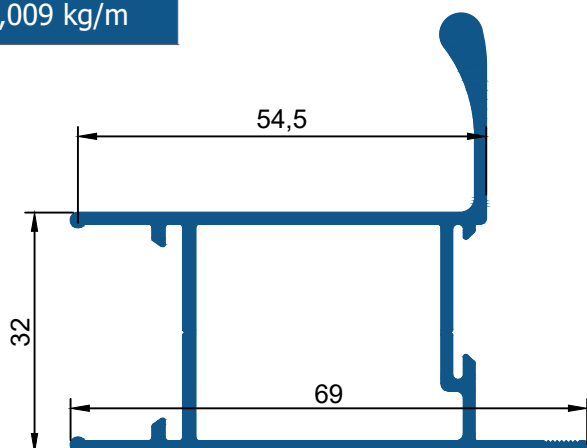
W32-006
0,677 kg/m



W32-007
1,230 kg/m

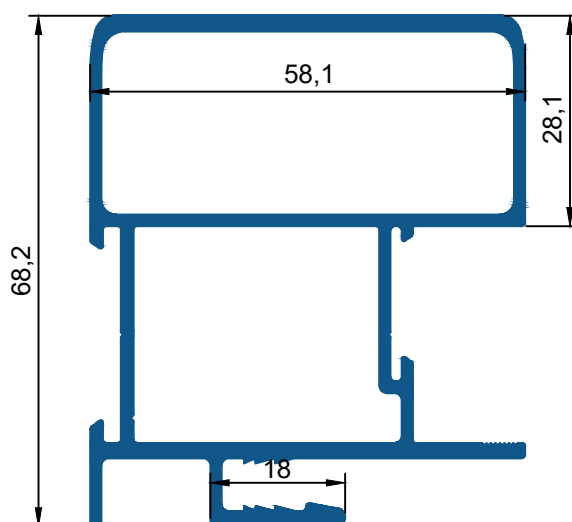
W32-017

1,009 kg/m



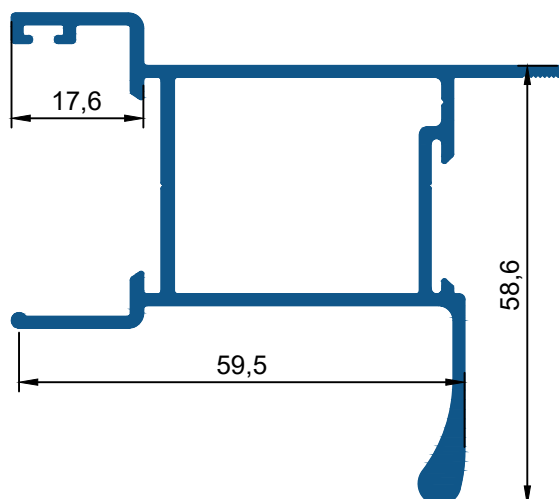
W32-019

1,080 kg/m



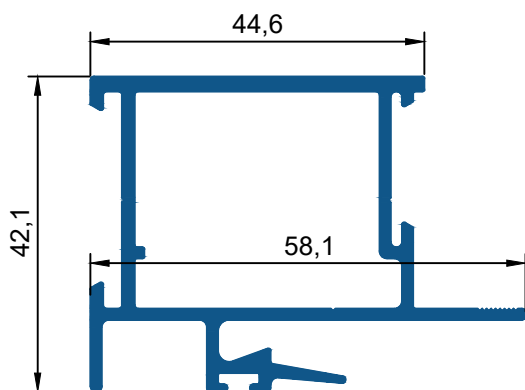
W32-018

1,572 kg/m

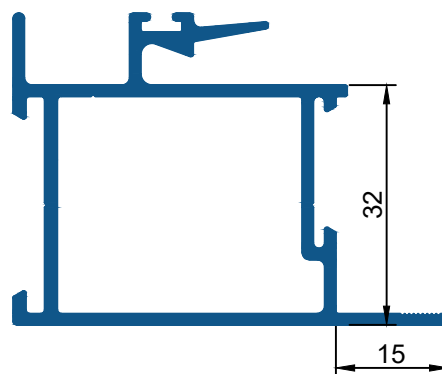


W32-020

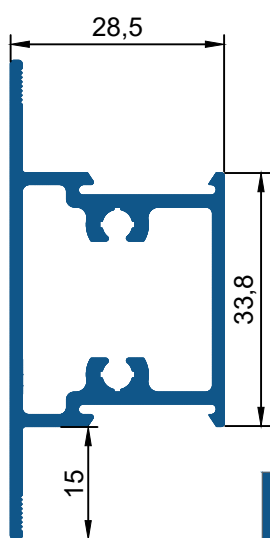
1,116 kg/m



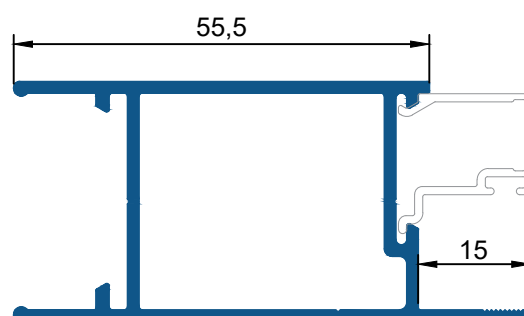
W32-048
0,967 kg/m



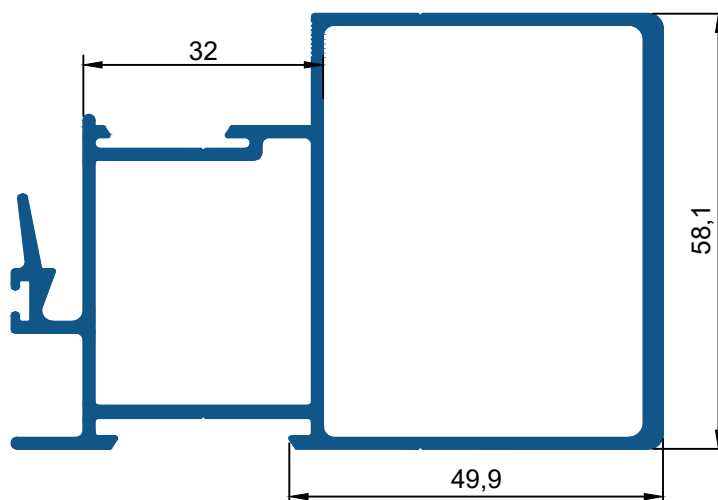
W32-049
0,908 kg/m



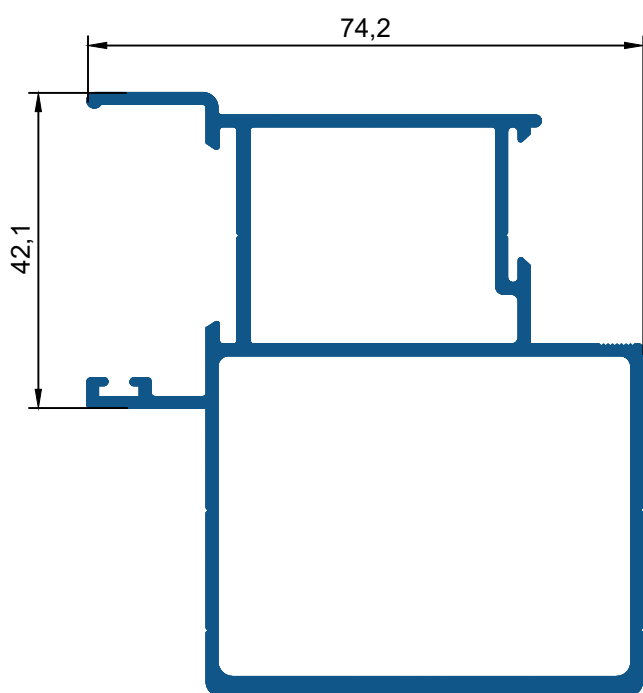
W32-055
0,758 kg/m



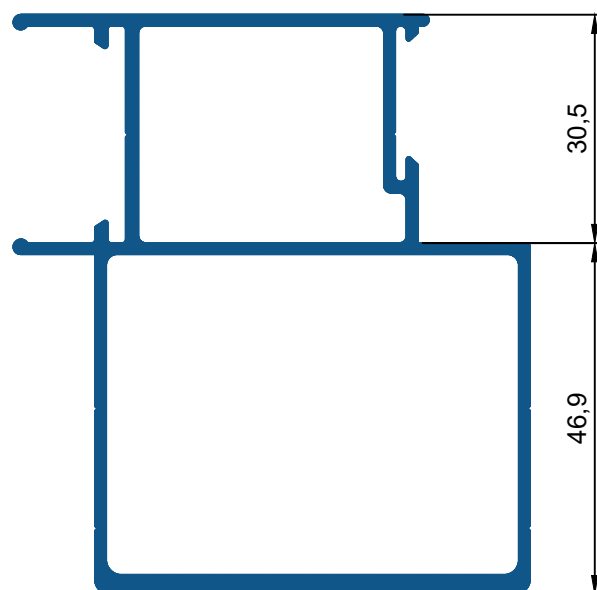
W32-050
0,811 kg/m



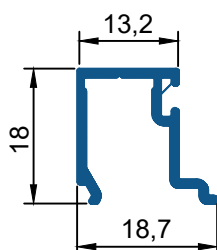
W32-052
1,669 kg/m



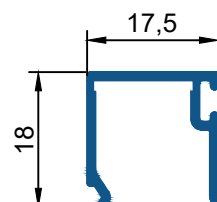
W32-053
1,659 kg/m



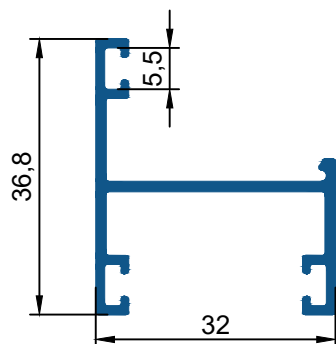
W32-054
1,575 kg/m



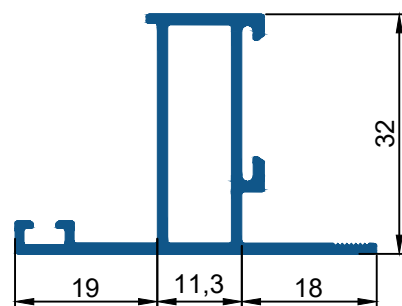
W32-057
0,170 kg/m



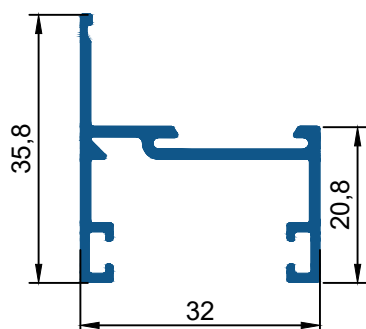
W32-059
0,173 kg/m



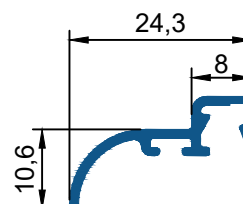
W32-068
0,400 kg/m



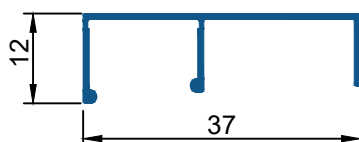
W32-085
0,518 kg/m



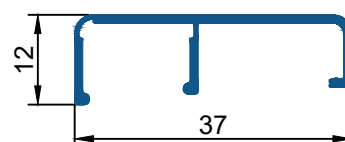
W32-083
0,417 kg/m



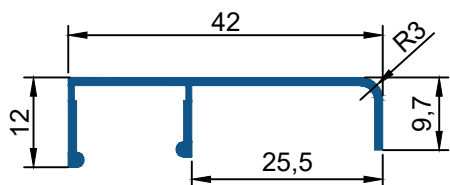
W32-091
0,151 kg/m



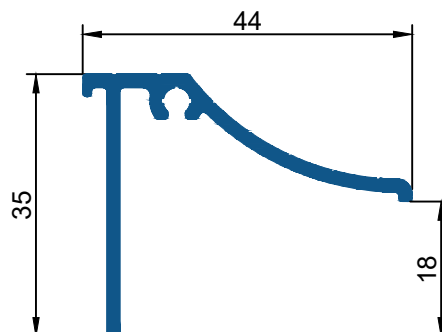
MP-347
0,202 kg/m



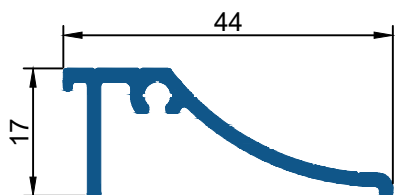
MH-0017
0,197 kg/m



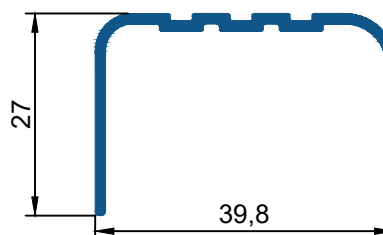
MN-014
0,214 kg/m



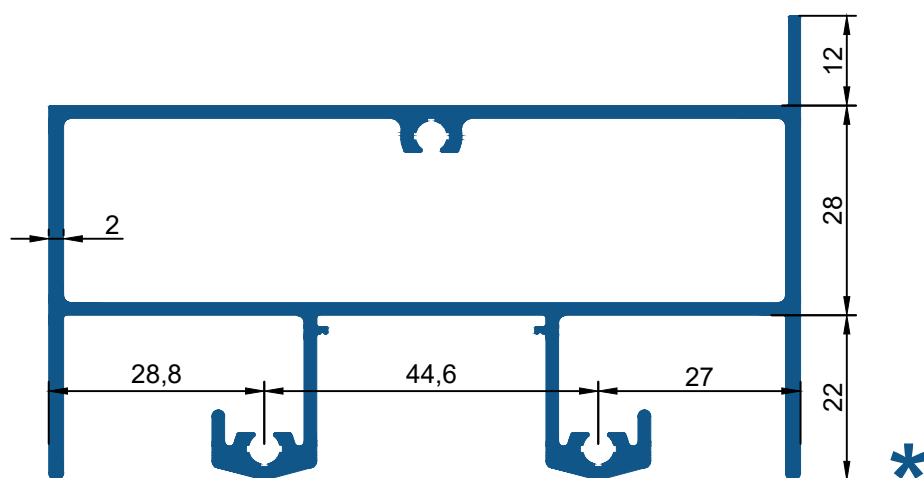
CM-169
0,435 kg/m



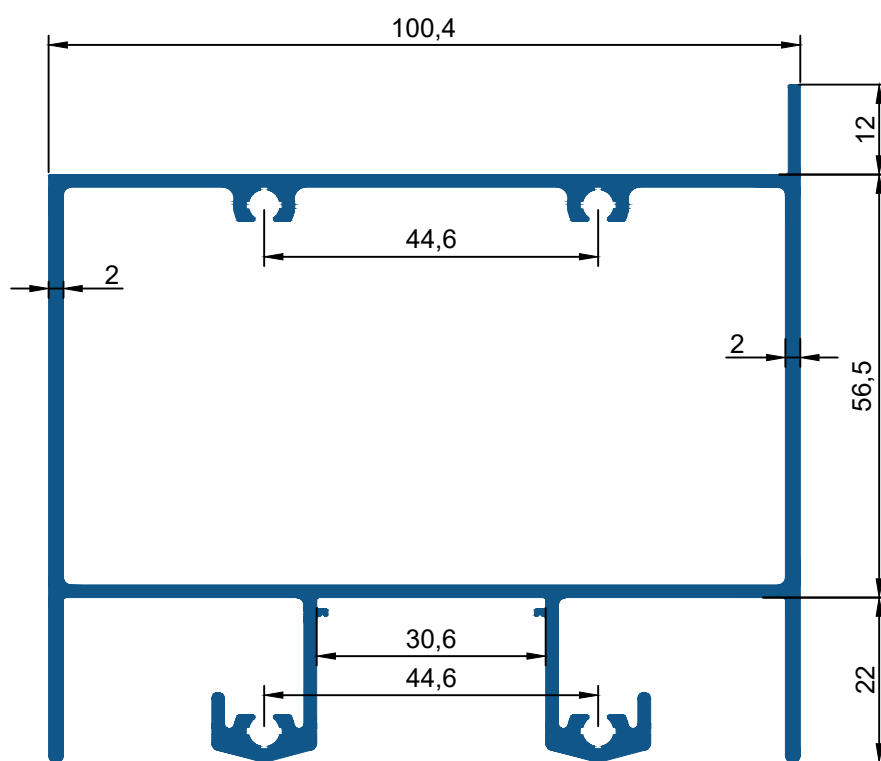
CM-493
0,365 kg/m



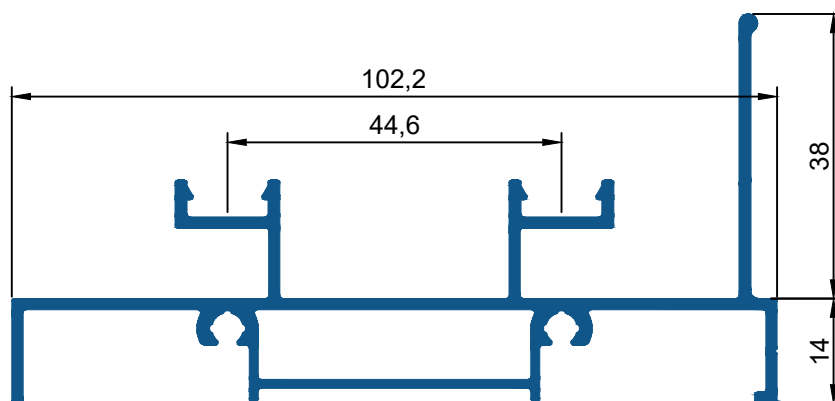
ME-013
0,268 kg/m



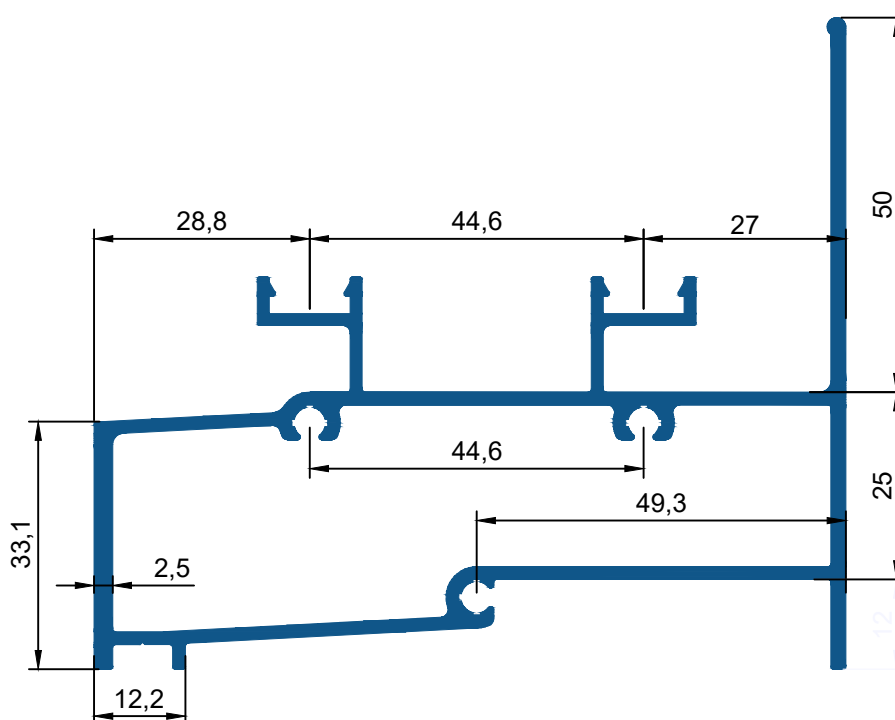
W32-004
2,022 kg/m



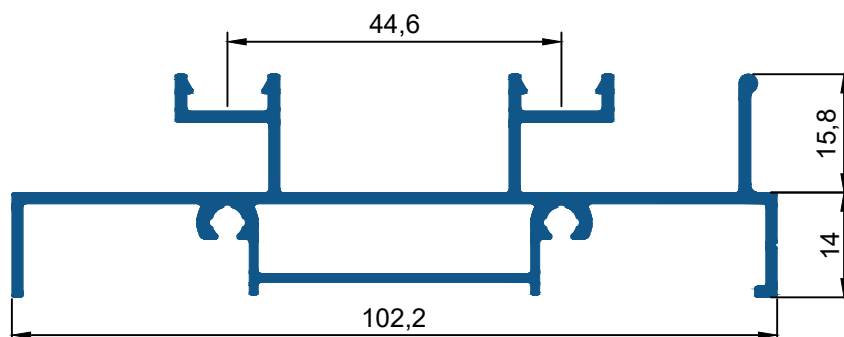
W32-1008
2,510 kg/m



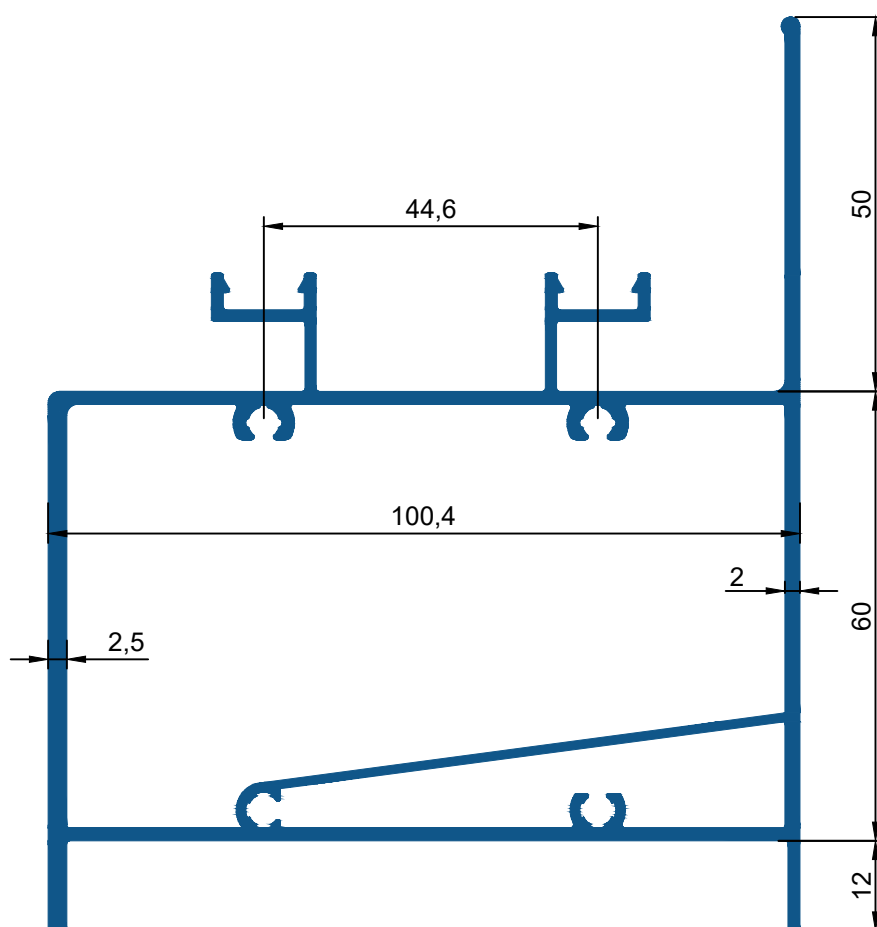
W32-1024
1,324 kg/m



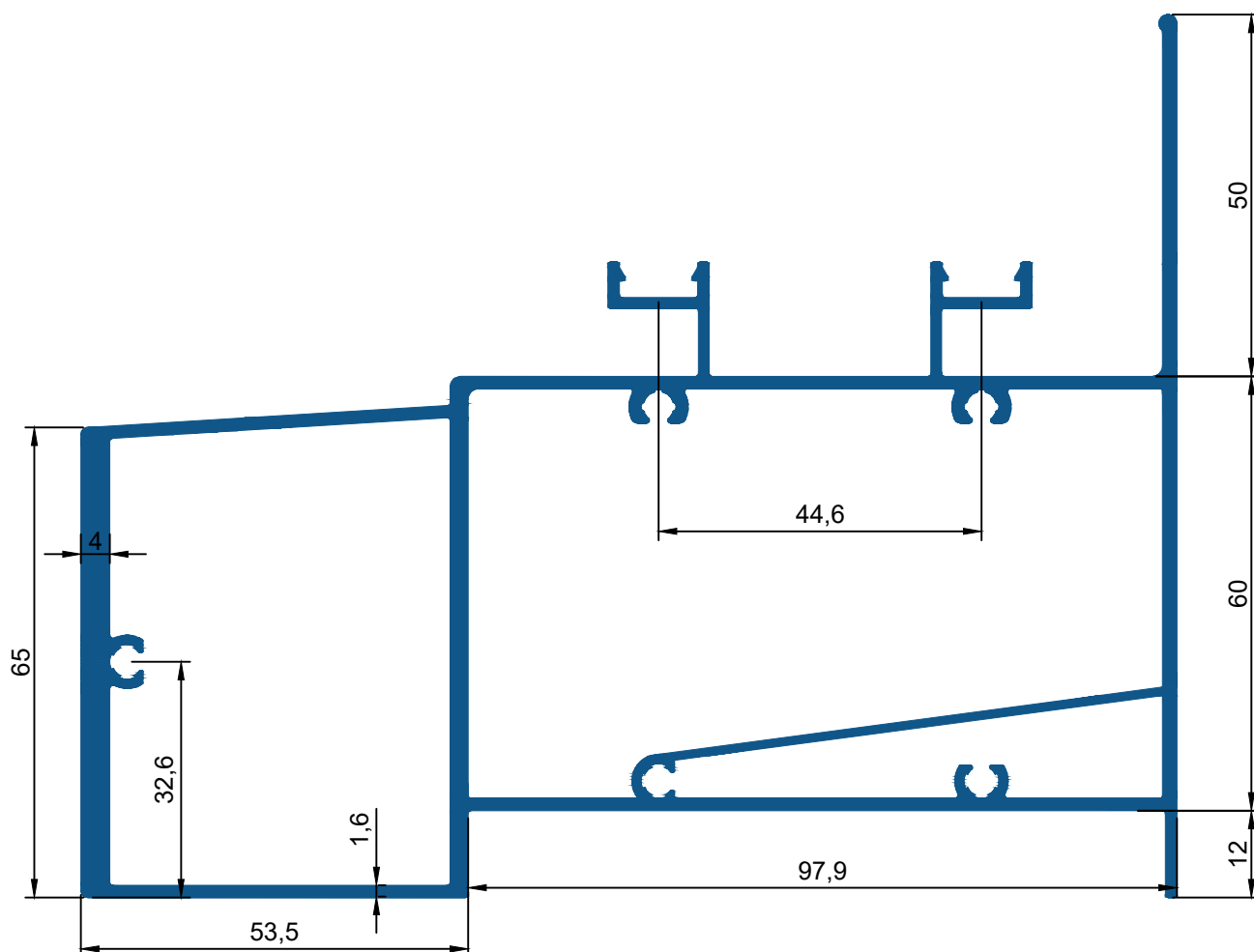
W32-1041
2,060 kg/m



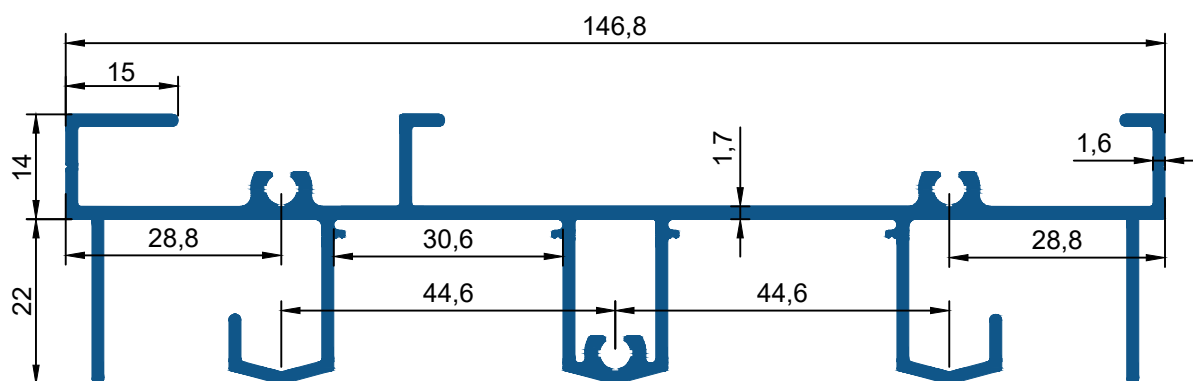
W32-1025
1,223 kg/m



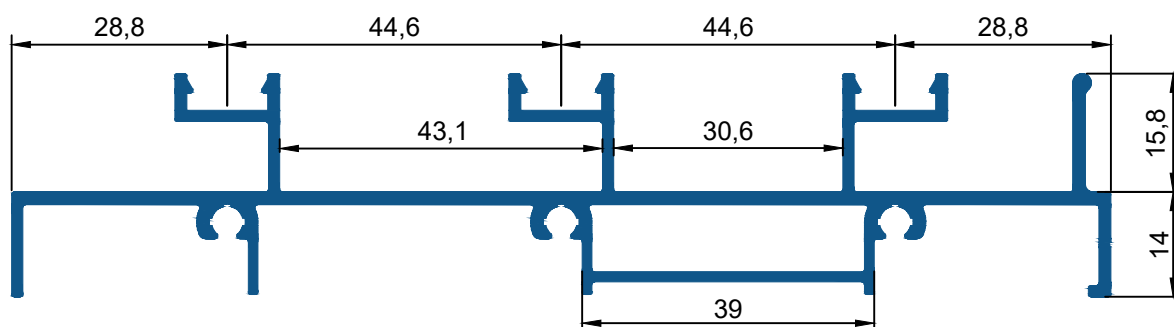
W32-1005
2,857 kg/m



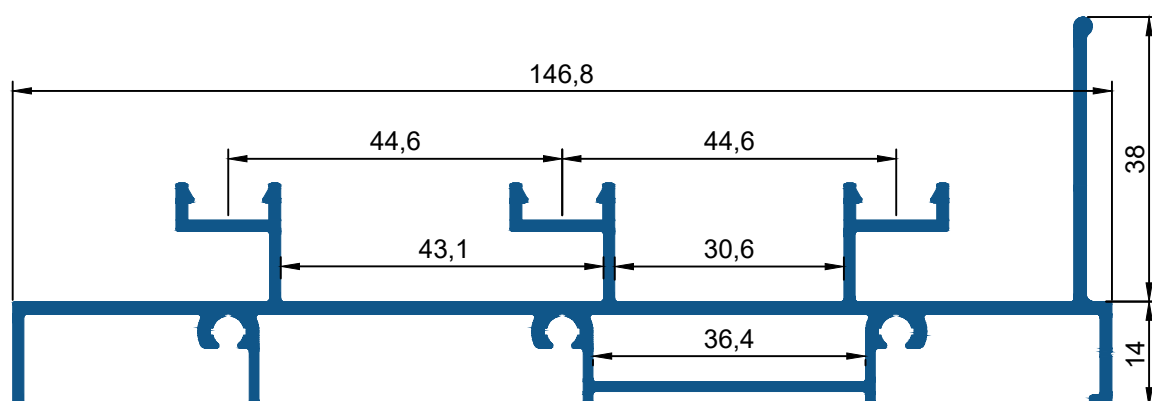
*** W32-1009**
4,098 kg/m



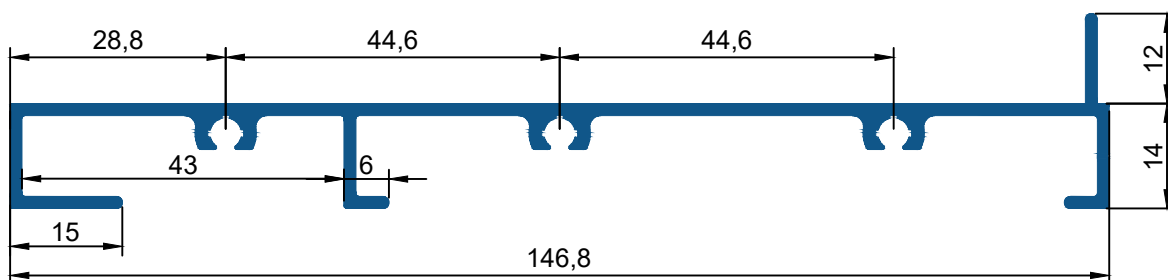
*** W32-1062**
1,962 kg/m



*** W32-1118**
1,744 kg/m



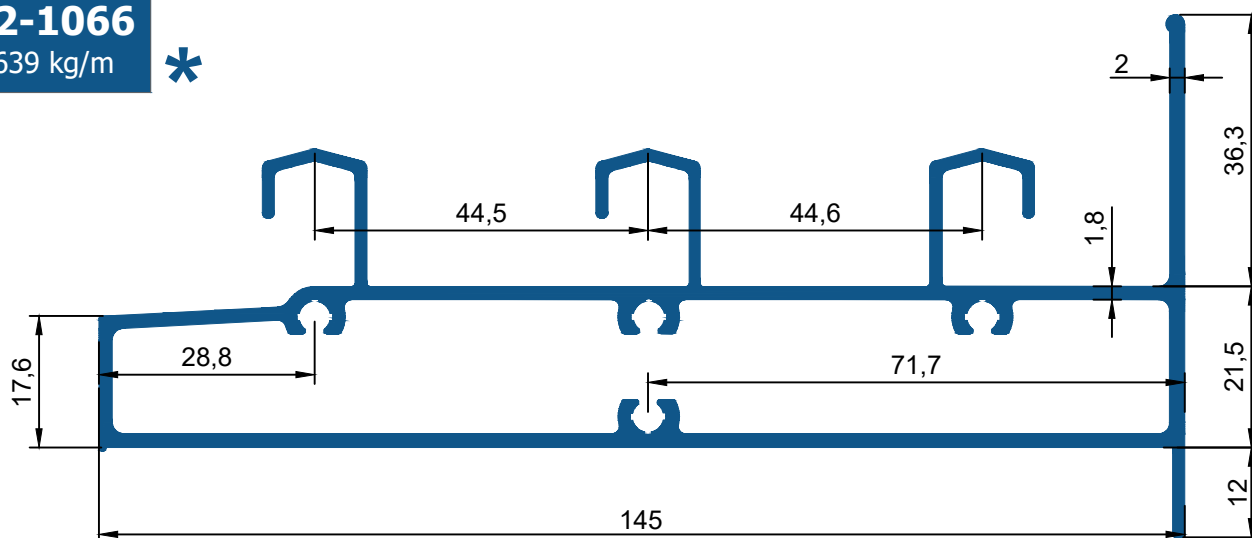
*** W32-1119**
1,851 kg/m



W32-1120
1,176 kg/m

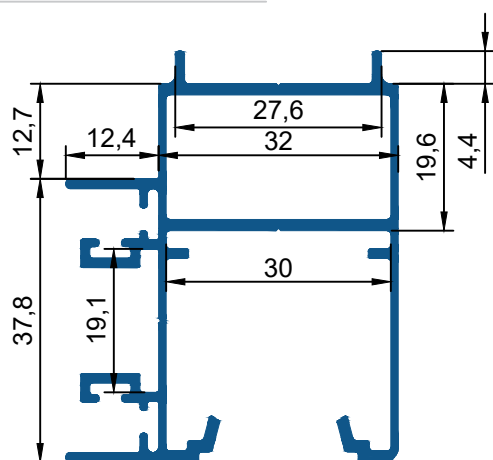
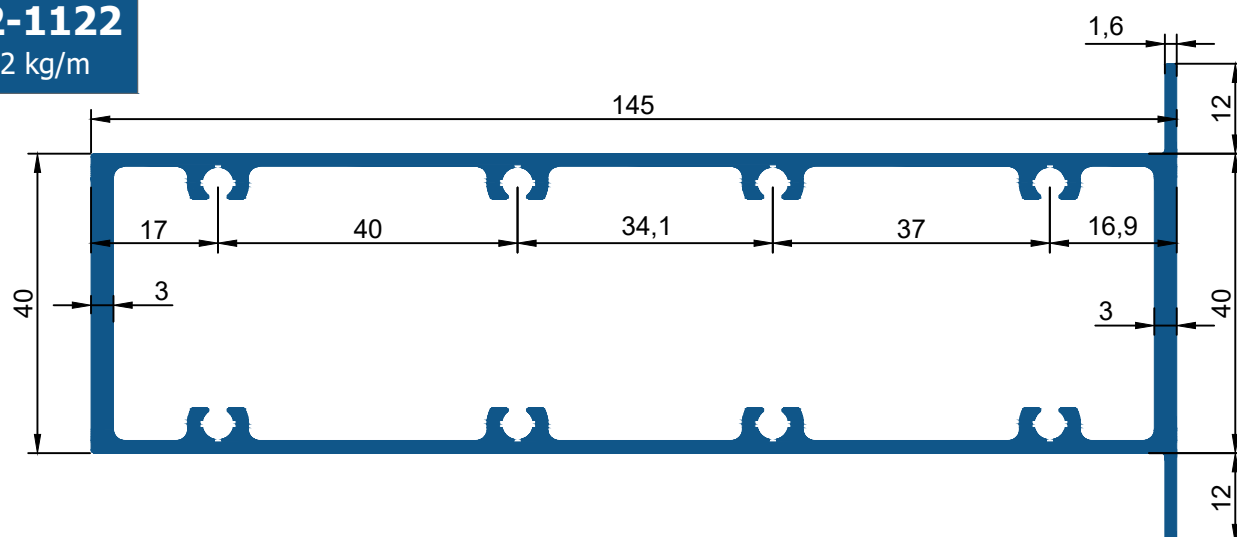
W32-1066

2,639 kg/m



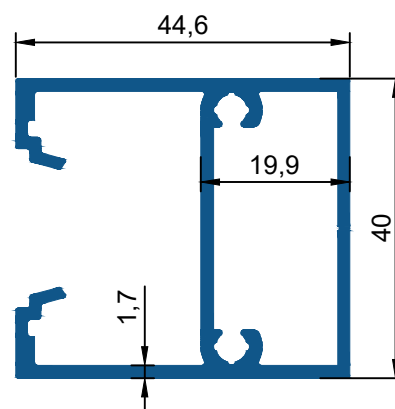
W32-1122

2,602 kg/m



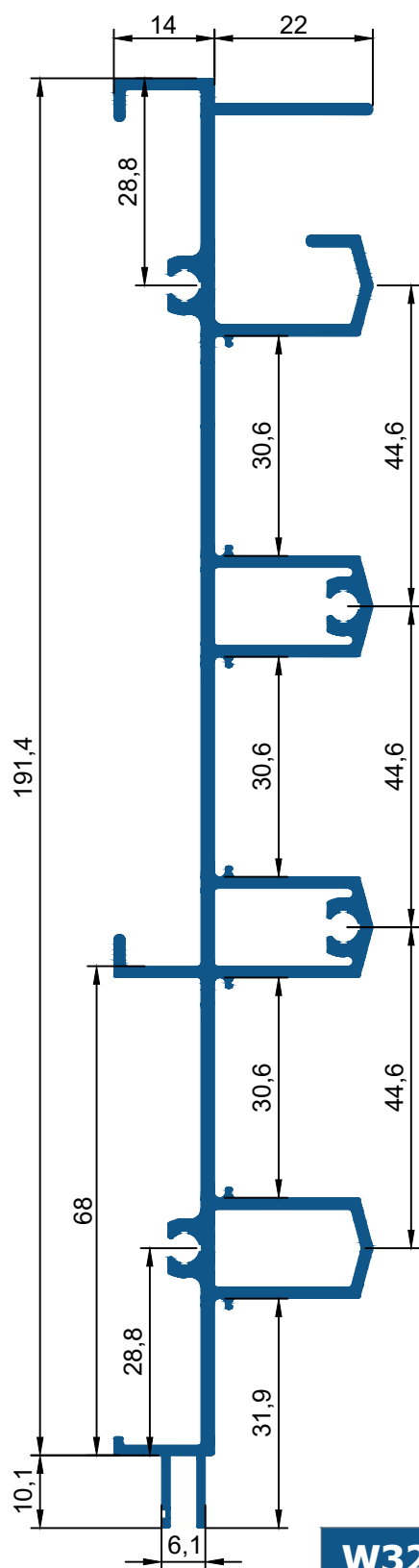
W32-1037

0,924 kg/m

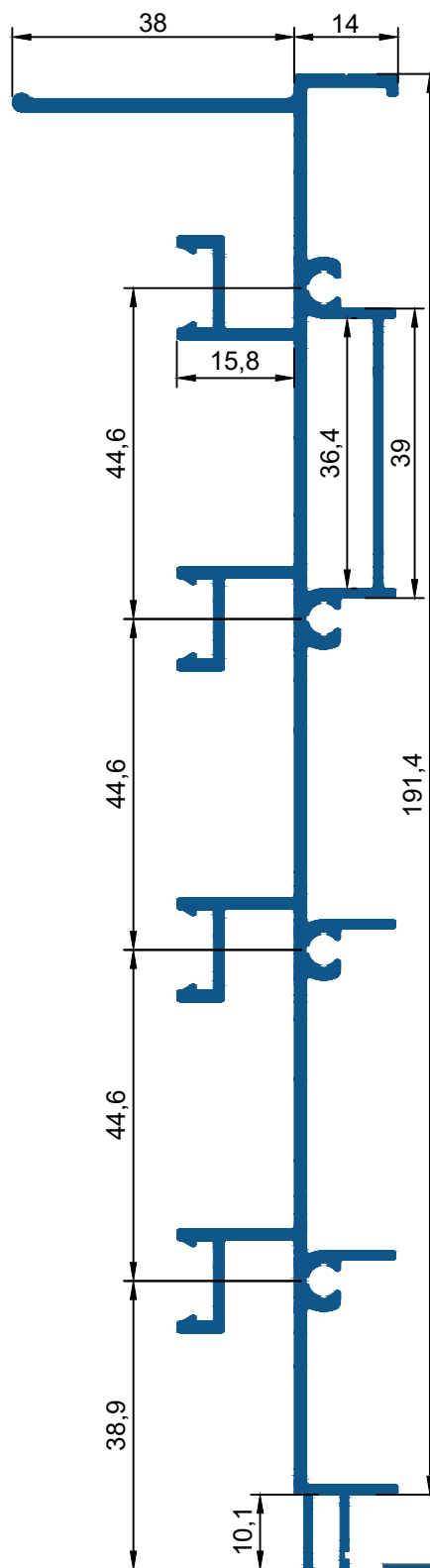


W32-1123

0,999 kg/m

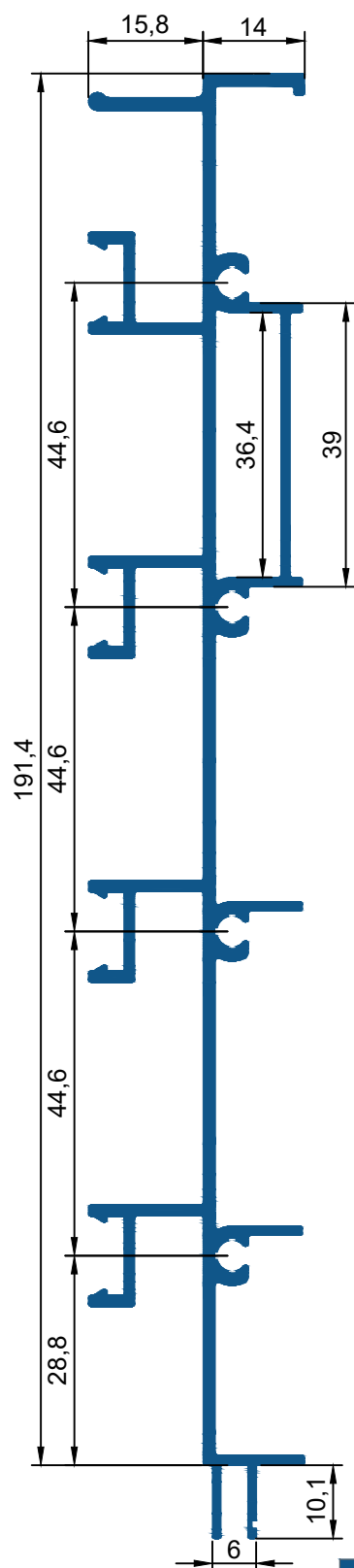


W32-1030
2,550 kg/m

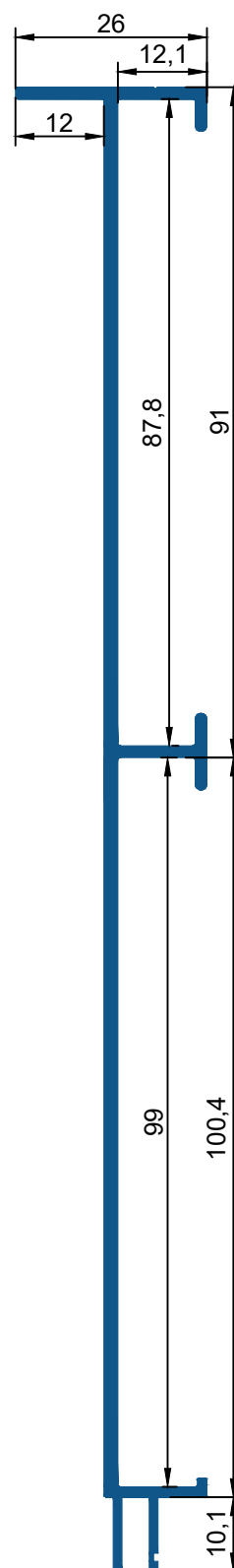


W32-1032
2,384 kg/m



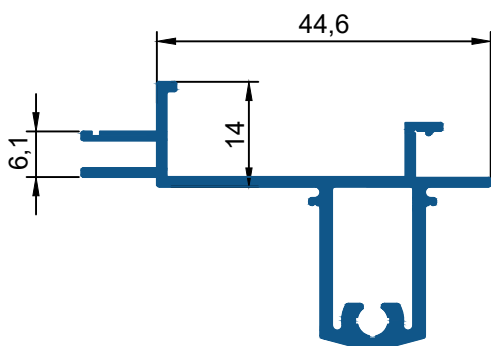


W32-1031
2,267 kg/m

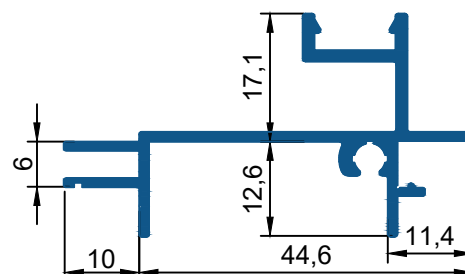


W32-1033
1,377 kg/m

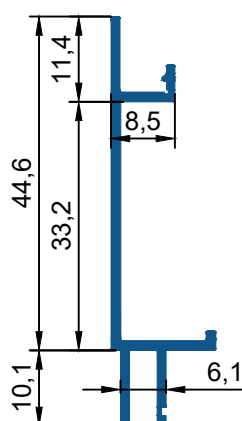




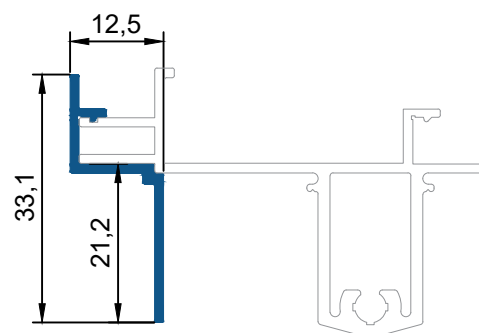
*** W32-1034**
0,616 kg/m



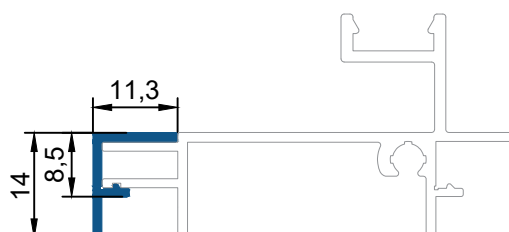
*** W32-1035**
0,521 kg/m



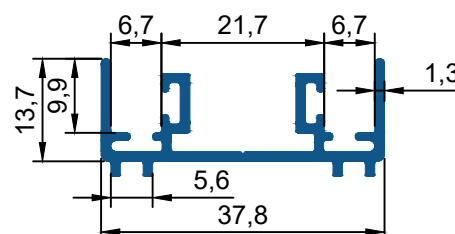
*** W32-1036**
0,319 kg/m



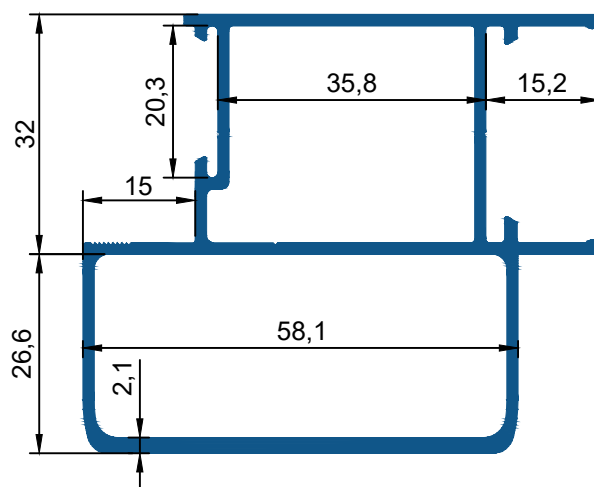
*** WAC-001**
0,165 kg/m



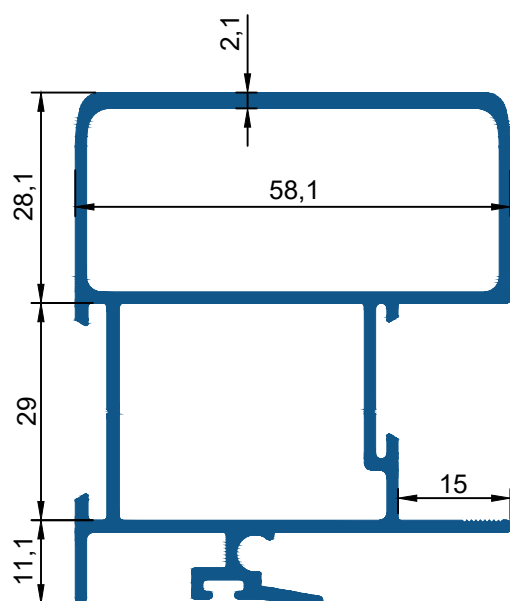
*** WAC-002**
0,094 kg/m



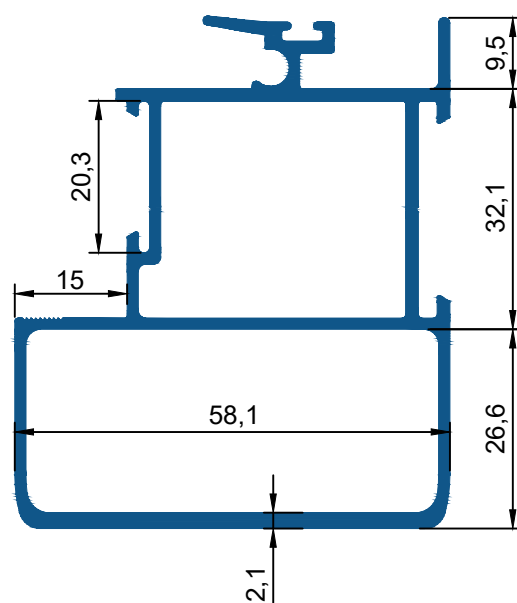
*** W32S-004**
0,384 kg/m



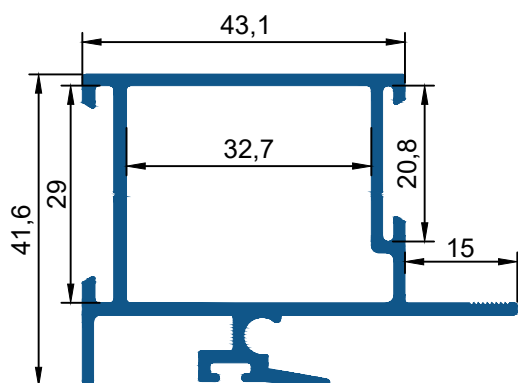
*** W32-1078**
1,390 kg/m



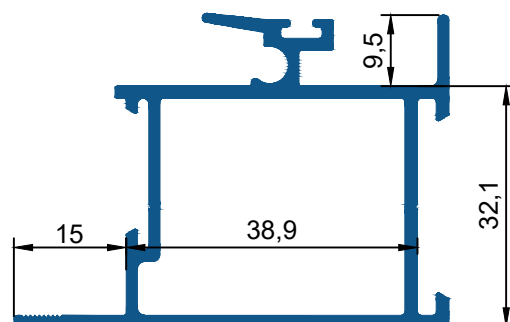
*** W32-1018**
1,571 kg/m



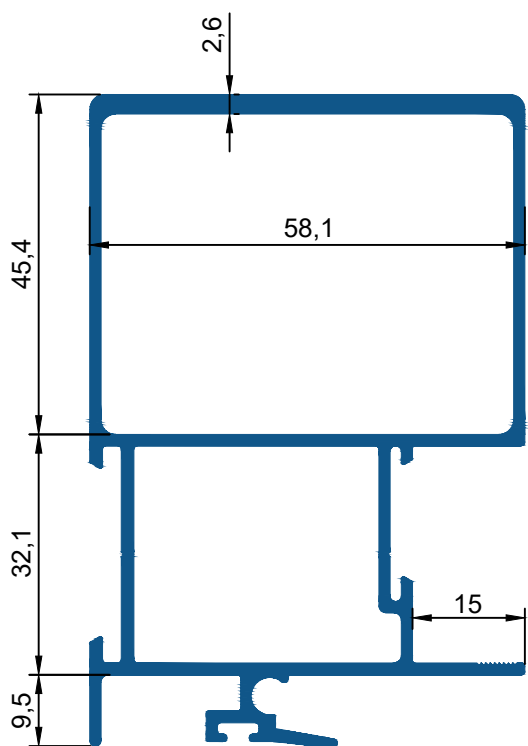
*** W32-1060**
1,504 kg/m



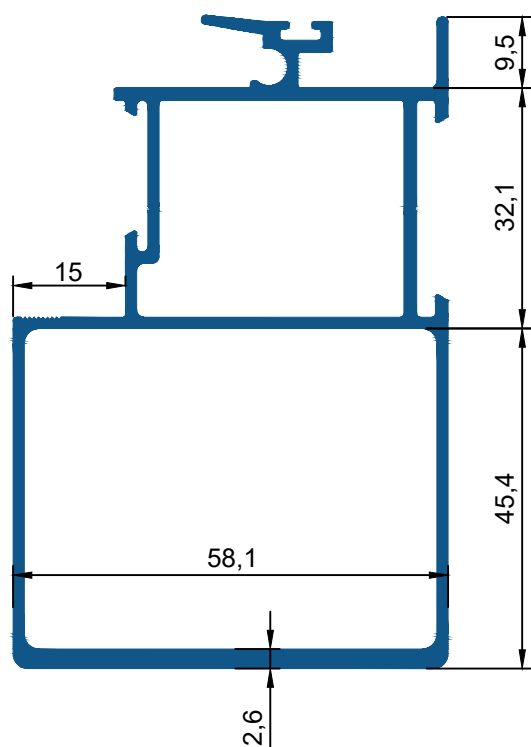
*** W32-1048**
0,960 kg/m



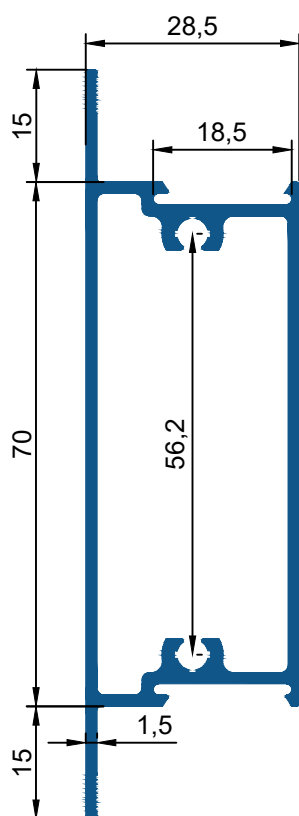
*** W32-1049**
0,951 kg/m



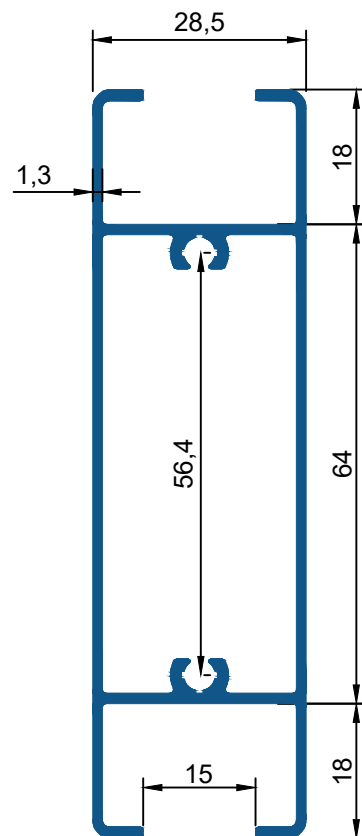
*** W32-1067**
1,818 kg/m



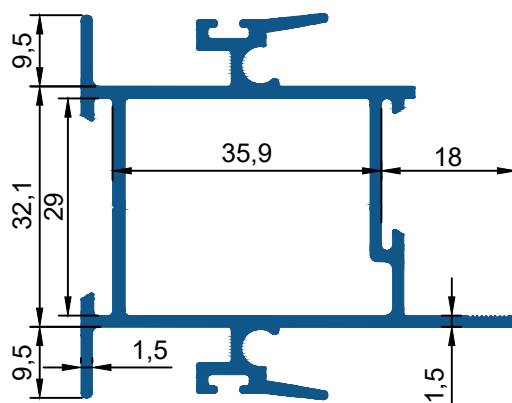
*** W32-1052**
1,751 kg/m



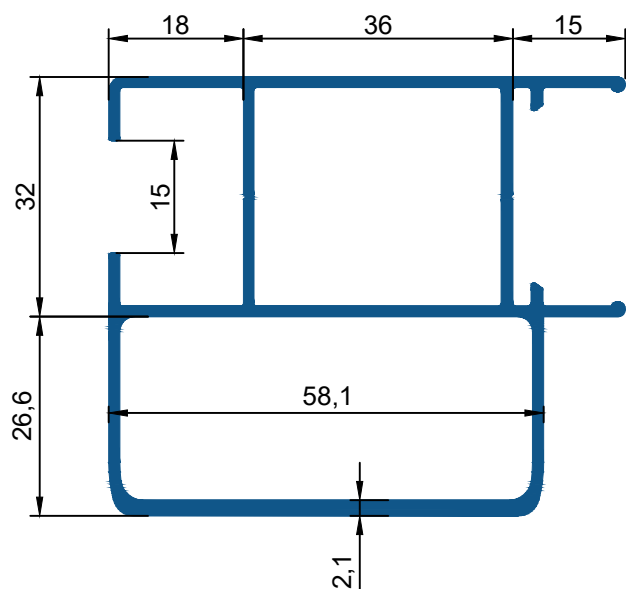
*** W32-022**
1,051 kg/m



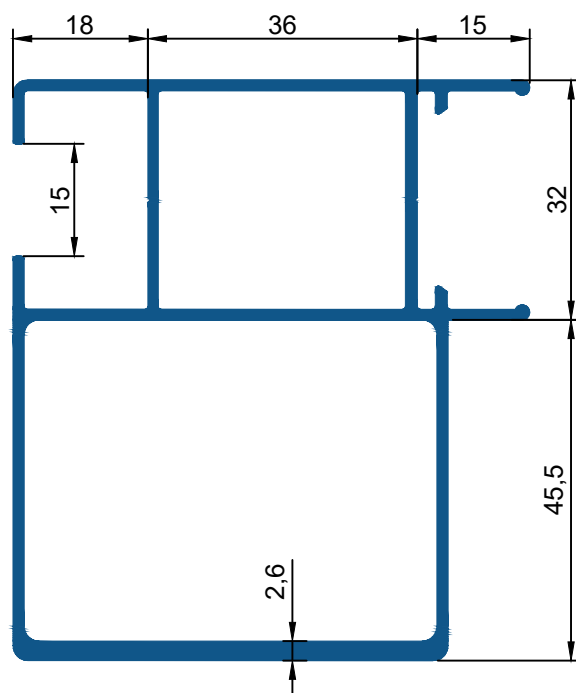
*** W32-1029**
1,131 kg/m



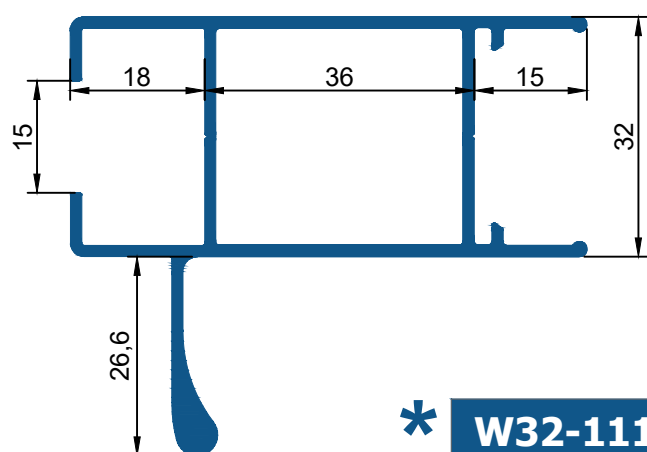
*** W32-1162**
1,130 kg/m



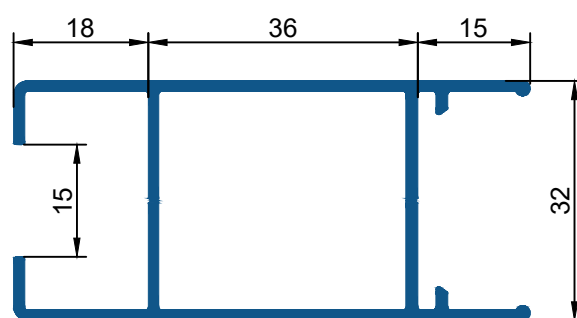
*** W32-1097**
1,440 kg/m



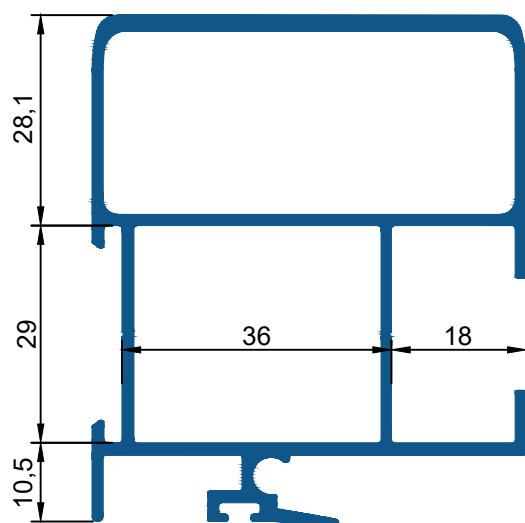
*** W32-1098**
1,668 kg/m



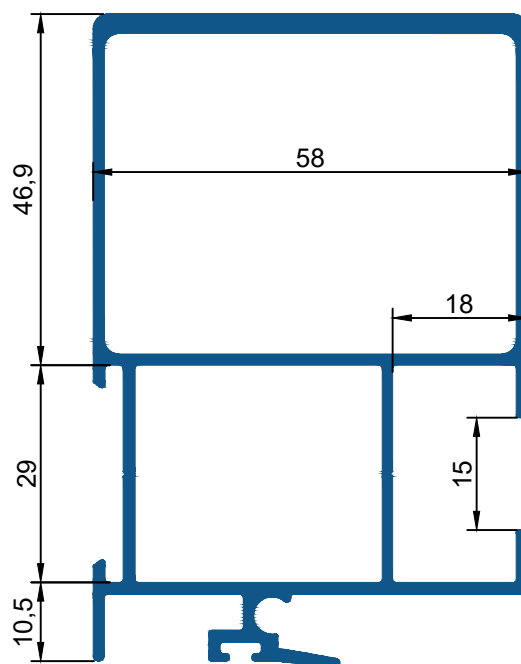
*** W32-1114**
1,073 kg/m



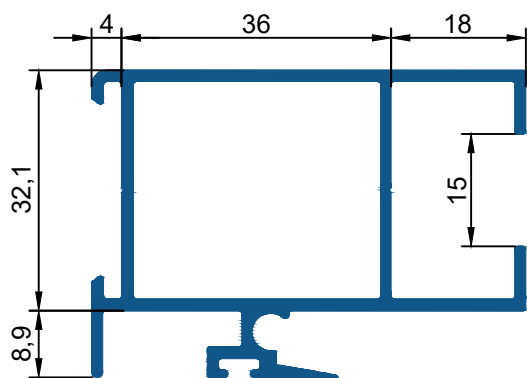
W32-1090
0,884 kg/m



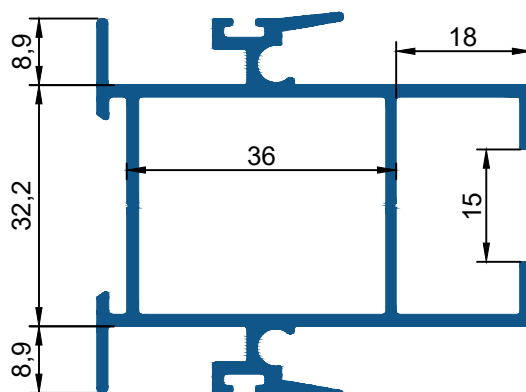
*** W32-1096**
1,572 kg/m



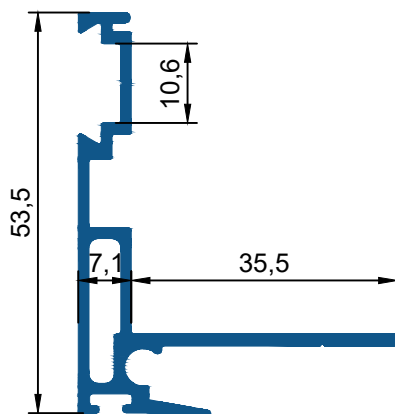
W32-1094
1,820 kg/m



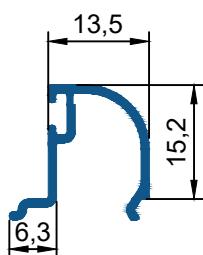
W32-1095
1,017 kg/m



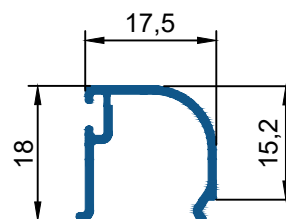
*** W32-1142**
1,213 kg/m



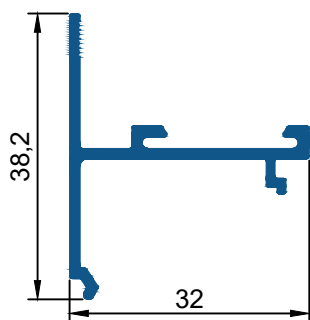
*** W32-1040**
0,662 kg/m



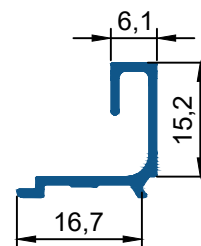
*** W32-1026**
0,158 kg/m



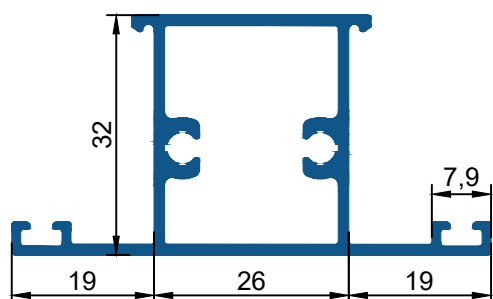
*** W32-1065**
0,161 kg/m



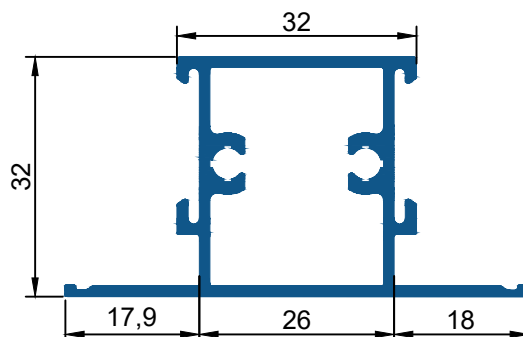
*** W32-1077**
0,345 kg/m



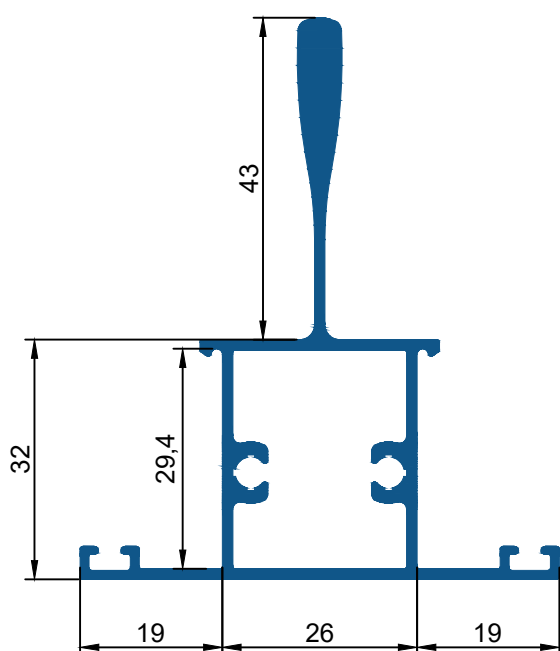
*** W32-027**
0,149 kg/m



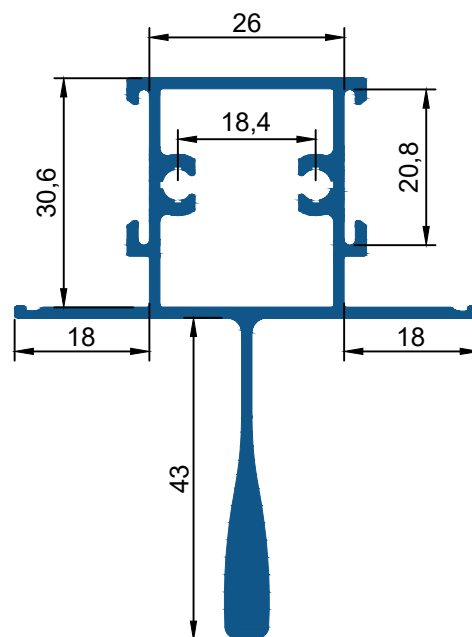
W32-074
0,751 kg/m



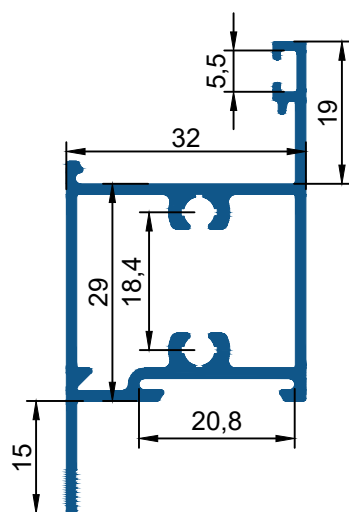
W32-079
0,757 kg/m



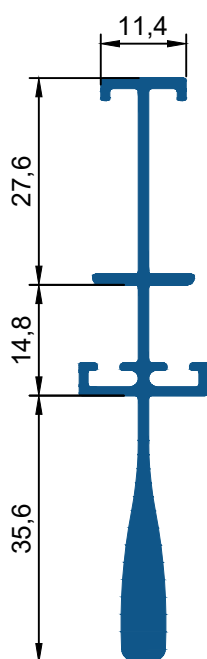
W32-075
1,141 kg/m



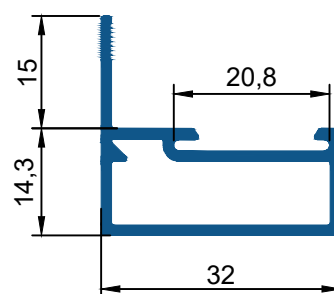
W32-080
1,147 kg/m



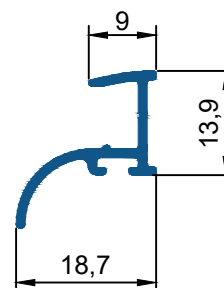
*** W32-076**
0,765 kg/m



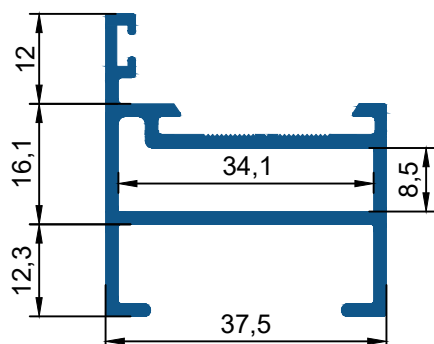
*** W32-093**
0,706 kg/m



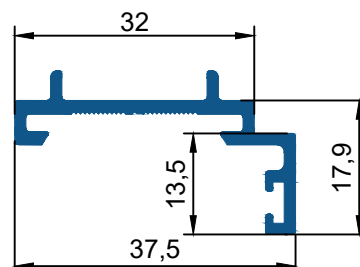
*** W32-1097**
0,445 kg/m



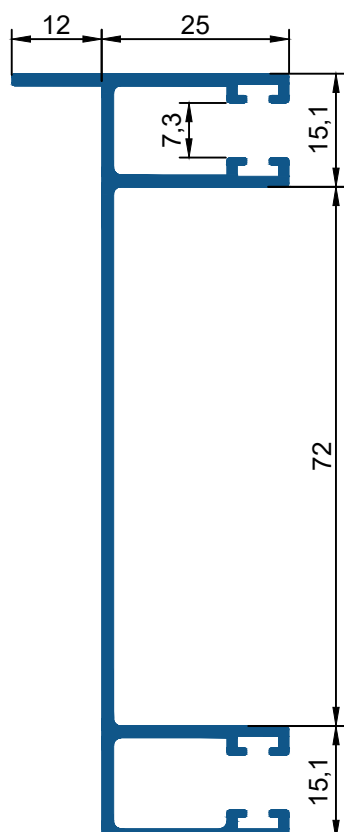
*** W32-092**
0,157 kg/m



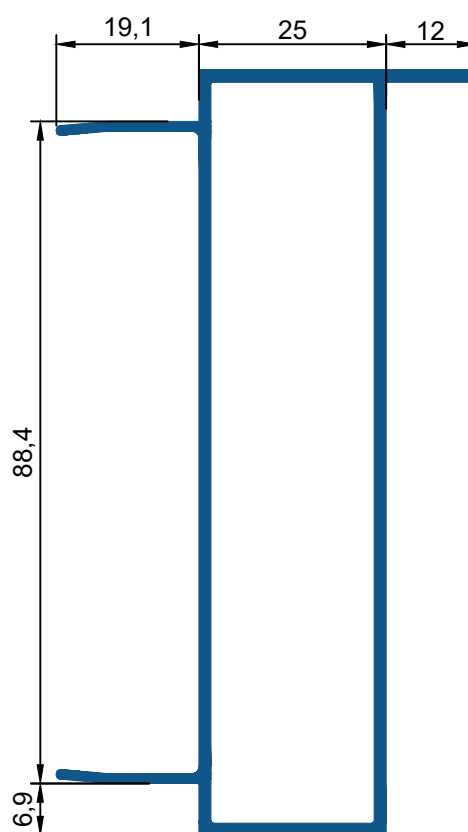
W32-056
0,736 kg/m



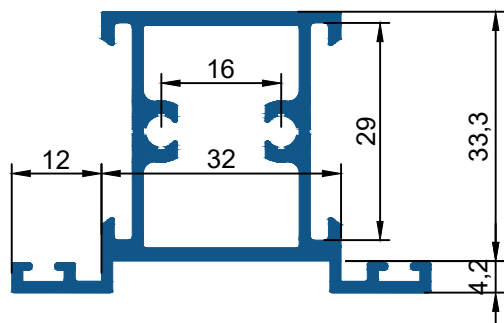
W32-016
0,338 kg/m



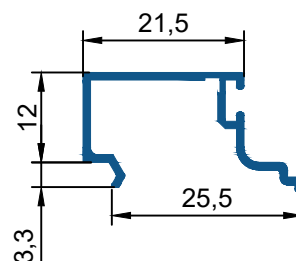
W32-1013
1,028 kg/m



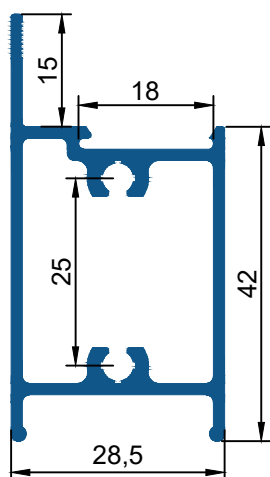
W32-1014
1,345 kg/m



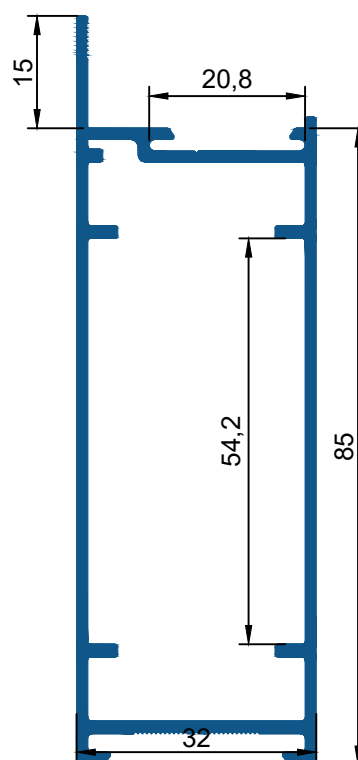
W32-1061
0,967 kg/m



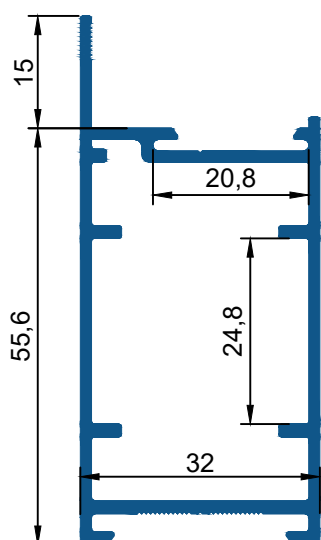
W32-1010
0,174 kg/m



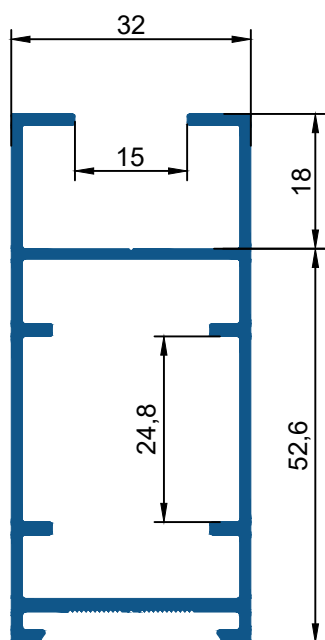
W32-058
0,757 kg/m



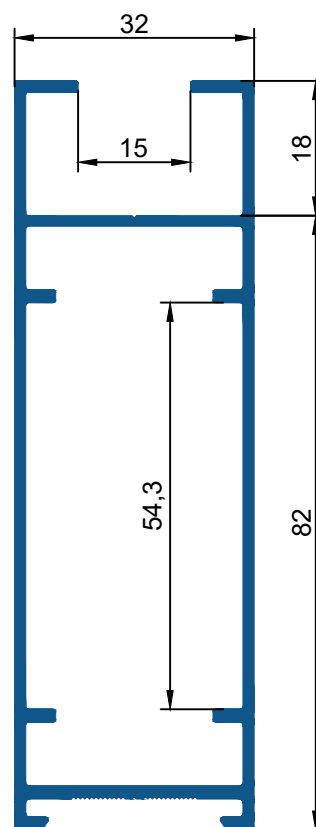
W32-042
1,150 kg/m



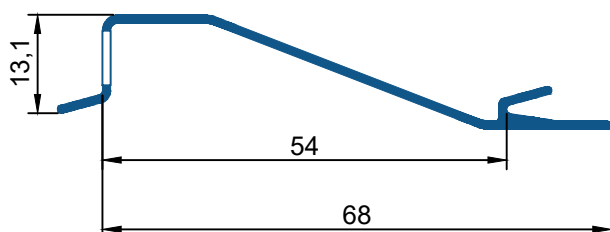
W32-043
0,911 kg/m



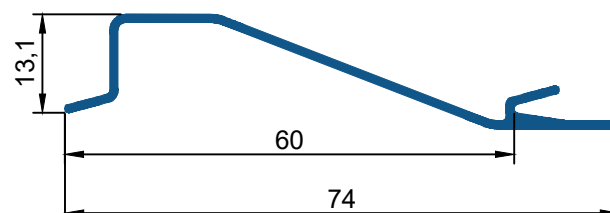
*** W32-1011**
1,024 kg/m



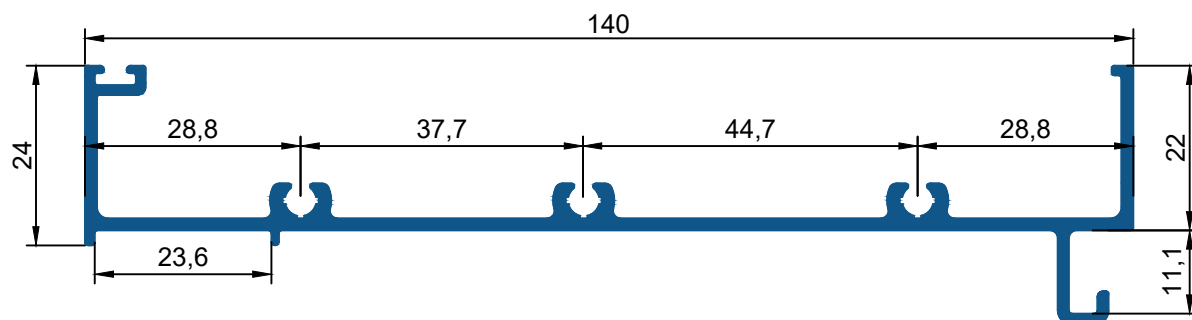
*** W32-1012**
1,275 kg/m



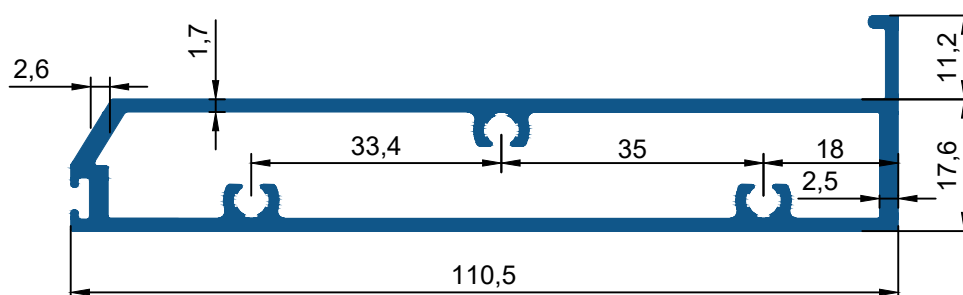
US-320
0,308 kg/m



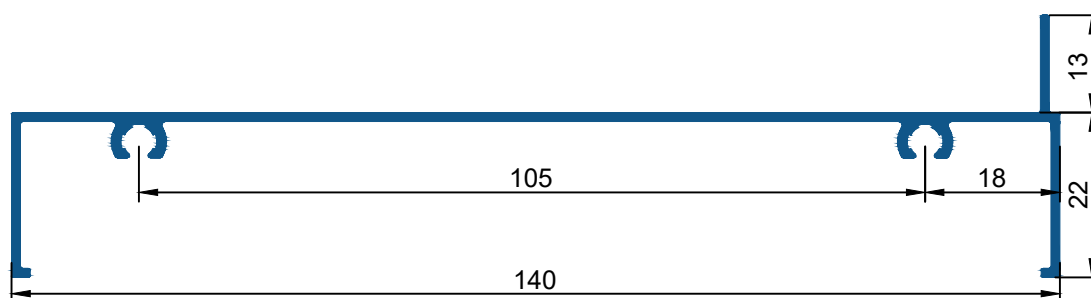
VZ-064
0,308 kg/m



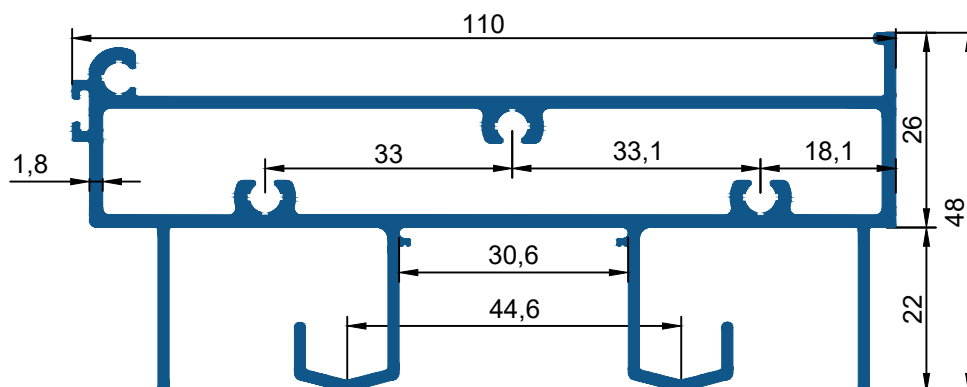
WIN-001
1,120 kg/m



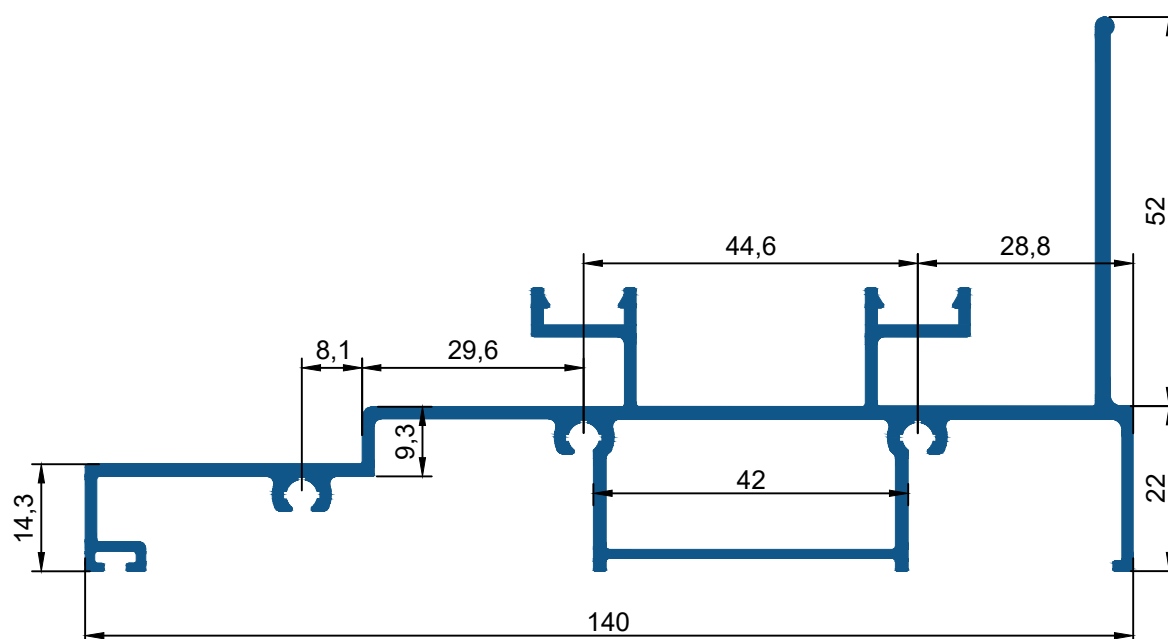
*** WIN-049**
1,480 kg/m



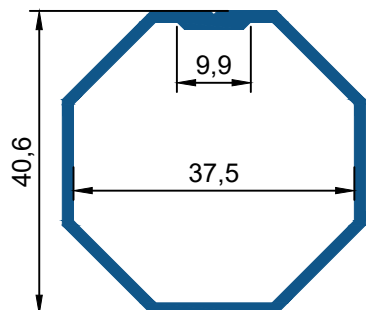
WIN-009
0,771 kg/m



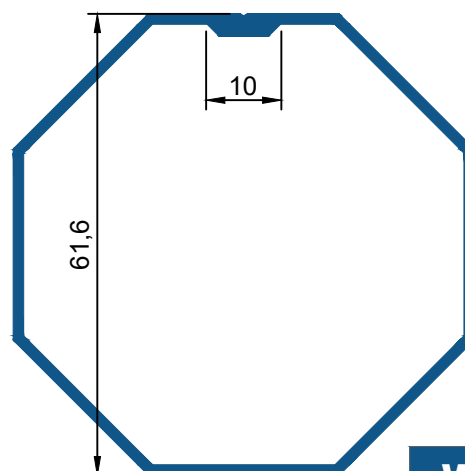
W32-1038
1,878 kg/m



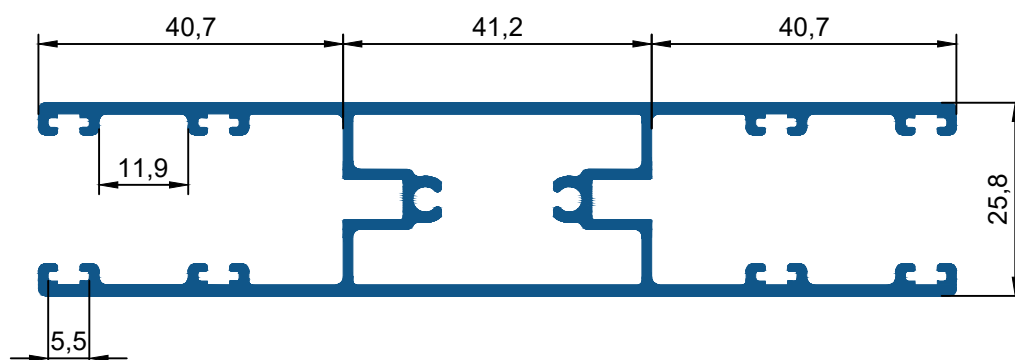
W32-1039
1,954 kg/m



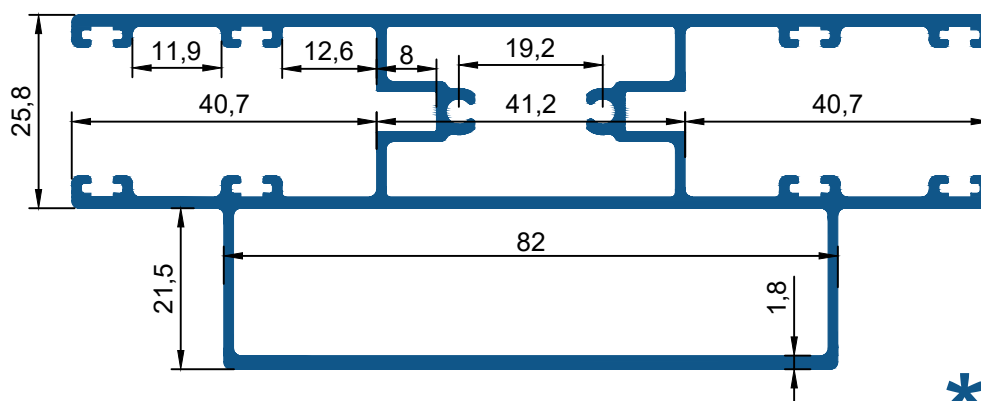
WIN-014
0,542 kg/m



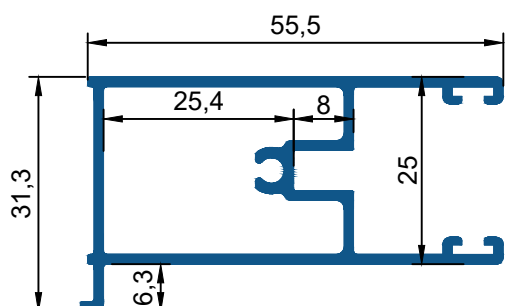
WIN-015
0,792 kg/m



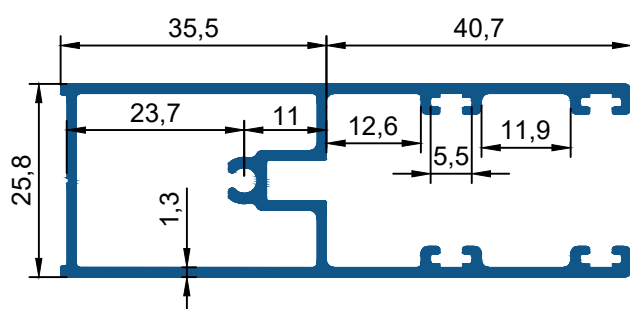
*** WIN-017**
1,651 kg/m



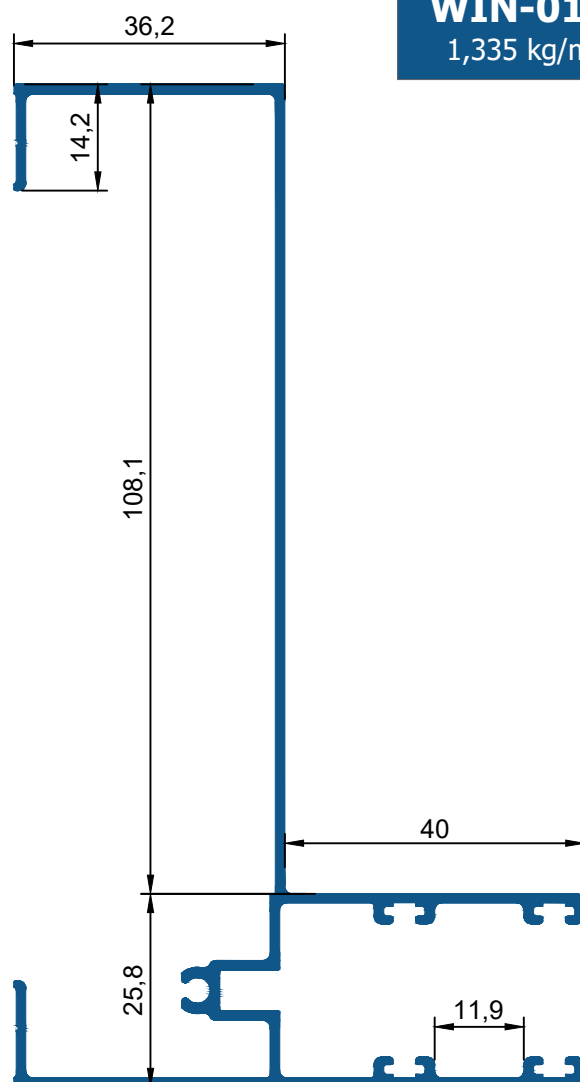
*** WIN-018**
2,219 kg/m



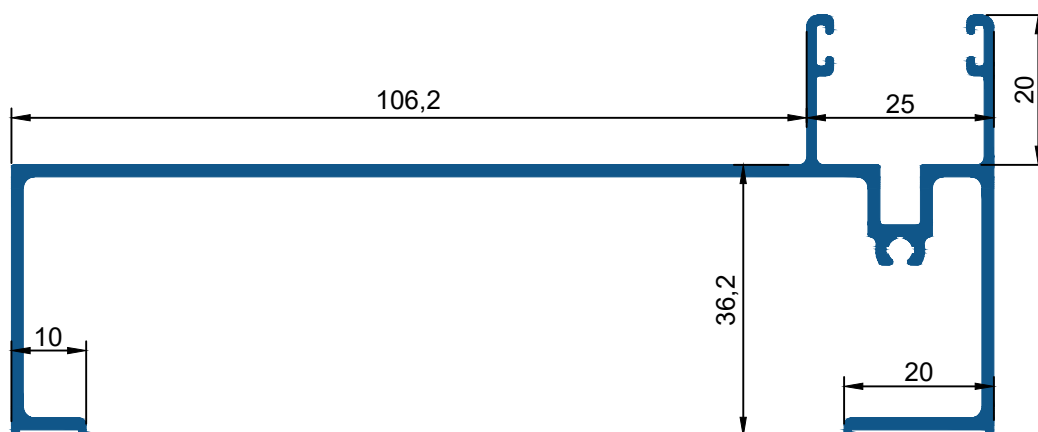
WIN-007
0,713 kg/m



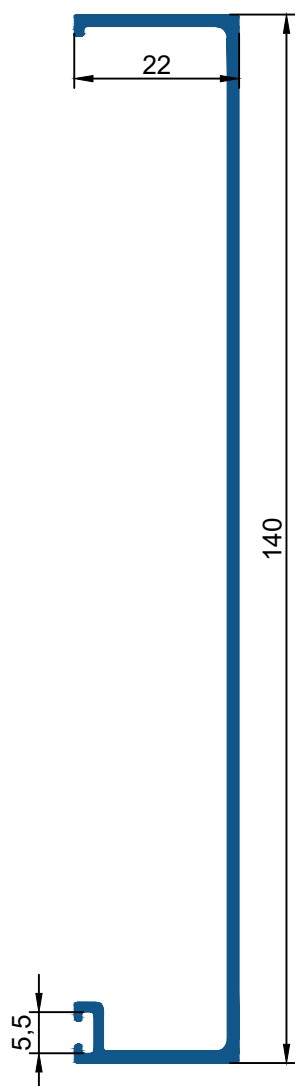
WIN-012
0,954 kg/m



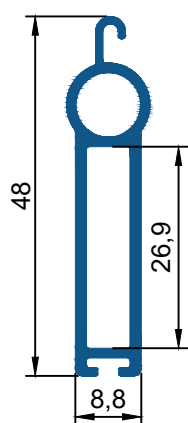
WIN-016
1,335 kg/m



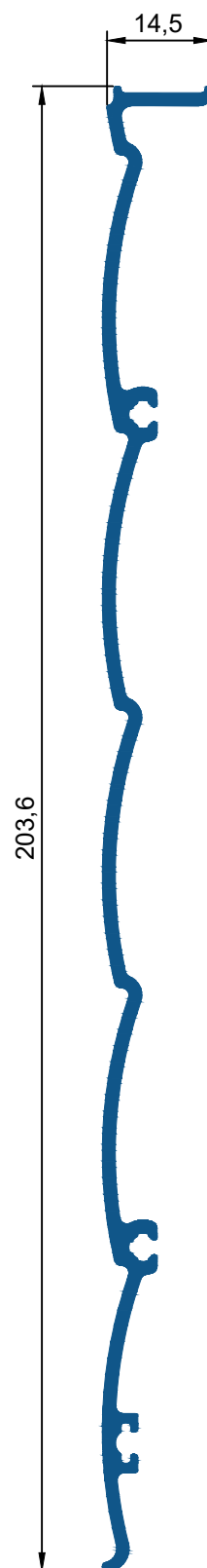
WIN-008
1,282 kg/m



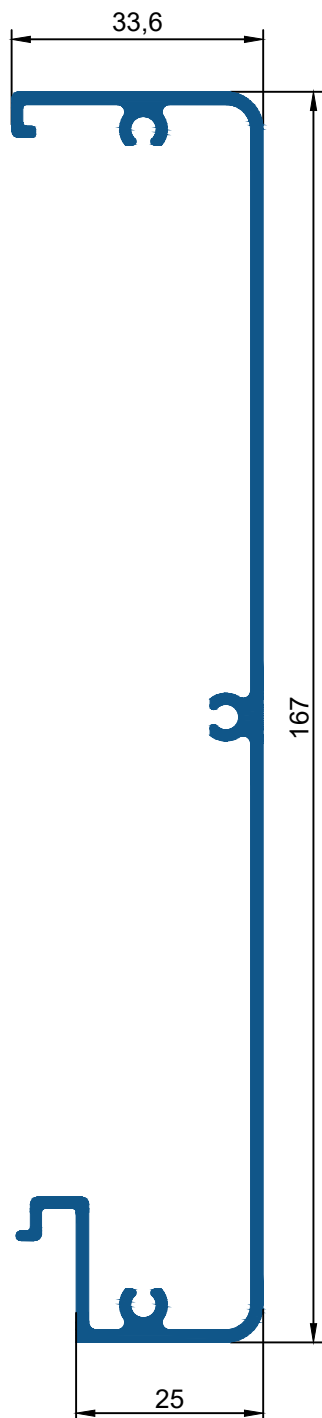
WIN-003
0,827 kg/m



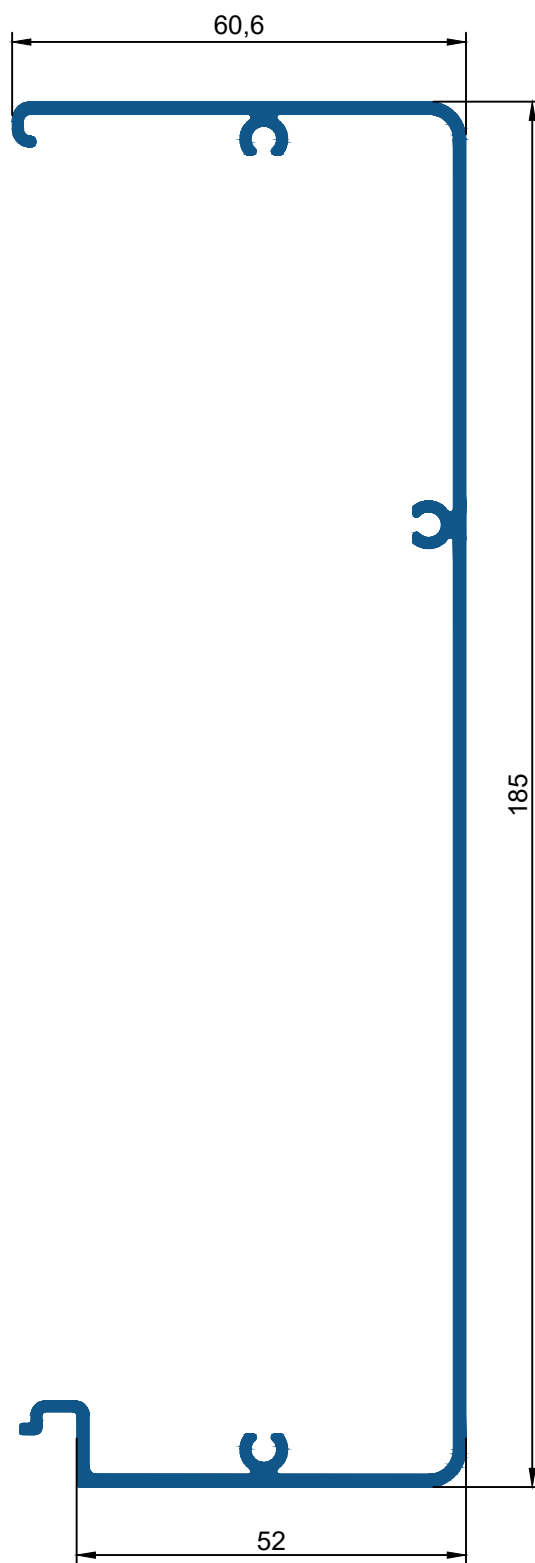
WIN-055
0,431 kg/m



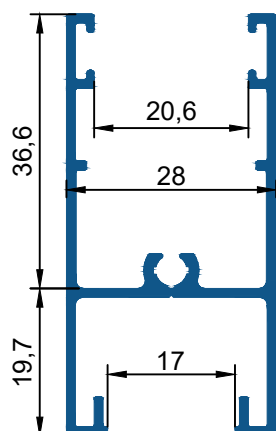
WIN-039
1,216 kg/m



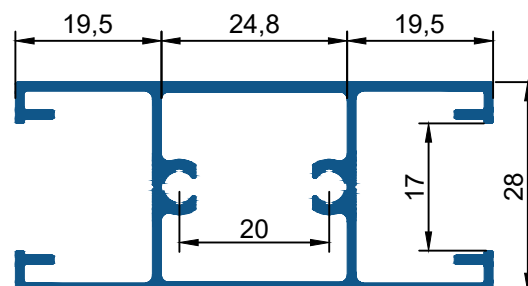
WIN-031
1,335 kg/m



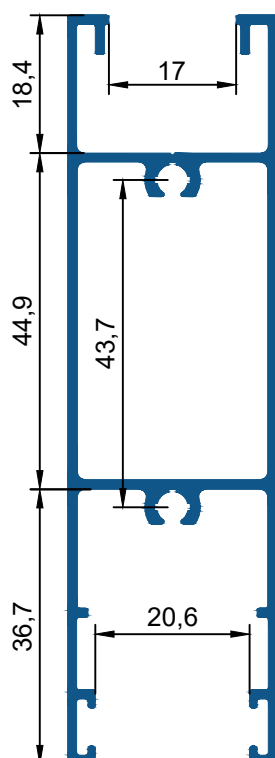
WIN-032
1,603 kg/m



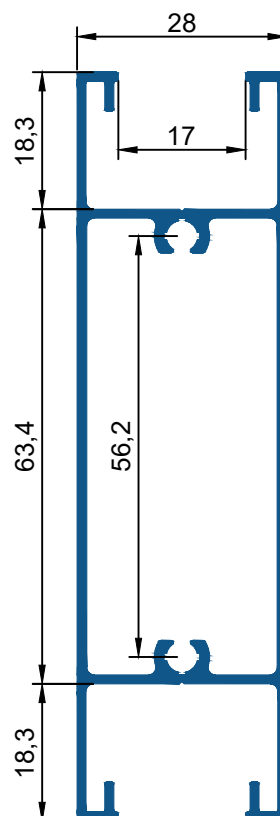
W32S-017
0,616 kg/m



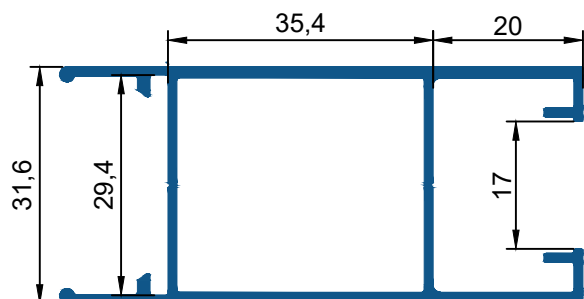
*** W32S-030**
0,802 kg/m



W32S-023
1,064 kg/m

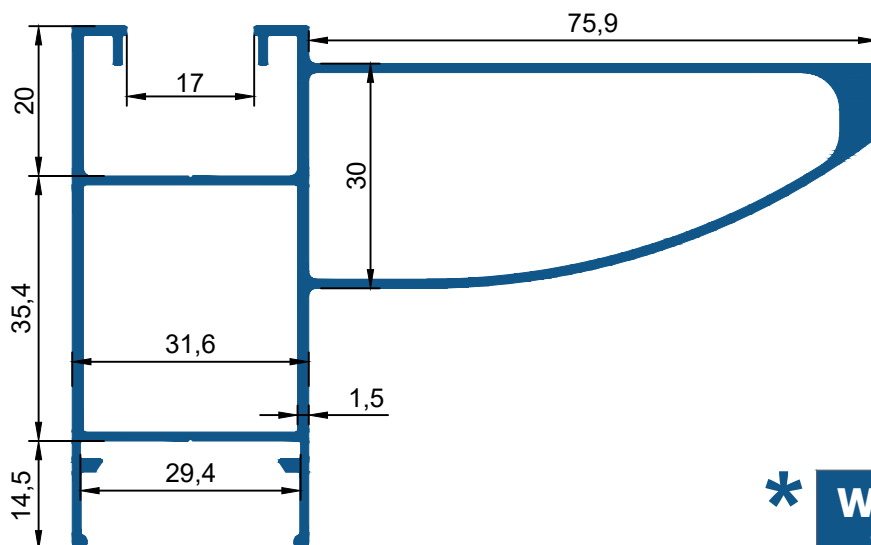
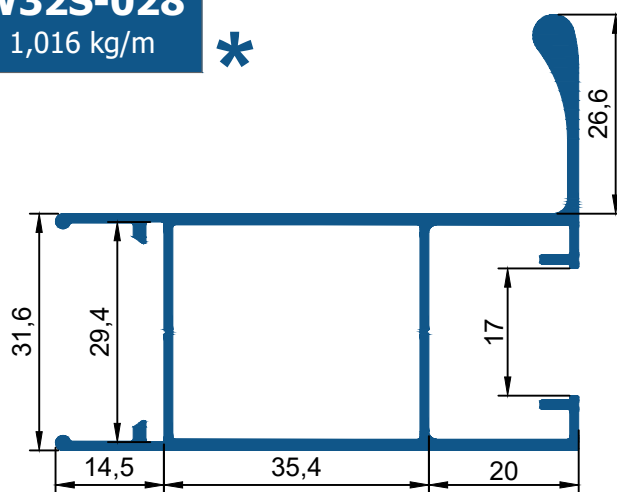


*** W32S-031**
1,059 kg/m

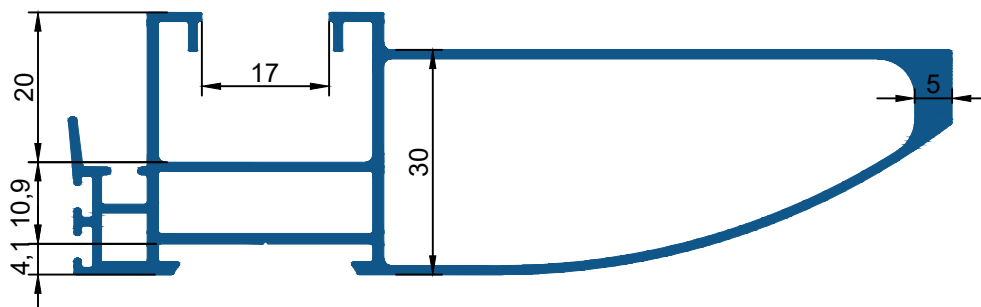


*** W32S-025**
0,822 kg/m

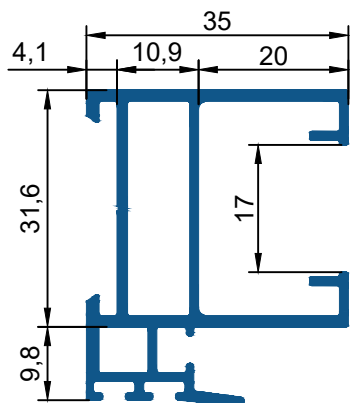
W32S-028
1,016 kg/m



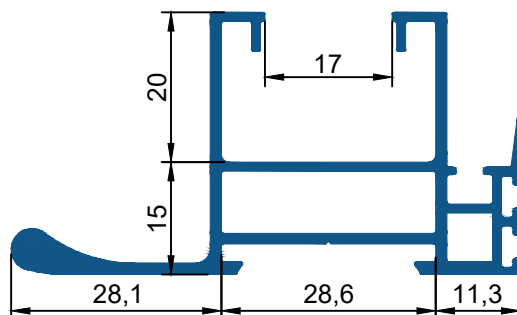
W32S-029
1,471 kg/m



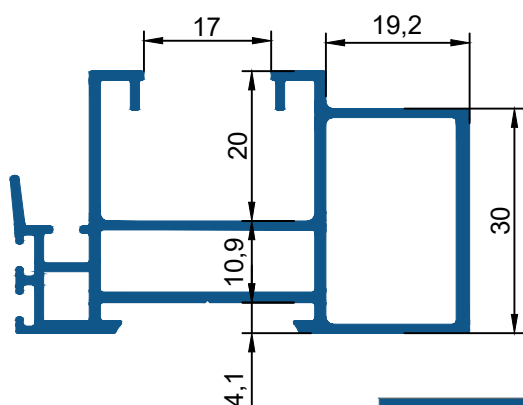
W32S-019
1,438 kg/m



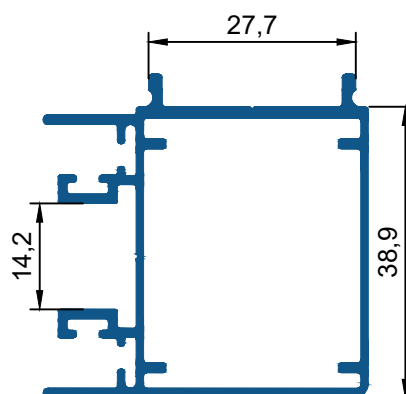
W32S-046
0,734 kg/m



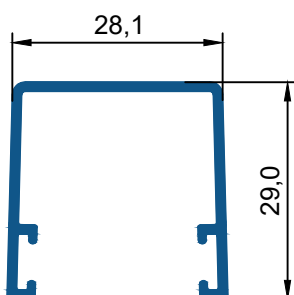
*** W32S-045**
0,928 kg/m



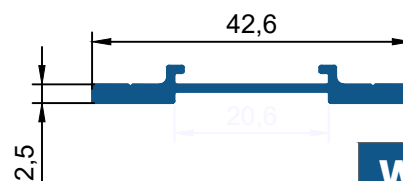
W32S-043
1,054 kg/m



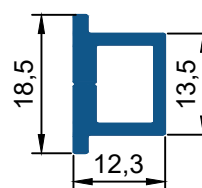
W32S-044
0,771 kg/m



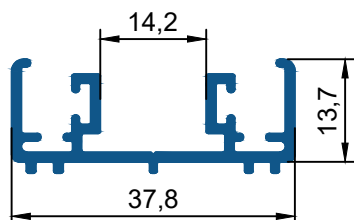
W32S-026
0,224 kg/m



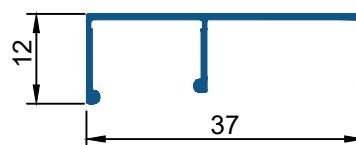
W32S-027
0,237 kg/m



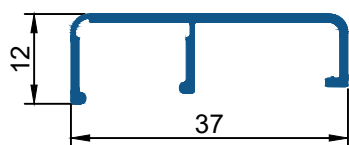
W32S-012
0,267 kg/m



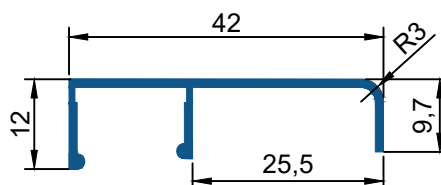
*** W32S-004**
0,403 kg/m



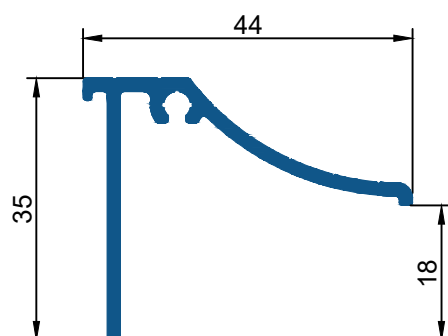
MP-347
0,202 kg/m



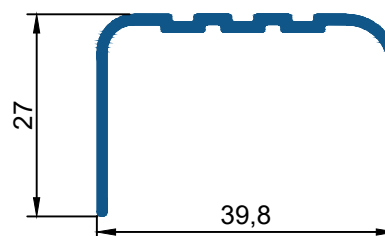
MH-0017
0,197 kg/m



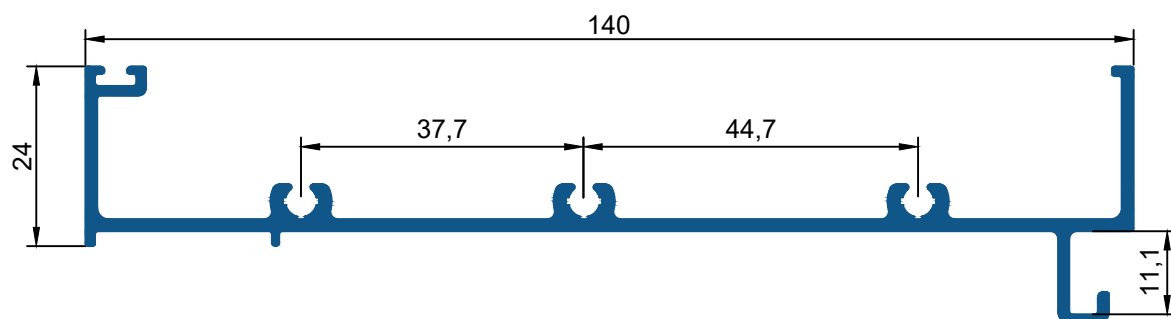
*** MN-014**
0,214 kg/m



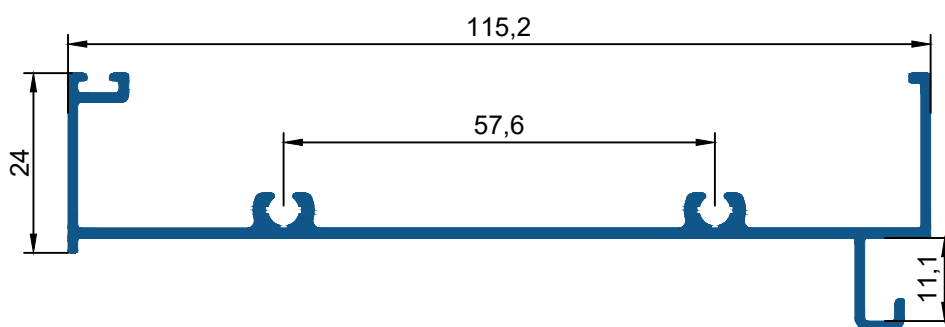
CM-169
0,435 kg/m



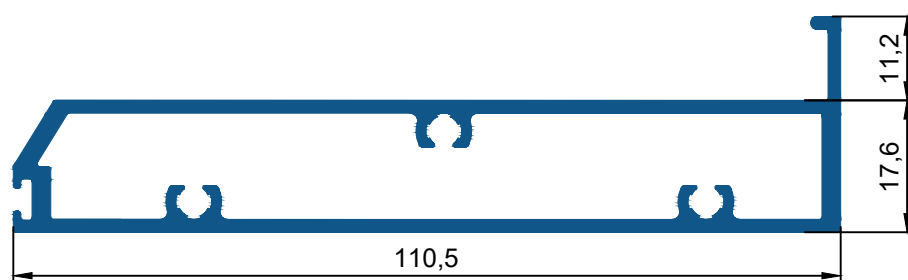
ME-013
0,268 kg/m



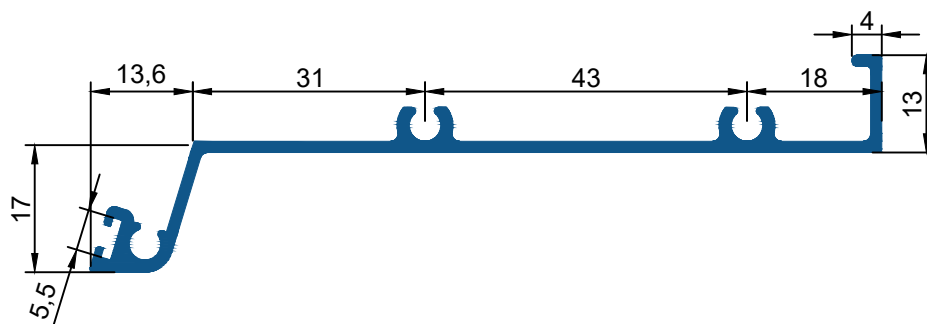
WIN-001
1,120 kg/m



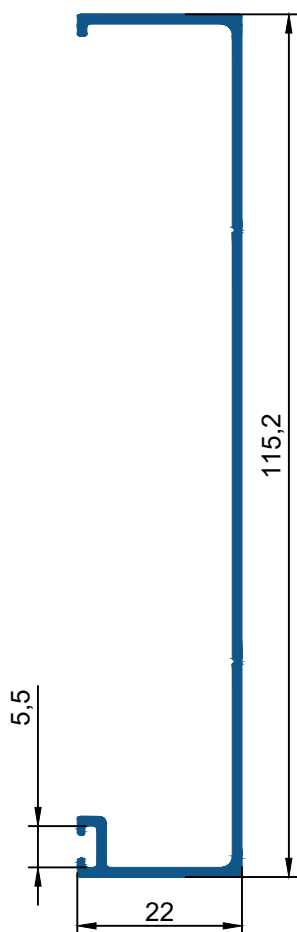
WIN-002
0,828 kg/m



*** WIN-049**
1,480 kg/m



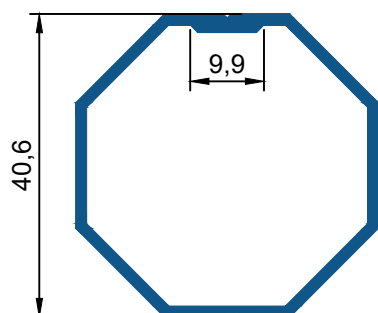
WIN-023
0,688 kg/m



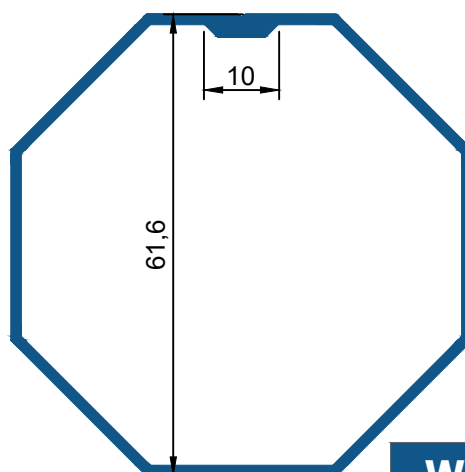
WIN-004
0,628 kg/m



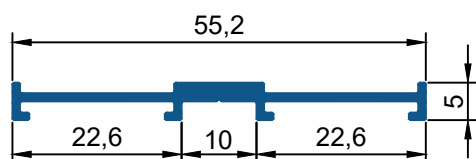
WIN-003
0,827 kg/m



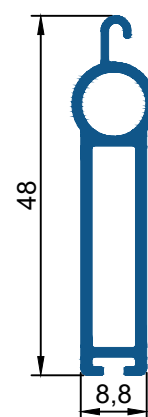
WIN-014
0,542 kg/m



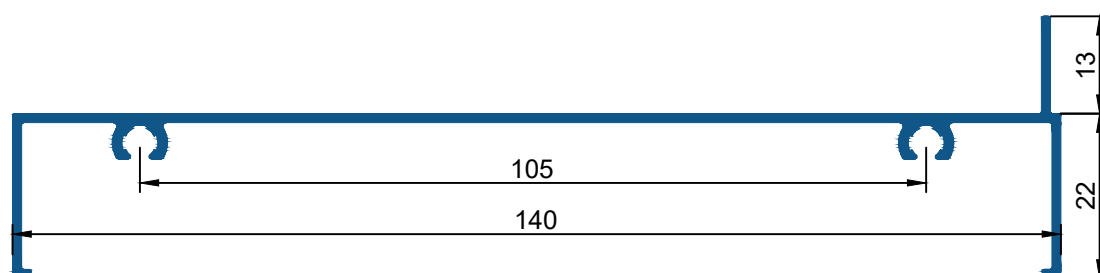
WIN-015
0,792 kg/m



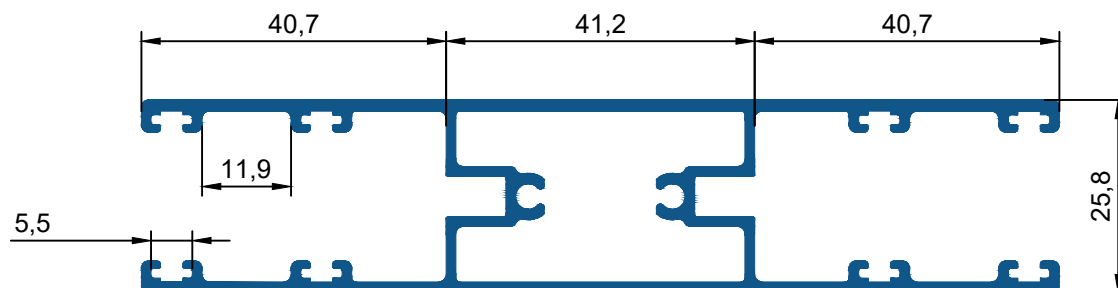
W25-540
0,271 kg/m



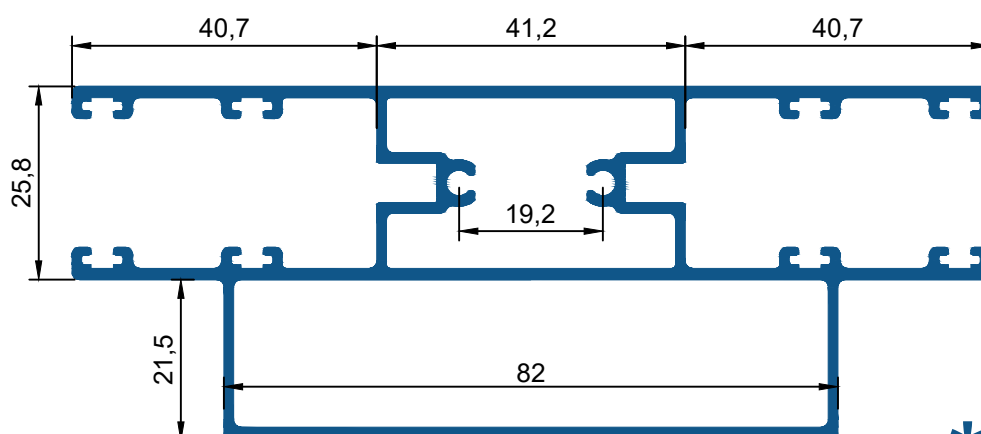
WIN-055
0,431 kg/m



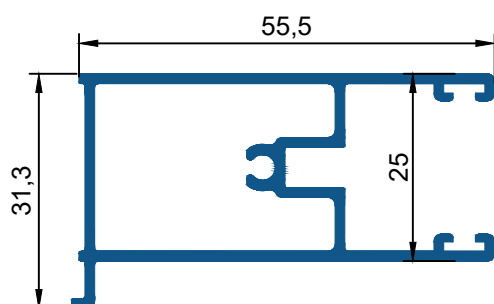
WIN-009
0,771 kg/m



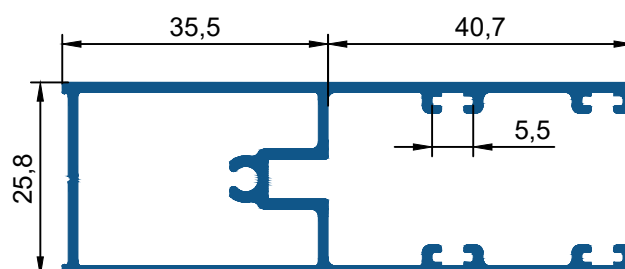
*** WIN-017**
1,651 kg/m



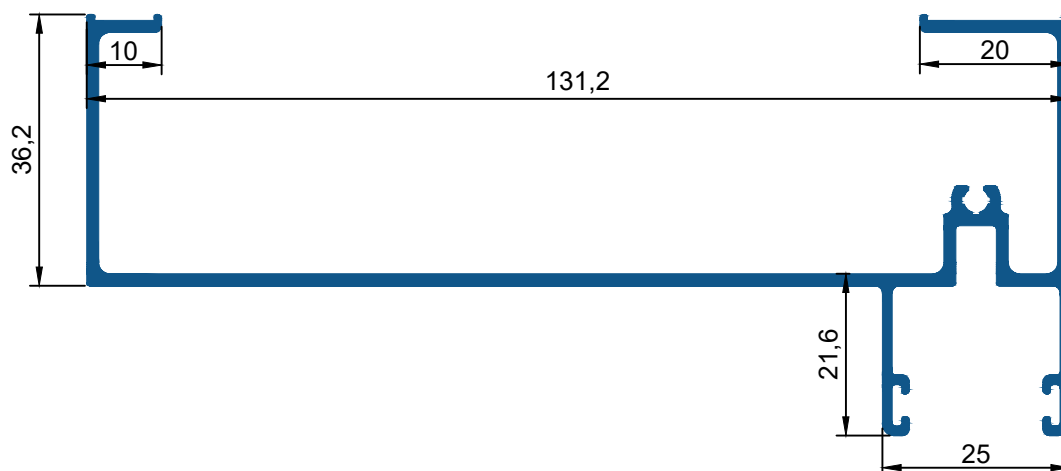
*** WIN-018**
2,219 kg/m



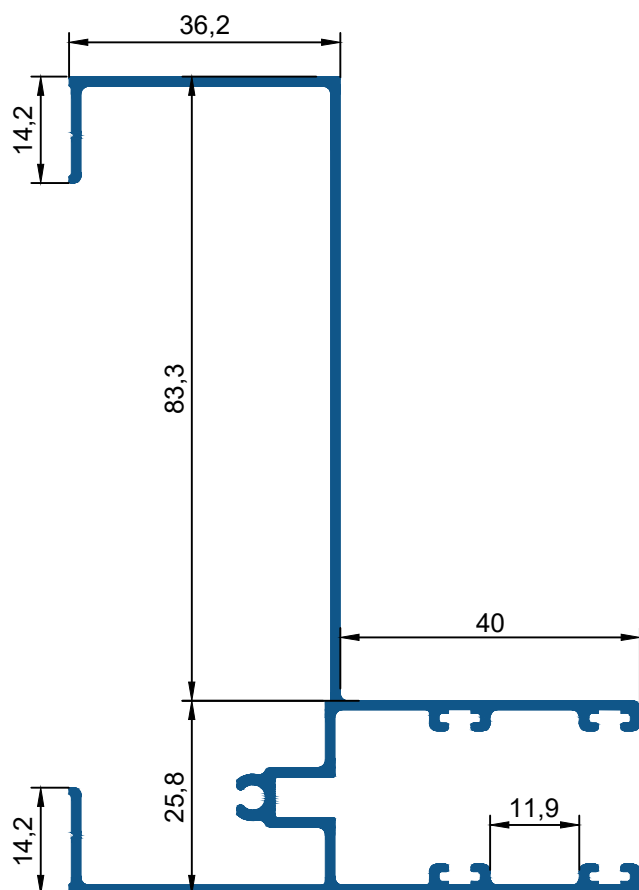
WIN-007
0,713 kg/m



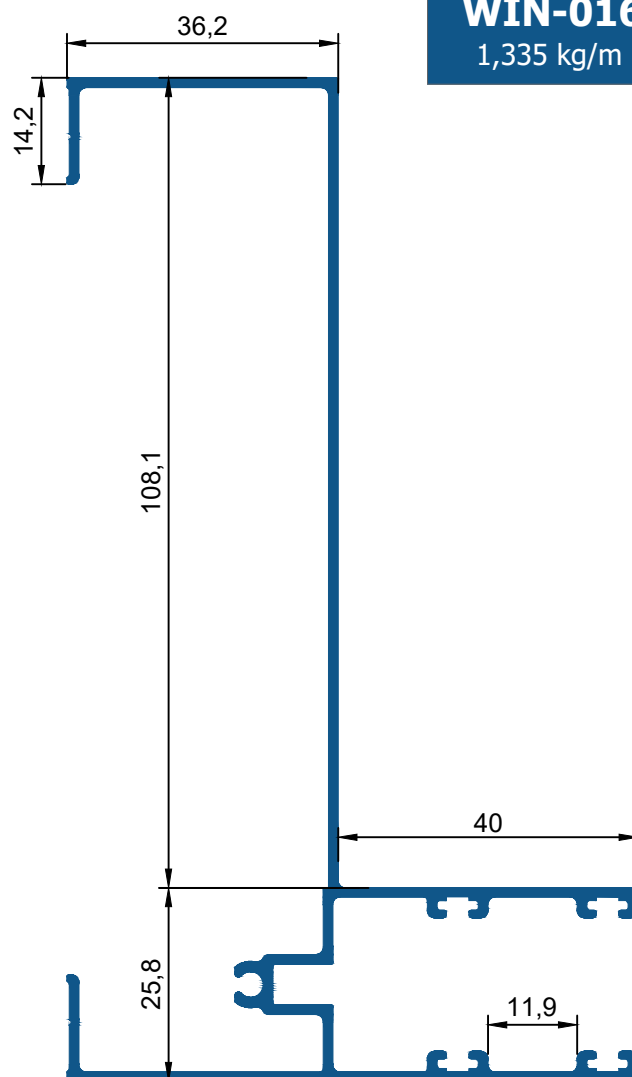
WIN-012
0,954 kg/m



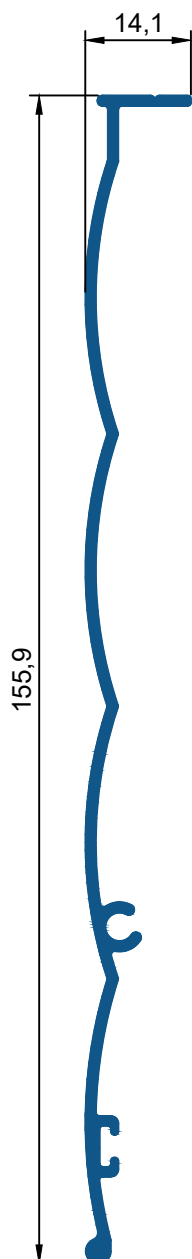
WIN-008
1,282 kg/m



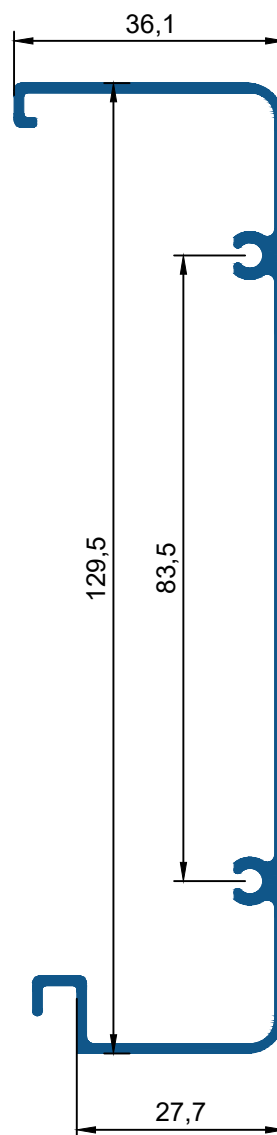
WIN-013
1,243 kg/m



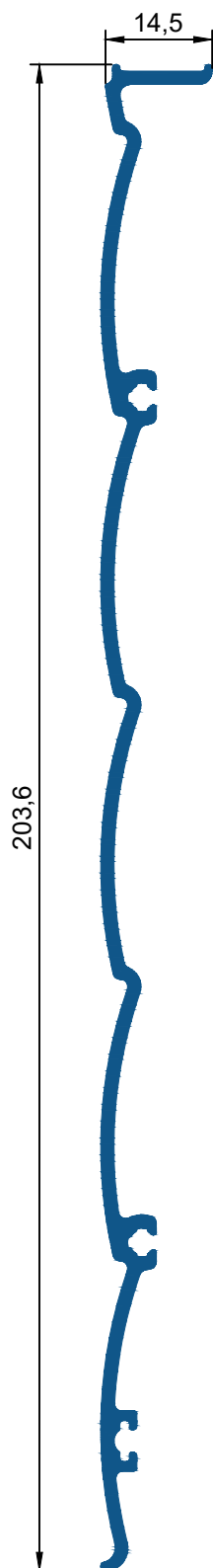
WIN-016
1,335 kg/m



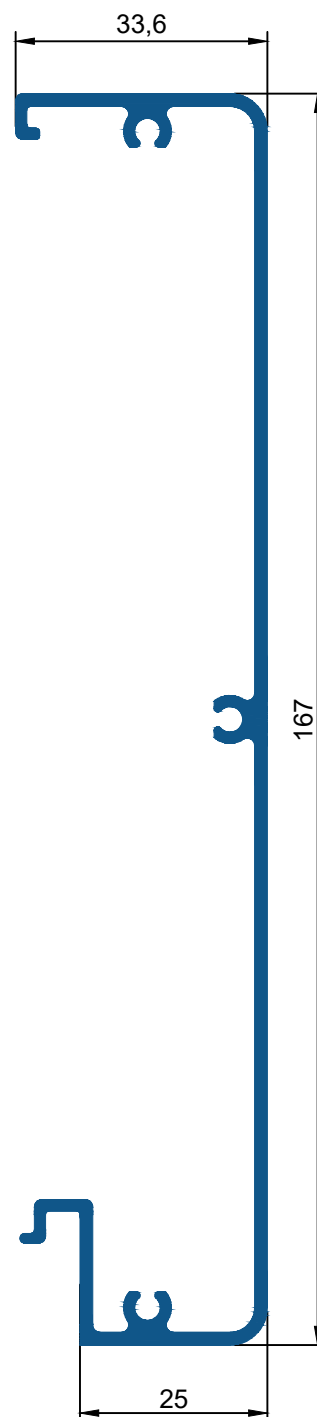
WIN-011
0,725 kg/m



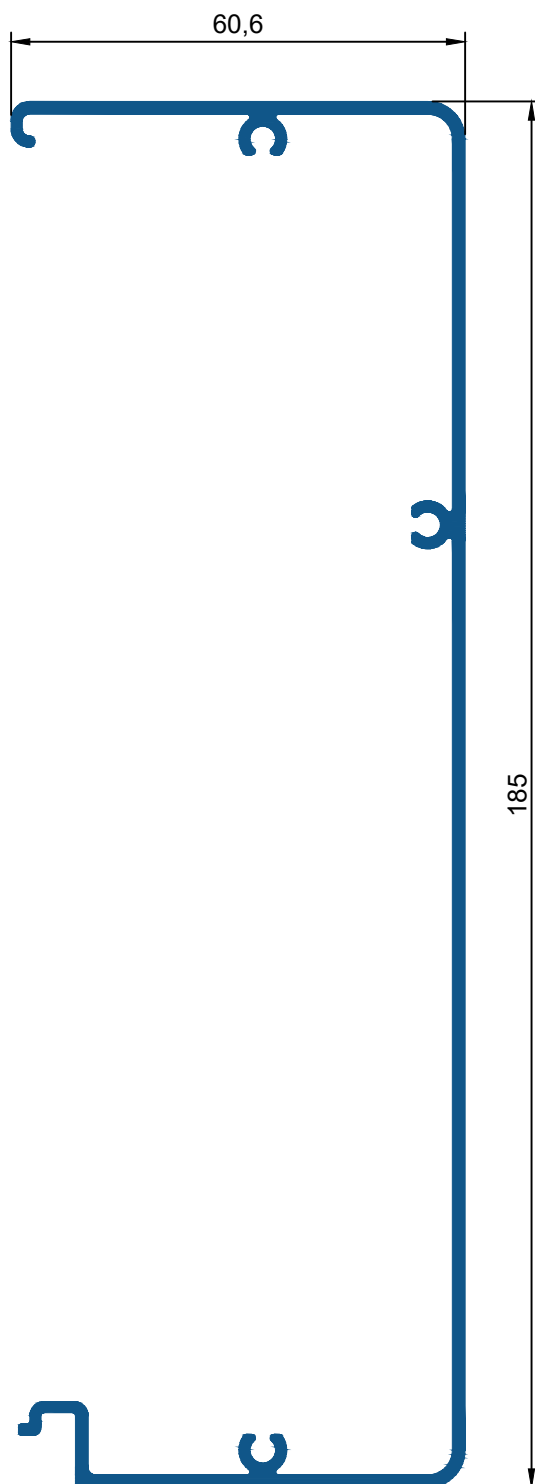
WIN-006
0,900 kg/m



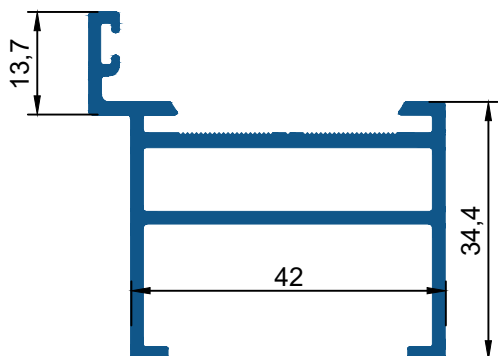
WIN-039
1,216 kg/m



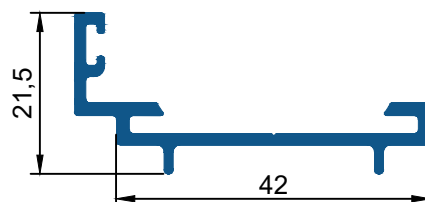
WIN-031
1,335 kg/m



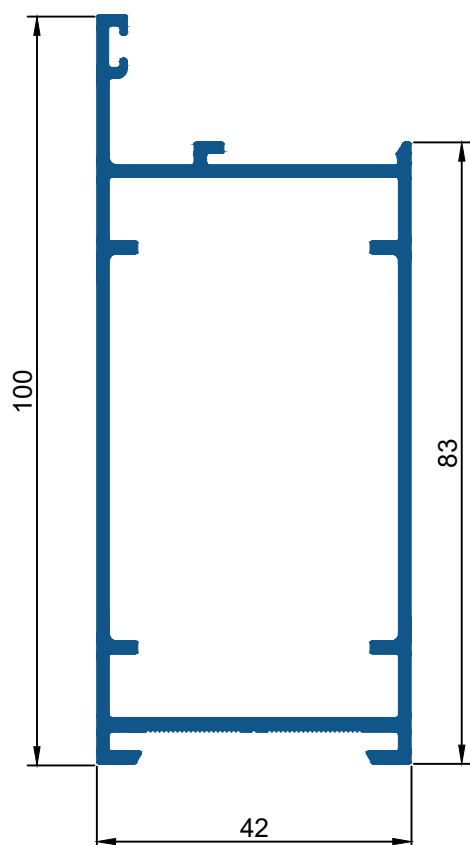
WIN-032
1,603 kg/m



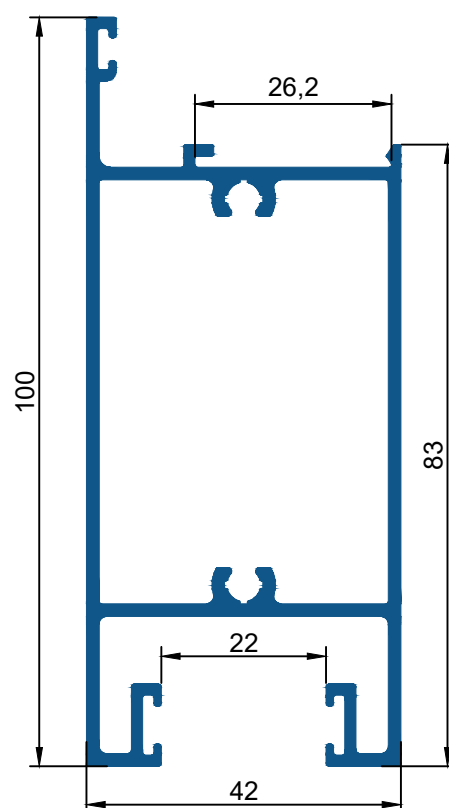
W42-012
0,842 kg/m



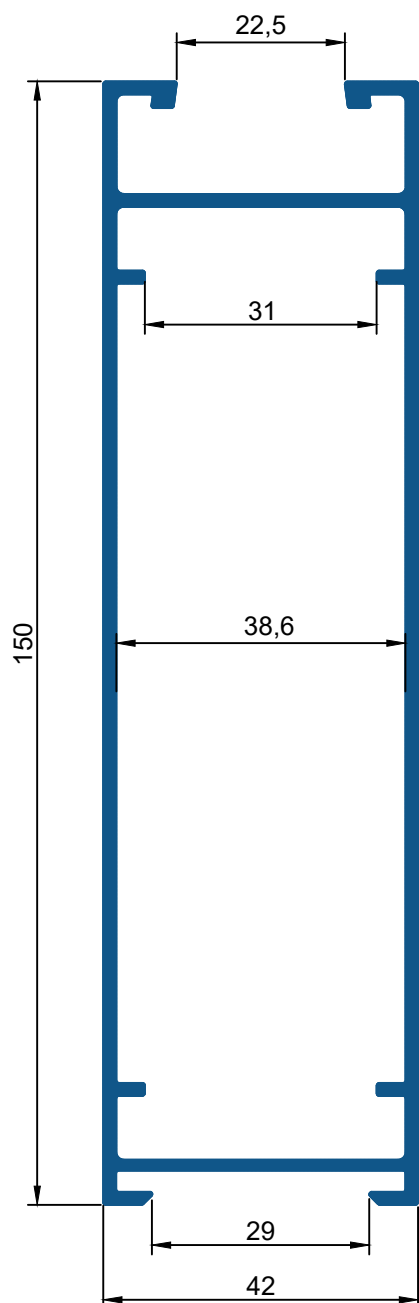
W42-014
0,374 kg/m



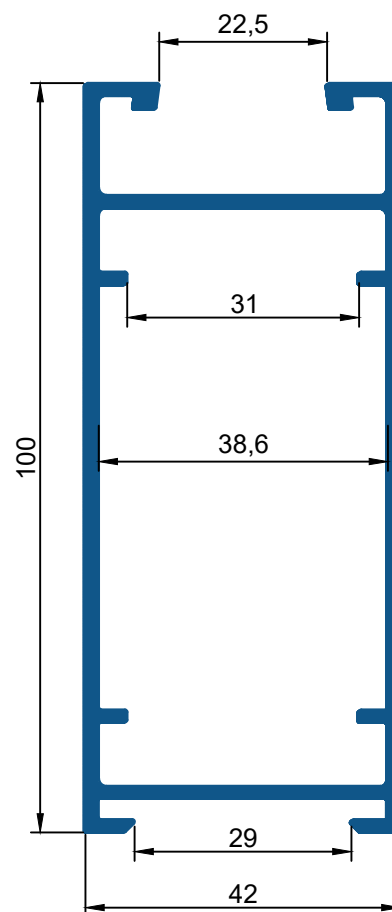
W42-032
1,378 kg/m



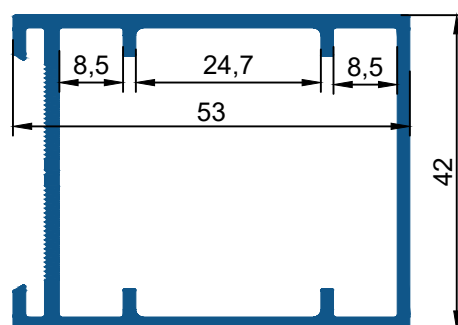
*** W42-006**
1,545 kg/m



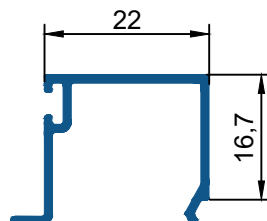
W42-176
1,955 kg/m



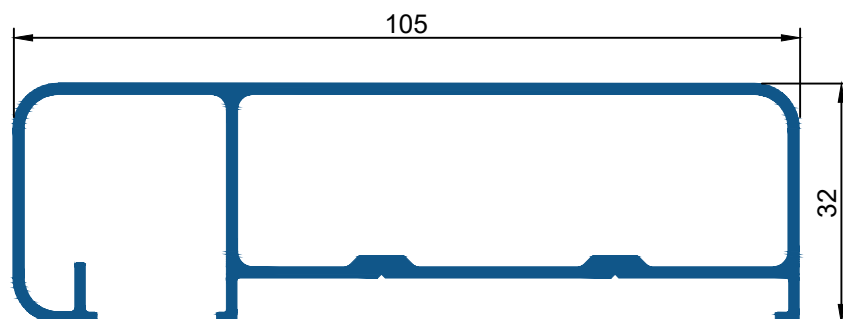
W42-173
1,494 kg/m



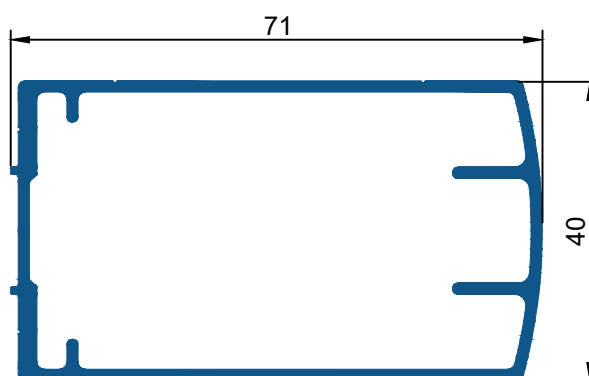
*** W42-999**
0,870 kg/m



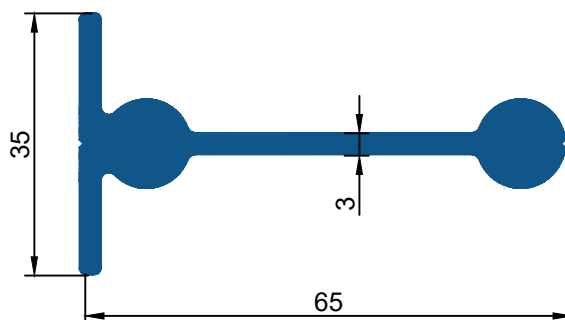
W42-037
0,207 kg/m



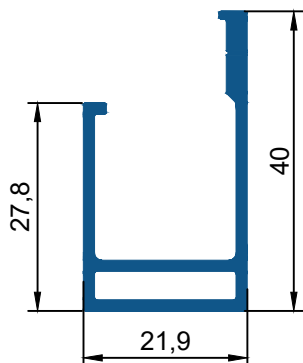
WGC-001
1,269 kg/m



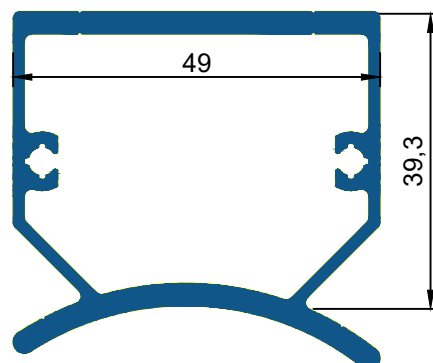
WGC-002
1,089 kg/m



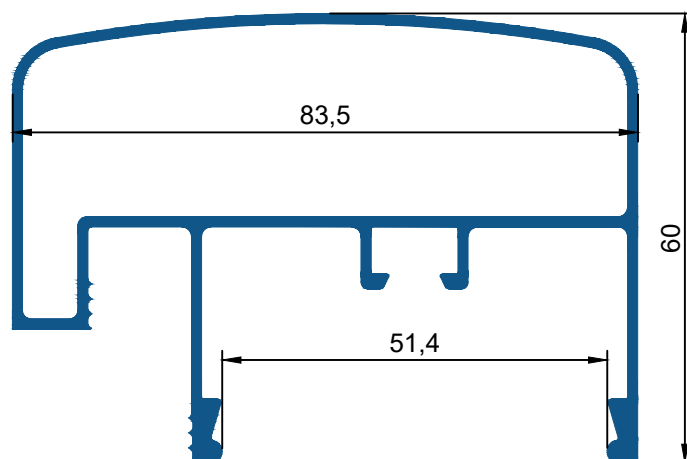
WGC-005
1,450 kg/m



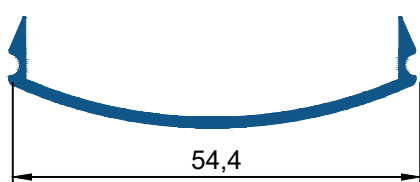
WGC-004
0,504 kg/m



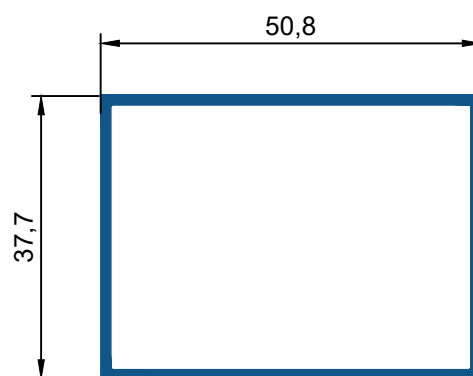
WGC-003
1,315 kg/m



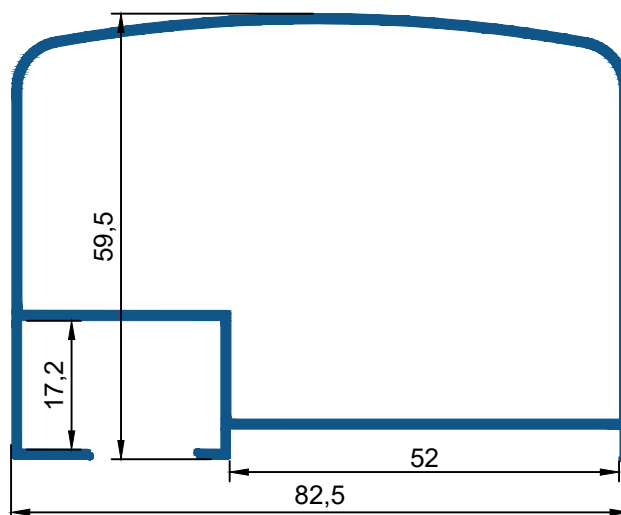
WGC-243
1,403 kg/m



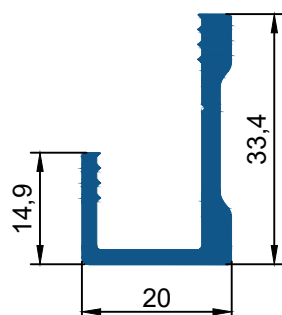
WGC-244
0,274 kg/m



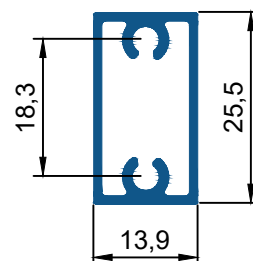
AT-0246
0,686 kg/m



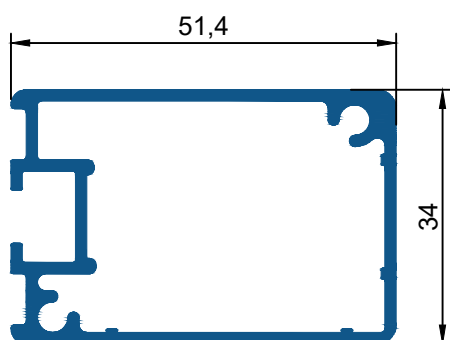
WGC-245
1,247 kg/m



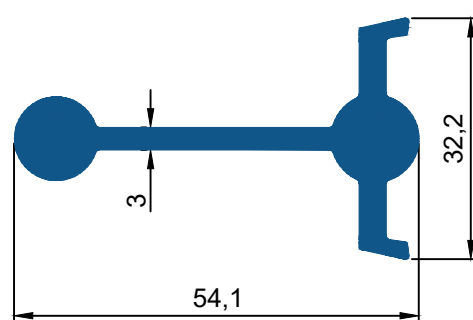
WGC-247
0,521 kg/m



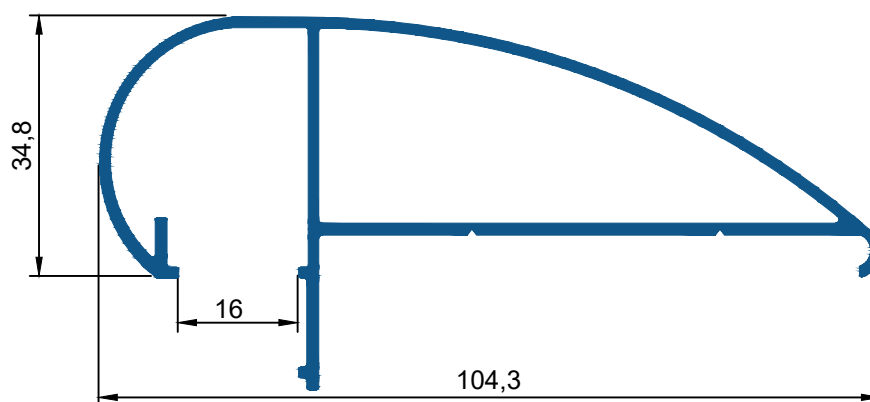
WGC-391
0,329 kg/m



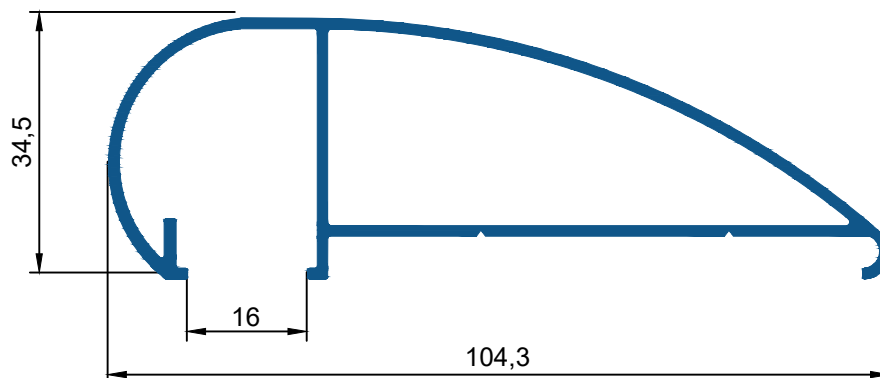
WGC-327
0,859 kg/m



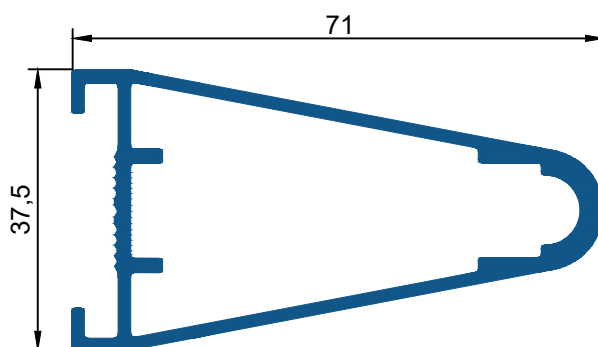
WGC-446
1,101 kg/m



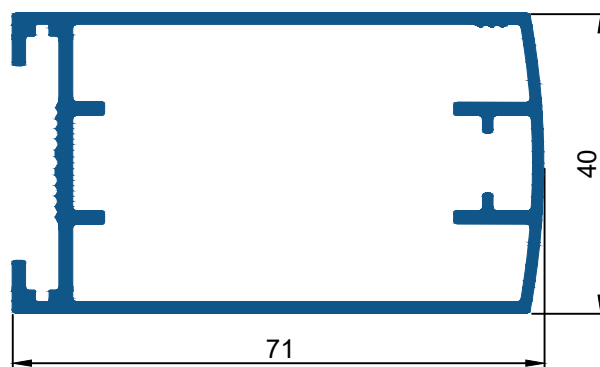
WGC-453
1,154 kg/m



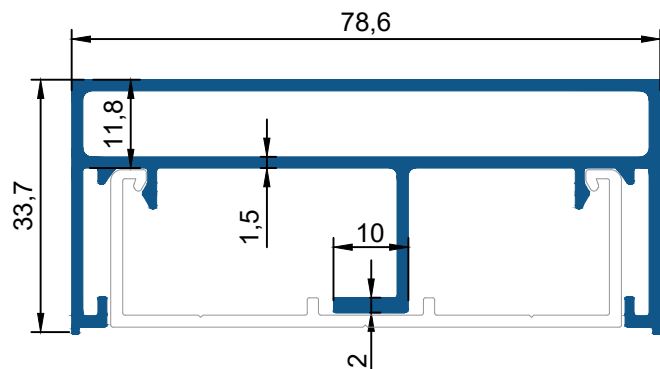
WGC-423
1,214 kg/m



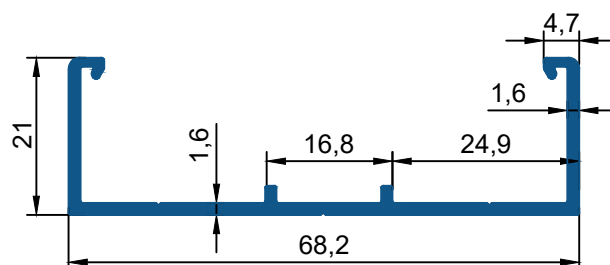
WGC-421
1,102 kg/m



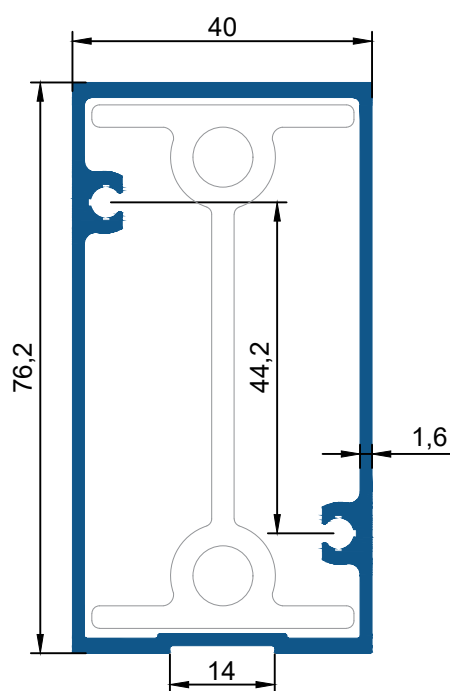
WGC-422
1,219 kg/m



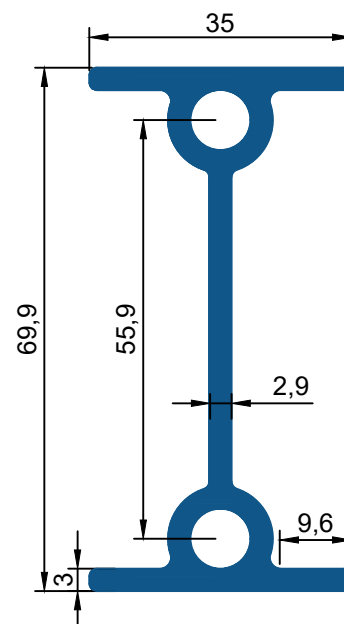
WGR-002
1,118 kg/m



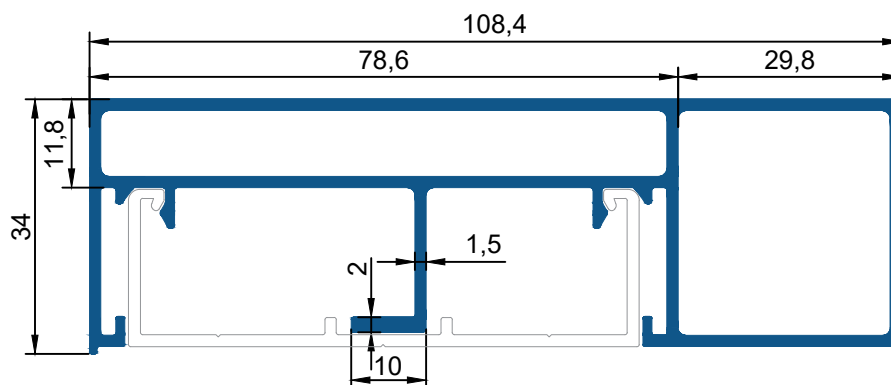
WGR-007
0,511 kg/m



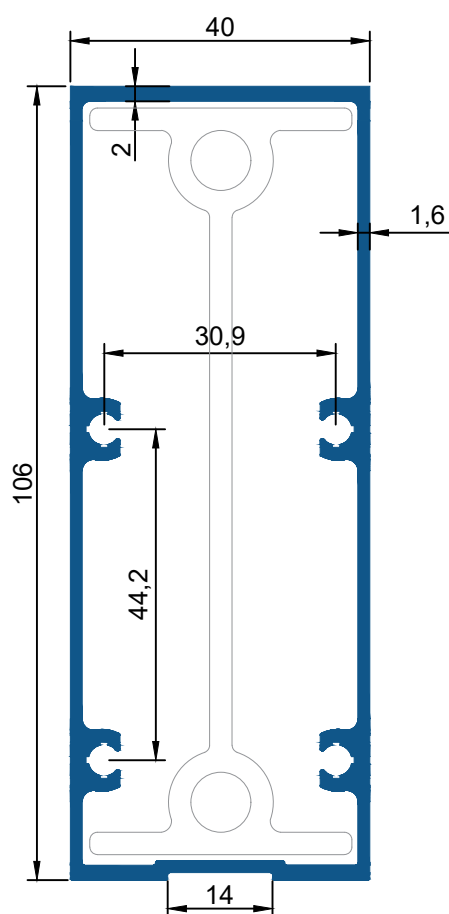
WGR-005
1,191 kg/m



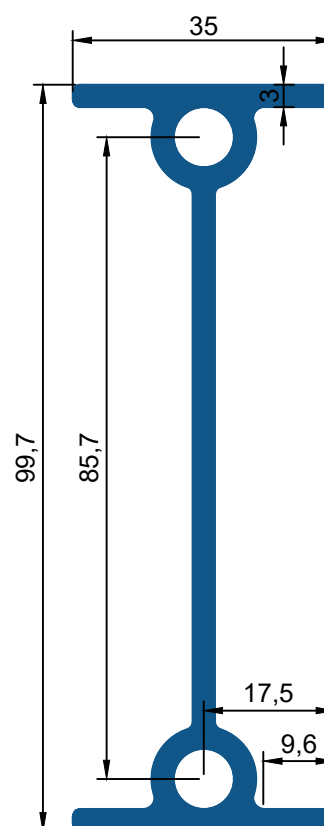
WGR-013
1,350 kg/m



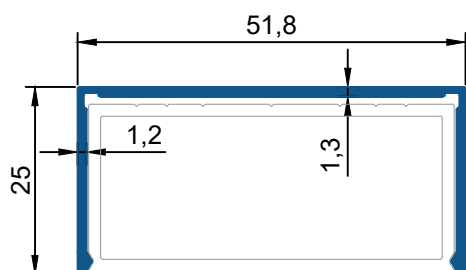
WGR-004
1,484 kg/m



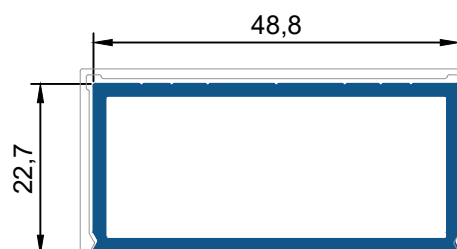
WGR-006
1,590 kg/m



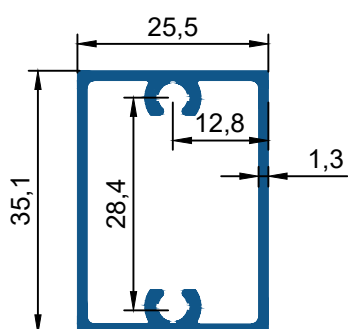
WGR-014
1,592 kg/m



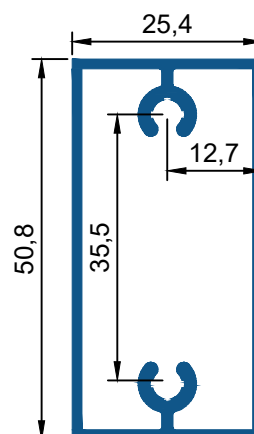
*** WGR-010**
0,333 kg/m



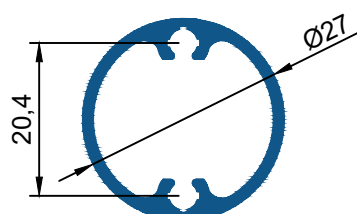
*** WGR-009**
0,636 kg/m



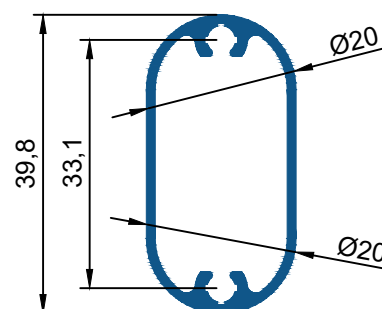
*** WGR-011**
0,506 kg/m



*** WGR-012**
0,685 kg/m

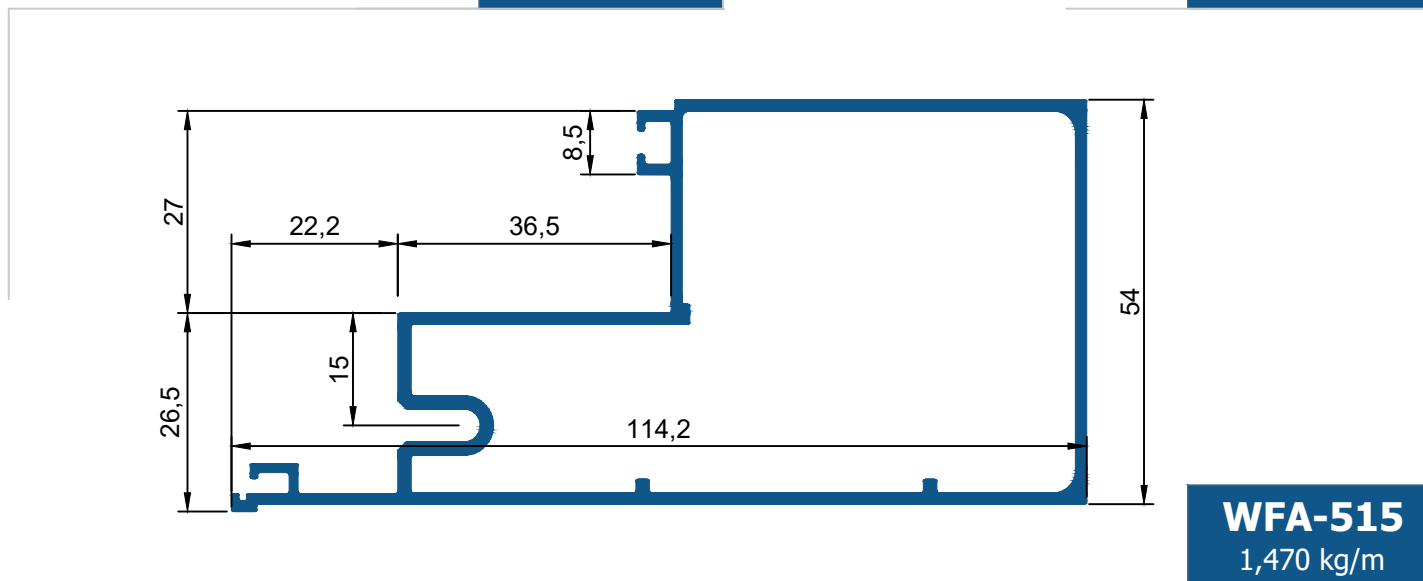
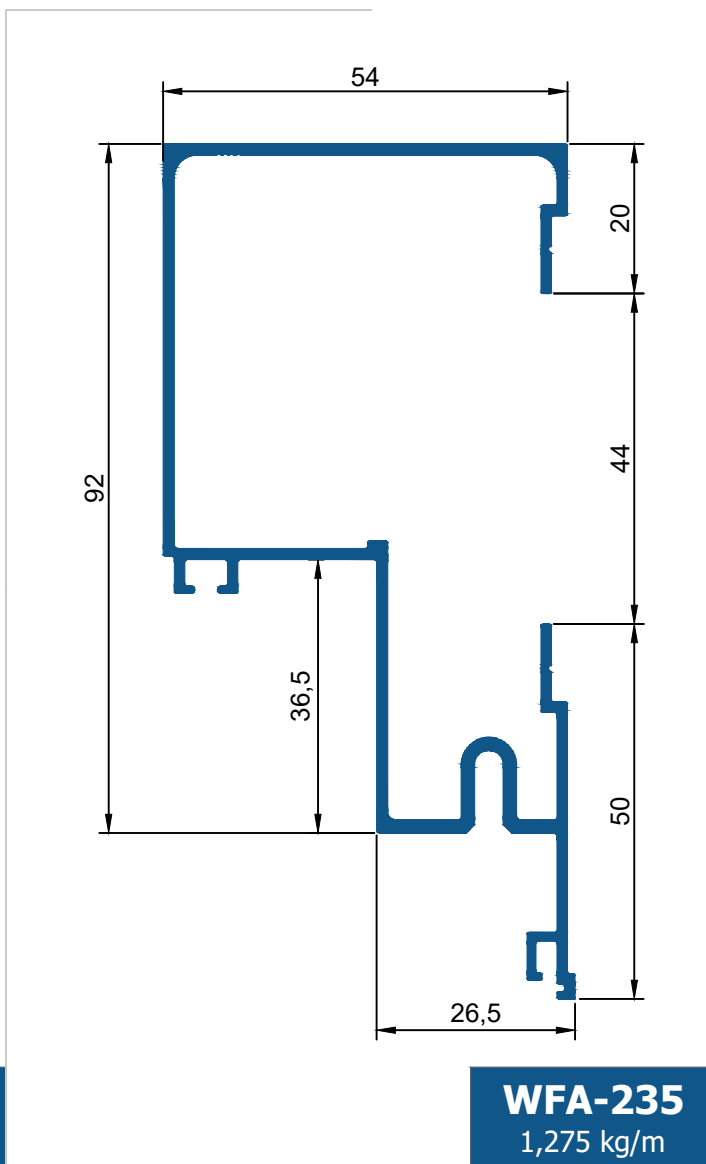
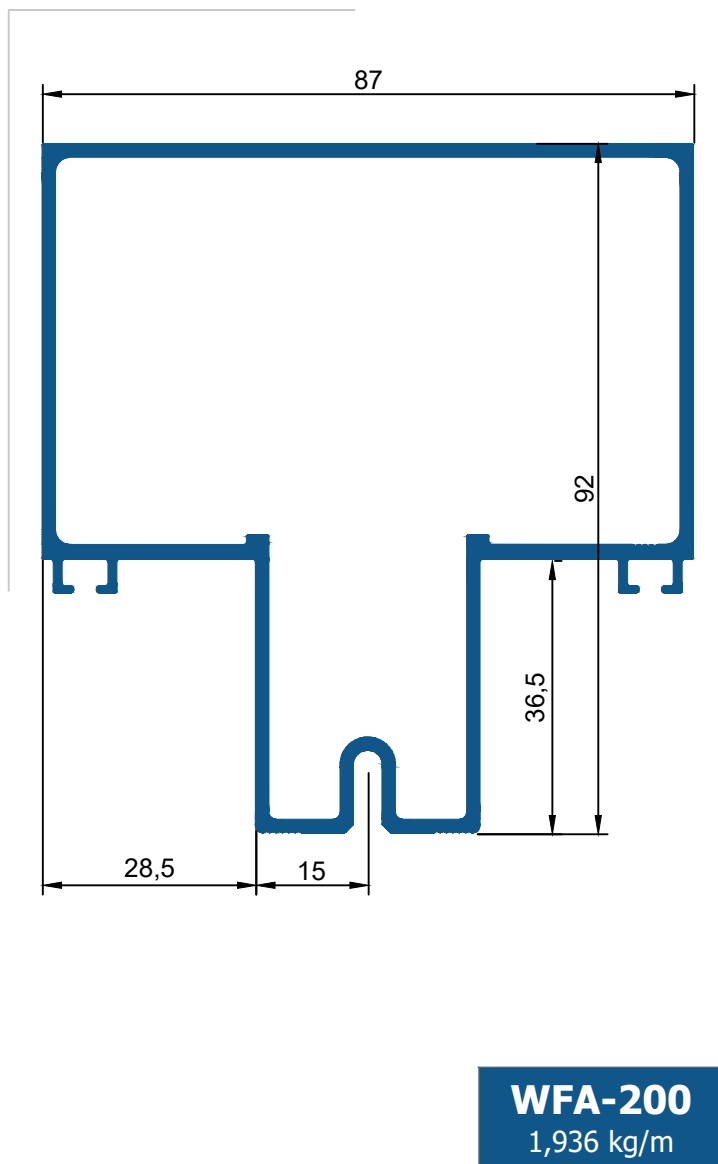


*** WGR-015**
0,410 kg/m

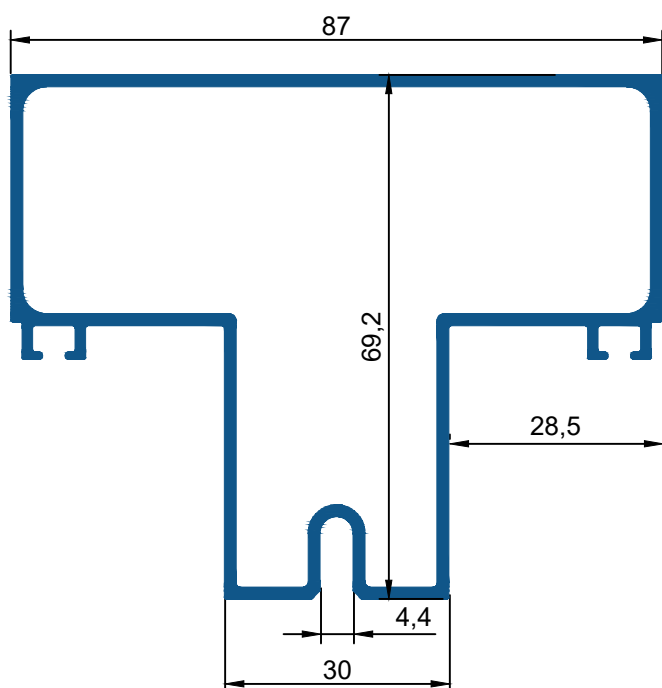


*** WGR-016**
0,405 kg/m

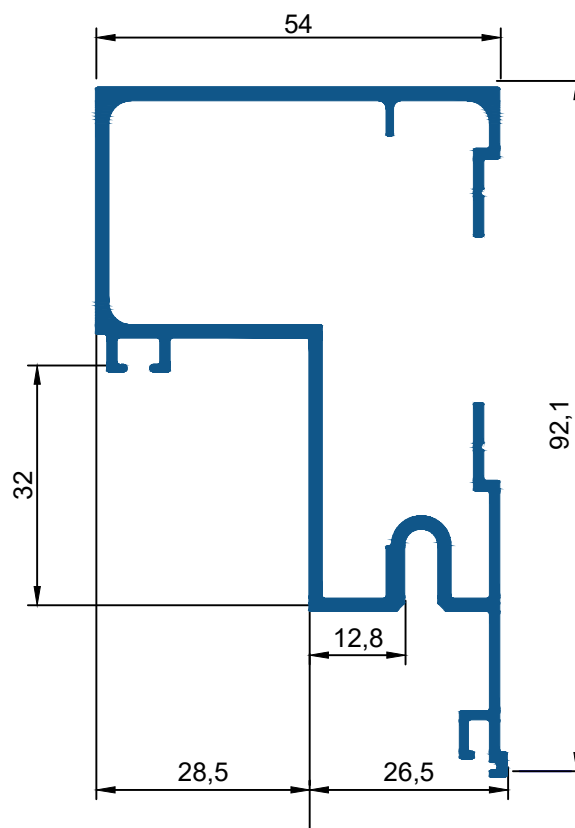
FACHADA IMPACTO



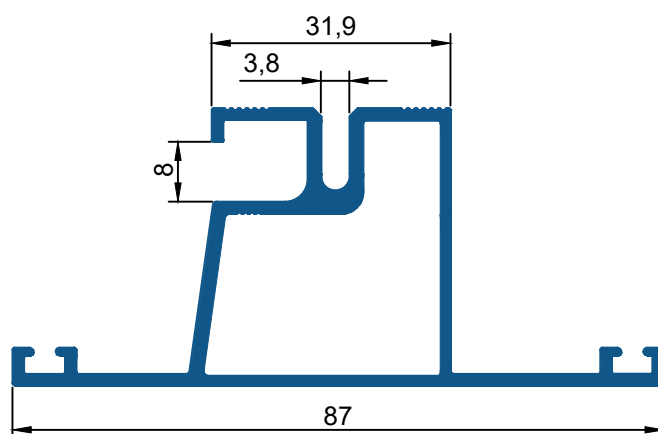
FACHADA IMPACTO



WFA-400
1,516 kg/m

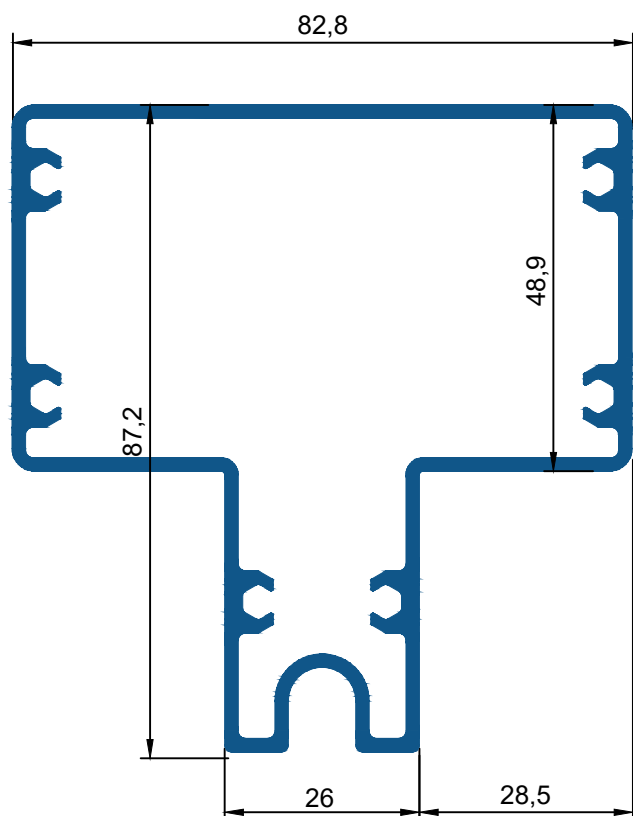


WFA-260
1,329 kg/m

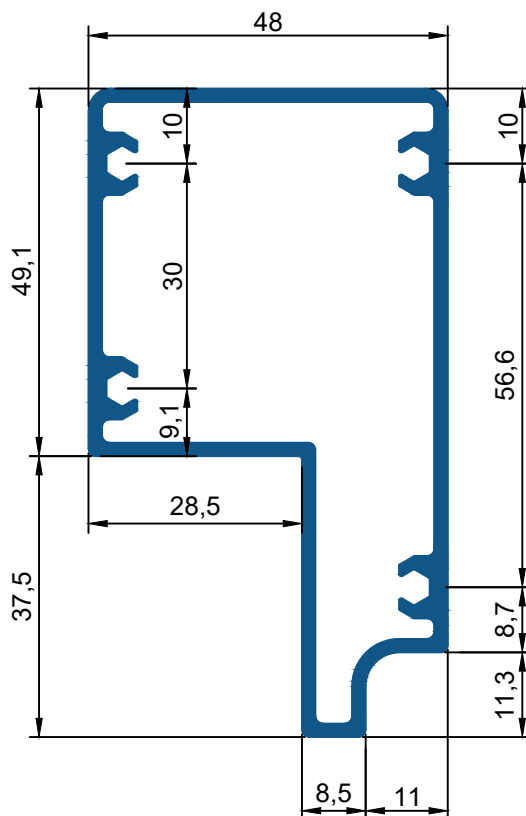


WFA-211
0,995 kg/m

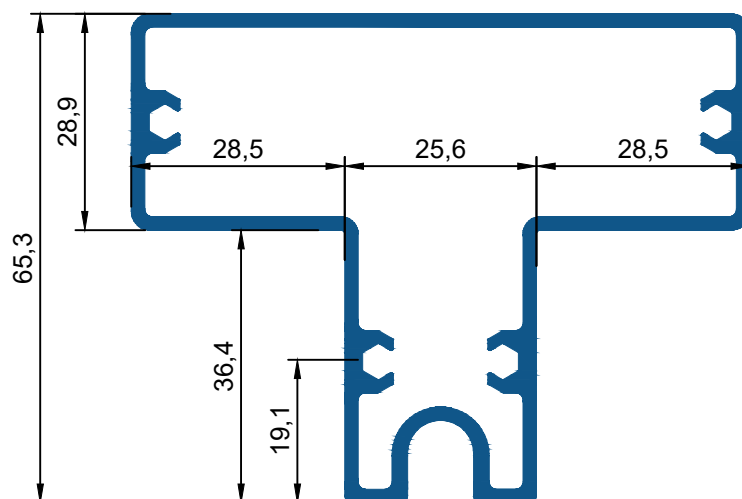
FACHADA IMPACTO



WFA-223
2,038 kg/m

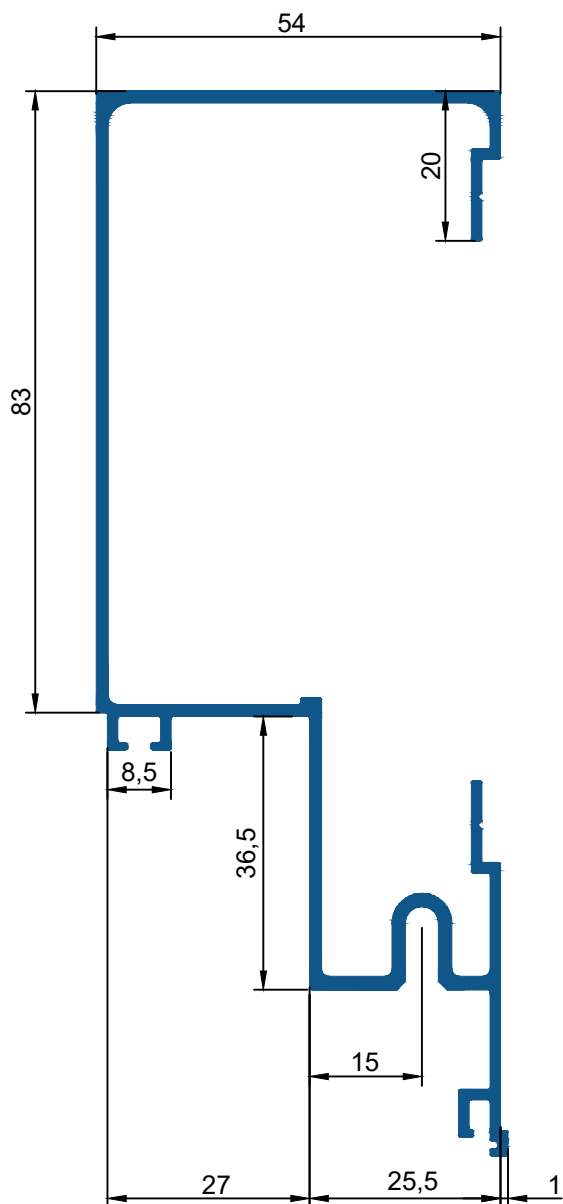


*** WFA-206**
1,489 kg/m

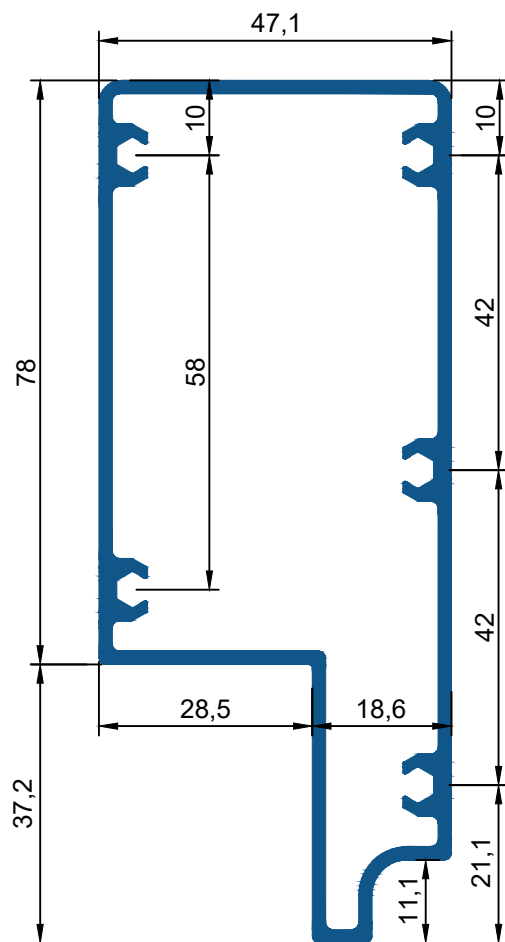


*** WFA-401**
1,727 kg/m

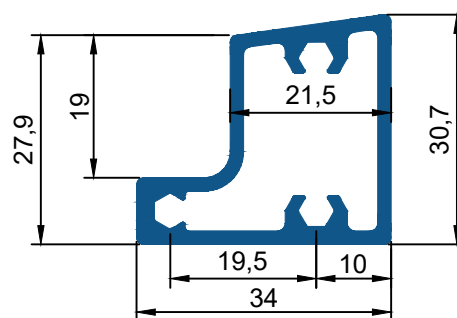
FACHADA IMPACTO



*** WFA-278**
1,453 kg/m

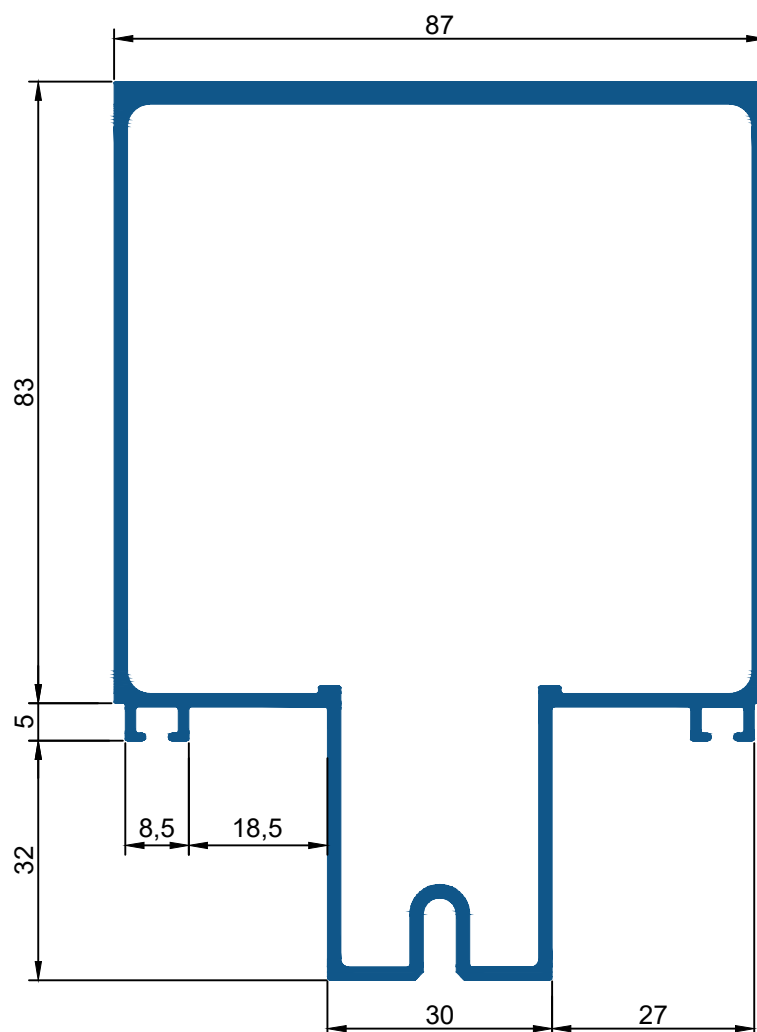


*** WFA-279**
1,826 kg/m

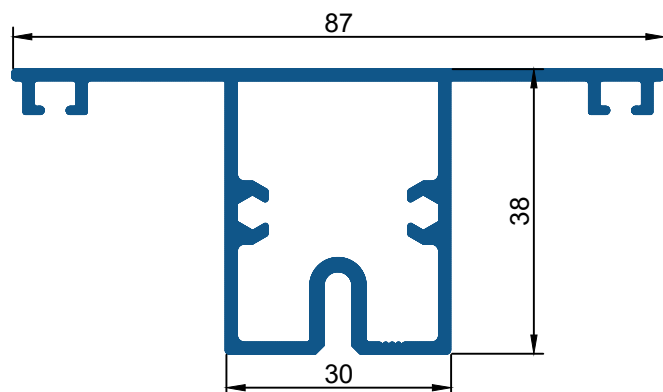


*** WFA-397**
0,716 kg/m

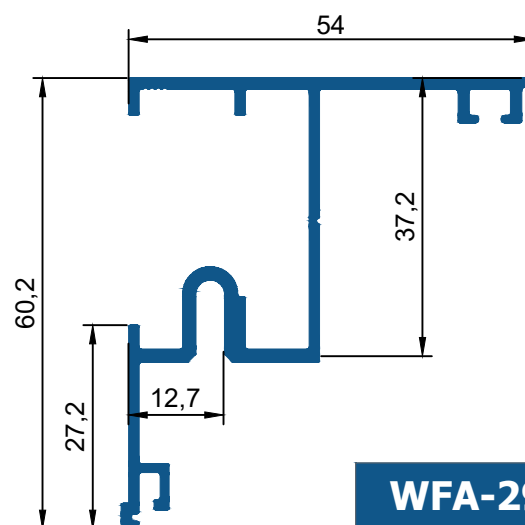
FACHADA IMPACTO



WFA-375
2,454 kg/m

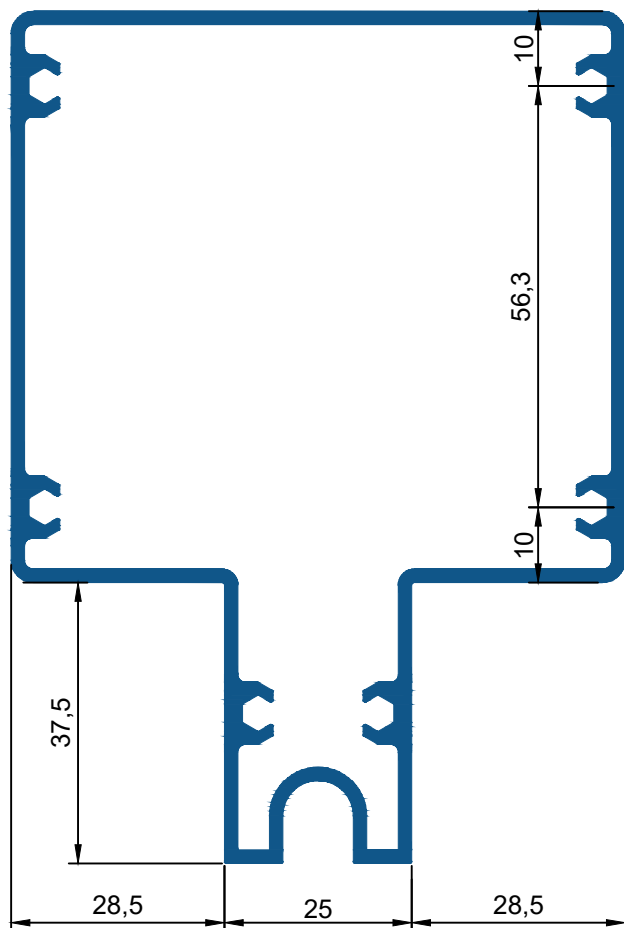


WFA-204
0,936 kg/m

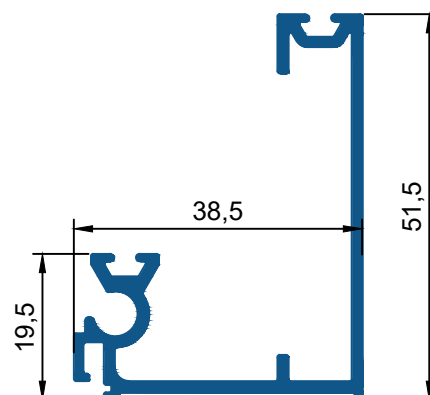


WFA-294
0,788 kg/m

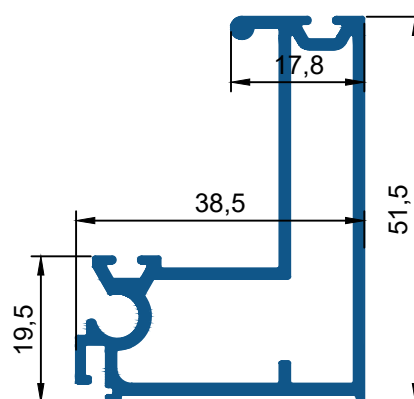
FACHADA IMPACTO



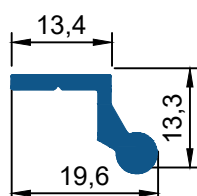
WFA-376
2,295 kg/m



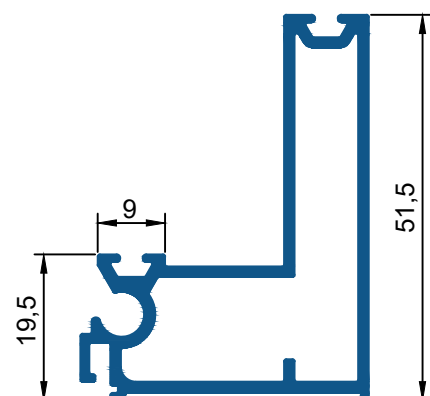
WFA-228
0,602 kg/m



WFA-230
0,801 kg/m

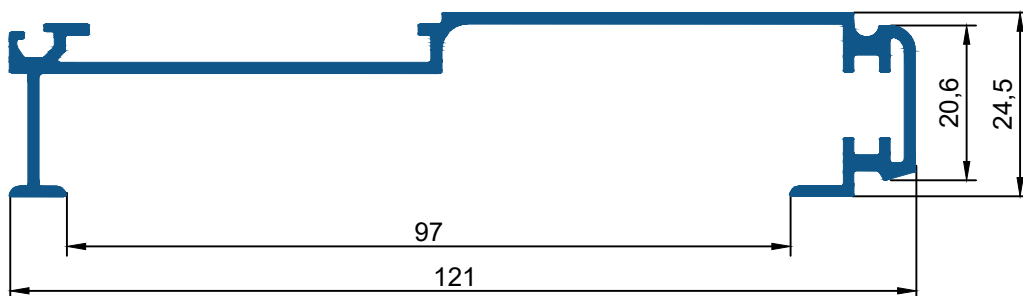


WFA-205
0,191 kg/m

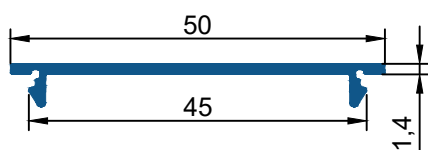


WFA-245
0,766 kg/m

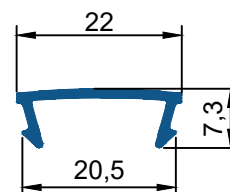
FACHADA IMPACTO



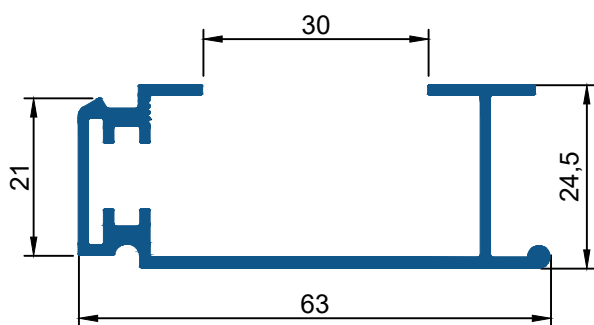
WFA-265
0,907 kg/m



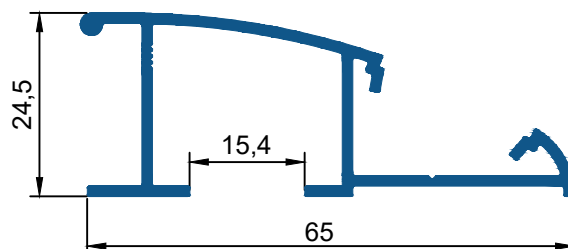
WFA-299
0,221 kg/m



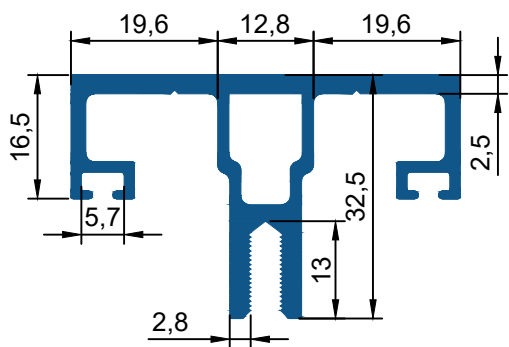
WFA-237
0,121 kg/m



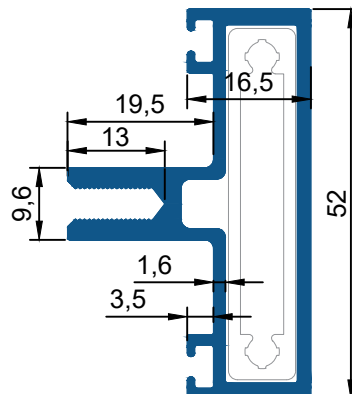
WFA-239A
0,636 kg/m



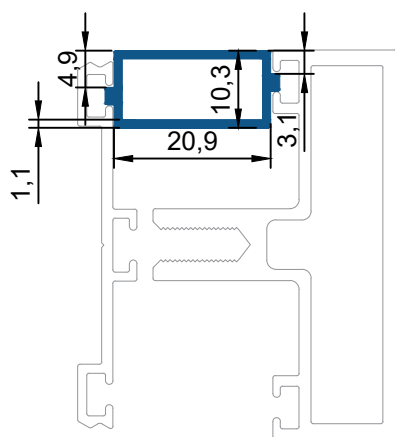
WFA-238A
0,565 kg/m



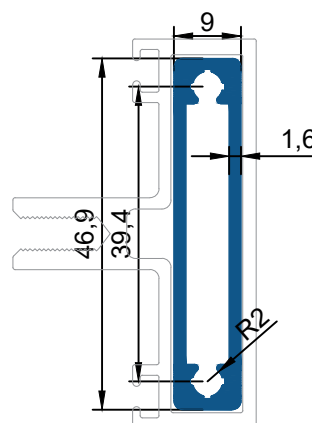
WGRI-101
0,973 kg/m



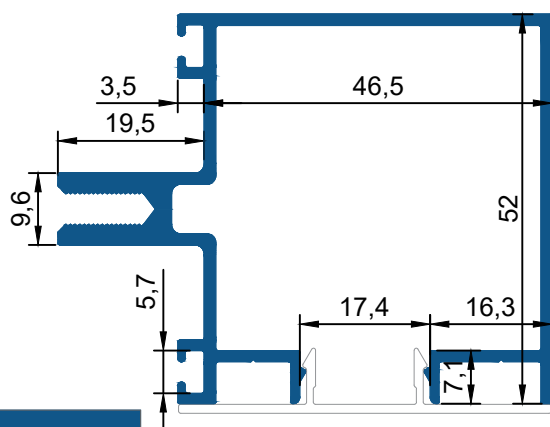
WGRI-201
0,916 kg/m



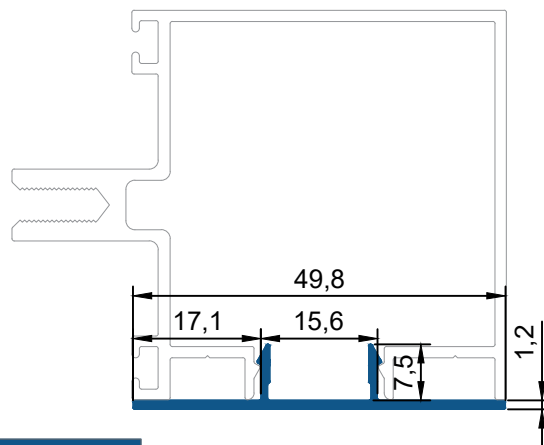
WGRI-1000
0,188 kg/m



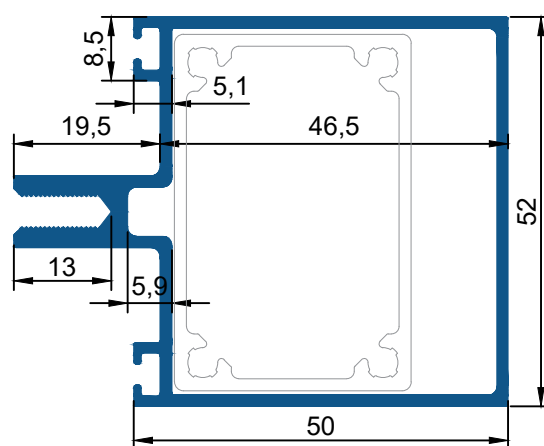
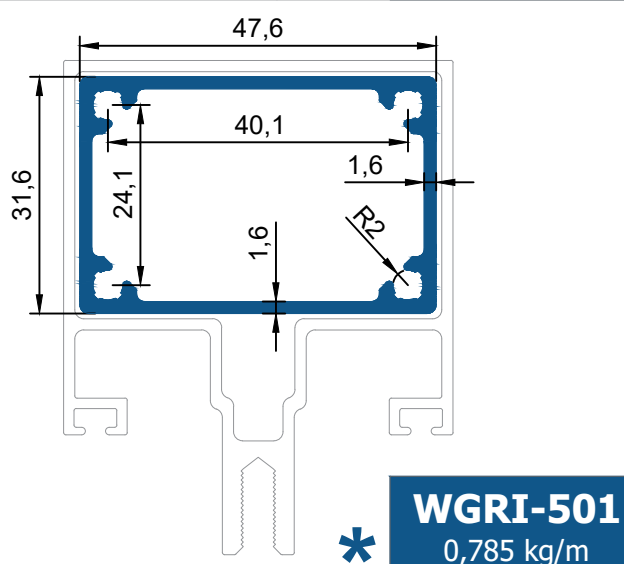
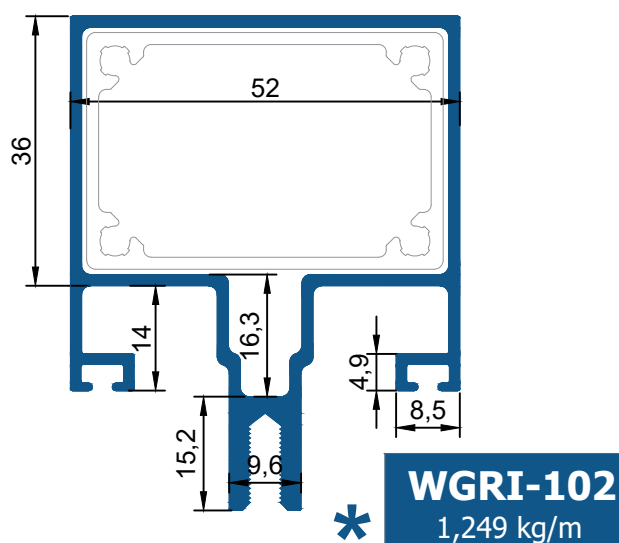
WGRI-607
0,513 kg/m



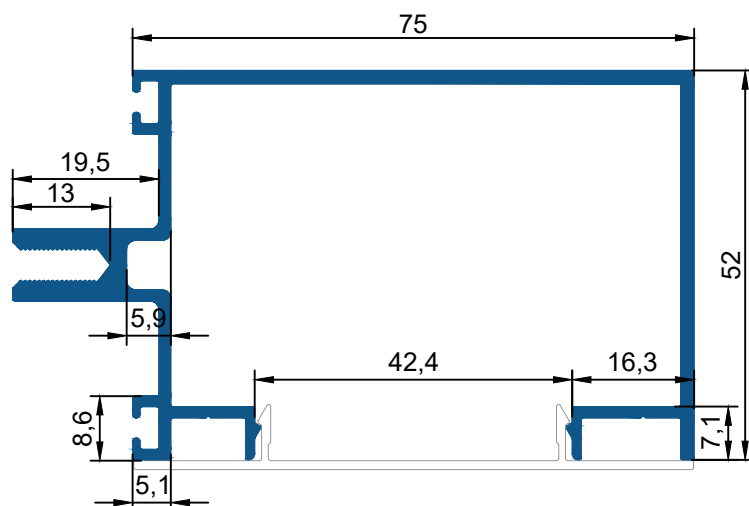
WGRI-301
1,087 kg/m



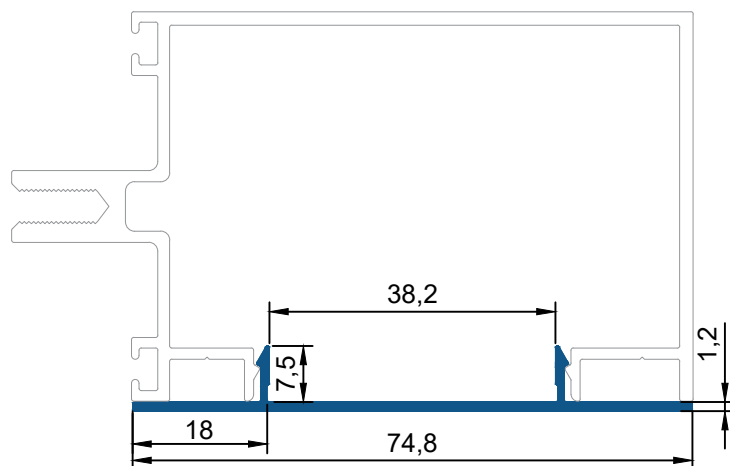
WGRI-709
0,206 kg/m



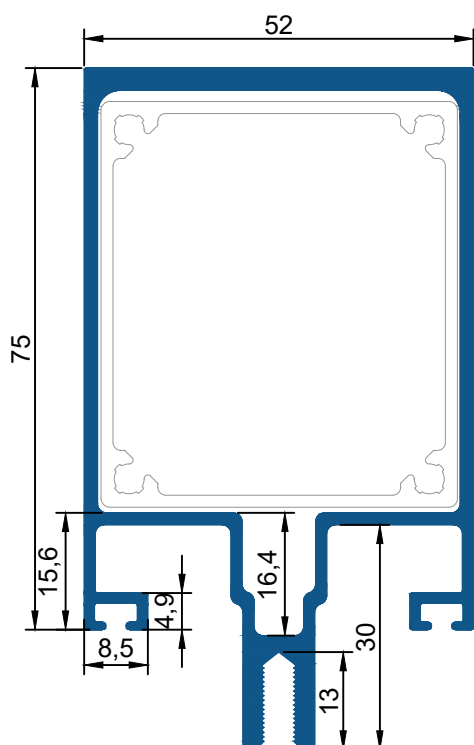
WGRID-202
1,119 kg/m



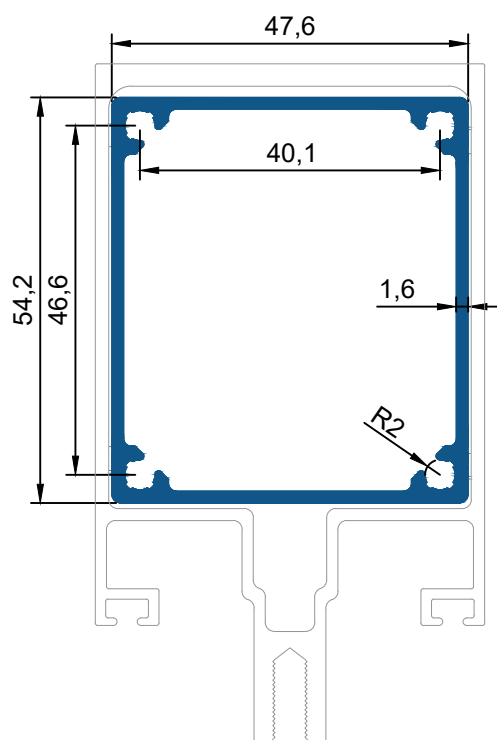
WGRID-302
1,283 kg/m



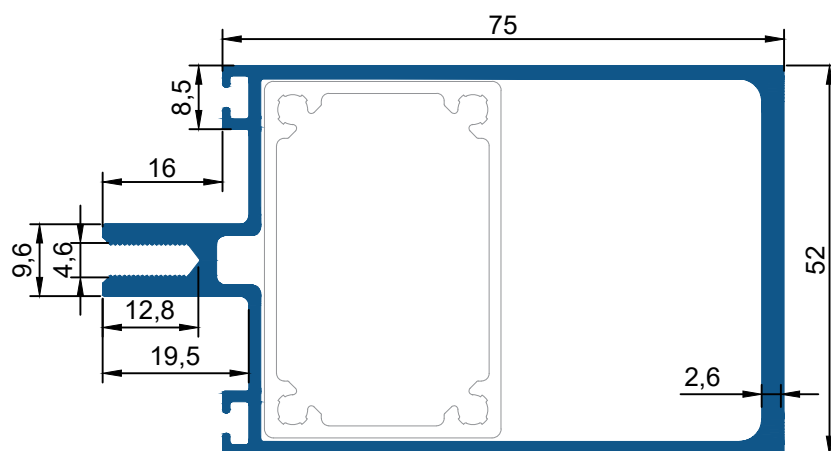
WGRI-710
0,287 kg/m



WGRI-103
1,763 kg/m

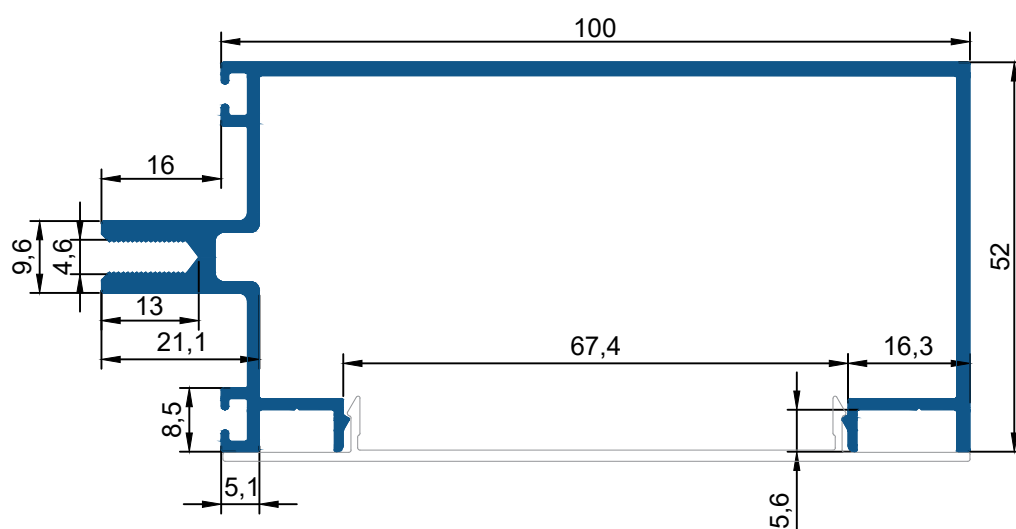


WGRI-502
0,980 kg/m



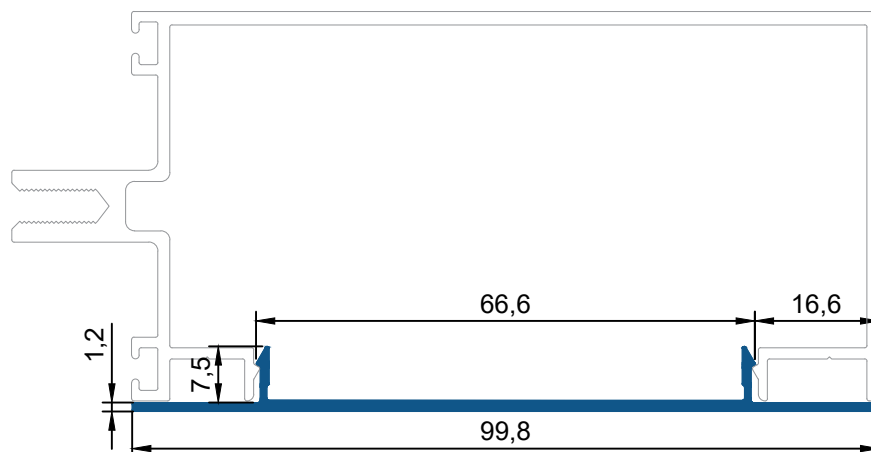
*

WGRI-203
1,639 kg/m



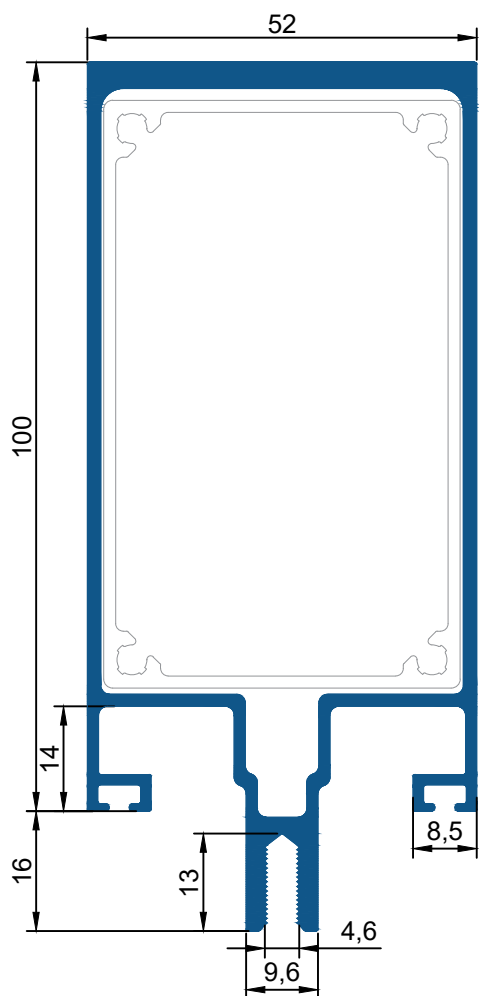
*

WGRI-303
1,405 kg/m

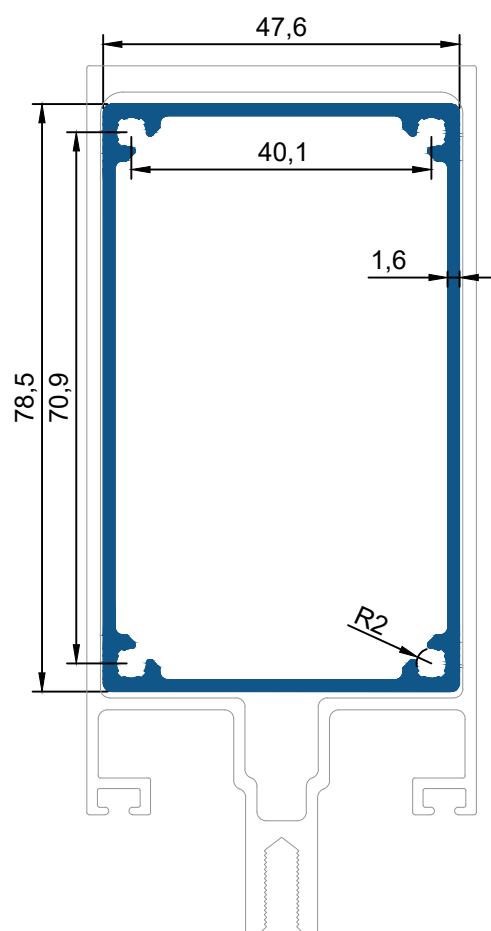


*

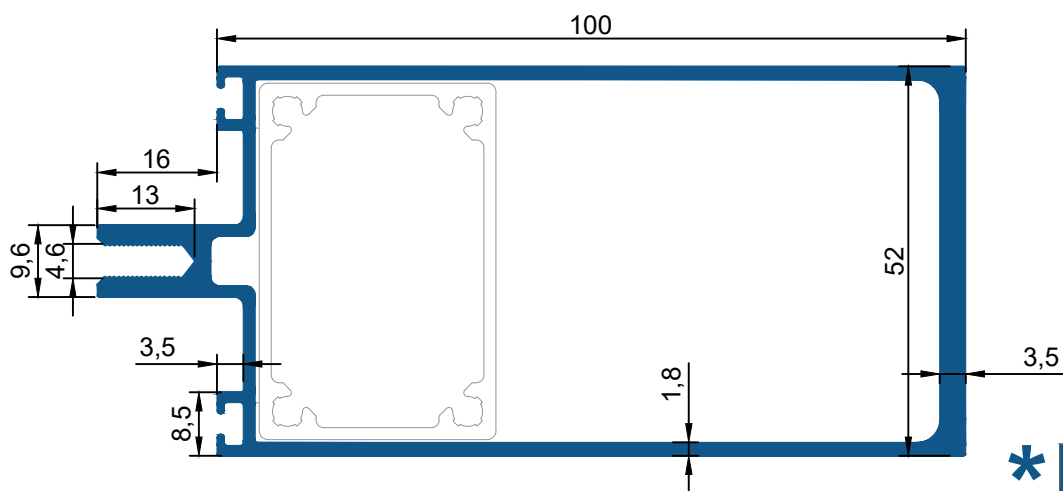
WGRI-711
0,421 kg/m



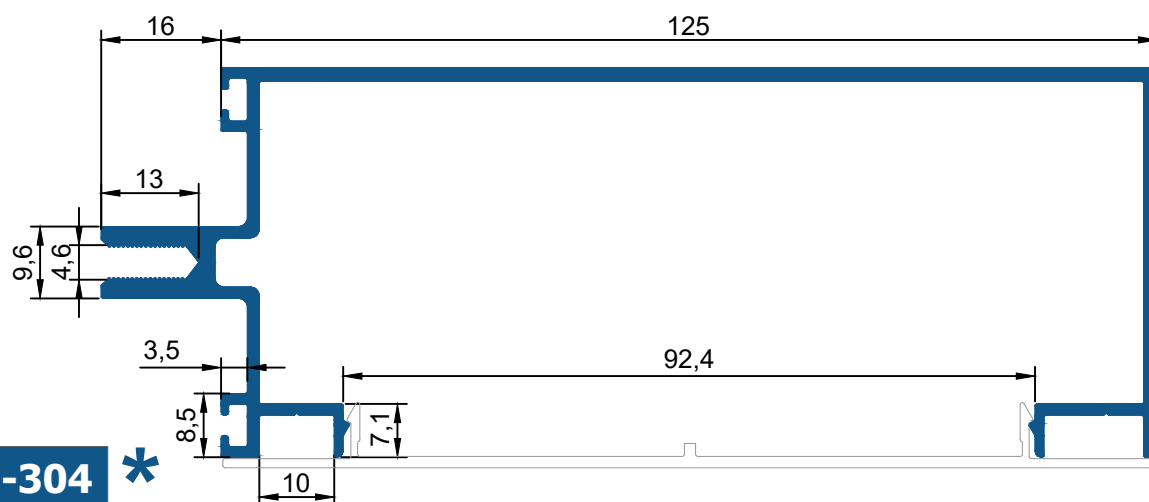
*** WGR1-104**
2,072 kg/m



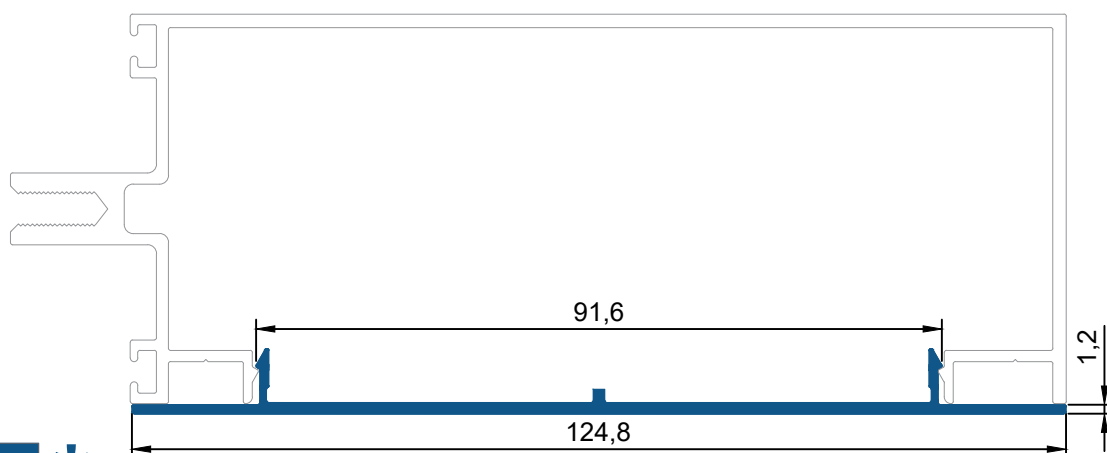
*** WGR1-503**
1,191 kg/m



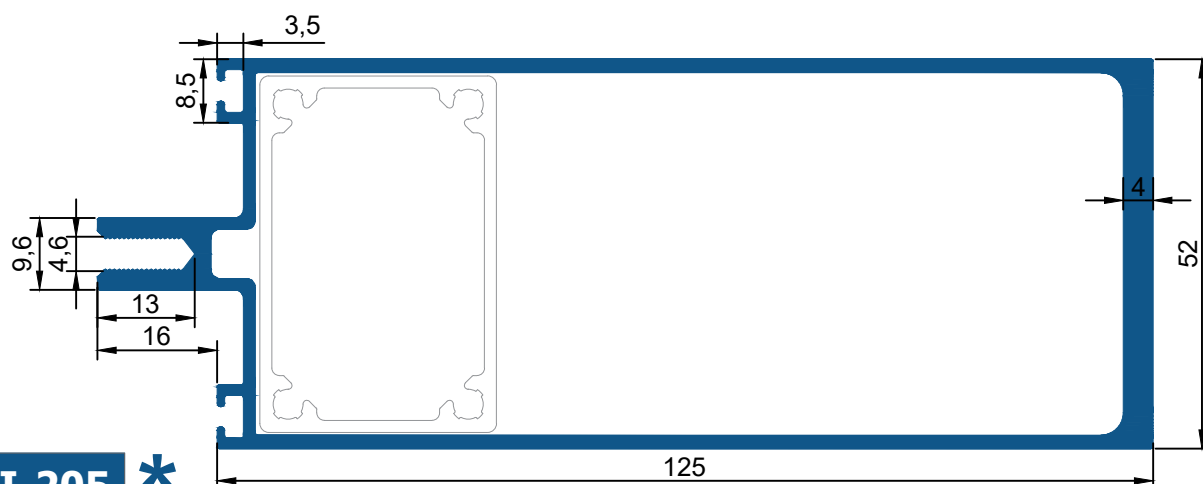
*** WGR1-204**
1,949 kg/m



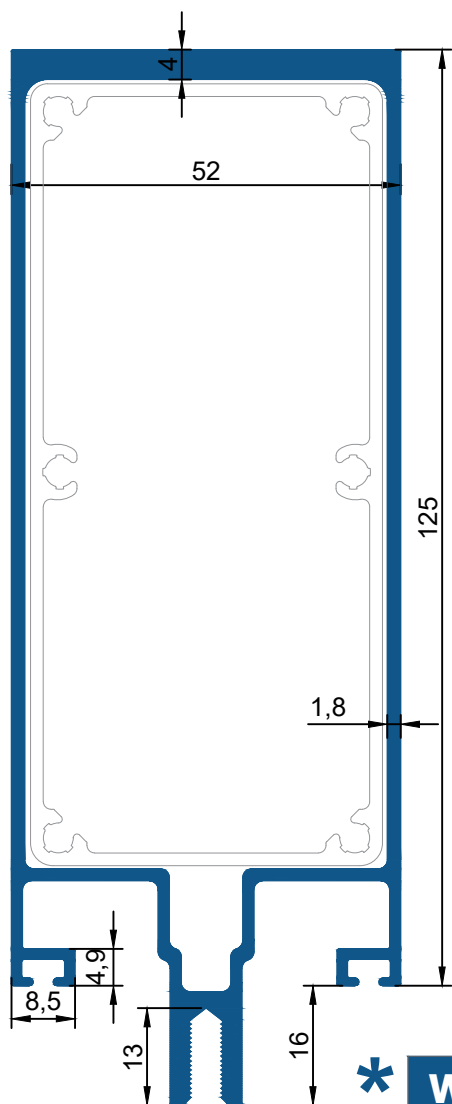
WGRI-304
1,527 kg/m



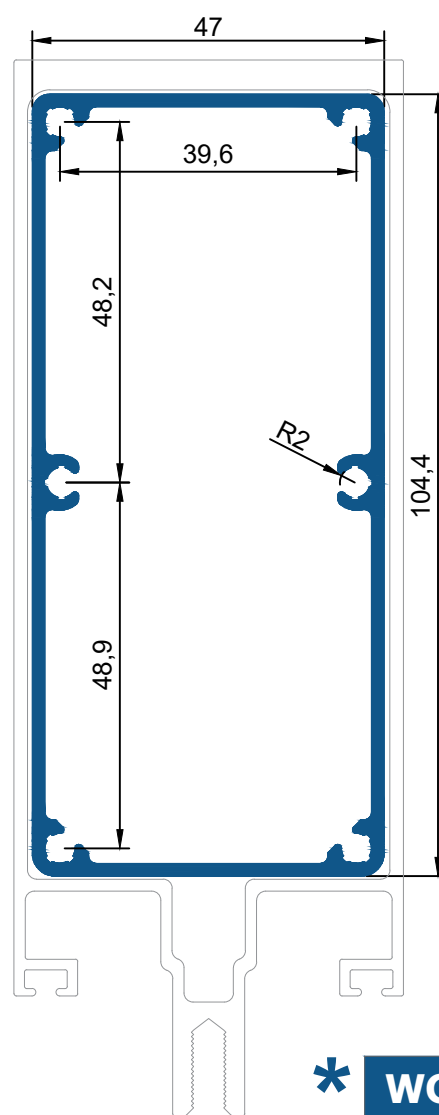
WGRI-712
0,529 kg/m



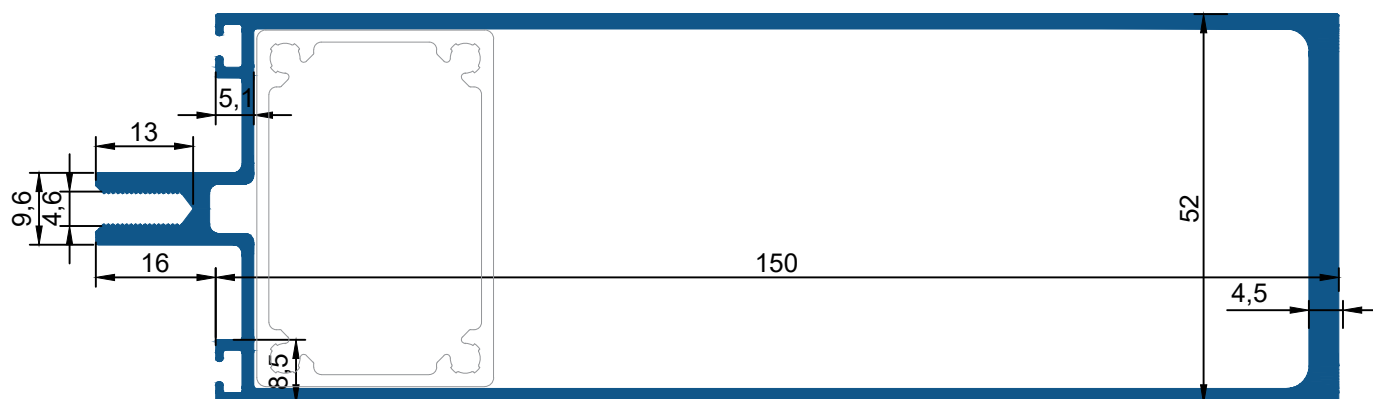
WGRI-205
2,258 kg/m



WGRI-105
2,382 kg/m

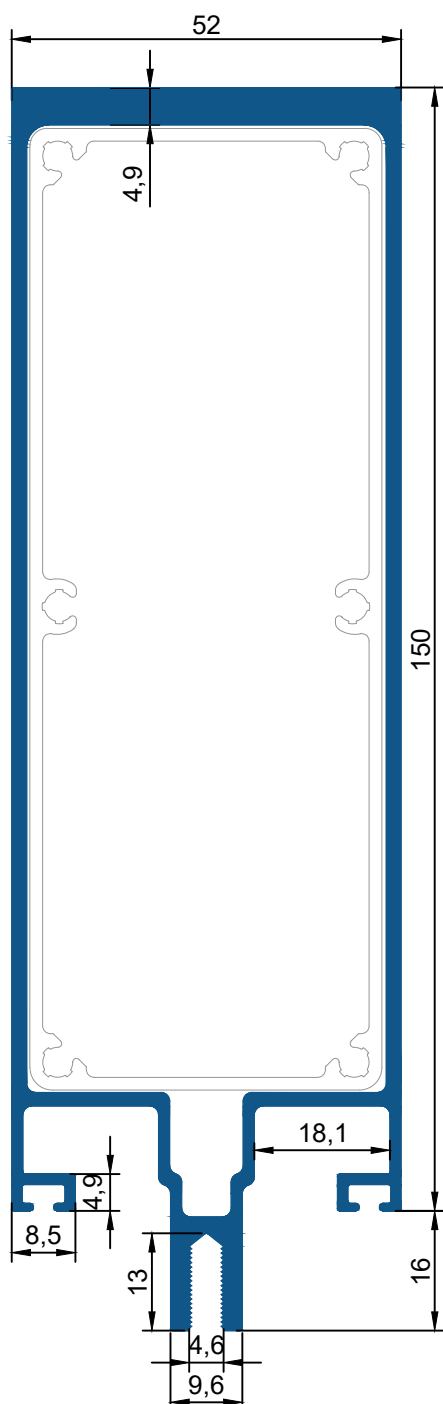


WGRI-504
1,548 kg/m

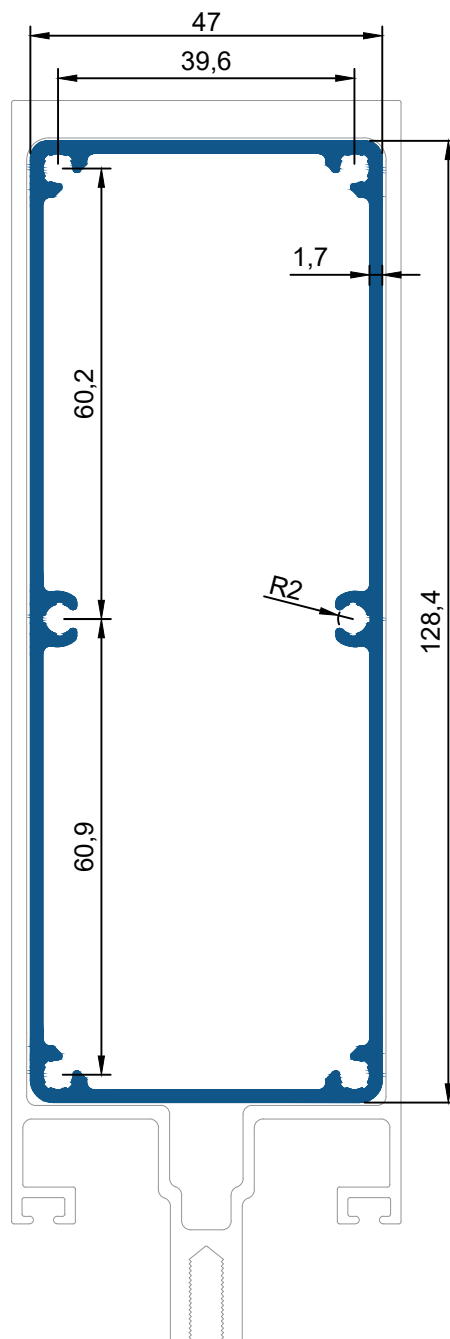


WGRI-206
2,655 kg/m

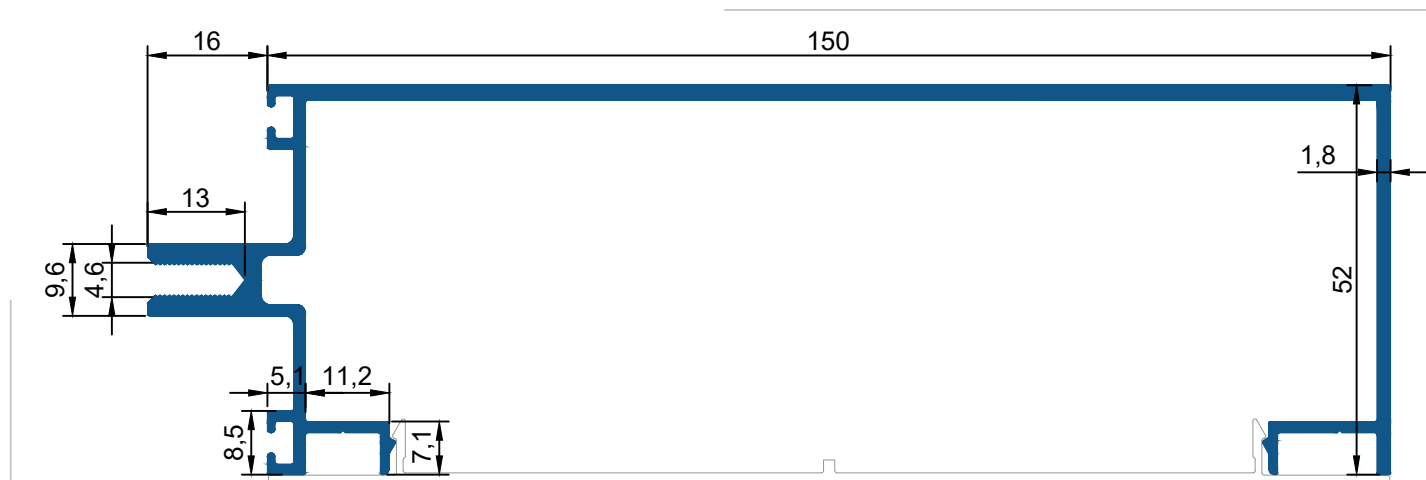




*** WGRI-106**
2,919 kg/m

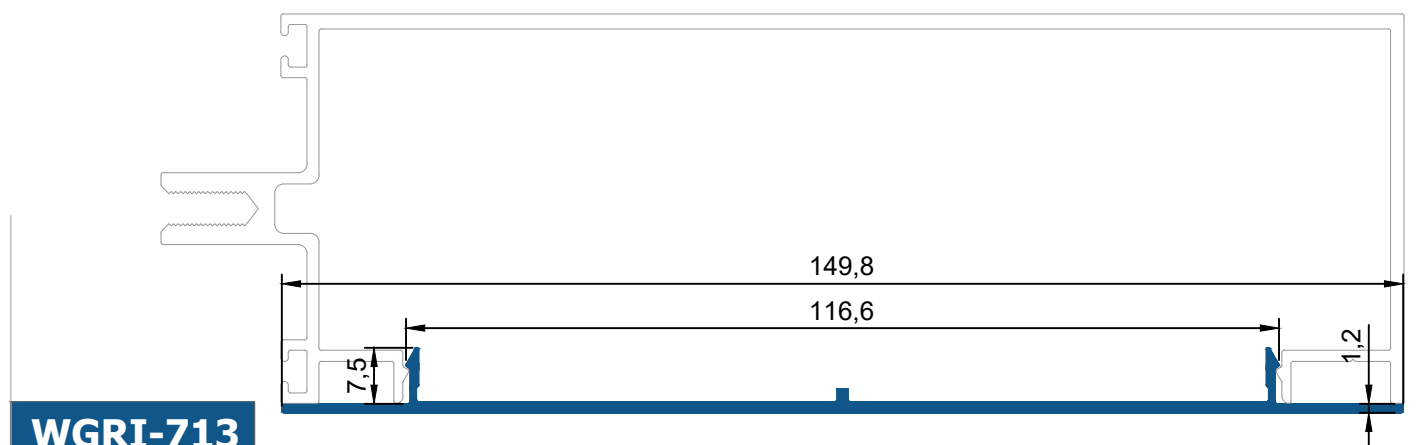


*** WGRI-505**
1,769 kg/m



WGRI-305

1,727 kg/m



WGRI-713

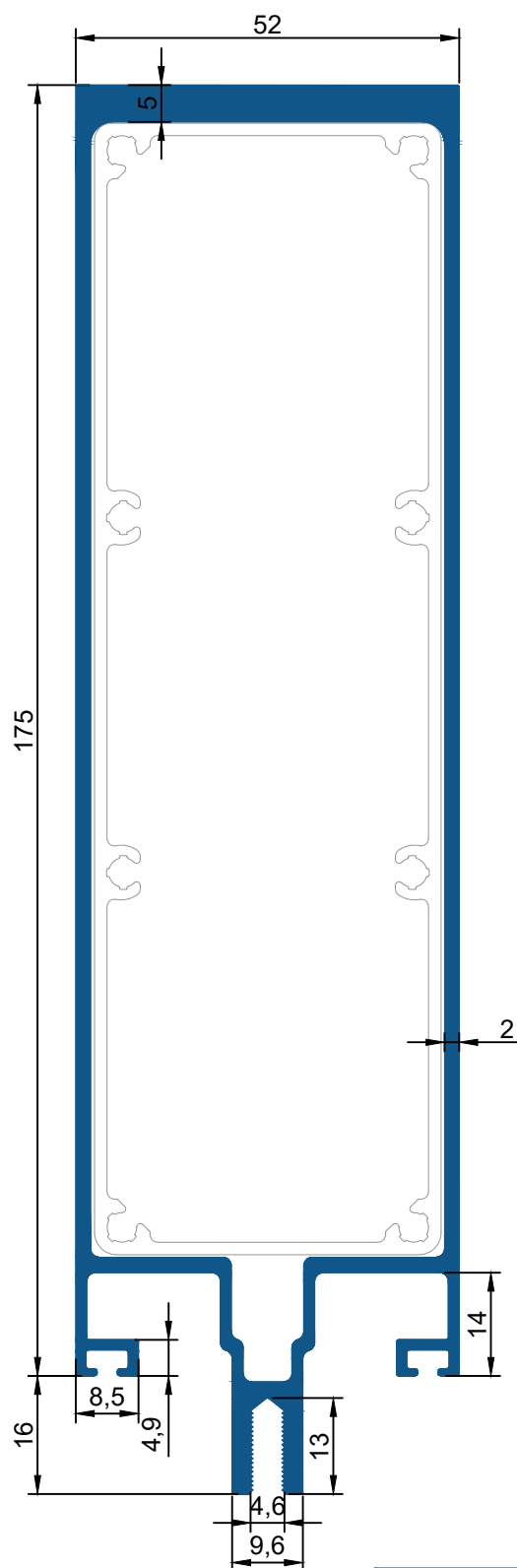
0,631 kg/m



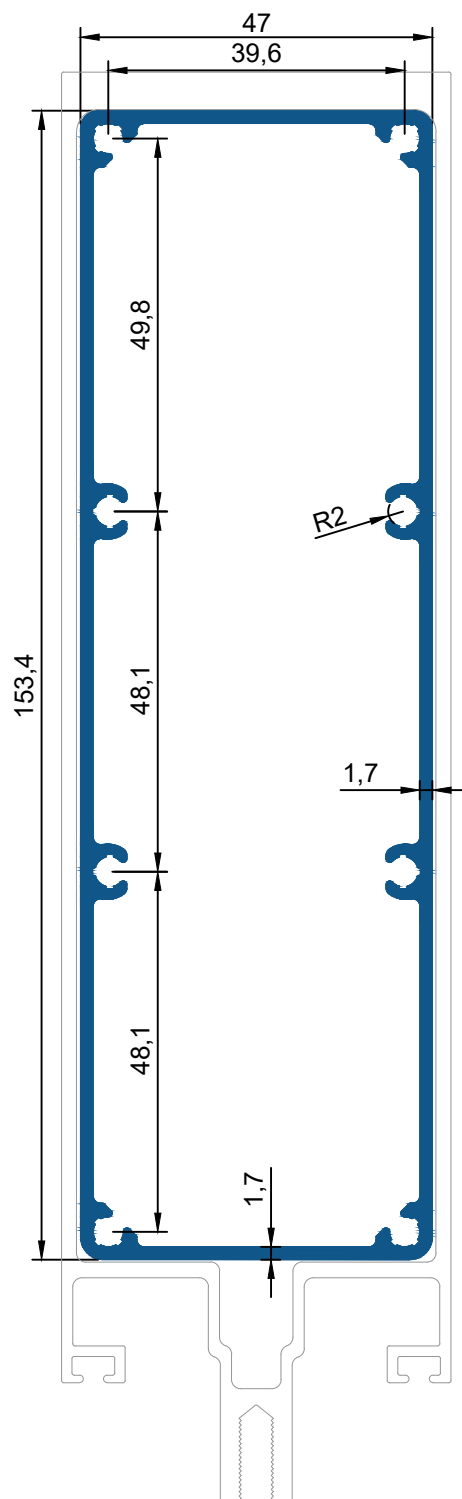
WGRI-207

2,926 kg/m

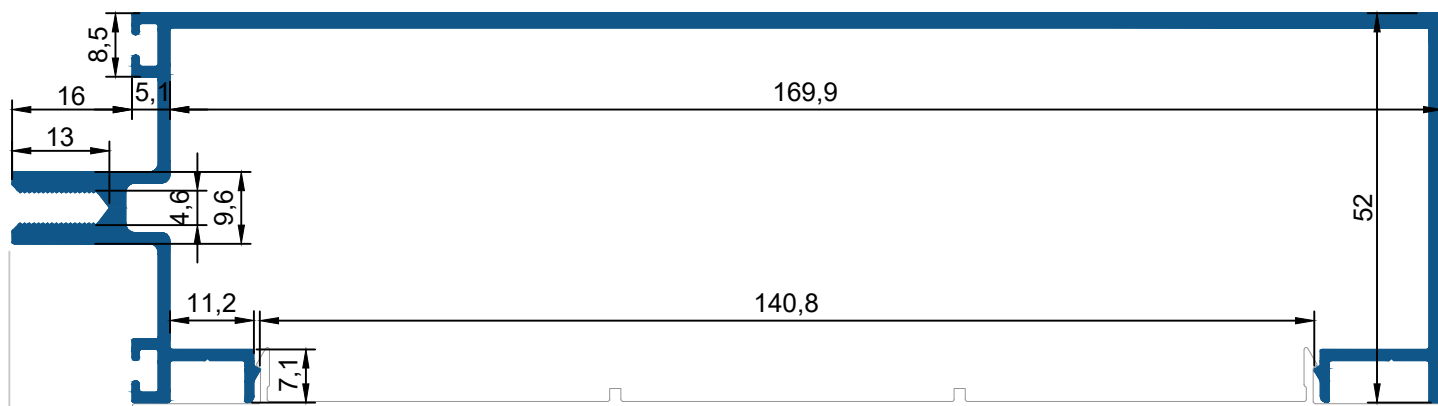




WGRI-107
3,221 kg/m



WGRI-506
2,092 kg/m

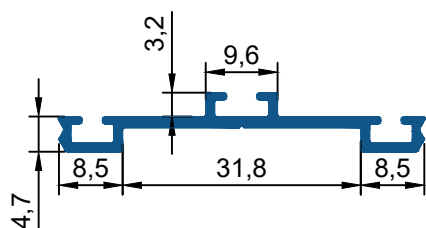
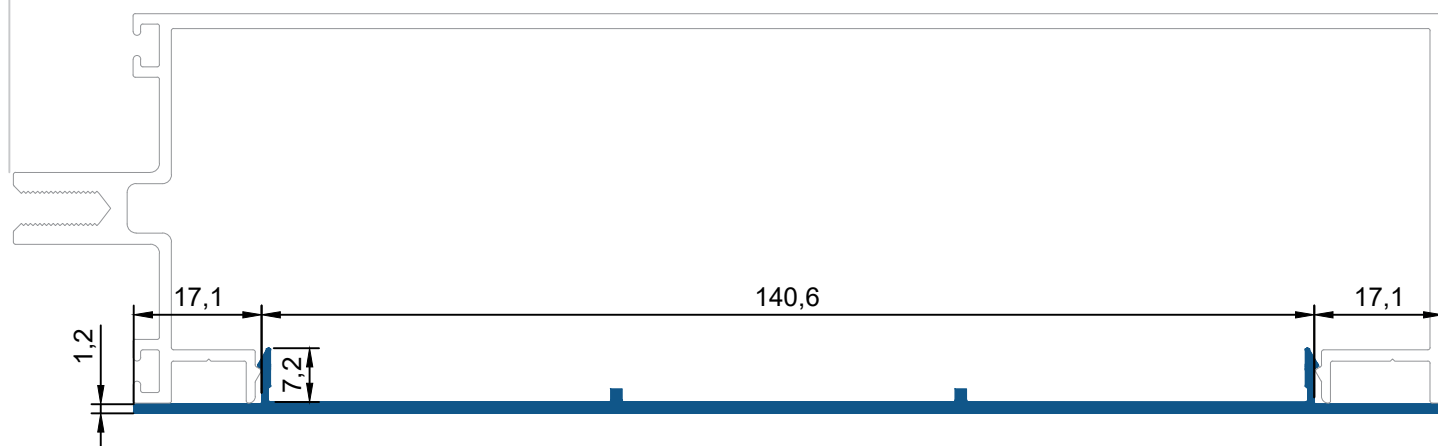


WGR1-306

1,826 kg/m

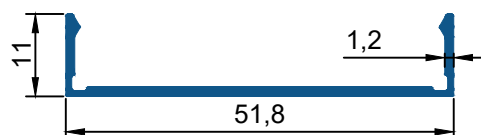
WGR1-714

0,740 kg/m



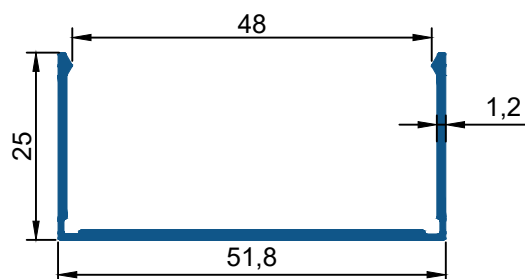
WGR1-401

0,274 kg/m

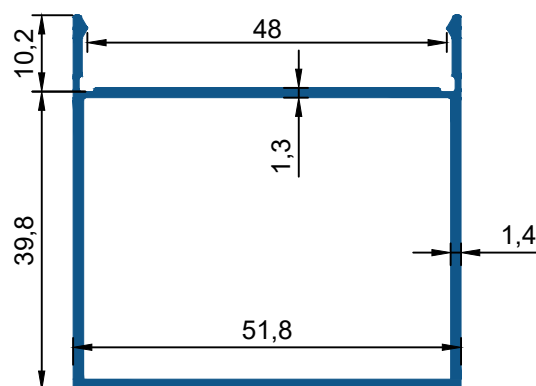


WGR1-402

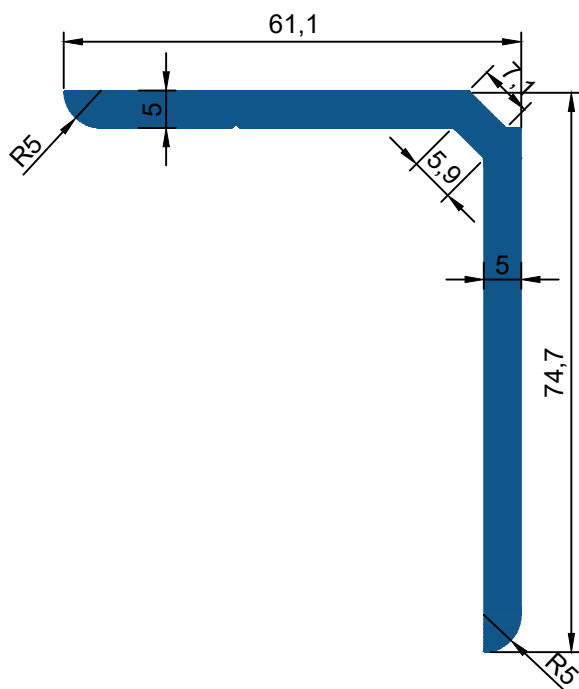
0,242 kg/m



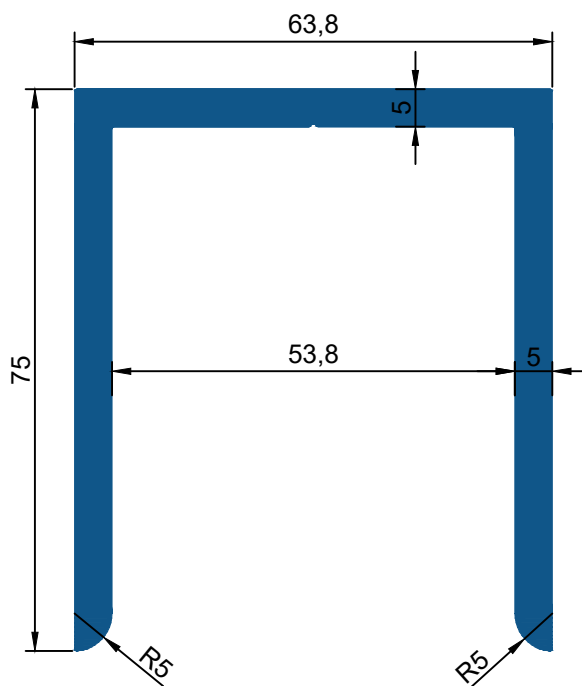
*** WGR-010**
0,349 kg/m



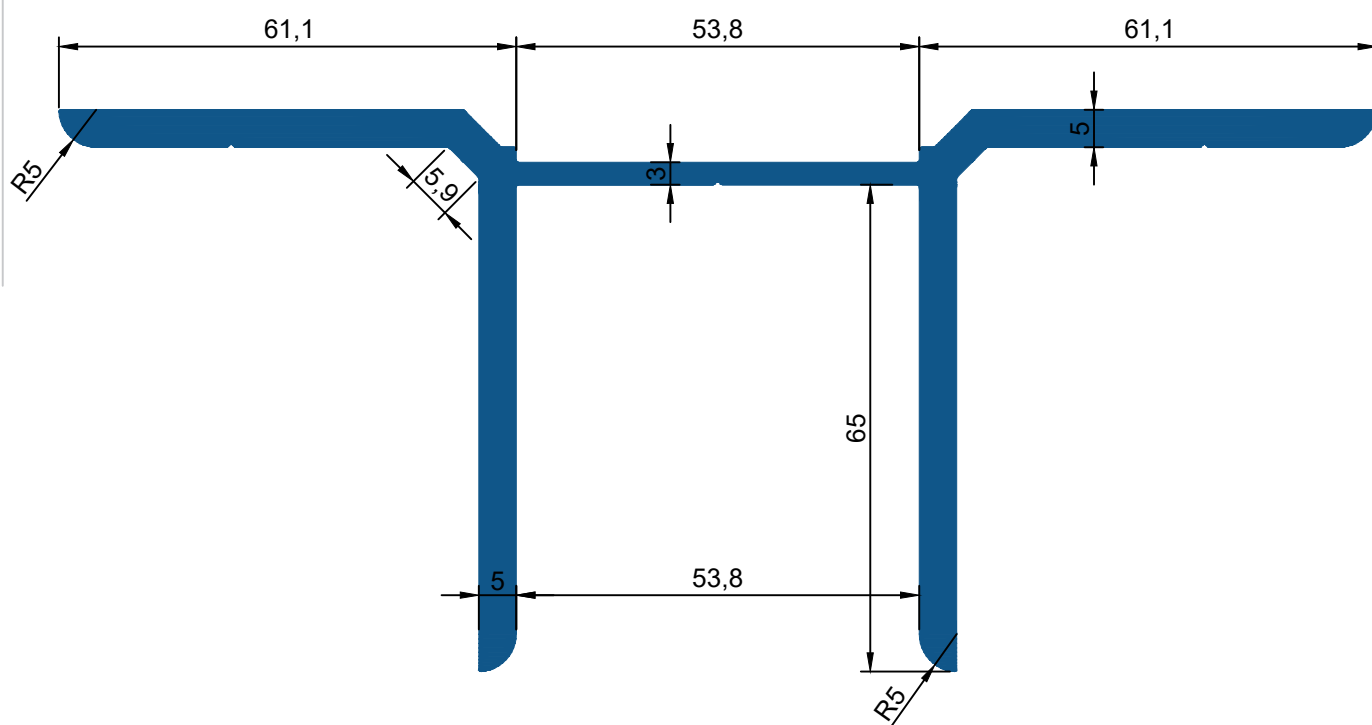
*** WGRI-403**
0,724 kg/m



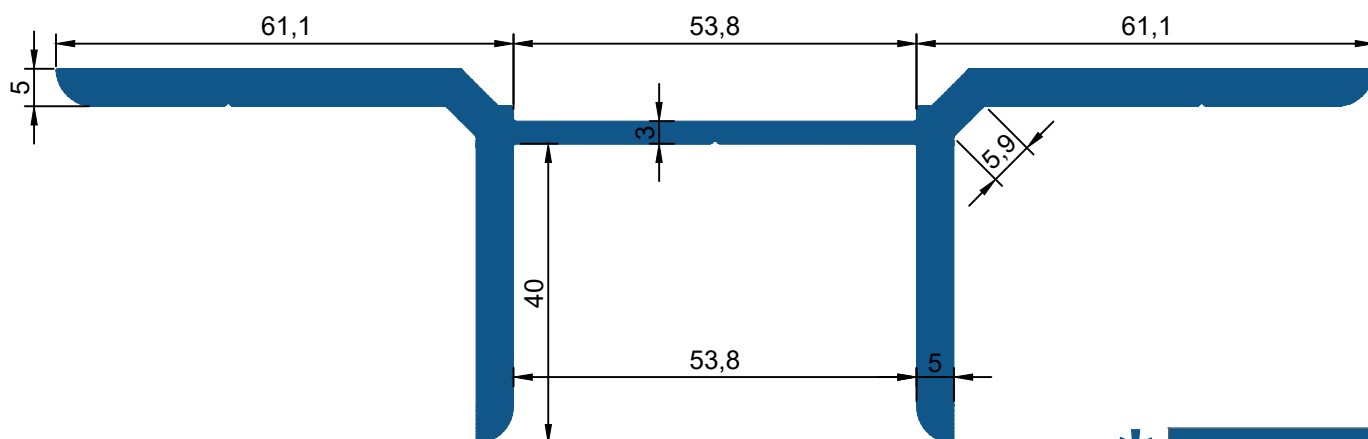
*** WGRI-804**
1,708 kg/m



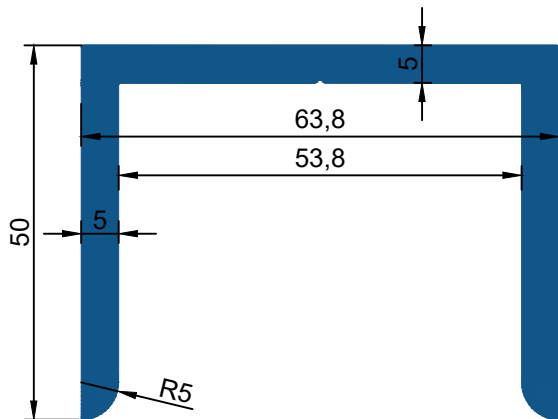
*** WGRI-805**
2,732 kg/m



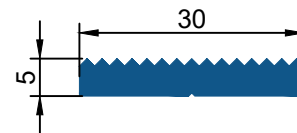
*** WGRI-806**
3,854 kg/m



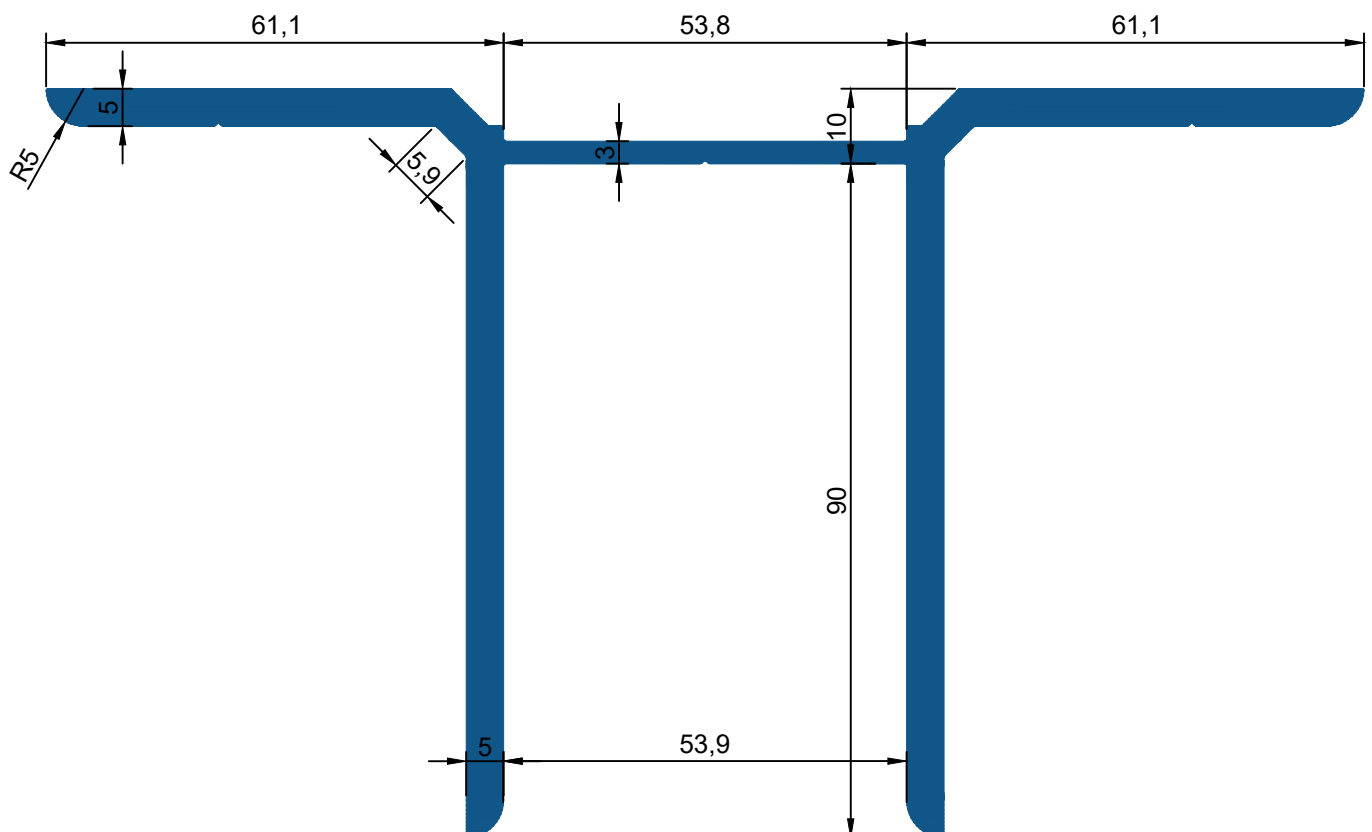
*** WGRI-803**
3,176 kg/m



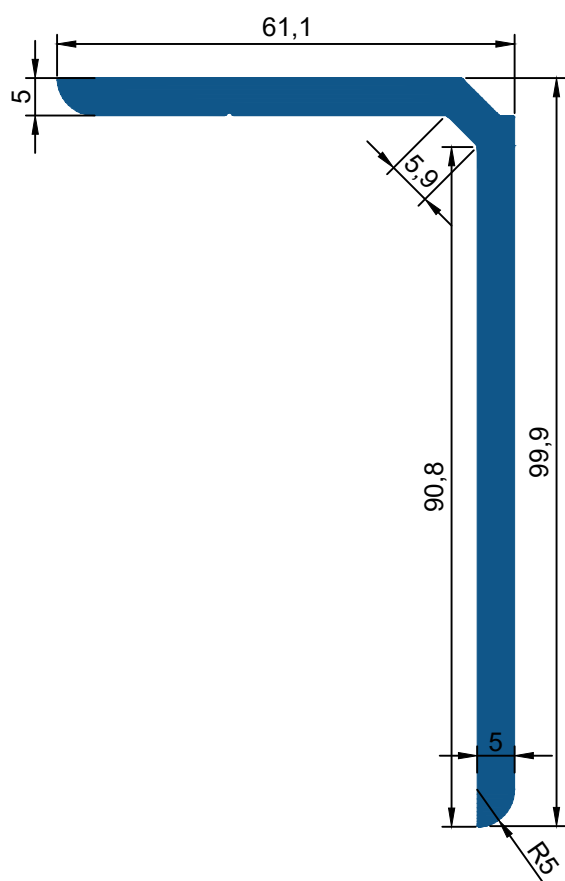
*** WGRI-802**
2,054 kg/m



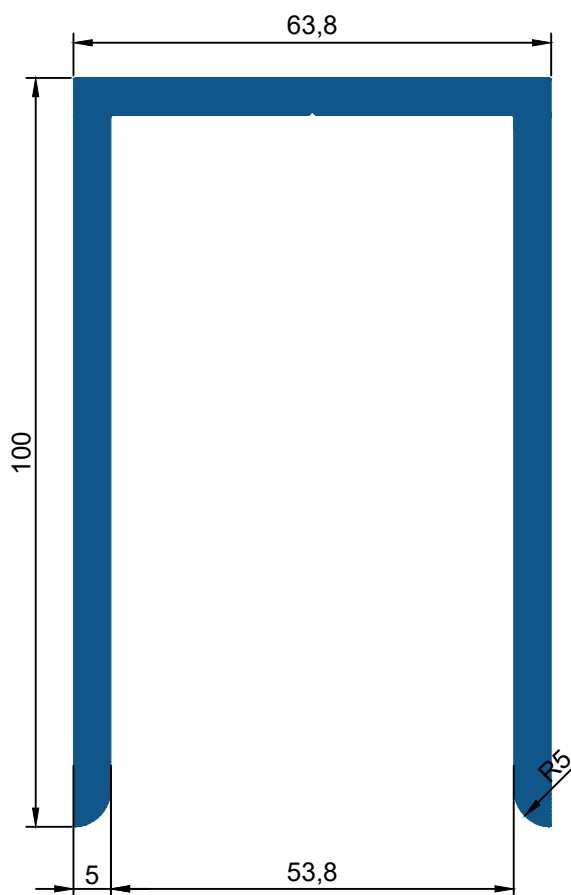
*** WGRI-801**
0,365 kg/m



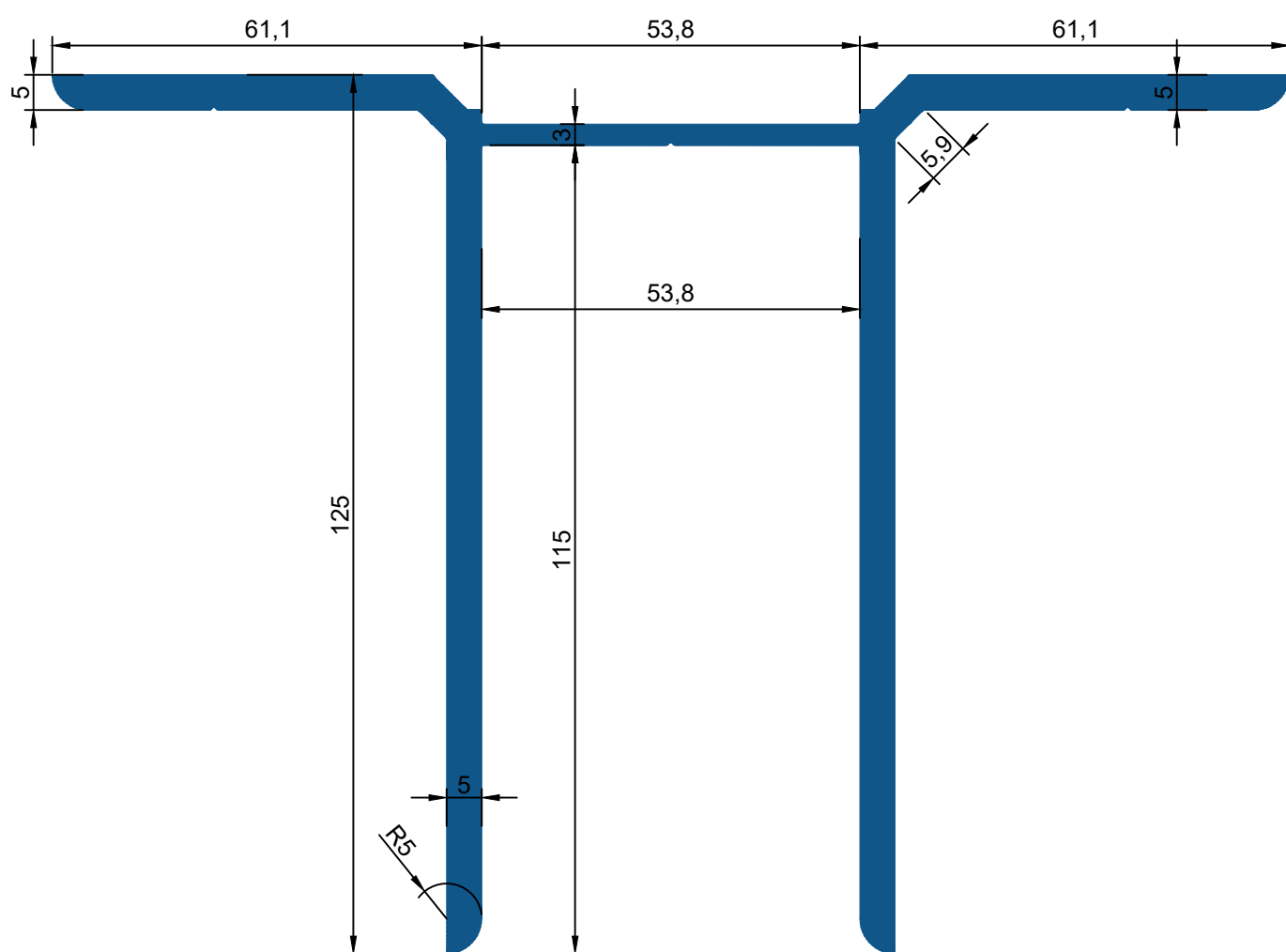
*** WGRI-809**
4,531 kg/m



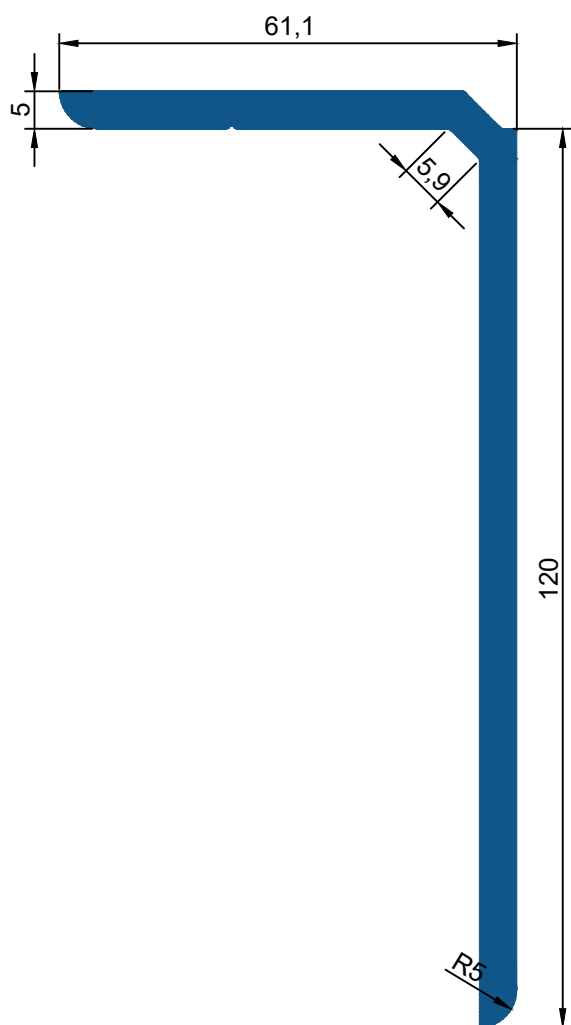
*** WGRI-807**
2,047 kg/m



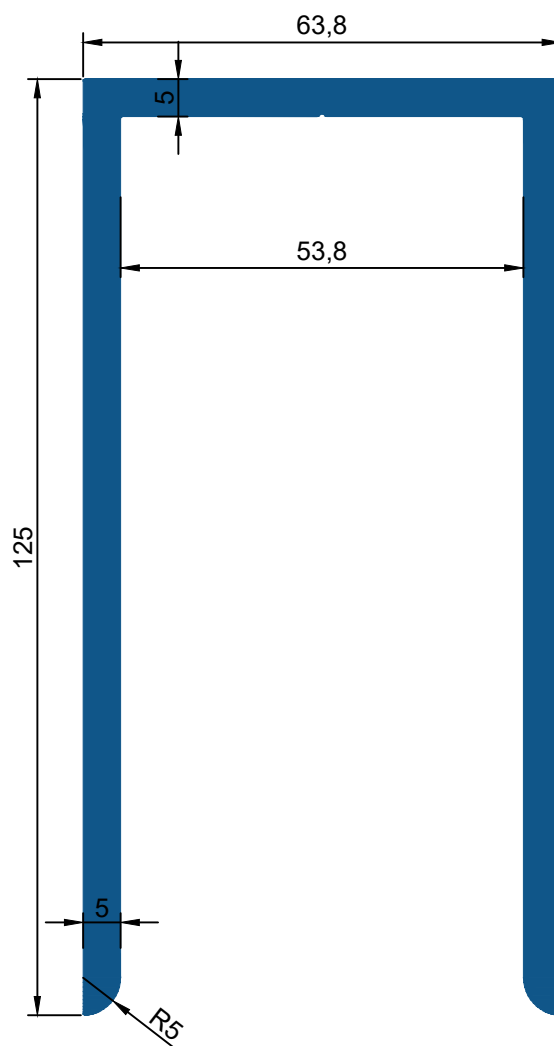
*** WGRI-808**
3,409 kg/m



*** WGRI-812**
5,209 kg/m

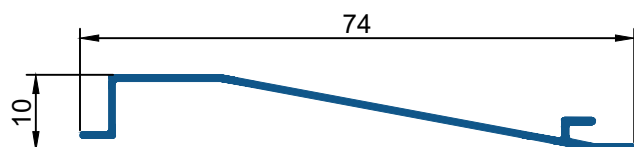


*** WGRI-810**
2,386 kg/m

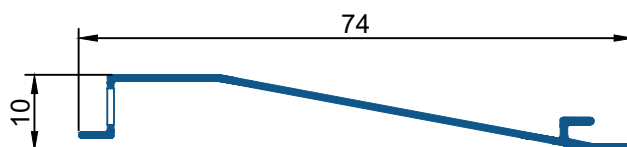


*** WGRI-811**
4,810 kg/m

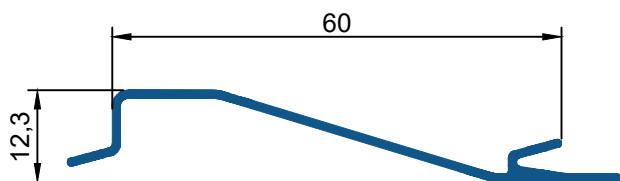
VENEZIANAS



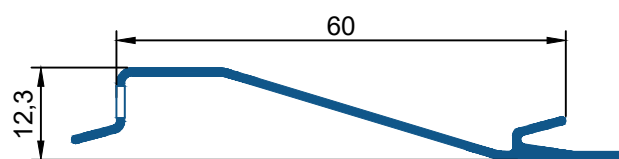
VZ-024
0,230 kg/m



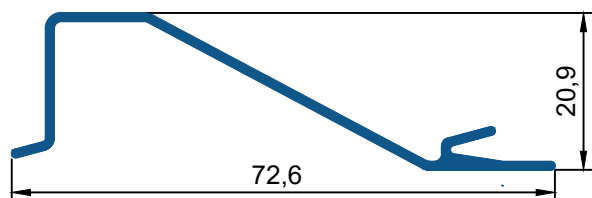
US-280
0,230 kg/m



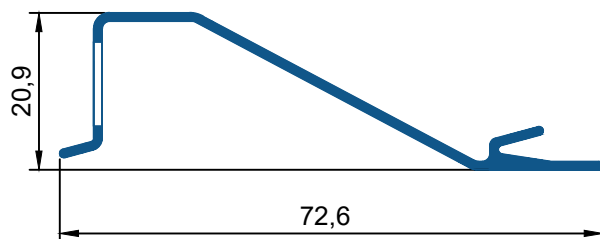
VZ-051
0,282 kg/m



US-294
0,282 kg/m

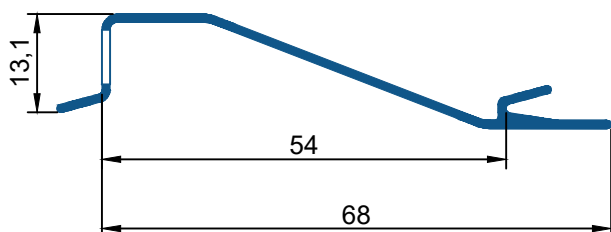


VZ-006
0,321 kg/m

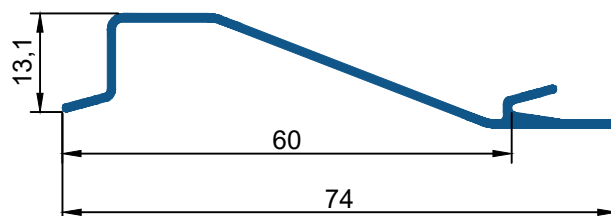


US-285
0,321 kg/m

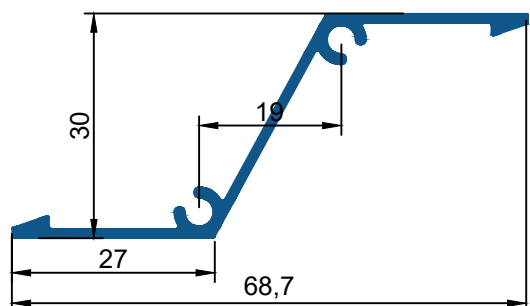
VENEZIANAS



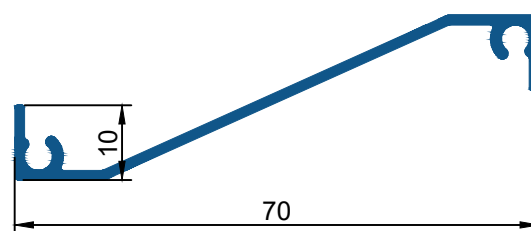
US-320
0,308 kg/m



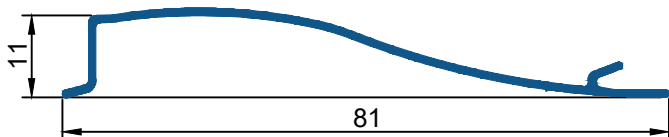
VZ-064
0,308 kg/m



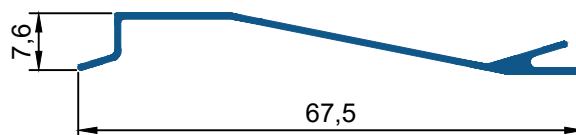
VZ-060
0,399 kg/m



VZ-005
0,370 kg/m

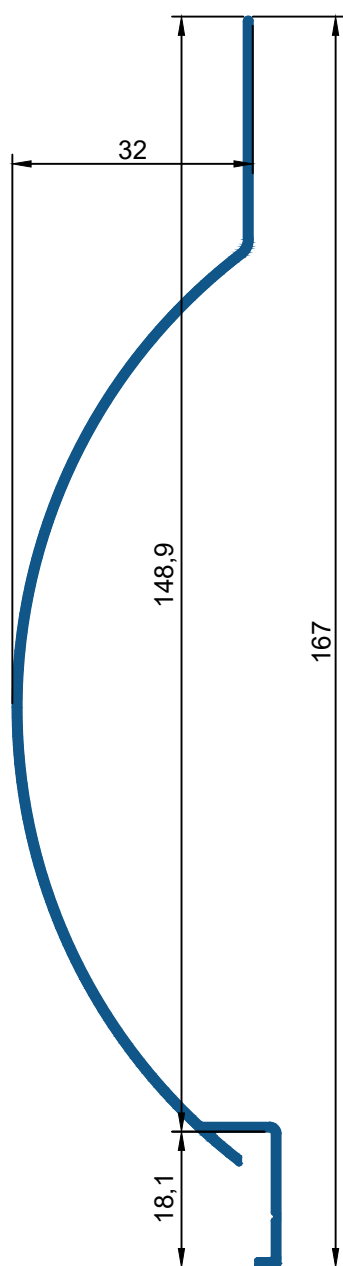


VZ-486
0,277 kg/m

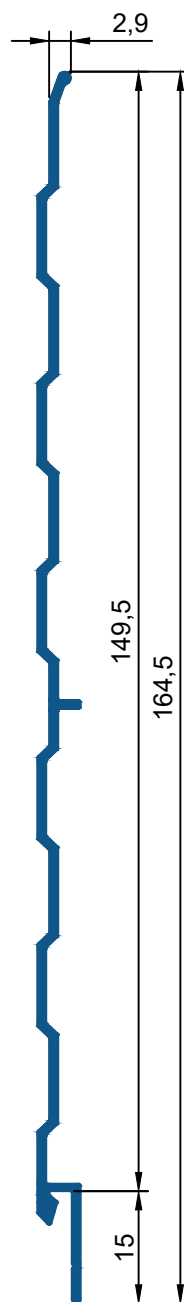


VZ-1082
0,199 kg/m

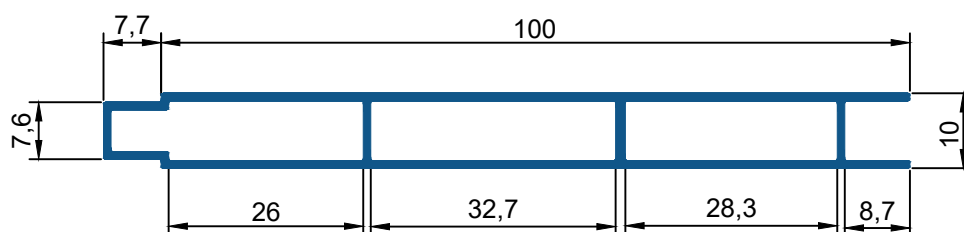
LAMBRIS



WLB-369
0,668 kg/m

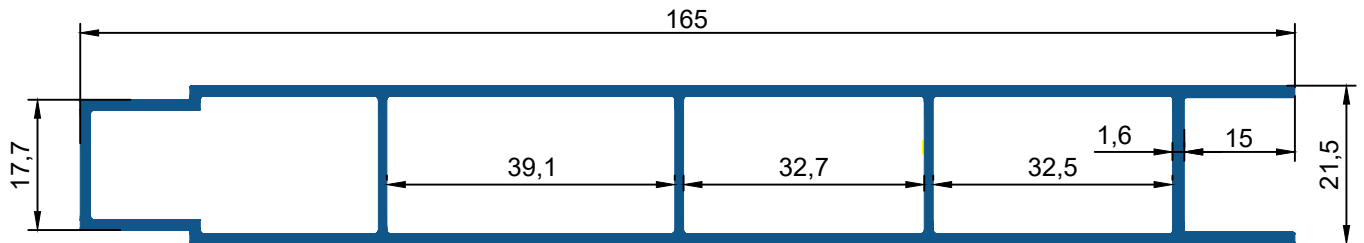


WLB-370
0,624 kg/m

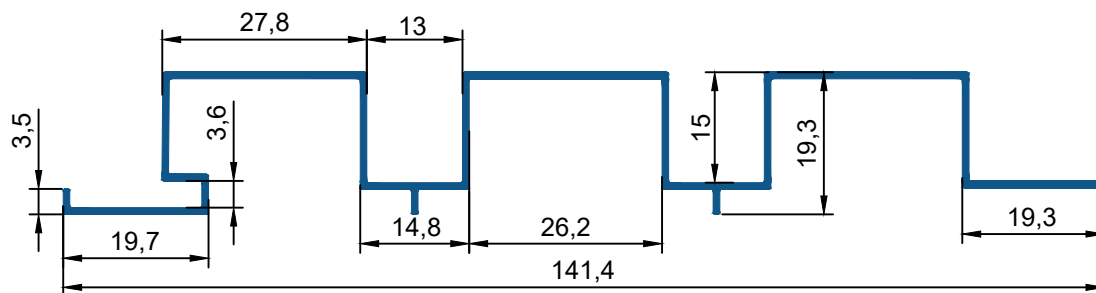


WLB-440
0,711 kg/m

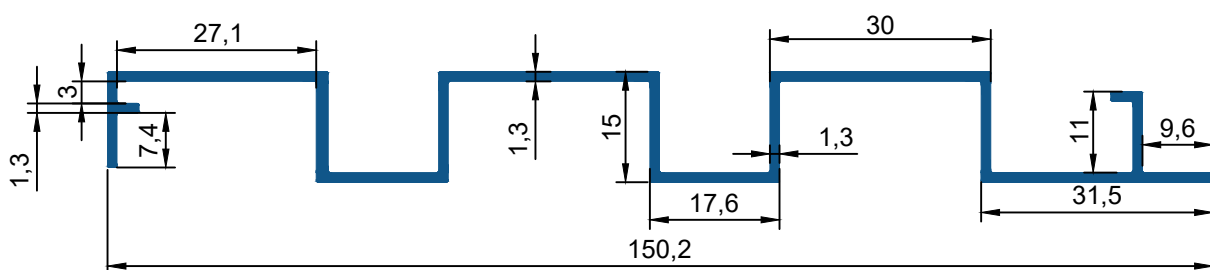
LAMBRIS



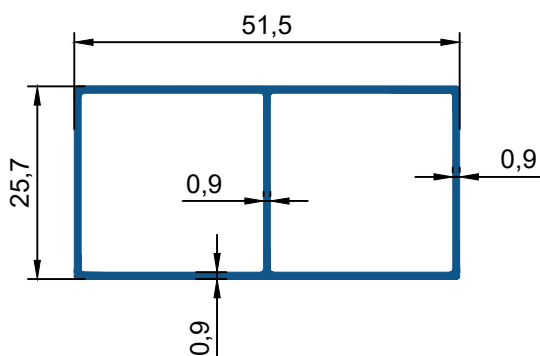
WLB-1183
1,693 kg/m



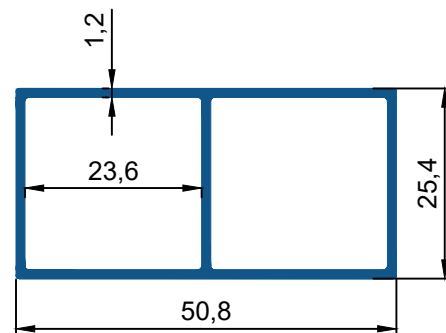
WLB-1092
0,688 kg/m



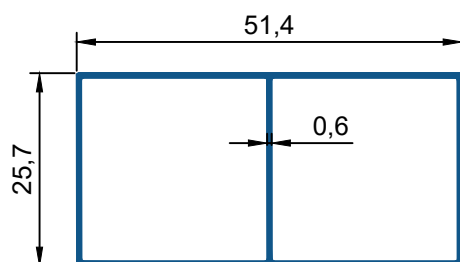
WLB-1317
0,924 kg/m



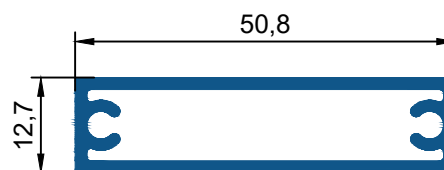
AT-0119
0,453 kg/m



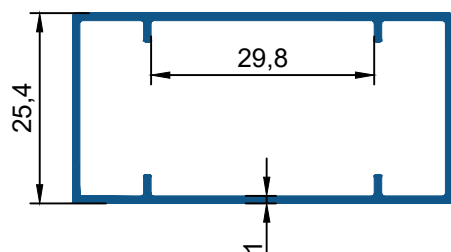
AT-0212
0,583 kg/m



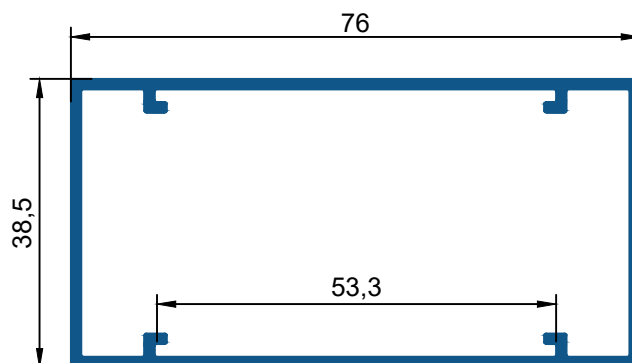
AT-0692
0,306 kg/m



AT-0345
0,631 kg/m

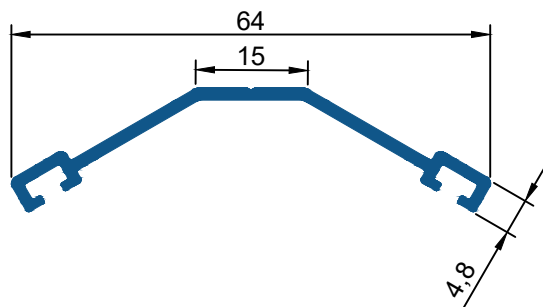


AT-0290
0,454 kg/m

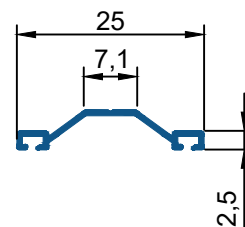


AT-1219
0,965 kg/m

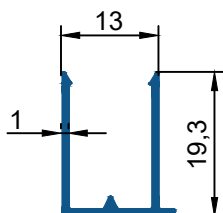
POLICARBONATO



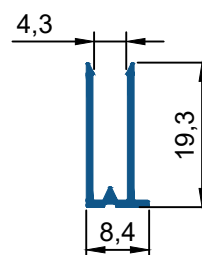
AT-0163
0,385 kg/m



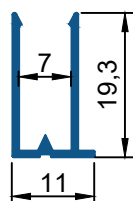
AT-0165
0,306 kg/m



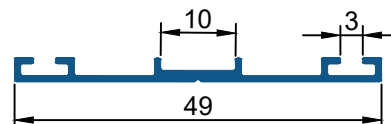
AT-166
0,151 kg/m



AT-0167
0,118 kg/m

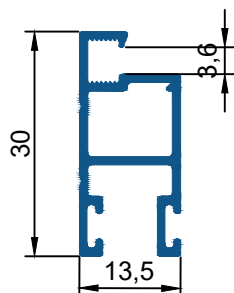


AT-0168
0,126 kg/m

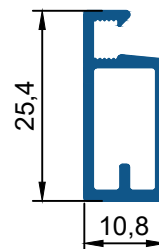


AT-0164
0,179 kg/m

TELA MOSQUITEIRA

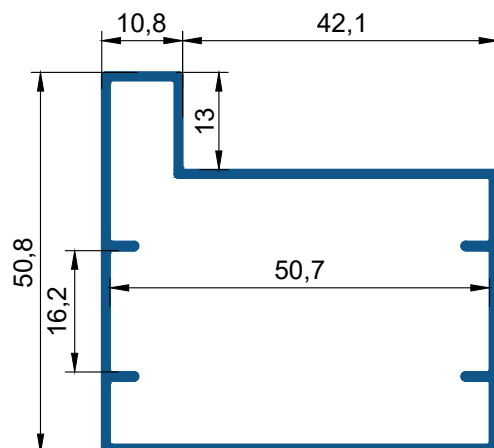


AT-0053
0,296 kg/m

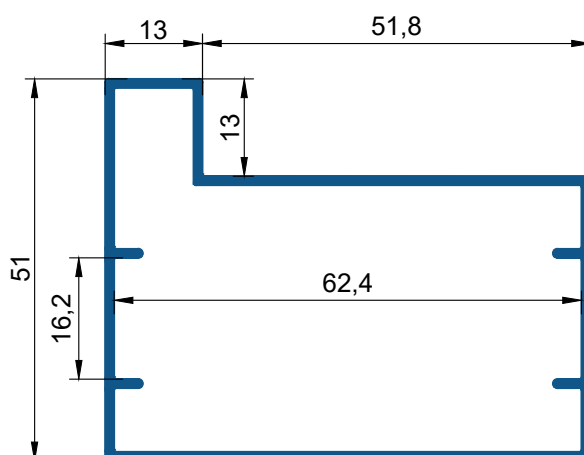


AT-0144
0,248 kg/m

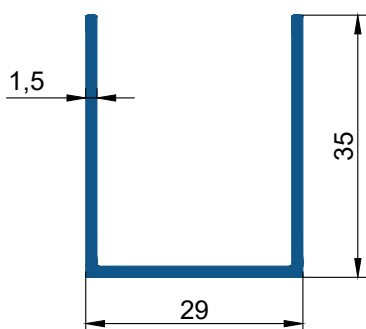
PORTÃO



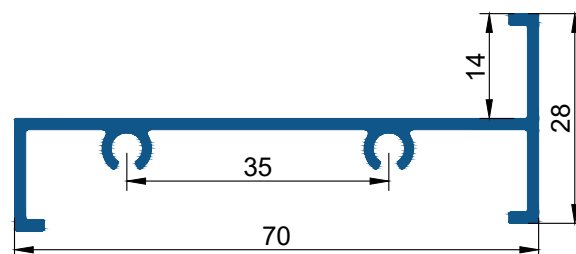
AT-0371
0,685 kg/m



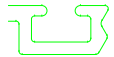
AT-0372
0,824 kg/m



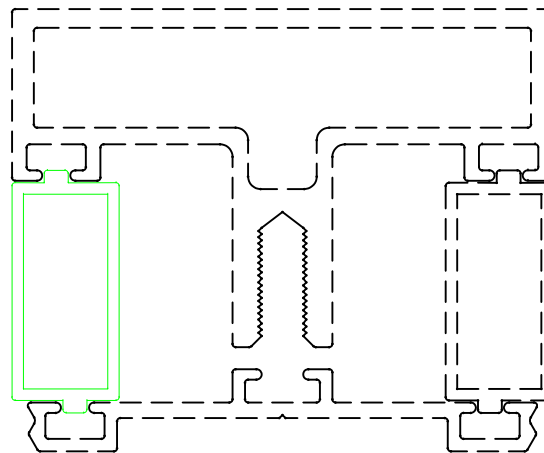
AT-0387
0,390 kg/m



AT-0388
0,577 kg/m



1



WGRI-1000
Peso=0.188 kg/m