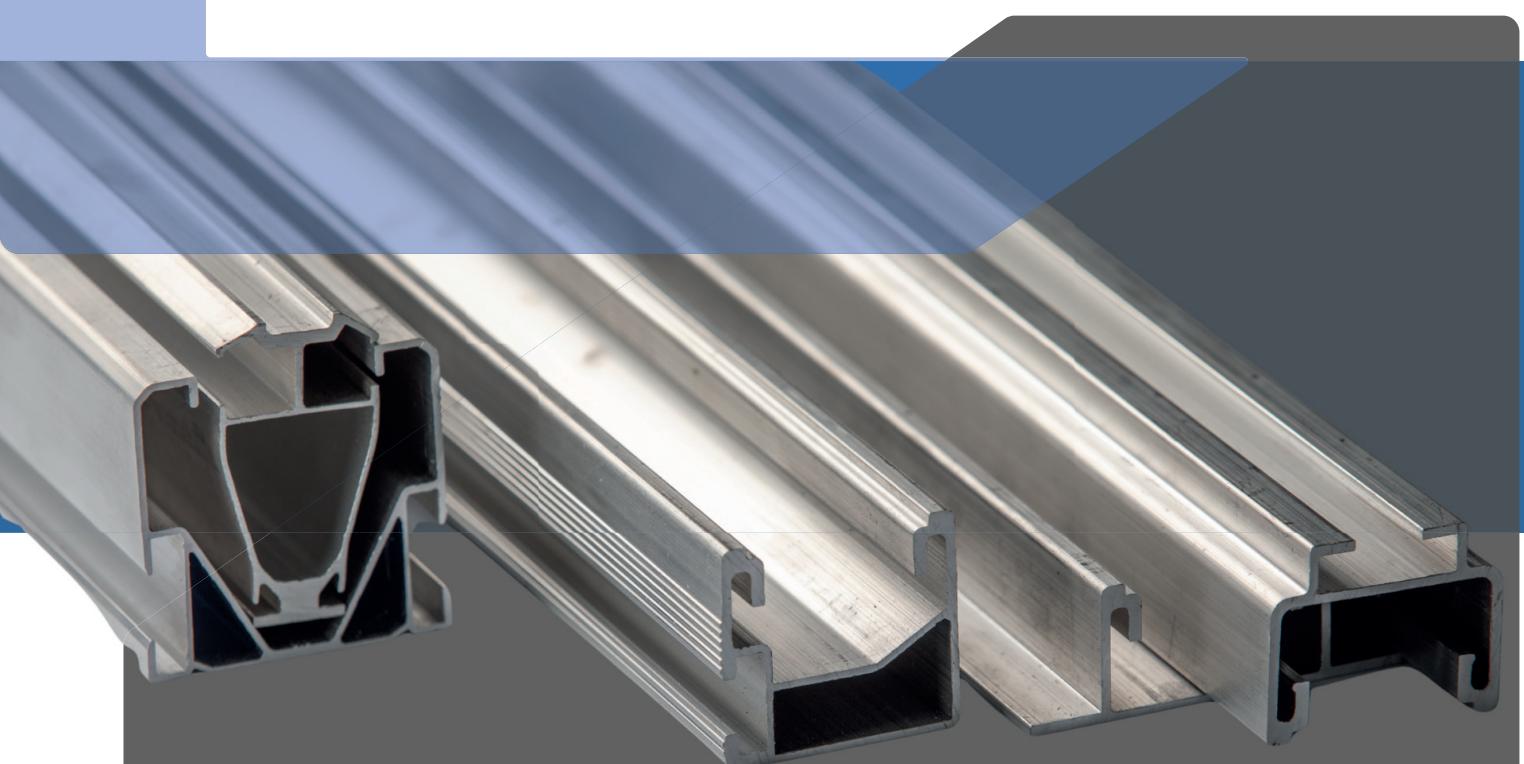




CATÁLOGO DE PRODUTOS
PERFIS DE ALUMÍNIO
DIVERSAS APLICAÇÕES

EDIÇÃO
2025



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**Tecnologia, agilidade e
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Expar Alumínio

A Expar foi fundada em 2012 e está
localizada no município de Cambé,
no norte do Paraná.

Atende na linha da extrusão de perfis de
alumínio a diversos seguimentos como
construção civil, móveis, gradil, decoração,
esquadrias, vidraçaria, entre outros.

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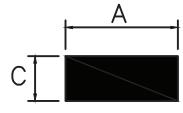
14 - CONTRA MARCO

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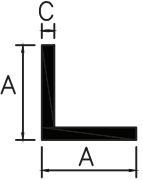
BARRA CHATA

 c	PESO (Kg/m)	POLEGADA		MILIMETRO	
		A	C	A	C
BC-056	0,090	3/8"	1/8"	09,52	3,17
BC-017	0,103	1/2"	—	12,70	3,00
BC-001	0,108	1/2"	1/8"	12,70	3,17
BC-002	0,135	5/8"	1/8"	15,87	3,17
BC-003	0,205	5/8"	3/16"	15,87	4,76
BC-016	0,272	5/8"	1/4"	15,87	6,35
BC-048	0,162	3/4"	1/8"	19,05	3,18
BC-013	0,245	3/4"	3/16"	19,05	4,76
BC-015	0,326	3/4"	1/4"	19,05	6,35
BC-014	0,491	3/4"	3/8"	19,05	9,52
BC-010	0,189	7/8"	1/8"	22,22	3,17
BC-004	0,219	1"	1/8"	25,40	3,17
BC-018	0,324	1"	3/16"	25,40	4,76
BC-045	0,435	1"	1/4"	25,40	6,35
BC-011	0,874	1"	1/2"	25,40	12,70
BC-005	0,273	1.1/4"	1/8"	31,75	3,17
BC-025	0,410	1.1/4"	3/16"	31,75	4,76
BC-052	0,830	1.1/4"	3/8"	31,75	9,52
BC-050	1,092	1.1/4"	1/2"	31,75	12,70
BC-006	0,327	1.1/2"	1/8"	38,10	3,17
BC-009	0,489	1.1/2"	3/16"	38,10	4,76
BC-057	0,660	1.1/2"	1/4"	38,10	6,35
BC-012	0,984	1.1/2"	3/8"	38,10	9,52
BC-049	0,438	2"	1/8"	50,80	3,18
BC-007	0,653	2"	3/16"	50,80	4,76
BC-055	1,312	2"	3/8"	50,80	9,52
BC-051	0,400	—	—	70,00	2,00

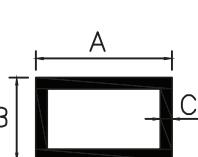
BARRA CHATA

	PESO (Kg/m)	POLEGADA		MILIMETRO	
		A	C	A	C
BCR-001	0,104	1/2"	1/8"	12,70	3,17
BCR-002	0,140	5/8	1/8"	15,87	3,17
BCR-003	0,200	5/8	3/16"	15,87	4,76
BCR-004	0,240	3/4	3/16"	19,05	4,76

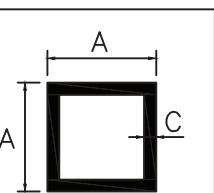
CANTONEIRAS ABAS IGUAIS

	PESO (Kg/m)	POLEGADA		MILIMETRO	
		A	C	A	C
CT-030	0,065	1/2"	—	12,70	0,80
CT-021	0,066	1/2"	—	12,70	1,00
CT-008	0,101	1/2"	1/16"	12,70	1,58
CT-031	0,075	5/8"	—	15,87	0,80
CT-020	0,083	5/8"	—	15,87	1,00
CT-002	0,129	5/8"	1/16"	15,87	1,58
CT-032	0,085	3/4"	—	19,05	0,80
CT-012	0,100	3/4"	—	19,05	1,00
CT-001	0,156	3/4"	1/16"	19,05	1,58
CT-029	0,184	7/8"	1/16"	22,22	1,58
CT-033	0,110	1"	—	25,40	0,80
CT-003	0,210	1"	1/16"	25,40	1,58
CT-005	0,312	1"	3/32"	25,40	2,38
CT-004	0,409	1"	1/8"	25,40	3,17
CT-011	0,140	1"	—	25,40	1,20
CT-023	0,265	1.1/4"	1/16"	31,75	1,58
CT-007	0,518	1.1/4"	1/8"	31,75	3,17
CT-024	0,319	1.1/2"	1/16"	38,10	1,58
CT-006	0,627	1.1/2"	1/8"	38,10	3,17
CT-025	0,537	2"	—	50,80	2,00
CT-010	0,845	2"	1/8"	50,80	3,17
CT-009	1.249	2"	3/16"	50,80	4,76
CT-026	1.064	2.1/2"	1/8"	63,50	3,17
CT-027	1.571	2.1/2"	3/16"	63,50	4,76

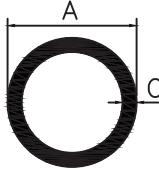
TUBO RETANGULAR

	PESO (Kg/m)	POLEGADA			MILIMETRO		
		A	B	C	A	B	C
TG-003	0,160	1"	1/2"		25,40	12,70	0,80
TG-011	0,300	1"	1/2"	1/16"	25,40	12,70	1,58
TG-008	0,440	1.1/2"	1/2"	1/16"	38,10	12,70	1,58
TG-012	0,643	1.1/2"	1"	—	38,10	25,40	2,00
TG-002	0,323	2"	1"	—	50,80	25,40	0,80
TG-006	0,402	2"	1"	—	50,80	25,40	1,00
TG-005	0,625	2"	1"	1/16"	50,80	25,40	1,58
TG-007	0,920	2"	1.1/2"	—	50,80	38,10	2,00
TG-001	0,780	2"	1"	—	50,80	25,40	2,00
TG-004	0,904	3"	1.1/2"	—	76,20	38,10	1,50
TG-009	1.236	—	—	—	95,00	50,80	1,60
TG-022	0,820	3"	1"	—	76,20	25,40	1,58
TG-021	1.260	4"	2"	—	101,60	50,80	1,48
TG-013	0,272	1.1/2"	1/2"	1/16"	38,10	12,70	1,00

TUBO QUADRADO

	PESO (Kg/m)	POLEGADA		MILIMETRO	
		A	C	A	C
TQ-019	0,100	3/8"	—	9,52	1,00
TQ-010	0,113	1/2"	—	12,70	0,90
TQ-018	0,236	5/8"	—	15,87	1,50
TQ-009	0,298	3/4"	—	19,05	1,50
TQ-007	0,264	1"	—	25,40	1,00
TQ-006	0,407	1"	1/16"	25,40	1,58
TQ-012	0,300	1.1/4"	—	31,75	0,90
TQ-008	0,516	1.1/4"	1/16"	31,75	1,58
TQ-003	0,323	1.1/2"	—	38,10	0,80
TQ-004	0,479	1.1/2"	—	38,10	1,20
TQ-001	0,625	1.1/2"	1/16"	38,10	1,58
TQ-020	0,650	—	—	40,00	1,50
TQ-011	0,550	2"	—	50,80	1,10
TQ-005	0,801	2"	—	50,80	1,50
TQ-002	1.057	2"	—	50,80	2,00
TQ-014	1.523	3"	—	76,20	1,80

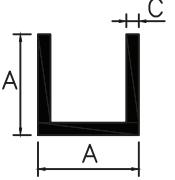
TUBO REDONDO

	PESO (Kg/m)	POLEGADA		MILIMETRO	
		A	C	A	C
TR-044	0,080	5/16	—	7,93	1,25
TR-024	0,106	3/8"	1/16"	9,52	1,58
TR-043	0,106	1/2"	—	12,70	1,00
TR-022	0,149	1/2"	1/16"	12,70	1,58
TR-005	0,126	5/8"	—	15,87	1,00
TR-006	0,191	5/8"	1/16"	15,87	1,58
TR-015	0,120	3/4"	—	19,05	0,80
TR-036	0,154	3/4"	—	19,05	1,00
TR-004	0,234	3/4"	1/16"	19,05	1,58
TR-032	0,682	3/4"	—	19,05	6,27
TR-026	0,180	7/8"	—	22,22	1,00
TR-021	0,277	7/8"	1/16"	22,22	1,58
TR-027	0,207	1"	—	25,40	1,00
TR-030	0,246	1"	—	25,40	1,20
TR-008	0,319	1"	1/16"	25,40	1,58
TR-017	0,343	1"	—	25,40	1,70
TR-007	0,397	1"	—	25,40	2,00
TR-009	0,598	1"	1/8"	25,40	3,17
TR-048	0,175	1"	—	25,40	0,80
TR-018	0,180	1.1/8"	1/32"	28,58	0,80
TR-039	0,220	1.1/8"	—	28,58	1,00
TR-040	0,245	1.1/4"	—	31,75	1,00
TR-020	0,405	1.1/4"	1/16"	31,75	1,58
TR-045	0,520	1.1/4"	—	31,75	2,00
TR-025	0,780	1.1/4"	1/8"	31,75	3,18
TR-010	0,489	1.1/2"	1/16"	38,10	1,58
TR-034	0,721	1.1/2"	—	38,10	2,38
TR-003	0,650	2"	—	50,80	1,50
TR-023	0,670	2"	1/16"	50,80	1,58

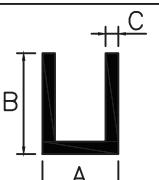
TUBO REDONDO

	PESO (Kg/m)	POLEGADA		MILIMETRO	
		A	C	A	C
TR-012	1.281	2"	1/8"	50,80	3,17
TR-013	0,830	2.1/2"	1/16"	63,50	1,58
TR-014	1.623	2.1/2"	1/8"	63,50	3,17
TR-035	1.258	3"	—	76,20	2,00
TR-028	1.279	—	—	32,00	5,75
TR-029	1.652	—	—	38,50	6,00
TR-041	0,330	—	—	14,00	3,75
TR-042	0,550	—	—	50,20	1,30
TR-046	0,980	—	—	44,45	2,70
TR-047	0,225	—	—	29,20	1,00

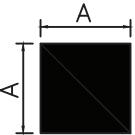
PERFIL "U" ABAS IGUAIS

	PESO (Kg/m)	POLEGADA		MILIMETRO	
		A	C	A	C
PU-007	0,072	3/8"	—	9,52	1,00
PU-009	0,100	1/2"	—	12,70	1,00
PU-001	0,150	1/2"	—	12,70	1,58
PU-002	0,190	5/8"	—	15,88	1,58
PU-008	0,292	3/4"	—	19,05	2,00

PERFIL "U" ABAS DESIGUAIS

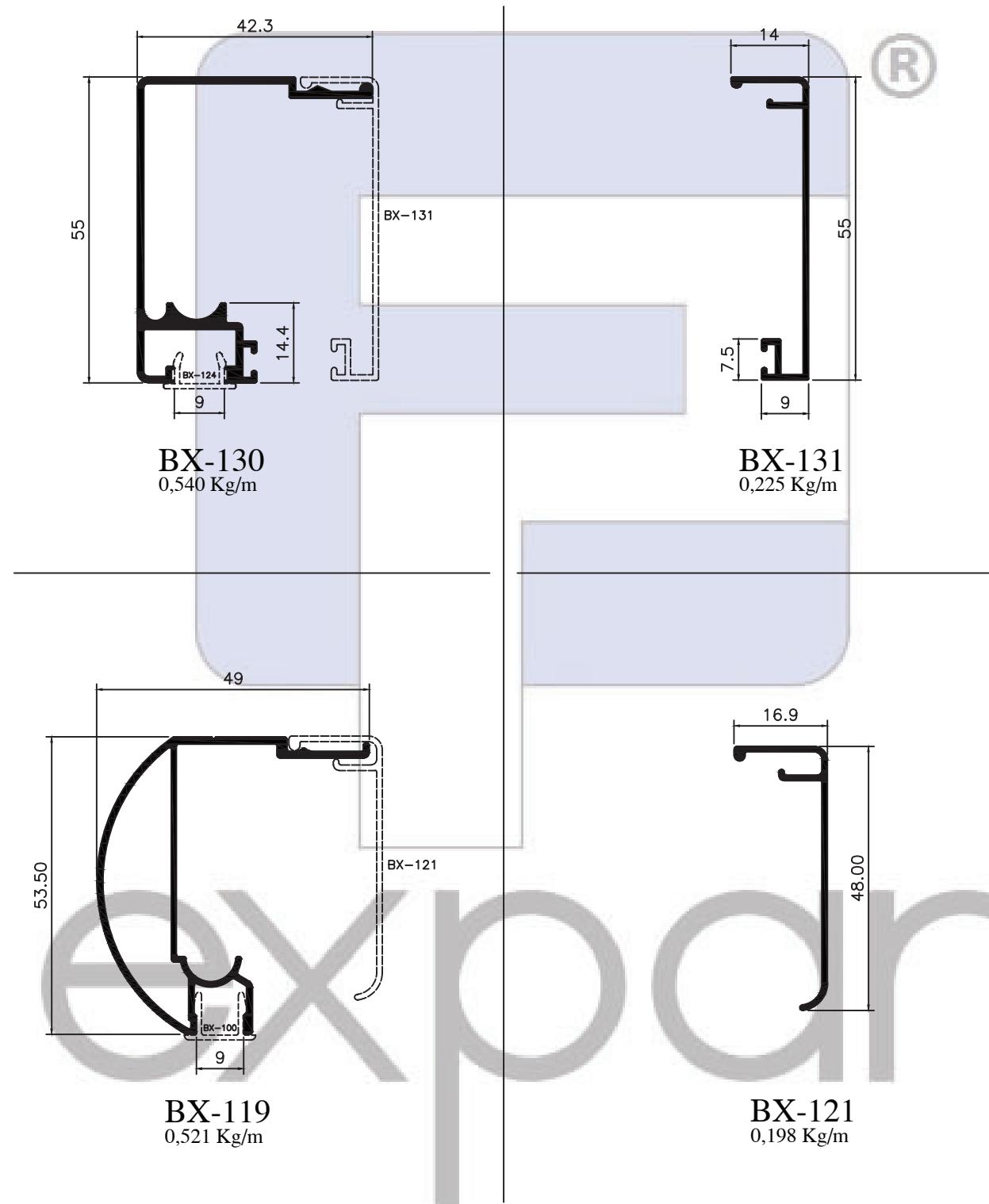
	PESO (Kg/m)	MILIMETRO		
		A	B	C
PU-303	0,130	9,52	12,70	1,50
PU-005	0,177	12,70	22,00	1,20
PU-006	0,124	14,00	15,00	1,10
PU-003	0,252	15,00	25,00	1,50
PU-004	0,195	15,00	25,00	1,15
PU-047	0,365	29,00	35,00	1,50
PU-048	0,365	14,00	48,00	1,20
PU-010	0,125	17,00	14,50	0,90

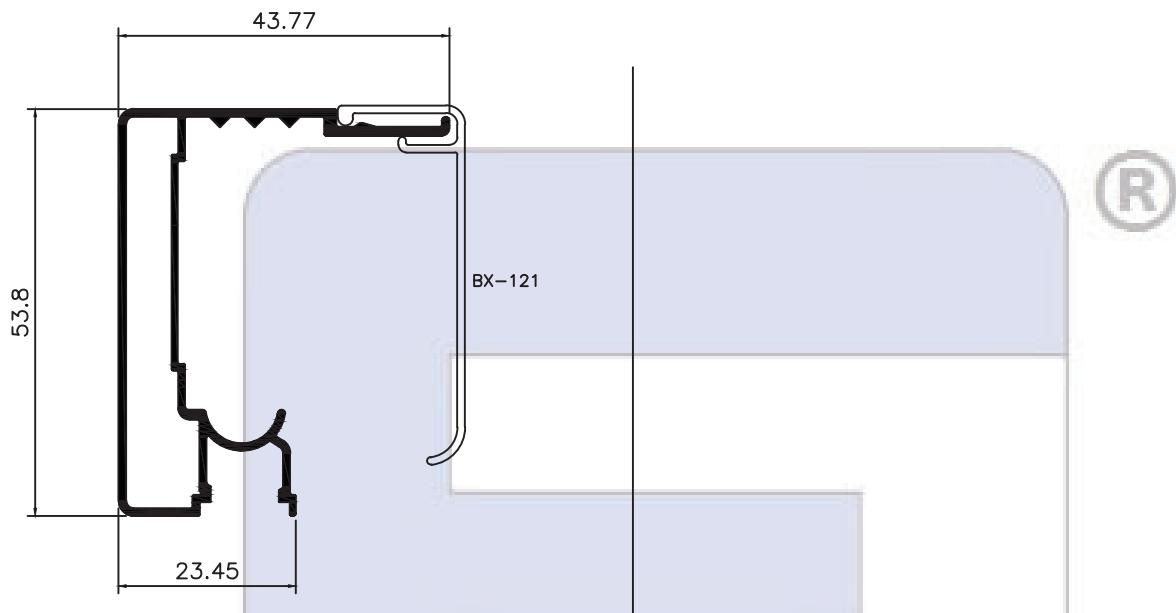
VERGALHAO QUADRADO

	PESO (Kg/m)	POLEGADA	MILIMETRO
		A	A
VQ-004	0,100	—	6,00
VQ-003	0,115	1/4"	6,35
VQ-001	0,246	3/8"	9,52
VQ-002	0,440	1/2"	12,70

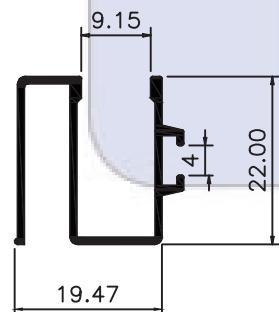
VERGALHAO REDONDO

	PESO (Kg/m)	POLEGADA	MILIMETRO
		A	A
VR-004	0,085	1/4"	6,35
VR-003	0,108	—	7,14
VR-002	0,140	—	8,00
VR-005	0,192	3/8"	9,52
VR-006	0,341	1/2"	12,70
VR-010	0,550	5/8"	15,88
VR-009	0,770	3/4"	19,05
VR-007	1.180	—	23,70
VR-008	3.078	1.1/2"	38,10



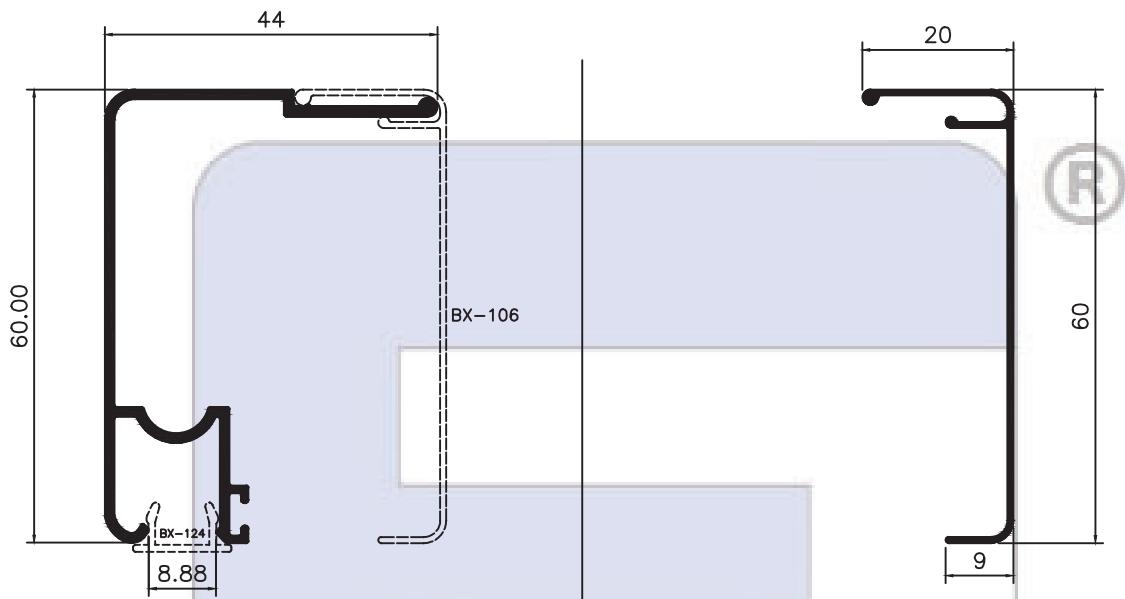


BX-118
0,535 Kg/m



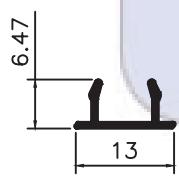
BX-117
0,232 Kg/m

expar

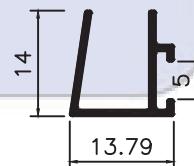


BX-105
0,535 Kg/m

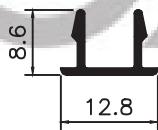
BX-106
0,240 Kg/m



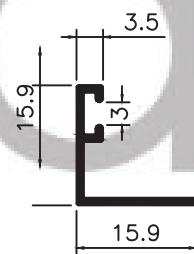
BX-124
0,060 Kg/m



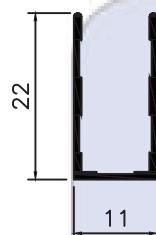
BX-143
0,115 Kg/m



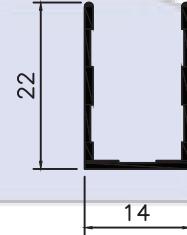
BX-100
0,078 Kg/m



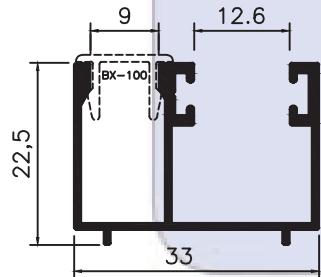
BX-184
0,102 Kg/m



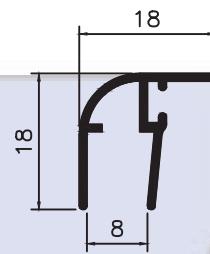
BX-102
0,122 Kg/m



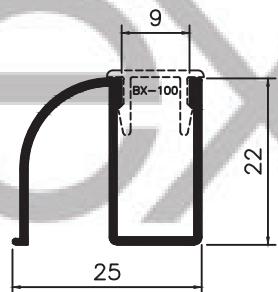
BX-103
0,140 Kg/m



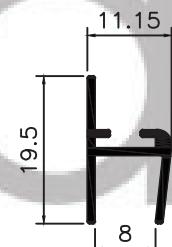
BX-104
0,335 Kg/m



BX-138
0,150 Kg/m

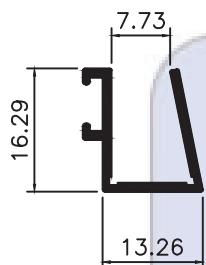


BX-110
0,230 Kg/m

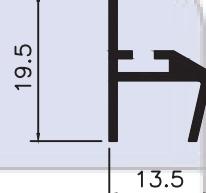


BX-122
0,130 Kg/m

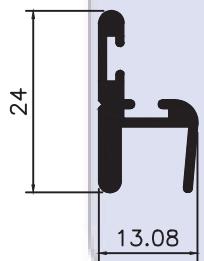
BOX VIDRO TEMPERADO



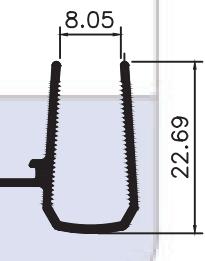
BX-111
0,165 Kg/m



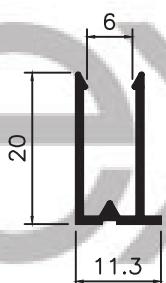
BX-123
0,145 Kg/m



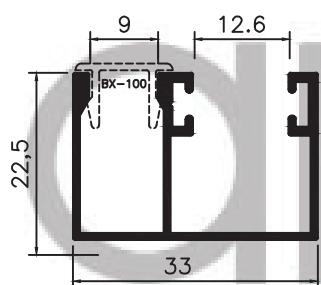
BX-099
0,275 Kg/m



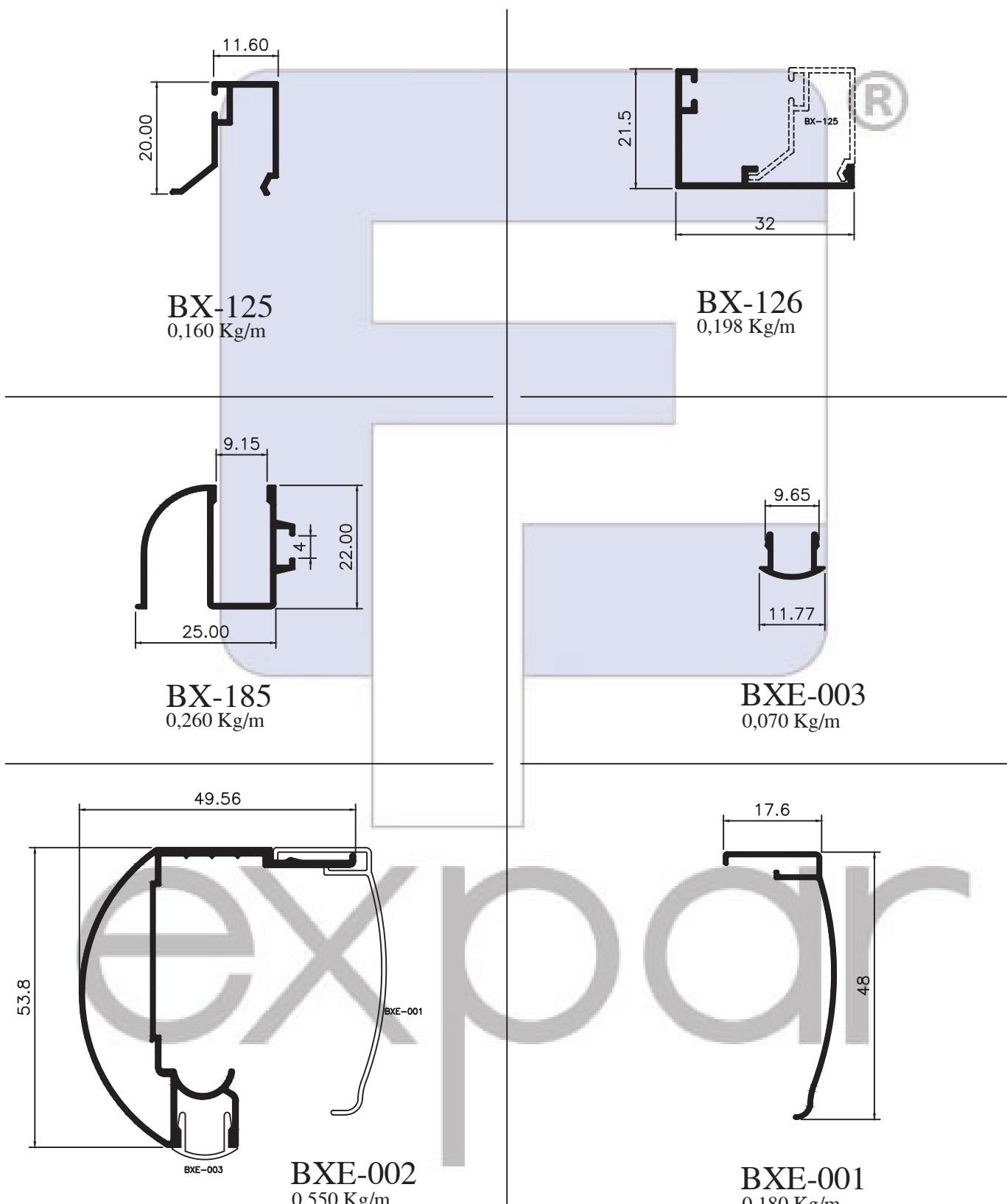
BX-197
0,208 Kg/m



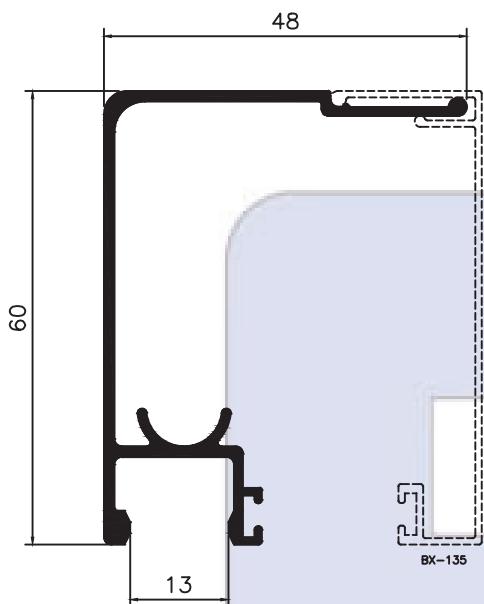
DS-474
0,150 Kg/m



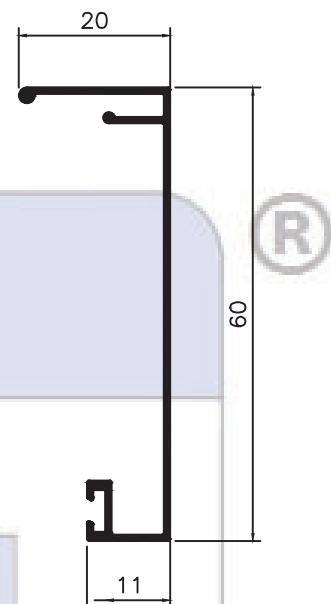
BX-107
0,330 Kg/m



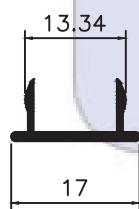
BOX VIDRO TEMPERADO 10MM



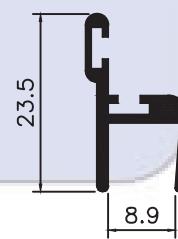
BX-134
0,630 Kg/m



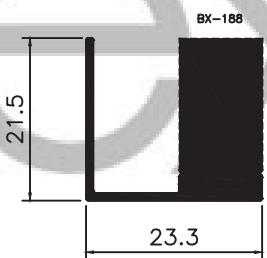
BX-135
0,275 Kg/m



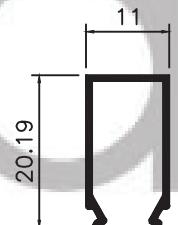
BX-190
0,100 Kg/m



BX-186
0,200 Kg/m

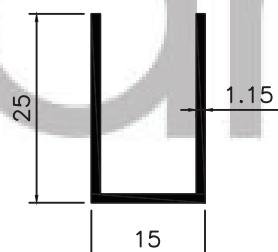
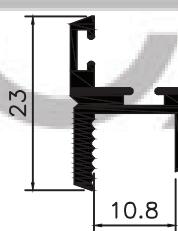
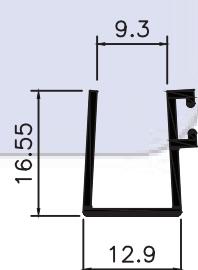
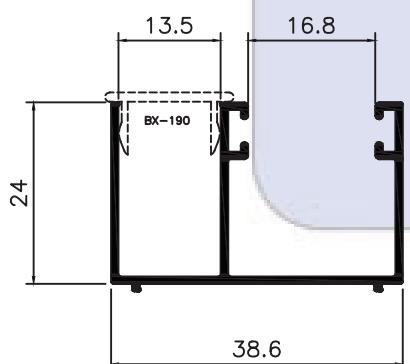
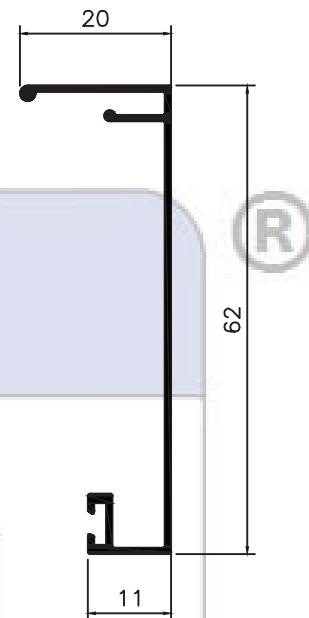
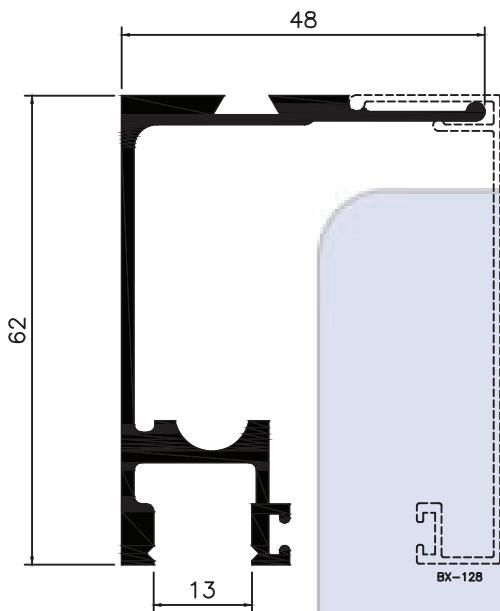


BX-187
0,145 Kg/m

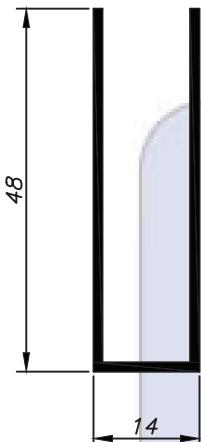


BX-188
0,130 Kg/m

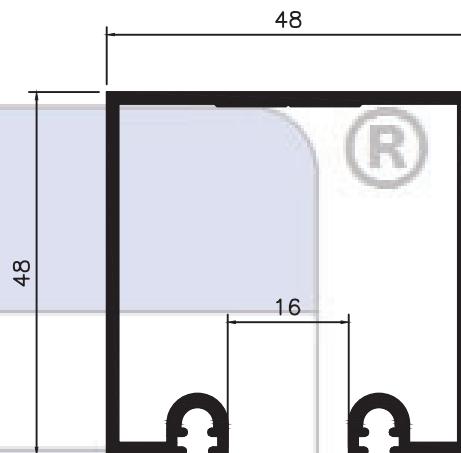
BOX VIDRO TEMPERADO 10MM



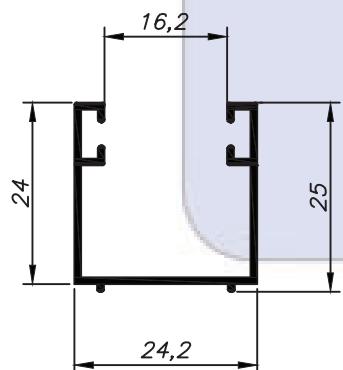
BOX VIDRO TEMPERADO 10MM



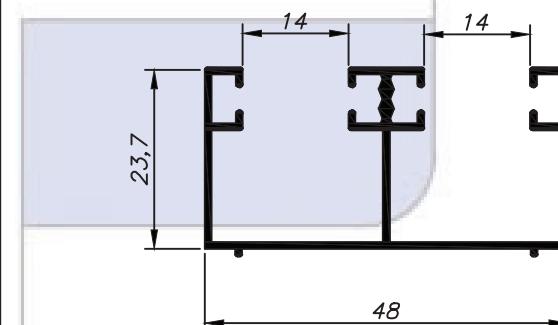
PU-048
0,365 Kg/m



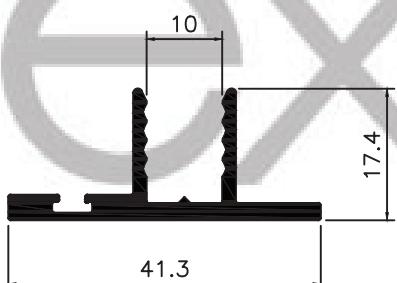
DS-086
0,850 Kg/m



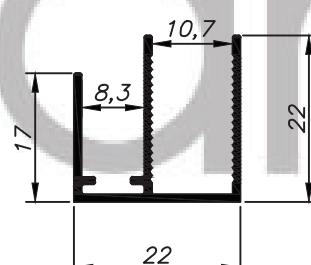
BX-139
0,238 Kg/m



BX-140
0,430 Kg/m

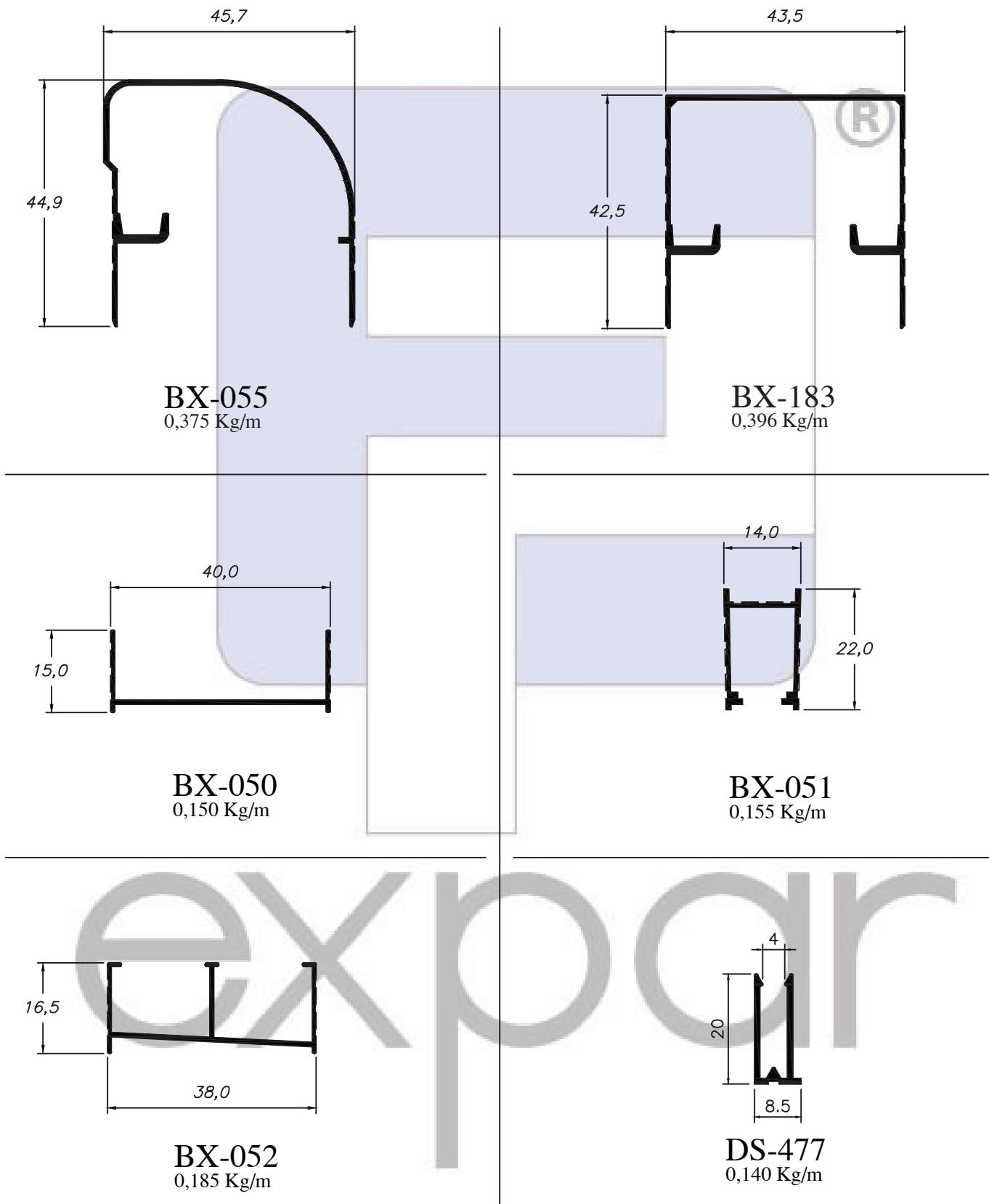


VT-001
0,420 Kg/m

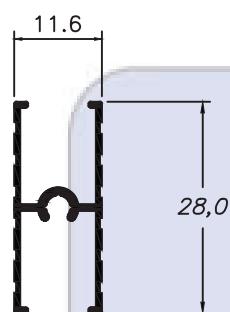


BX-141
0,220 Kg/m

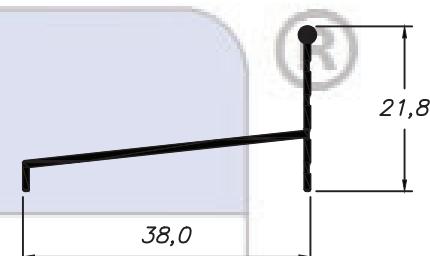
BOX ACRÍLICO



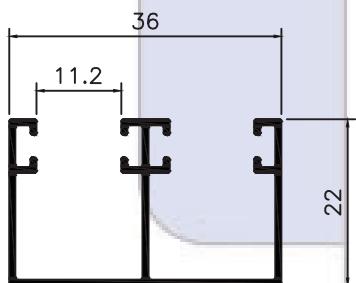
BOX ACRÍLICO



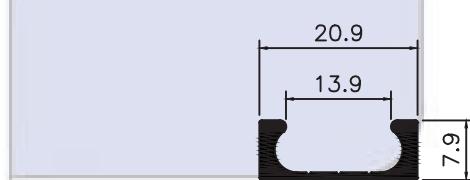
BX-053
0,172 Kg/m



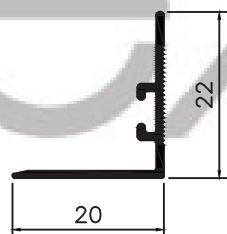
BX-054
0,160 Kg/m



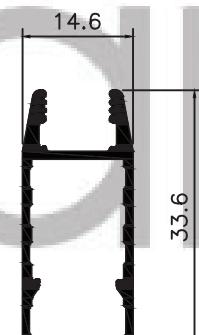
BX-193
0,300 Kg/m



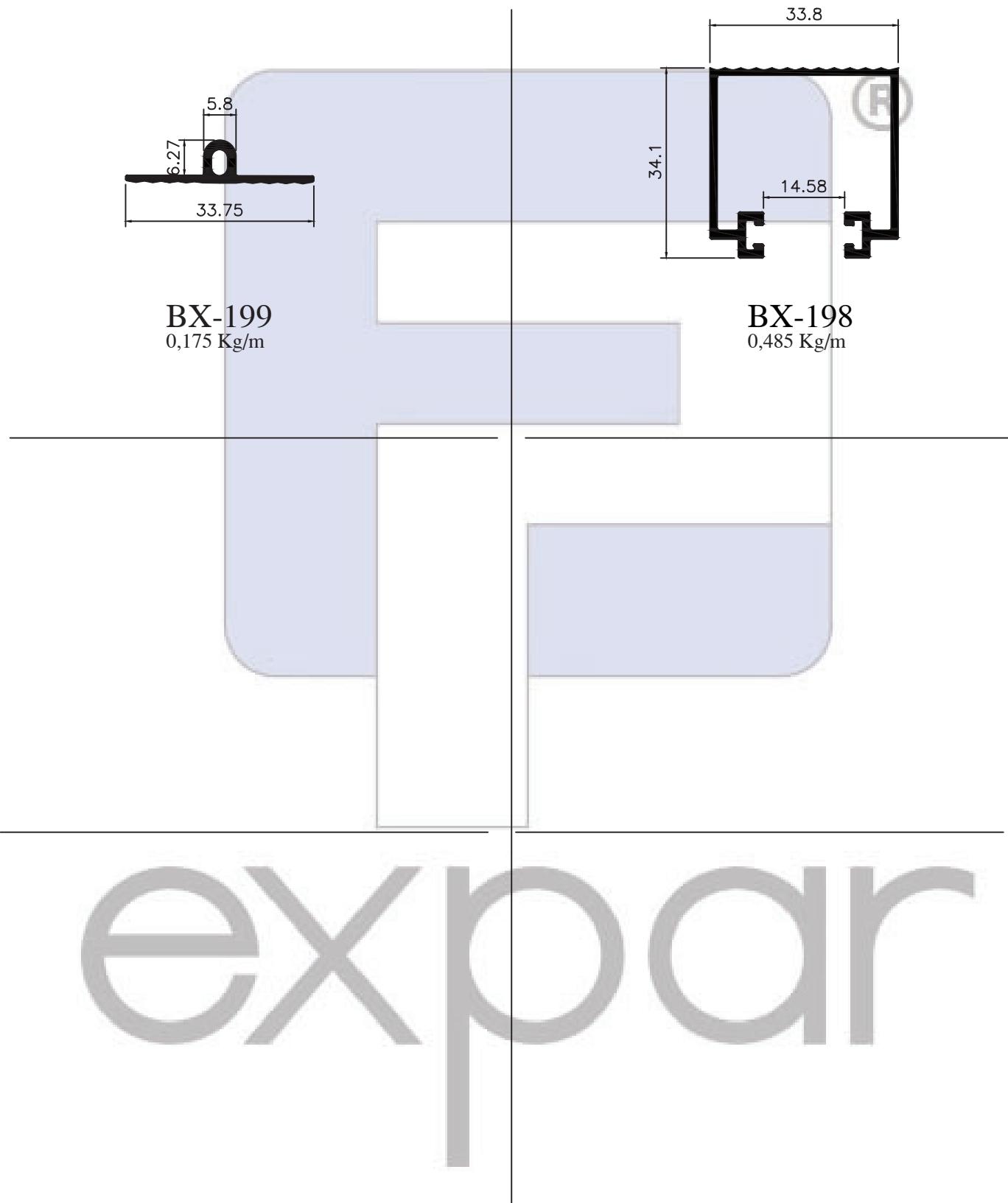
BX-194
0,165 Kg/m

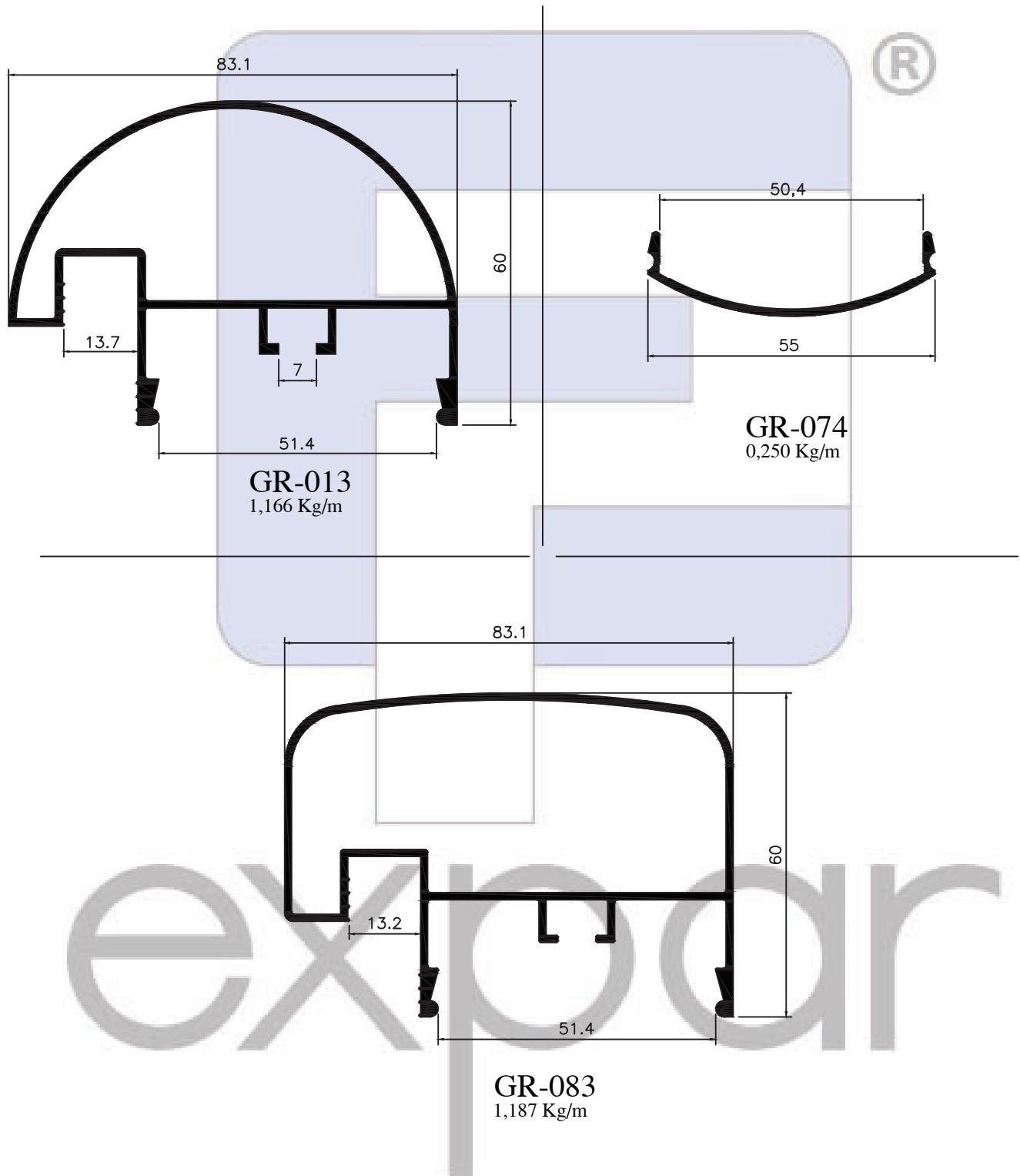


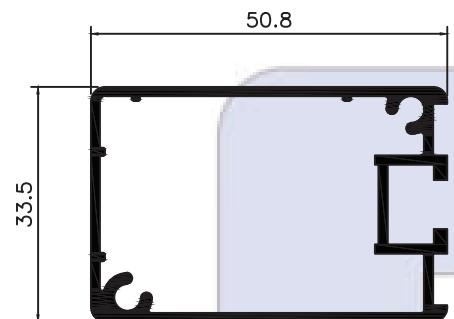
BX-195
0,135 Kg/m



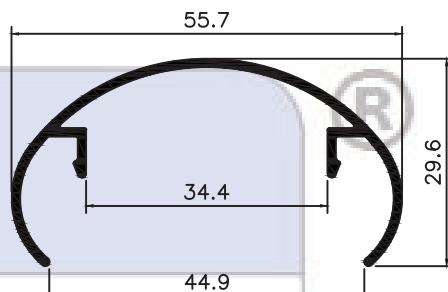
BX-196
0,295 Kg/m



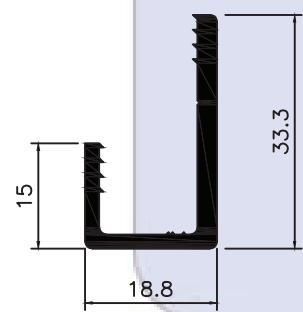




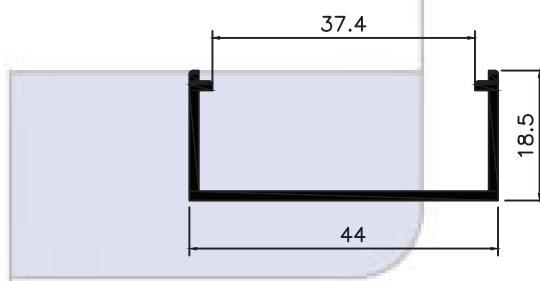
GR-077
0,745 Kg/m



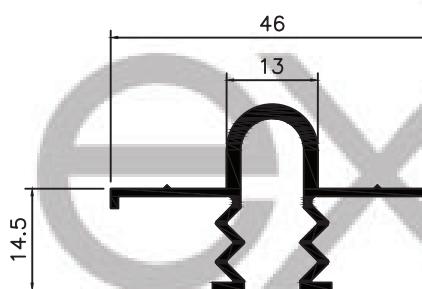
GR-078
0,385 Kg/m



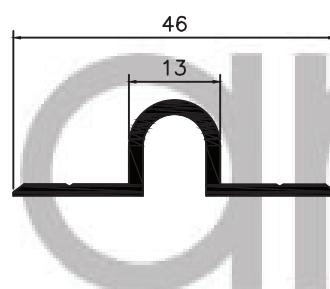
GR-075
0,420 Kg/m



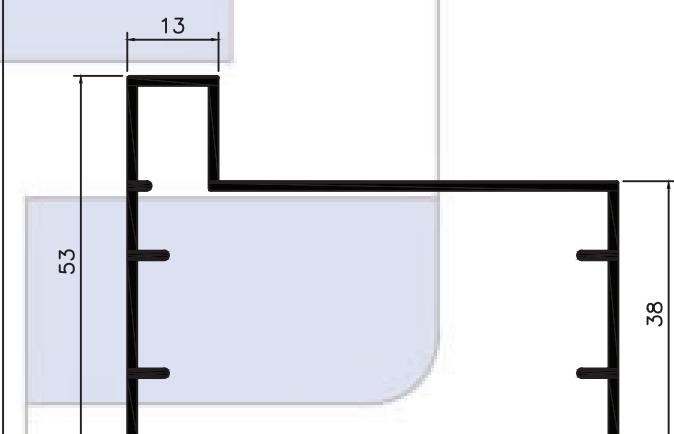
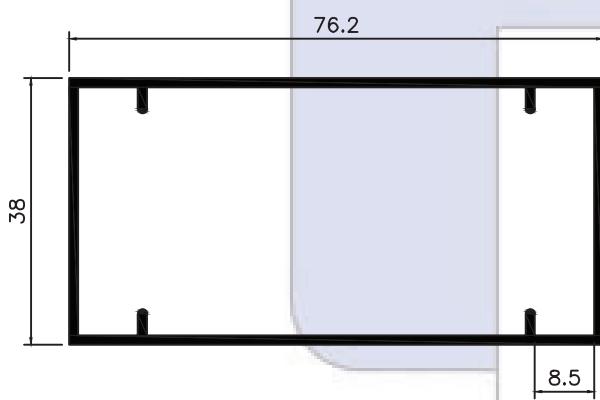
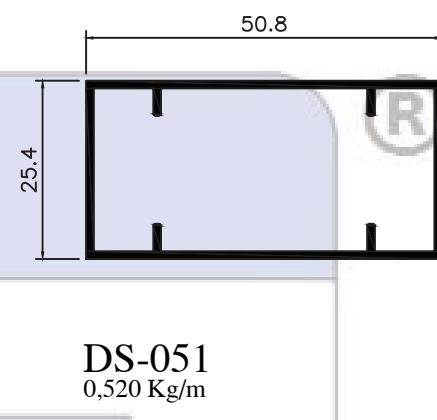
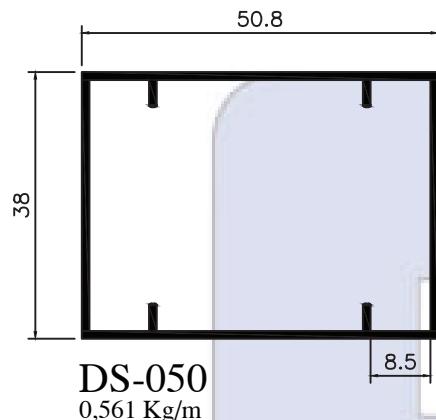
GR-079
0,280 Kg/m



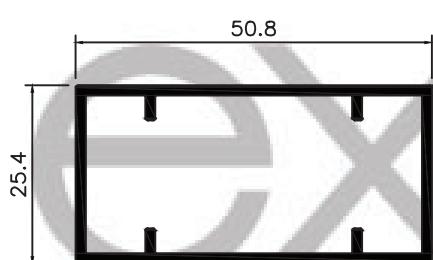
DS-060
0,396 Kg/m

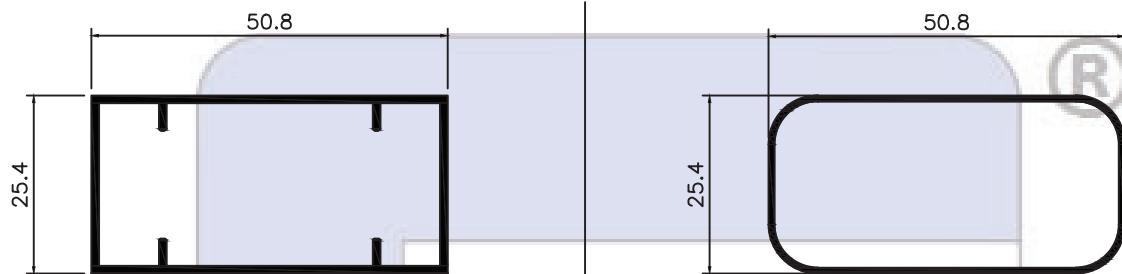


DS-058
0,310 Kg/m



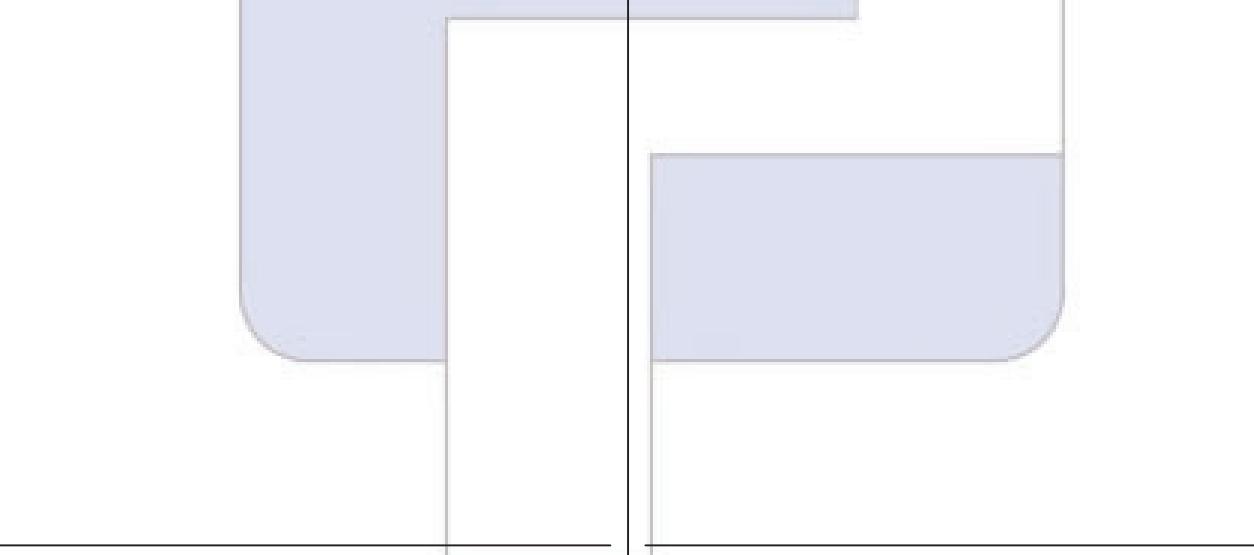
DS-062
0,990 Kg/m

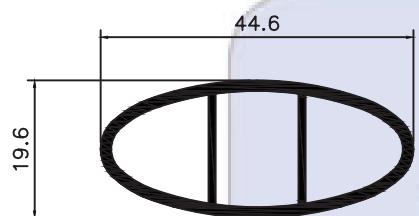




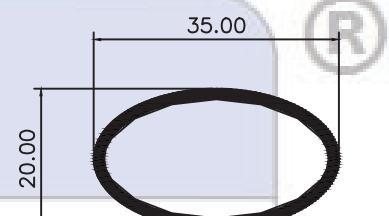
RF-043
0,450 Kg/m

TGR-001
0,320 Kg/m

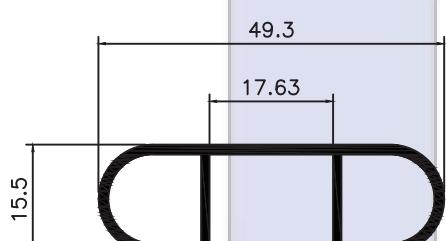




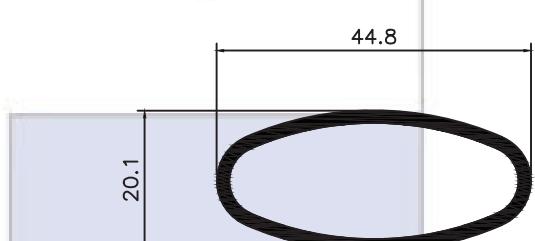
MV-025
0,495 Kg/m



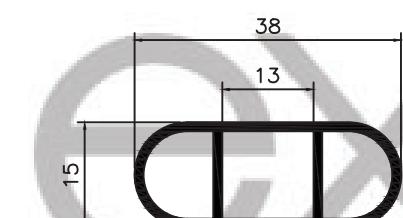
MV-006
0,340 Kg/m



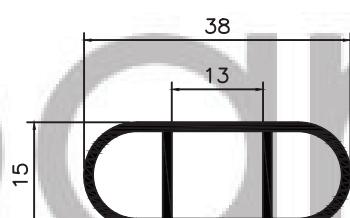
MV-003
0,550 Kg/m



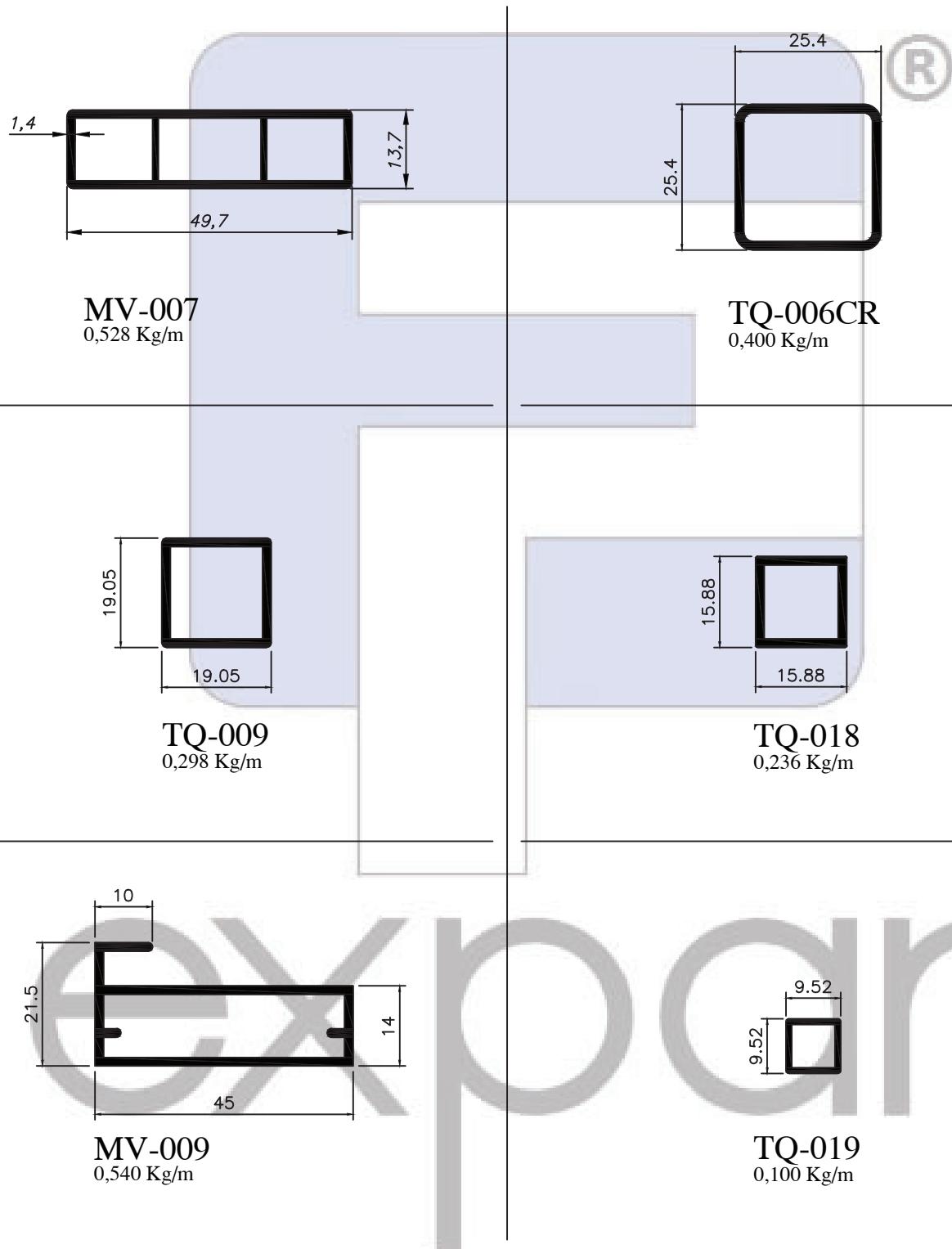
MV-004
0,491 Kg/m

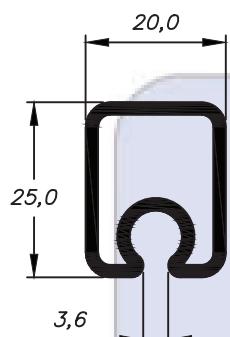


MV-005
0,365 Kg/m

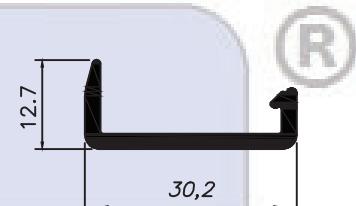


MV-008
0,386 Kg/m

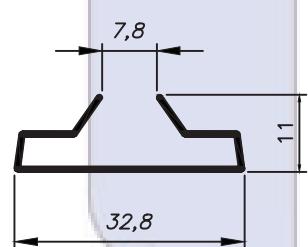




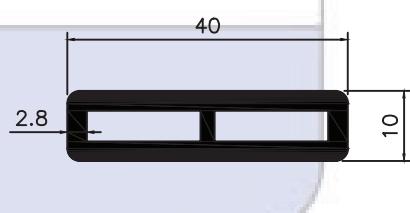
MV-072
0,490 Kg/m



MV-073
0,290 Kg/m

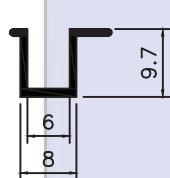


MV-070
0,160 Kg/m

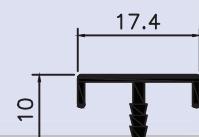


DS-479
0,690 Kg/m

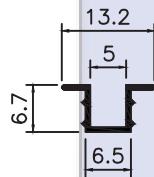
expar



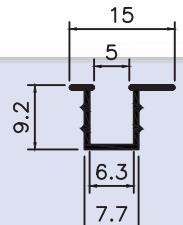
MV-015
0,090 Kg/m



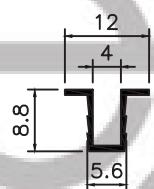
MV-019
0,108 Kg/m



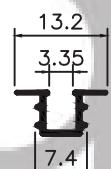
MV-020
0,060 Kg/m



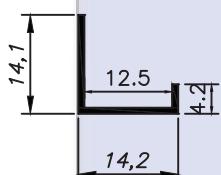
MV-021
0,065 Kg/m



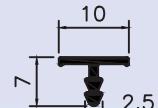
MV-042
0,060 Kg/m



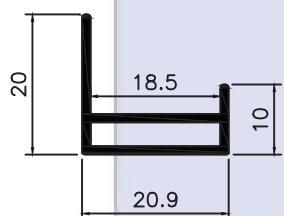
MV-044
0,060 Kg/m



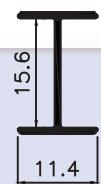
MV-046
0,080 Kg/m



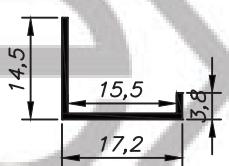
MV-039
0,070 Kg/m



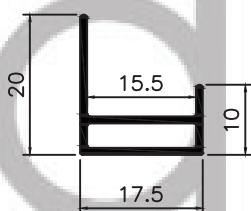
MV-053
0,230 Kg/m



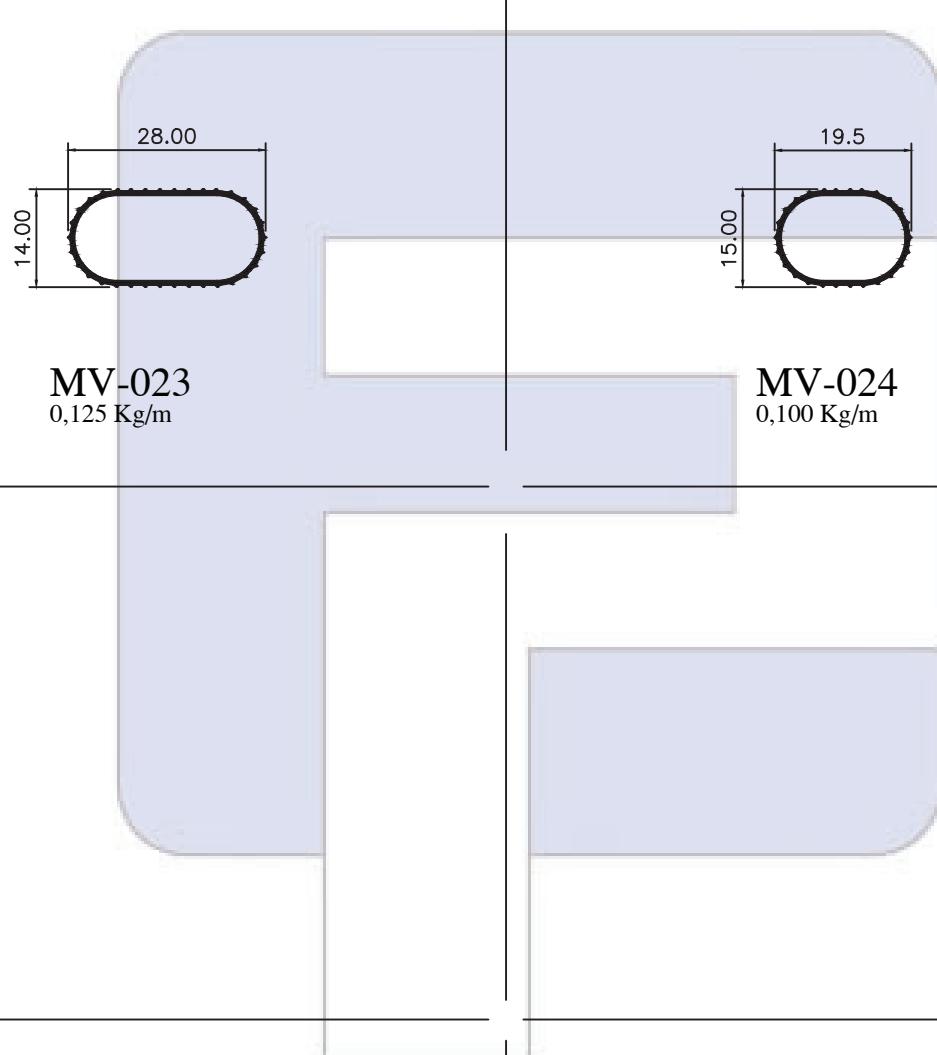
MV-054
0,100 Kg/m



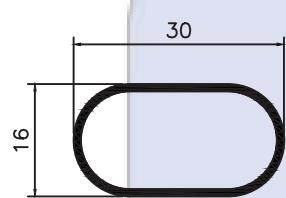
MV-067
0,080 Kg/m



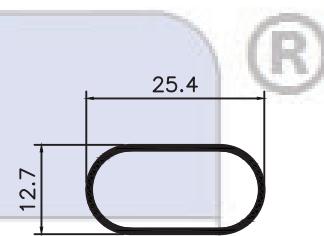
MV-068
0,175 Kg/m



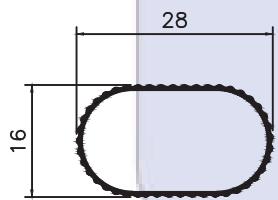
expar



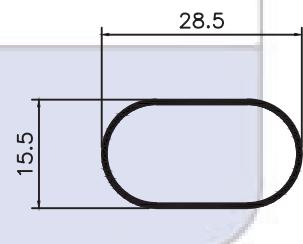
DS-054
0,213 Kg/m



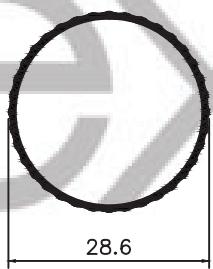
DS-056
0,136 Kg/m



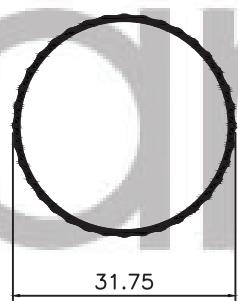
MV-055
0,120 Kg/m



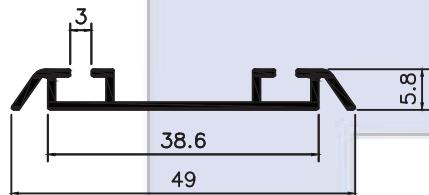
MV-059
0,145 Kg/m



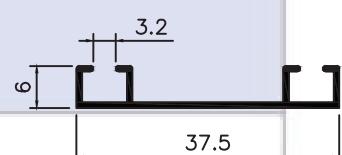
TR-200
0,207 Kg/m



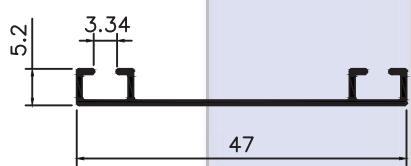
TR-201
0,231 Kg/m



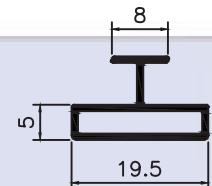
MV-012
0,238 Kg/m



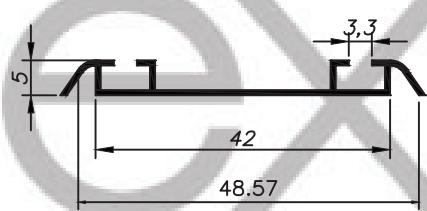
MV-017
0,138 Kg/m



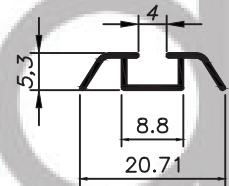
MV-029
0,160 Kg/m



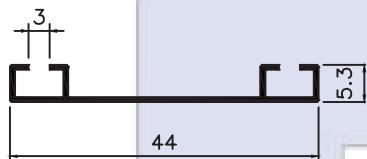
MV-030
0,160 Kg/m



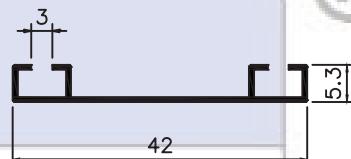
MV-035
0,175 Kg/m



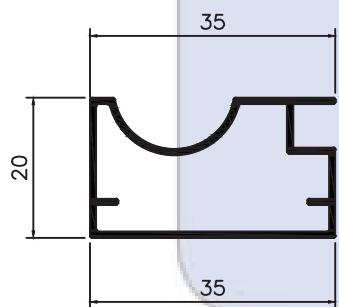
MV-051
0,085 Kg/m



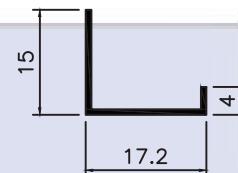
MV-052
0,145 Kg/m



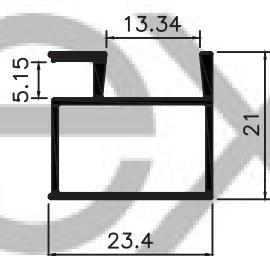
MV-061
0,140 Kg/m



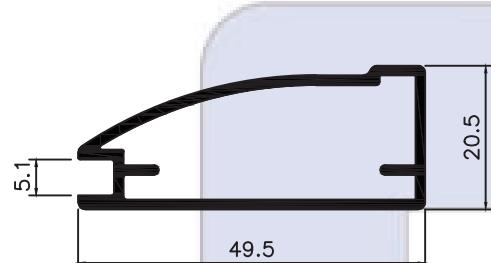
MV-074
0,320 Kg/m



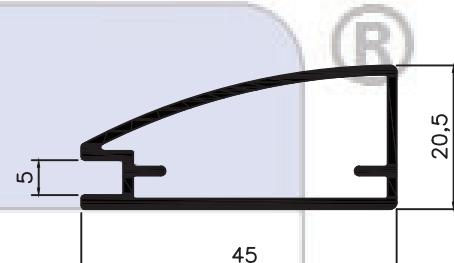
MV-075
0,080 Kg/m



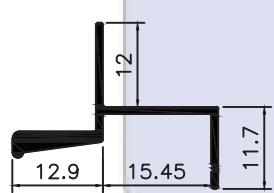
MV-076
0,260 Kg/m



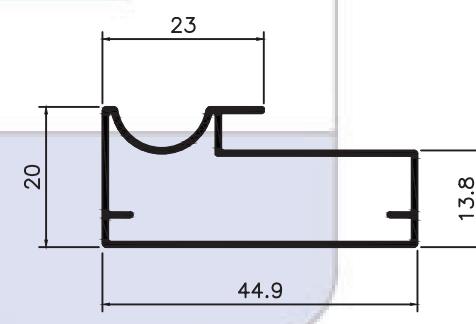
MV-014
0,540 Kg/m



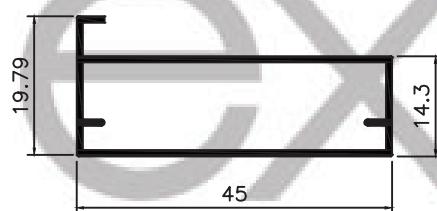
MV-026
0,500 Kg/m



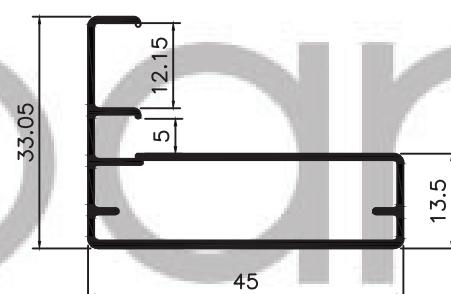
MV-027
0,210 Kg/m



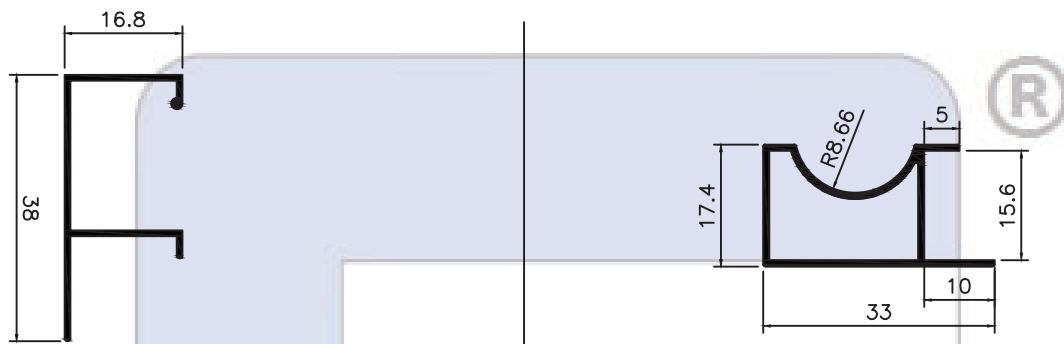
MV-028
0,330 Kg/m



MV-031
0,330 Kg/m

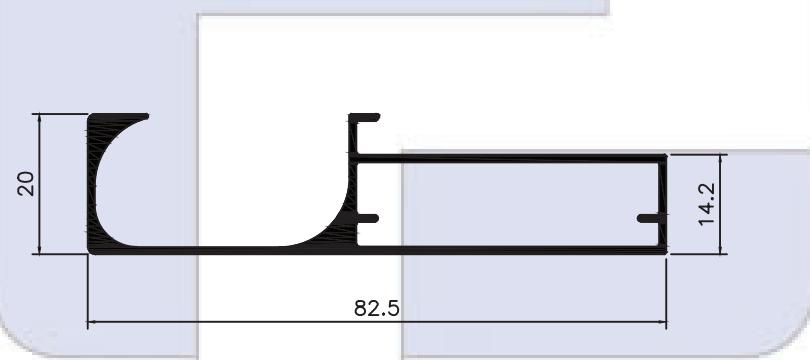


MV-037
0,420 Kg/m

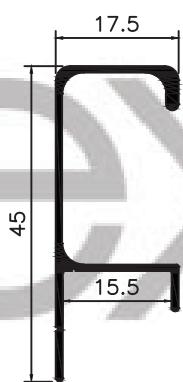


DS-106
0,170 Kg/m

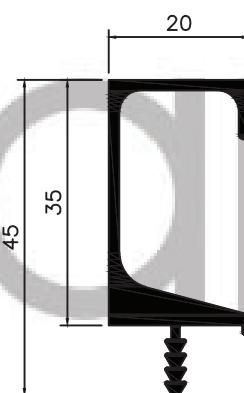
MV-041
0,260 Kg/m



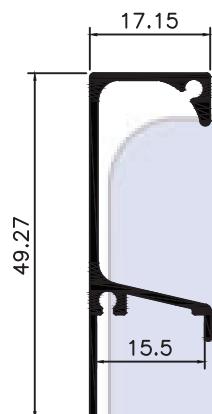
MV-043
0,690 Kg/m



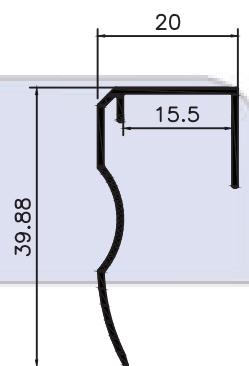
MV-022
0,260 Kg/m



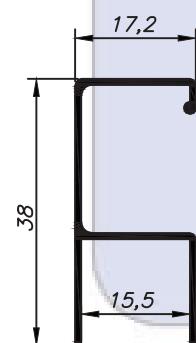
MV-010
0,518 Kg/m



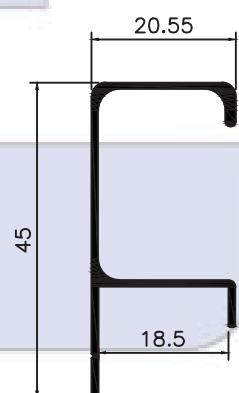
MV-045
0,320 Kg/m



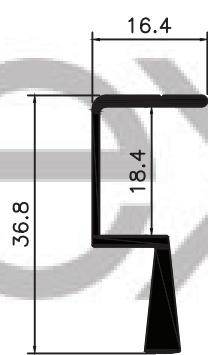
MV-049
0,190 Kg/m



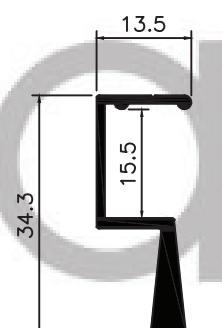
MV-047
0,220 Kg/m



MV-048
0,270 Kg/m

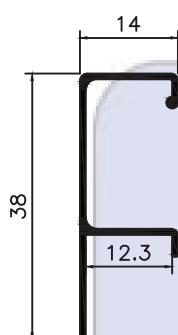


MV-038
0,320 Kg/m

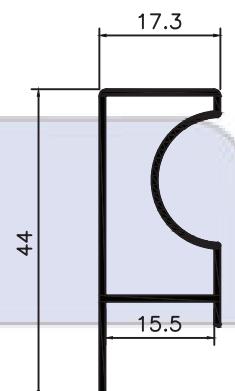


MV-060
0,305 Kg/m

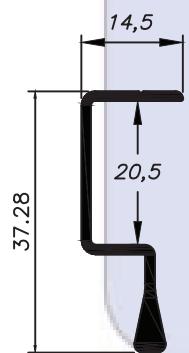
MOVEIS



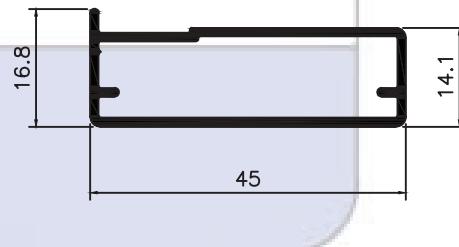
MV-050
0,180 Kg/m



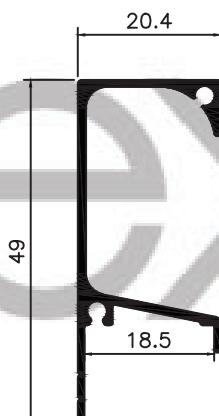
MV-063
0,300 Kg/m



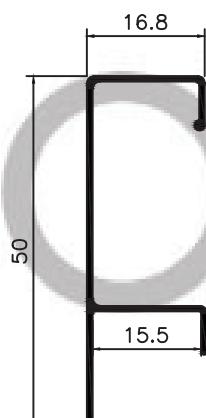
MV-064
0,270 Kg/m



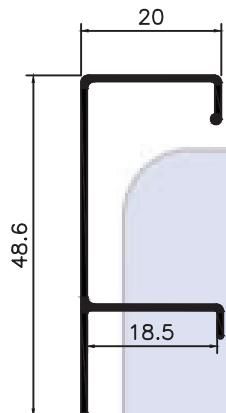
MV-065
0,420 Kg/m



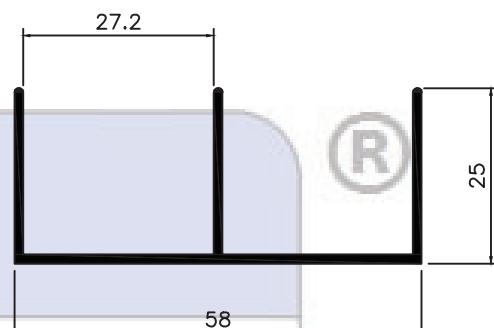
MV-066
0,340 Kg/m



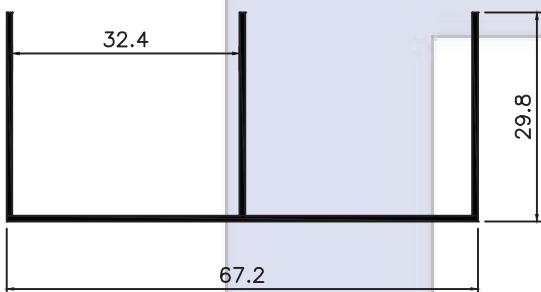
MV-069
0,220 Kg/m



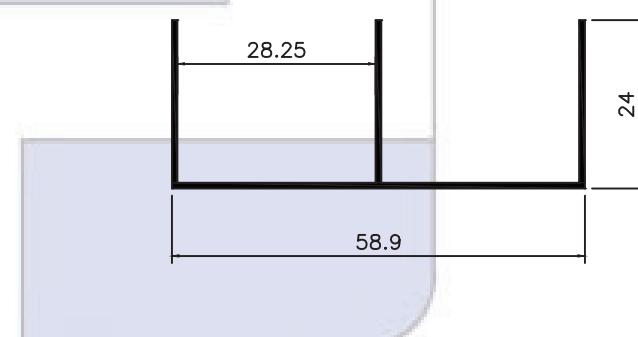
MV-080
0,240 Kg/m



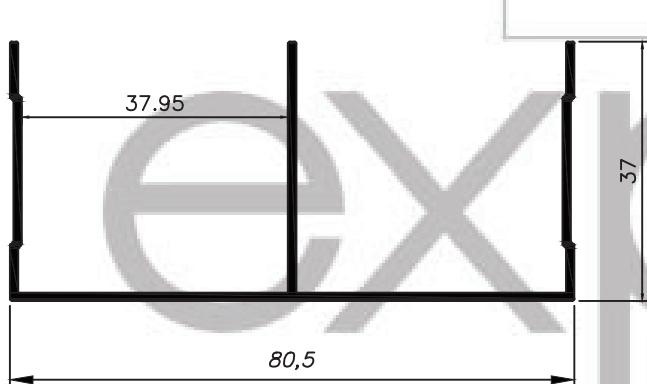
MV-011
0,432 Kg/m



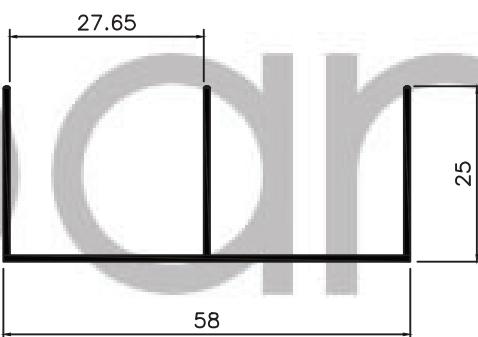
MV-033
0,345 Kg/m



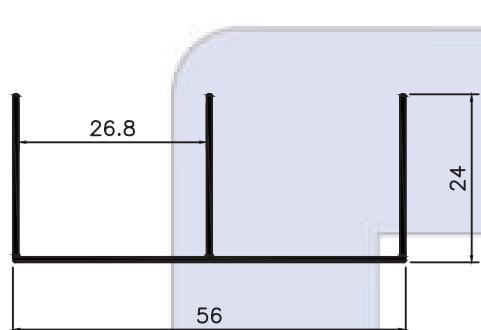
MV-034
0,290 Kg/m



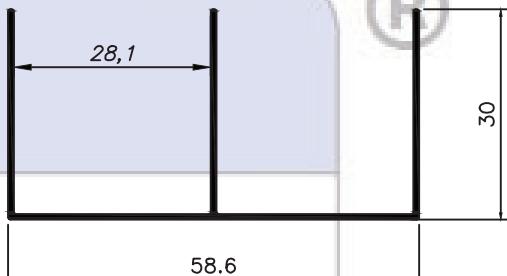
MV-071
0,630 Kg/m



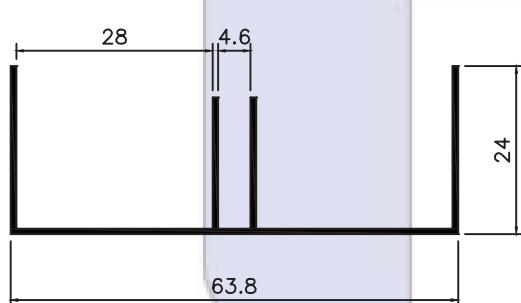
MV-018
0,316 Kg/m



MV-056
0,285 Kg/m

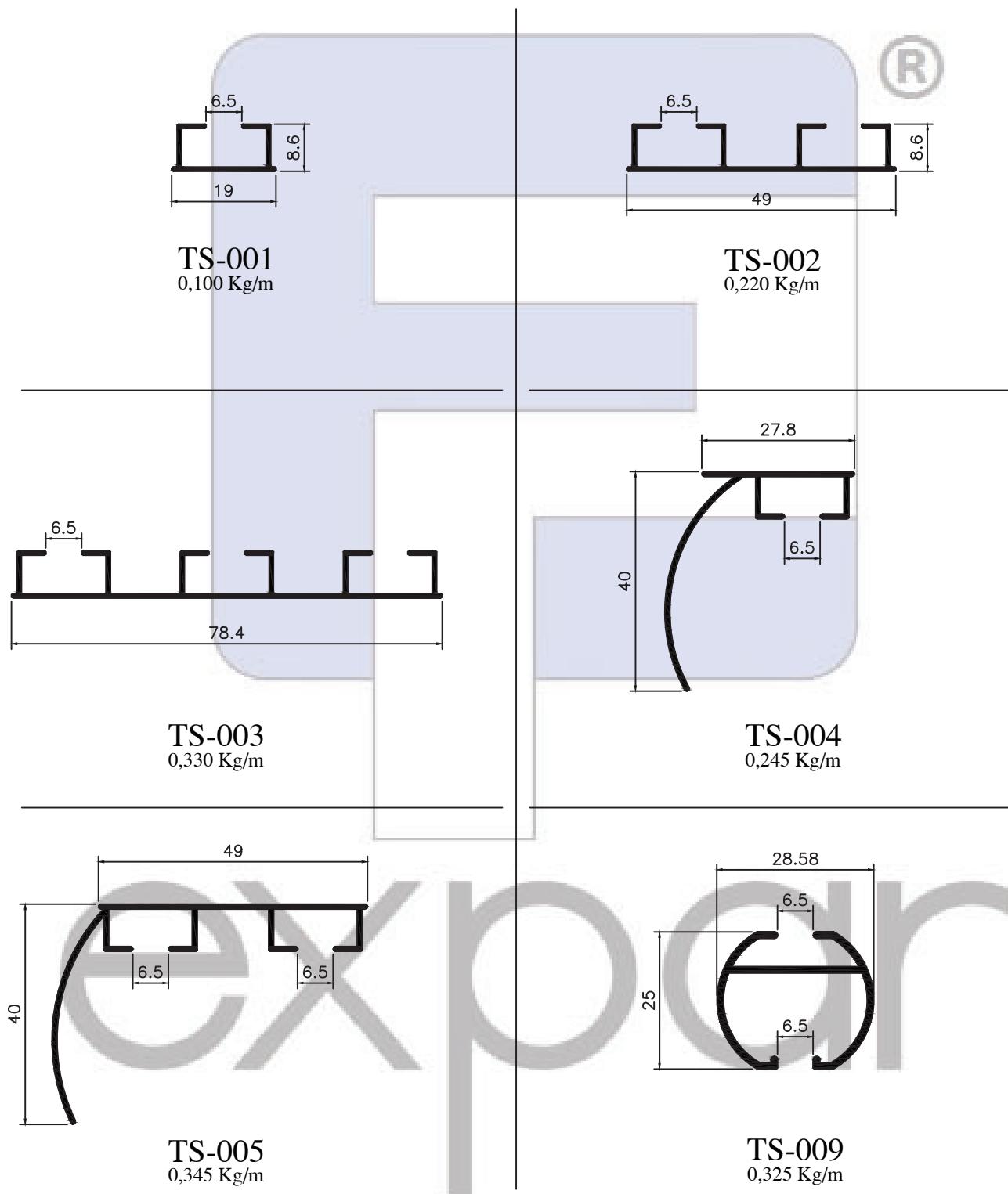


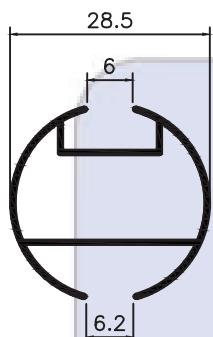
MV-057
0,325 Kg/m



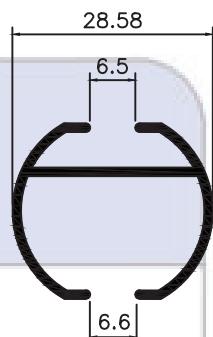
MV-058
0,335 Kg/m

expar

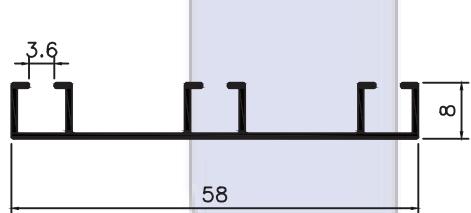




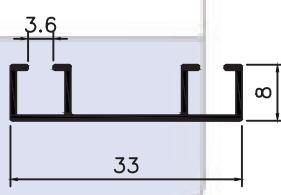
TS-010
0,270 Kg/m



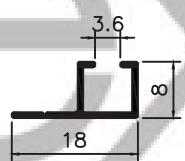
TS-011
0,320 Kg/m



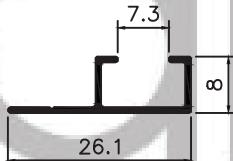
TS-012
0,330 Kg/m



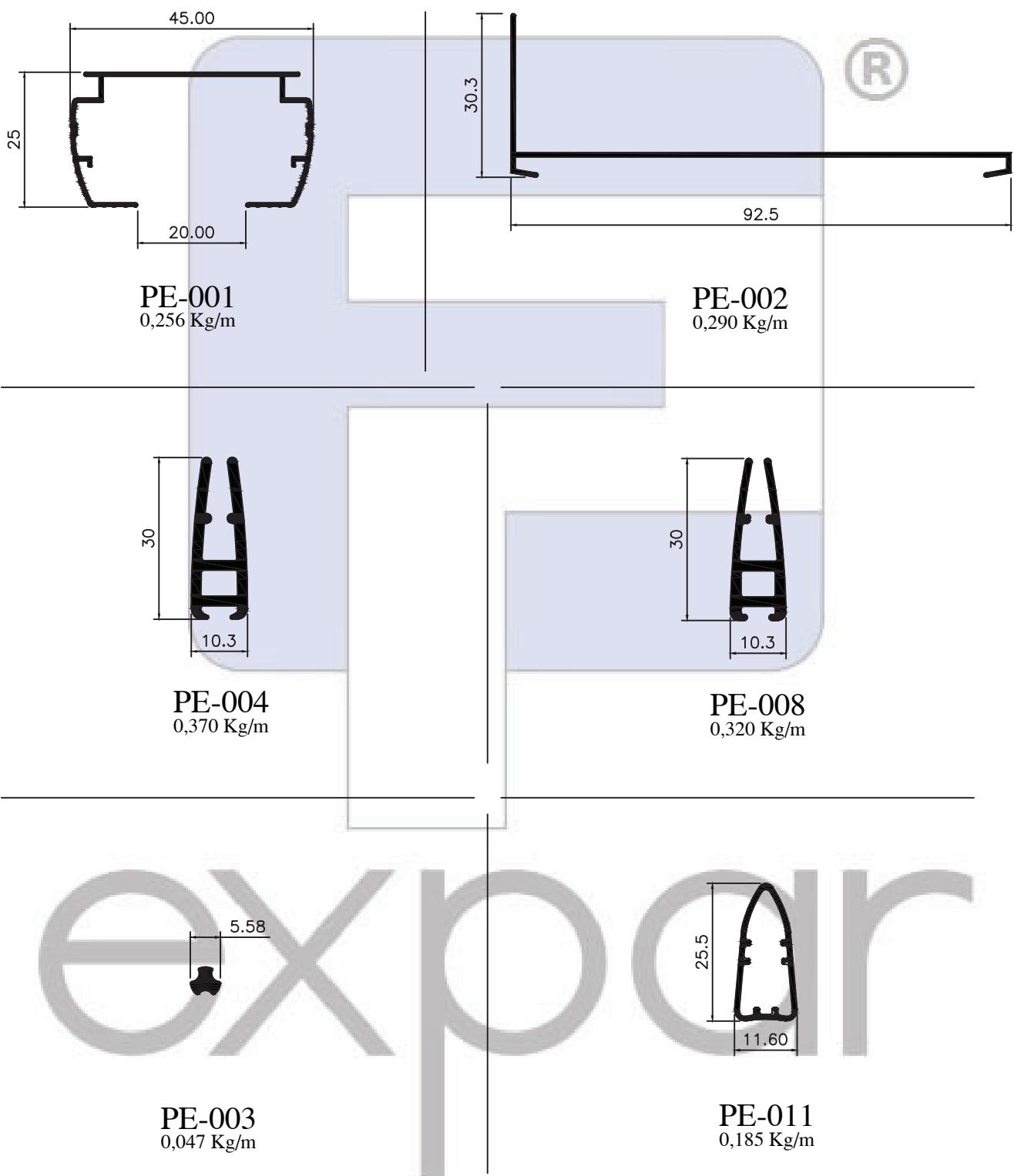
TS-013
0,245 Kg/m

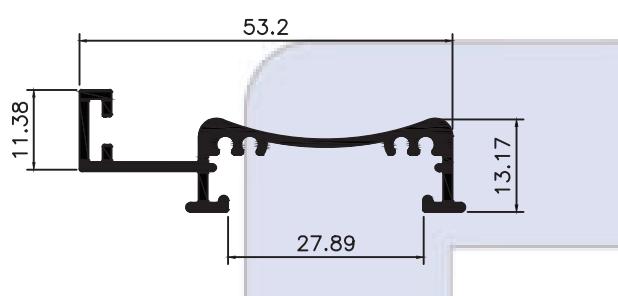


TS-014
0,087 Kg/m

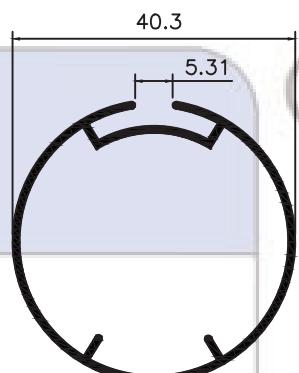


TS-015
0,110 Kg/m

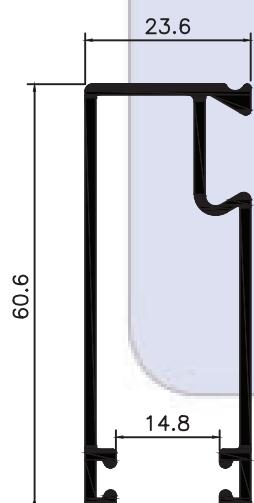




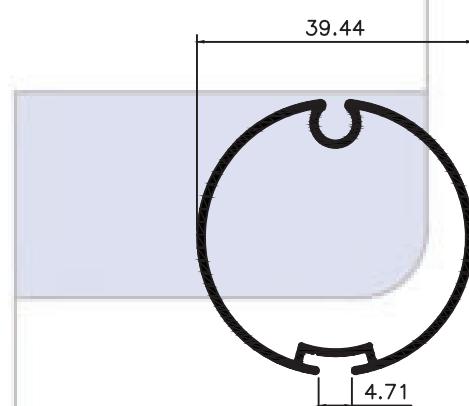
PE-005
0,450 Kg/m



PE-006
0,440 Kg/m



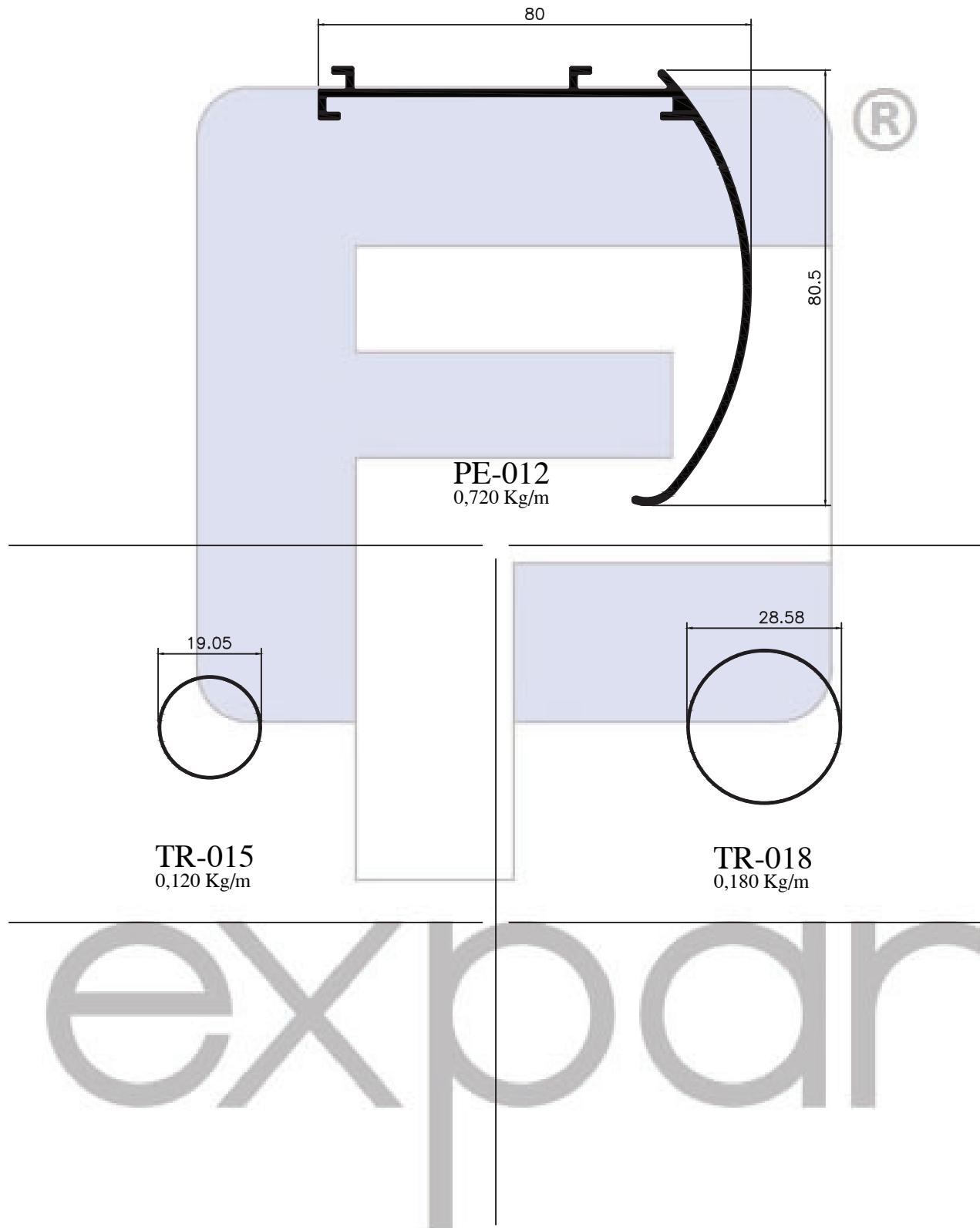
PE-007
0,690 Kg/m



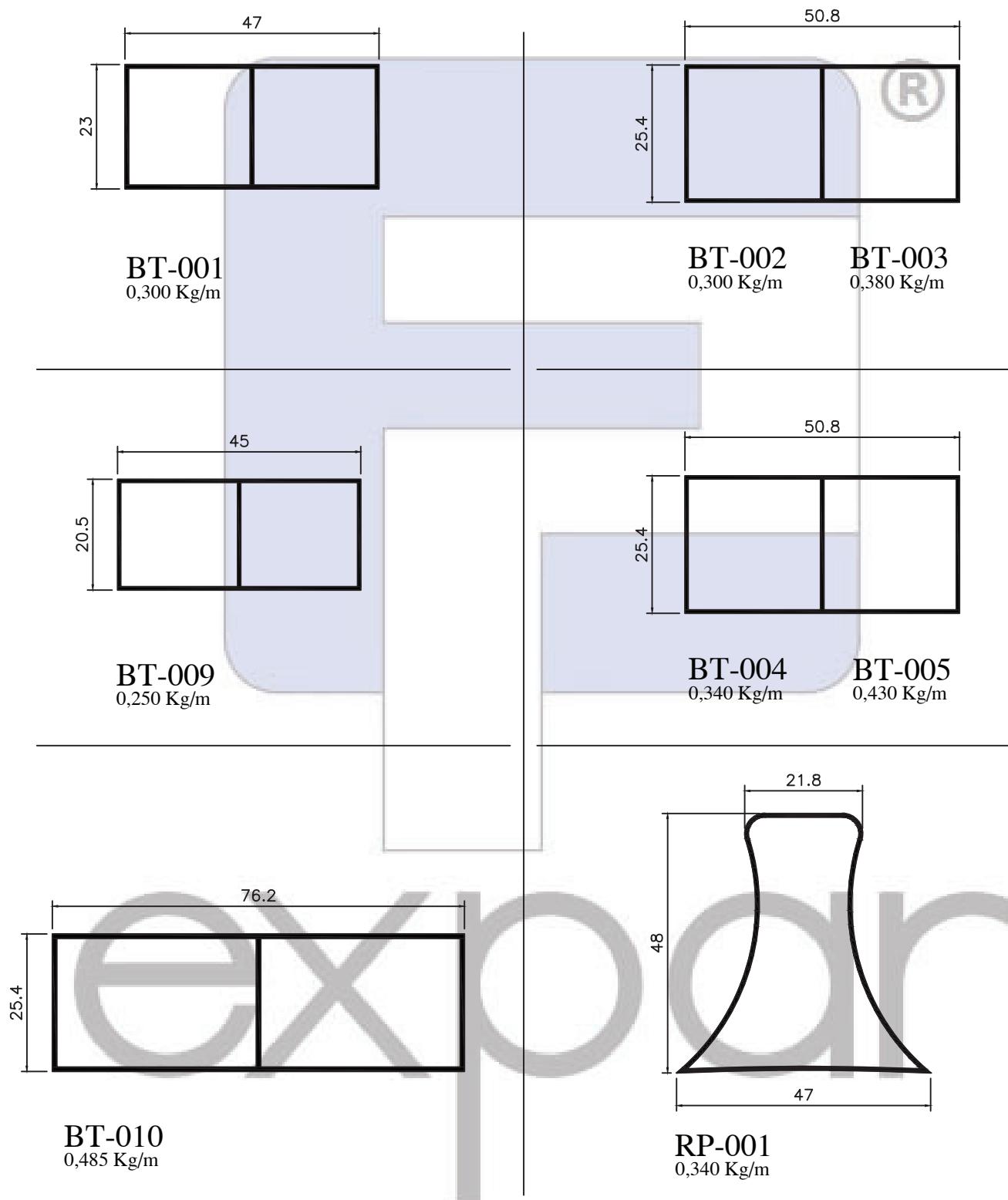
PE-009
0,425 Kg/m

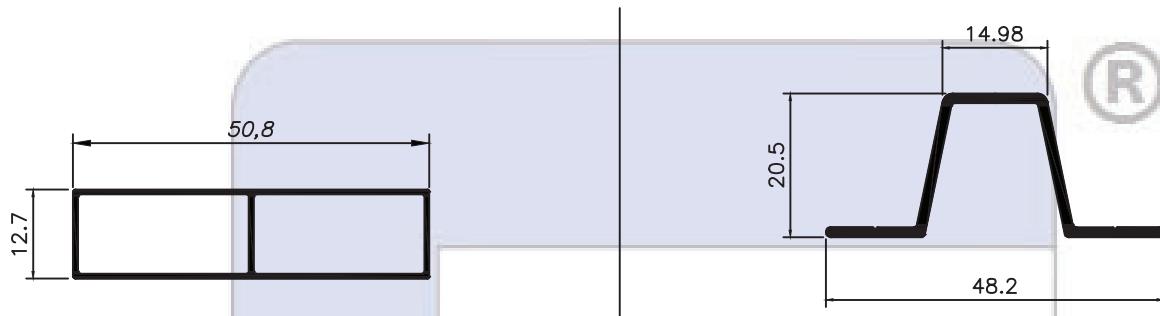


PE-010
0,205 Kg/m



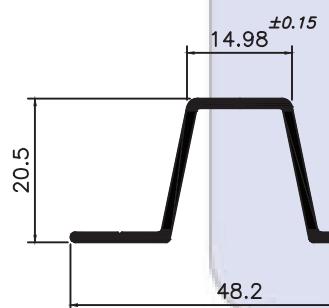
REGUAS



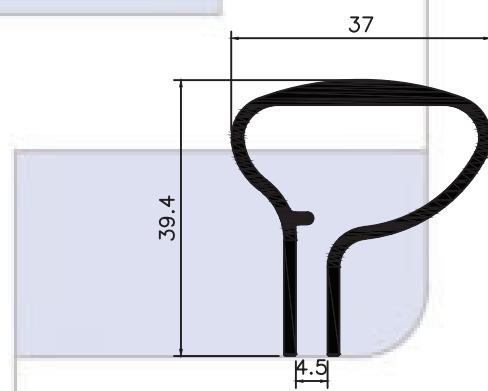


BT-006
0,260 Kg/m

DS-120
0,368 Kg/m

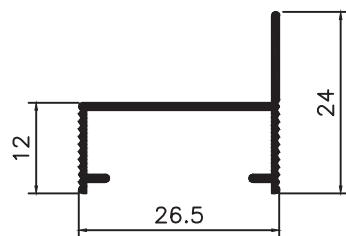


DS-121
0,510 Kg/m

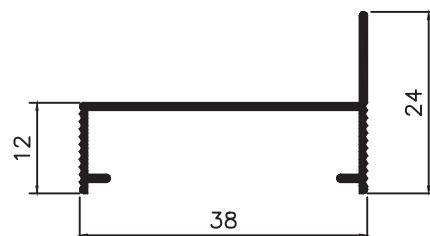


DS-123
0,650 Kg/m

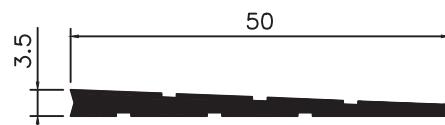
expar



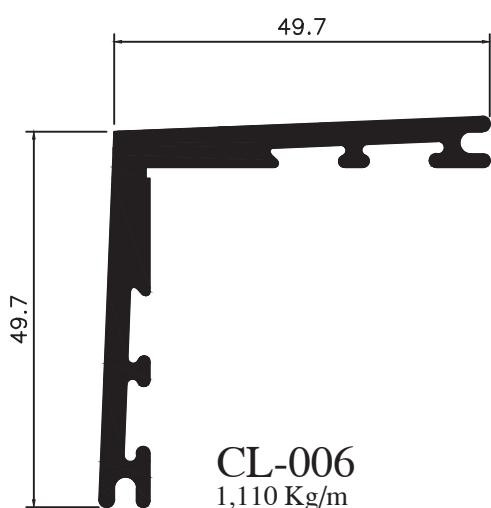
CM-064
0,170 Kg/m



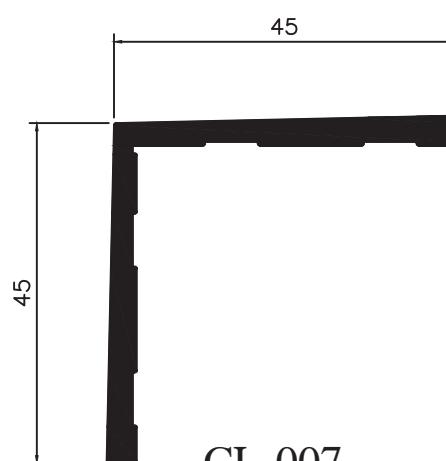
CM-060
0,206 Kg/m



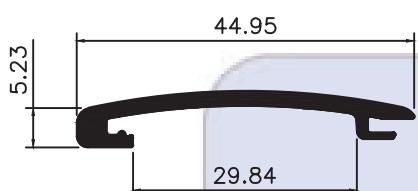
CL-011
0,320 Kg/m



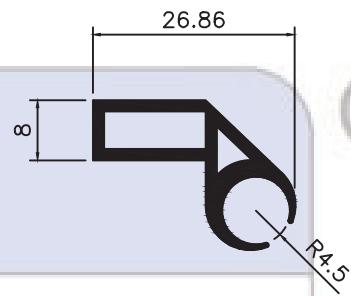
CL-006
1,110 Kg/m



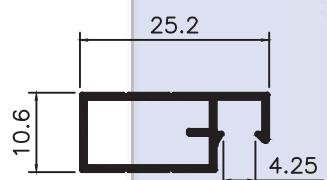
CL-007
0,810 Kg/m



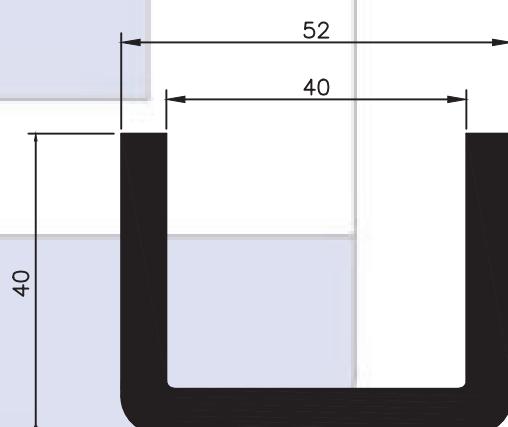
DS-025
0,310 Kg/m



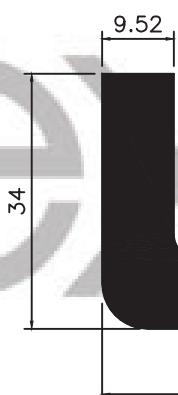
DS-105
0,350 Kg/m



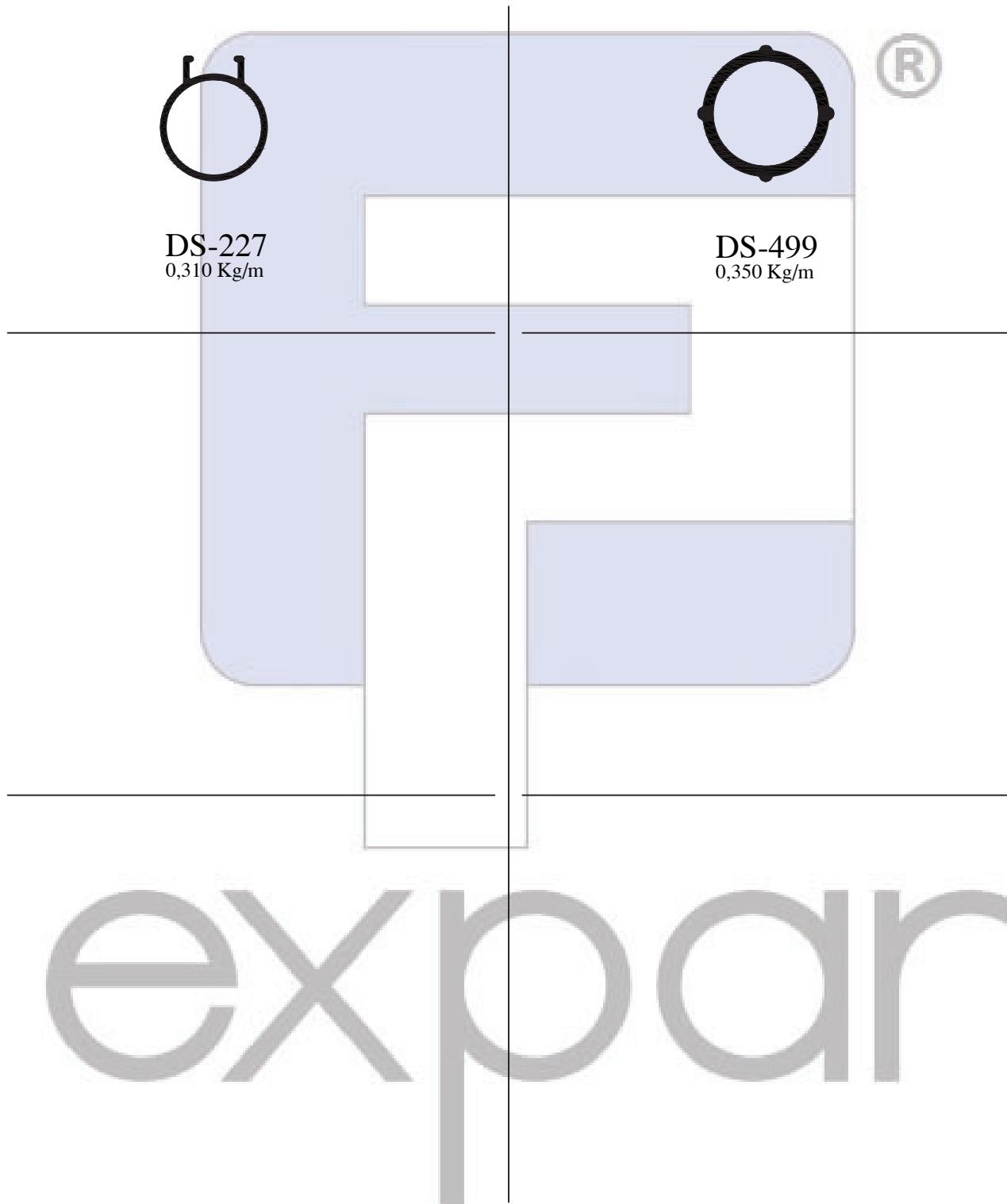
25-273
0,195 Kg/m

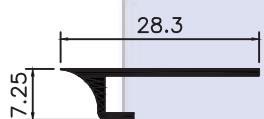


DS-456
1.930 Kg/m

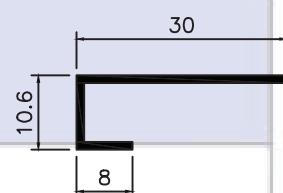


DS-457
3.210 Kg/m

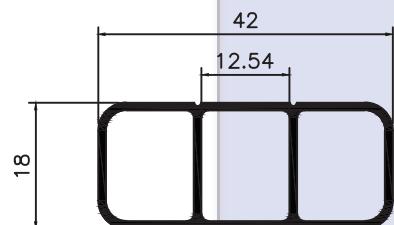




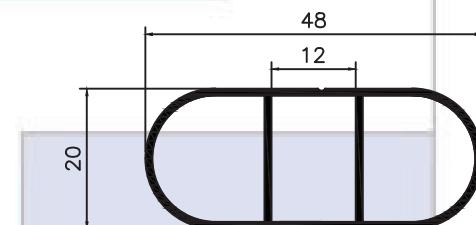
DS-226
0,120 Kg/m



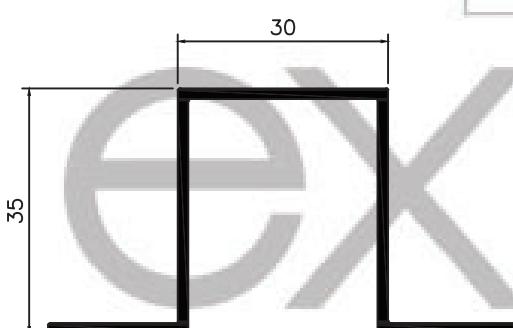
DS-225
0,150 Kg/m



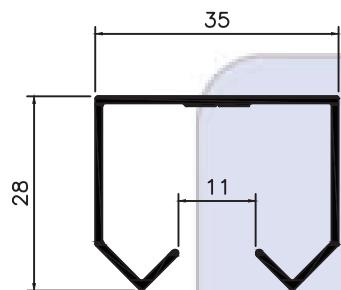
DS-038
0,430 Kg/m



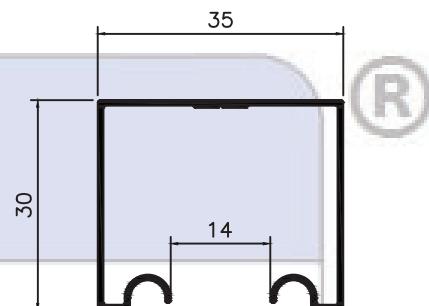
DS-037
0,420 Kg/m



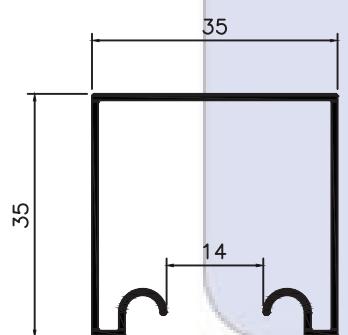
DS-243
0,550 Kg/m



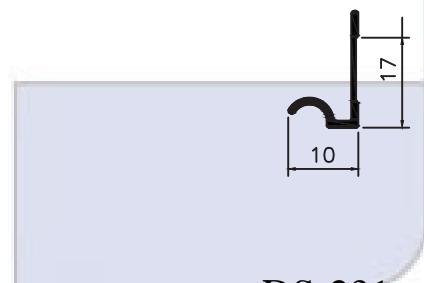
DS-228
0,320 Kg/m



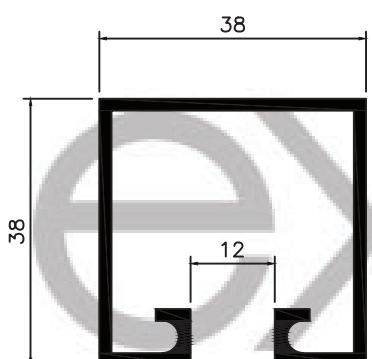
DS-229
0,290 Kg/m



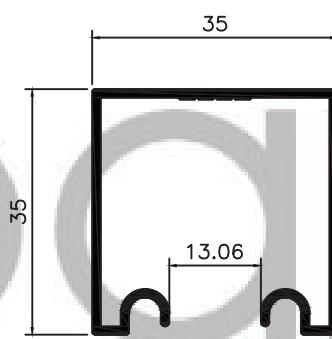
DS-230
0,340 Kg/m



DS-231
0,080 Kg/m

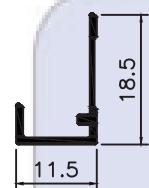


DS-055
0,730 Kg/m

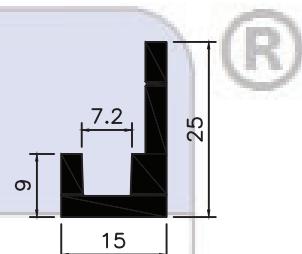


DS-236
0,400 Kg/m

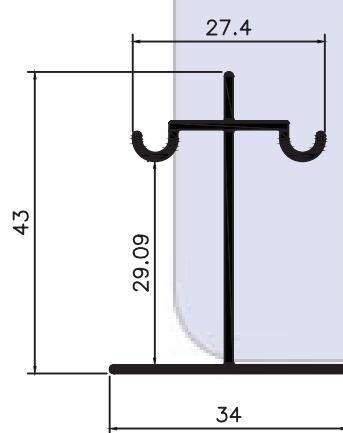
DS-237
0,480 Kg/m



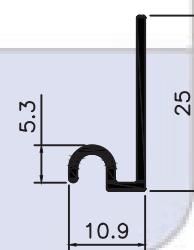
DS-232
0,105 Kg/m



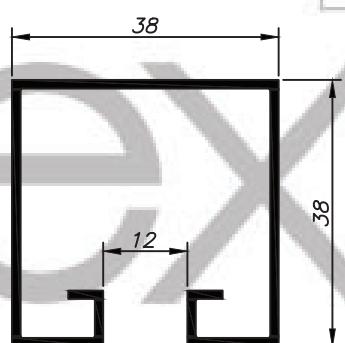
DS-235
0,395 Kg/m



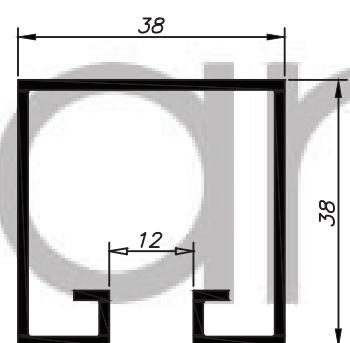
DS-239
0,380 Kg/m



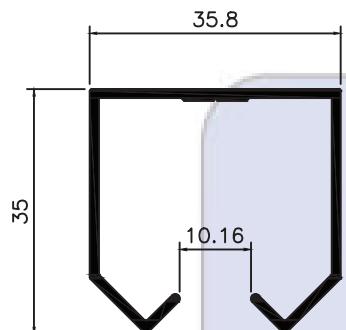
DS-240
0,145 Kg/m



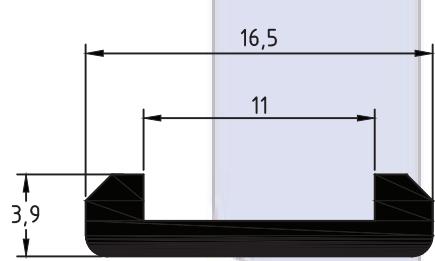
DS-241
0,515 Kg/m



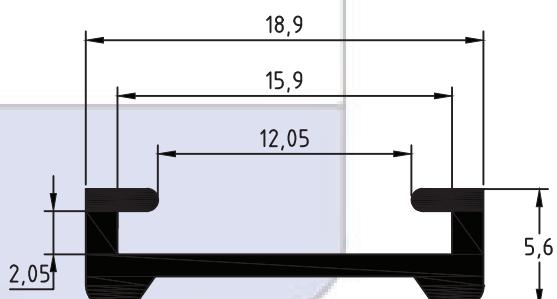
DS-471
0,595 Kg/m



DS-473
0,440 Kg/m

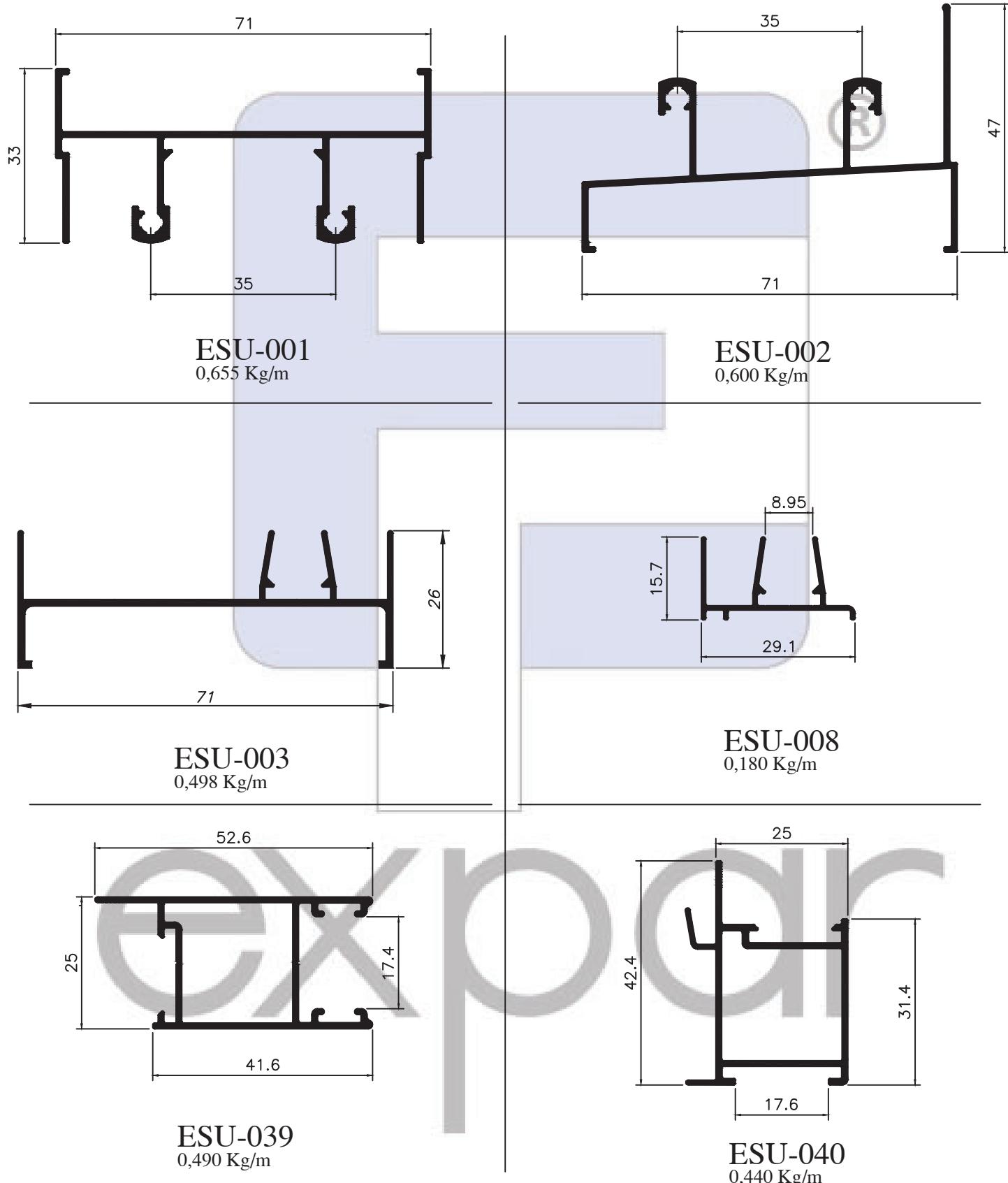


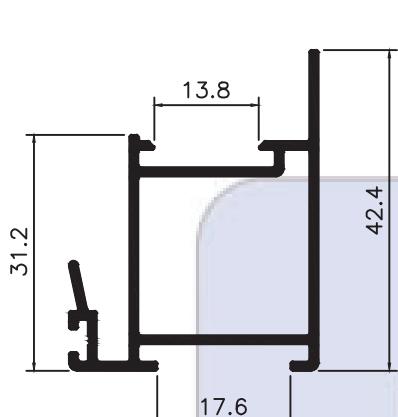
MAX-002
0,120 Kg/m



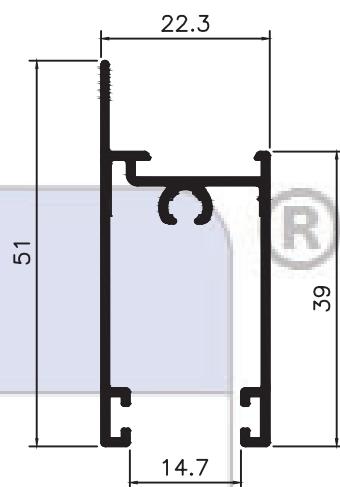
MAX-003
0,130 Kg/m

expar

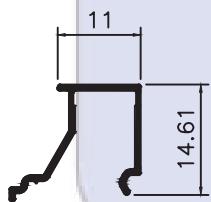




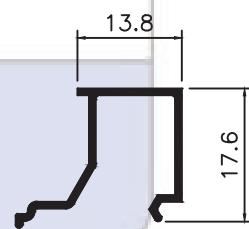
ESU-041
0,510 Kg/m



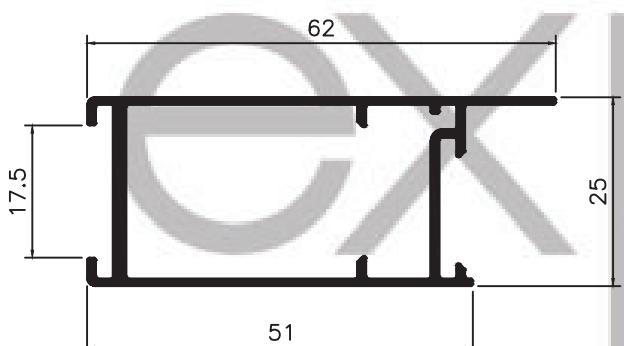
ESU-053
0,436 Kg/m



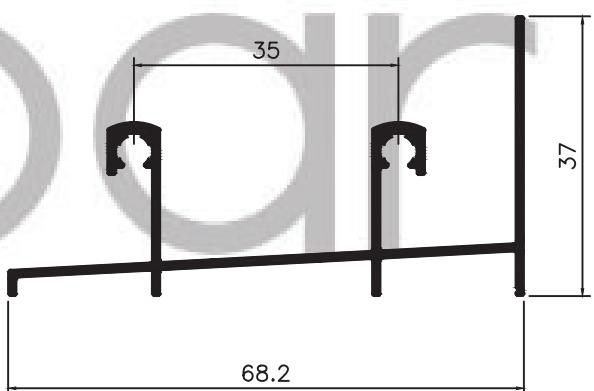
ESU-102
0,096 Kg/m



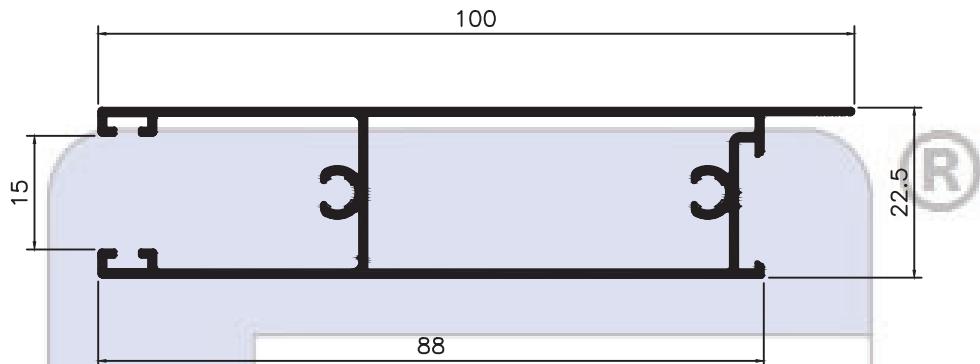
ESU-103
0,141 Kg/m



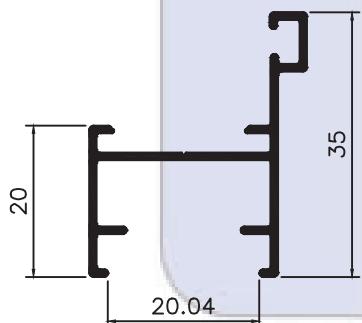
ESU-111
0,555 Kg/m



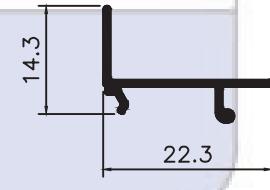
ESU-228
0,548 Kg/m



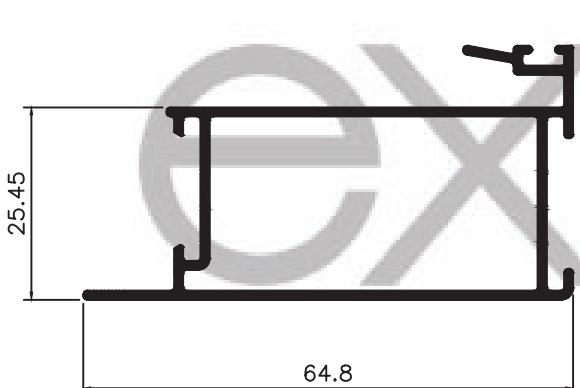
ESU-225
0,827 Kg/m



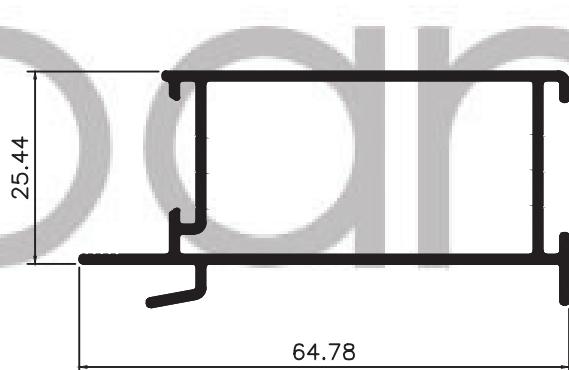
ESU-079
0,288 Kg/m



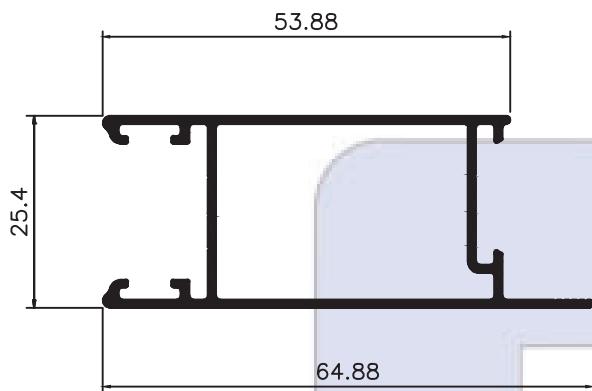
ESU-108
0,120 Kg/m



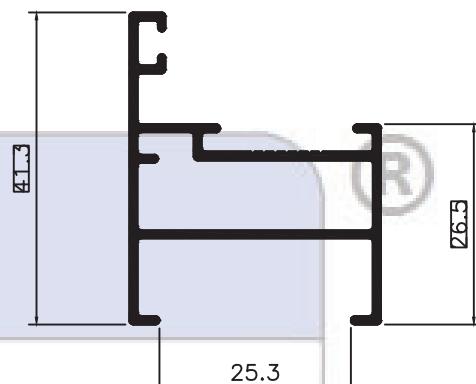
ESU-242
0,670 Kg/m



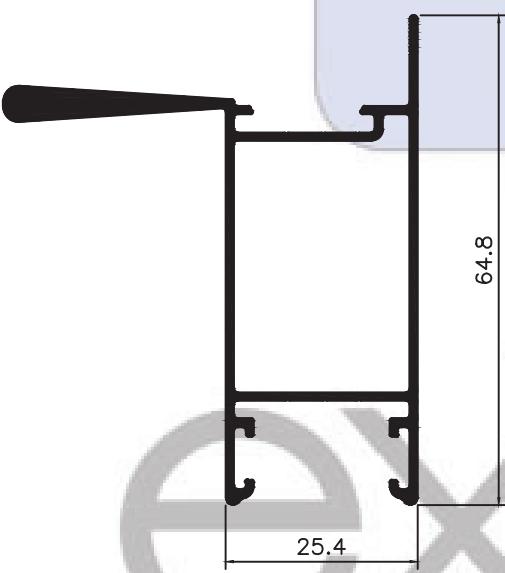
ESU-243
0,638 Kg/m



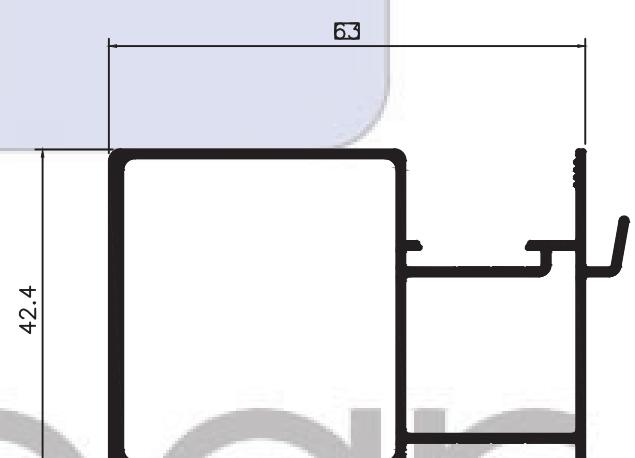
ESU-245
0,570 Kg/m



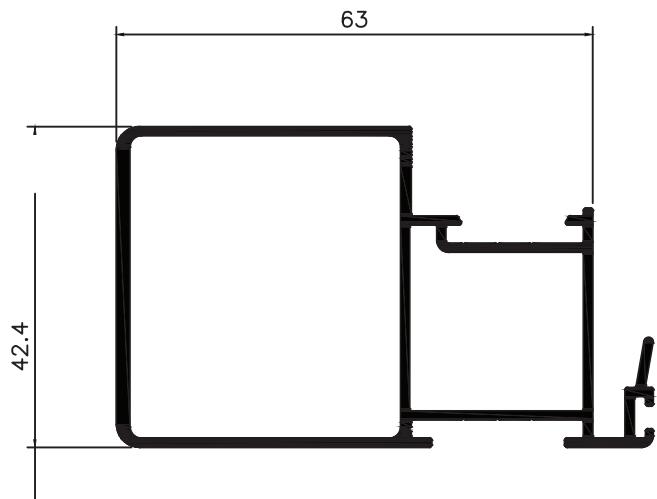
ESU-279
0,480 Kg/m



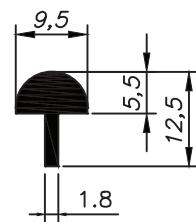
ESU-280
0,820 Kg/m



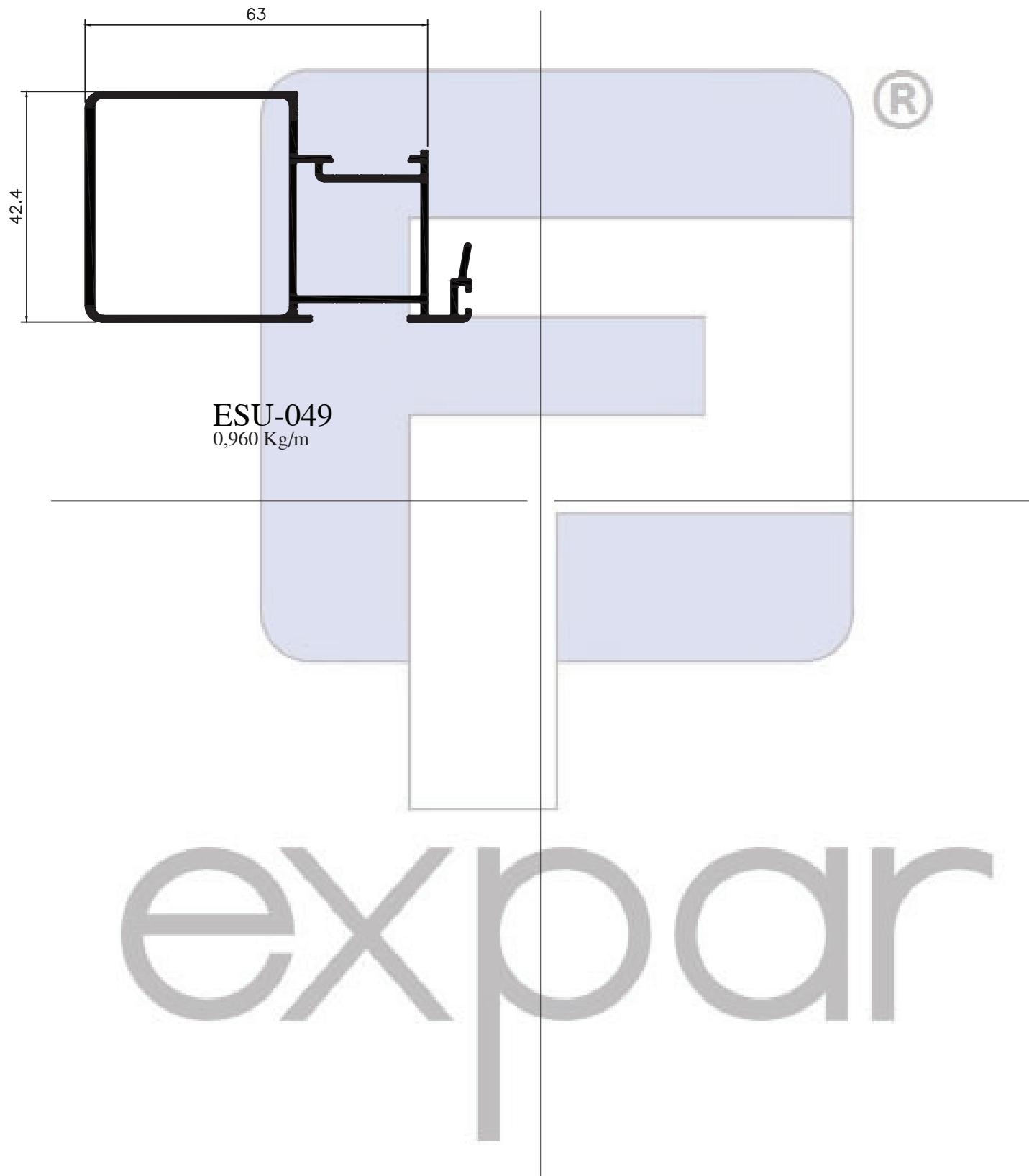
ESU-047
0,980 Kg/m



ESU-049
0,960 Kg/m



ESU-004
0,150 Kg/m





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