



TRANSPORTE

LD

ISO 9001
ISO 14001



DECIEMBRE 2024



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Hydro

1. LISTADO

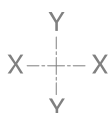
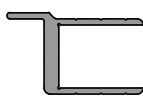
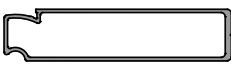
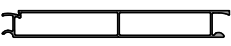
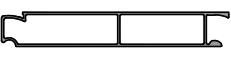
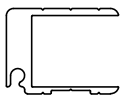
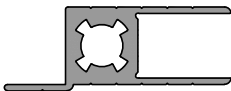
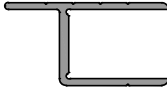
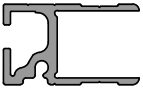
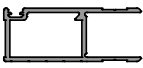
2. PERFILES 1:1

1. SISTEMAS LATERALES ABATIBLES
2. LONAS Y SEMI-LONAS
3. PLATAFORMA Y CHASIS
4. OMEGAS Y UES ESTRUCTURALES
5. SISTEMAS PARA VOLQUETE CEREALERO
6. PISOS Y GANADEROS
7. FURGONES Y FRIGORIFICO
8. AUTOBUSES Y AUTOCARRES
9. SISTEMAS AUXILIARES
10. OTROS PERFILES NORMALIZADOS

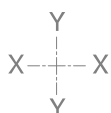
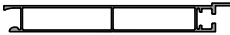
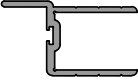
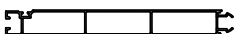
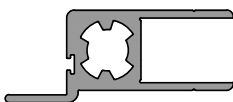
1. SISTEMAS LATERALES ABATIBLES

1.1- LISTADO

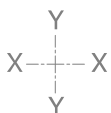
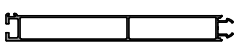
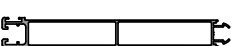
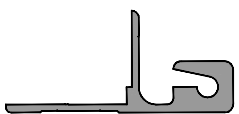
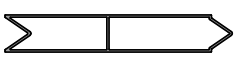
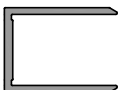
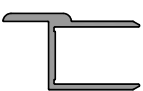
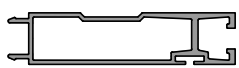
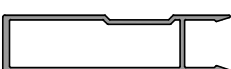
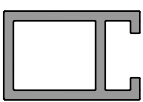
Listado

Perfil	Sección 	Descripción	Peso Kg./m	Superficie Exterior (dm ² /m) Total (dm ² /m)	Momento Inercia Ix (cm ⁴) Iy (cm ⁴)	Pág.
2054470 NAVARRA		Terminal Puerta Libro	1,055	243 243	- -	1.2.36
2054472 NAVARRA		Lama superior 100x25.	1,245	271 523	5,0 64,1	1.2.16
2054473 NAVARRA		Lama intermedia 150x25.	1,532	486 486	3,6 174	1.2.24
2054475 NAVARRA		Lama intermedia 200x25.	2,240	528 981	9,9 360	1.2.22
2054477 NAVARRA		Lama intermedia 150x25.	1,794	408 780	7,6 172	1.2.20
2054479 NAVARRA		Terminal Kinnegrip	0,982	217 217	- -	1.2.34
2054480 NAVARRA		Alza 120x25.	1,601	281 586	81,8 6,6	1.2.2
2054998 NAVARRA		Central Puerta Libro	2,200	319 408	- -	1.2.37
2054999 NAVARRA		Terminal Puerta Libro	0,890	253 253	- -	1.2.36
2055017 NAVARRA		Terminal Kinnegrip	1,107	304 304	- -	1.2.35
2055707 NAVARRA		Cierre Normal	1,366	299 434	- -	1.2.41

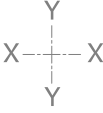
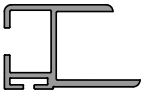
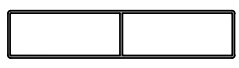
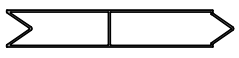
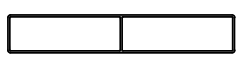
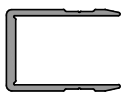
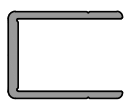
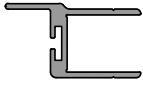
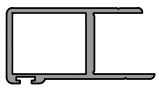
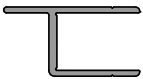
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2056010 NAVARRA		Lama inferior 200x25.	2,505	588 1003	11,1 426	1.2.26
2057574 NAVARRA		Terminal Puerta	0,996	237 341	- -	1.2.40
2058748 NAVARRA		Terminal Remate	0,694	213 213	- -	1.2.38
2068544 NAVARRA		Terminal Pestaña y Junta	0,944	272 272	- -	1.2.37
2071765 NAVARRA		Lama intermedia 200x25.	1,654	589 589	3,6 326	1.2.25
2071766 NAVARRA		Lama intermedia 200x25.	2,109	528 982	9,4 340	1.2.22
2071767 NAVARRA		Lama superior 200x25.	2,022	491 966	8,9 315	1.2.17
2071768 NAVARRA		Lama intermedia 150x25.	1,697	407 781	7,2 164	1.2.21
2071769 NAVARRA		Lama inferior 208x25.	2,295	582 1015	10,1 400	1.2.27
5002340 NAVARRA		Cartola M1 Inferior 215x25.	2,355	621 1130	9,8 422	1.2.30
5002342 NAVARRA		Central Puerta Libro	2,302	327 414	- -	1.2.37

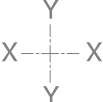
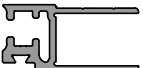
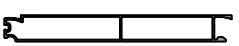
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5002811 NAVARRA		Cartola M1 Inferior 215x25.	2,634	606 1075	11,2 485	1.2.29
5002812 NAVARRA		Cartola M1 Inferior 200x25.	2,607	619 1037	10,8 418	1.2.29
CB2701 AVINTES		Terminal con Alojamiento	3,972	475 475	- -	1.2.39
CD3111 AVINTES		Apilable 140x25.	1,528	360 744	122 6,4	1.2.5
CP5503 AVINTES		Terminal en U	0,704	212 212	- -	1.2.34
CP5504 AVINTES		Terminal Puerta Libro	0,974	256 256	- -	1.2.36
CP5506 AVINTES		Lama inferior 100x25.	1,709	374 568	6,3 73,9	1.2.13
CP5507 AVINTES		Lama Superior 100x25	1,368	289 481	50,6 5,5	1.2.5
CP5513 AVINTES		Lama Superior 150x25	2,009	389 714	160 8	1.2.6
CP5516 AVINTES		Terminal Remate	1,118	178 274	- -	1.2.40
CP5519 AVINTES		Lama inferior 150x25.	2,353	475 805	8.8 215	1.2.13

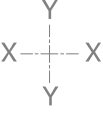
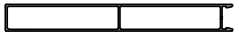
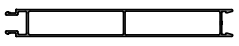
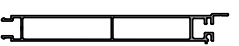
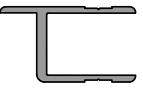
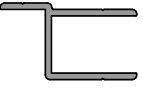
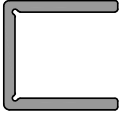
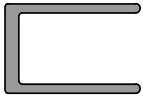
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CP5520 AVINTES		Terminal Tubular	0,833	286 286	- -	1.2.35
CP5539 AVINTES		Baranda 120x25.	1,080	287 608	57,2 4,7	1.2.1
CP5545 AVINTES		Apilable 140x25.	1,279	360 746	103 5,5	1.2.4
CP5546 AVINTES		Alza 150x25.	1,235	347 728	100 5,6	1.2.2
CP5572 AVINTES		Terminal en U	0,693	220 220	- -	1.2.34
CP5576 AVINTES		Lama superior 100x25.	1,121	271 527	6,9 55,7	1.2.16
CP5577 AVINTES		Lama intermedia 150x25.	1,382	490 490	3,4 161	1.2.24
E-5470 LA ROCA		Terminal en U	0,764	211 211	- -	1.2.34
E-5471 LA ROCA		Terminal Pestaña y Junta	1,069	275 275	- -	1.2.38
E-5529 LA ROCA		Terminal Tubular	1,075	234 346	- -	1.2.35
E-5651 LA ROCA		Terminal Puerta Libro	0,902	251 251	- -	1.2.35

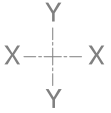
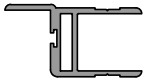
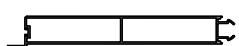
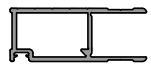
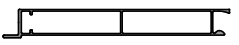
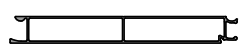
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E-8140 LA ROCA		Terminal Kinnegrip	1,502	370 370	- -	1.2.35
E-60023 LA ROCA		Lama inferior trasera 200x25.	2,927	623 1033	12,6 480	1.2.14
E-60025 LA ROCA		Terminal Kinnegrip	1,534	375 375	- -	1.2.35
E-60072 LA ROCA		Terminal en U	0,502	154 154	- -	1.2.34
E-60095 LA ROCA		Lama inferior 100x25.	1,366	405 581	62,2 5,5	1.2.13
E-60096 LA ROCA		Lama Superior 185x25	1,604	494 643	221 5,6	1.2.7
E-60099 LA ROCA		Lama intermedia 200x25.	2,390	516 992	10,3 391	1.2.23
E-60102 LA ROCA		Lama superior 200x25.	2,360	479 974	10 386	1.2.19
E010912 NAVARRA		Lama Intermedia 200x25.	1,448	594 594	276 3,8	1.2.11
E552287 NAVARRA		Baranda 120x25.	1.311	287 603	69,4 5,6	1.2.2
E554349 NAVARRA		Apilable 140x25.	1,521	358 739	121 6,4	1.2.5

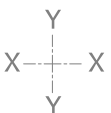
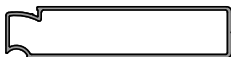
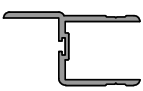
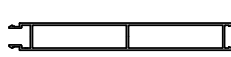
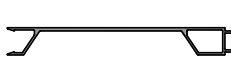
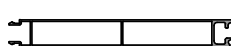
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E554950 NAVARRA		Lama Superior 215x25.	2,181	502 985	352 10	1.2.8
E554951 NAVARRA		Lama Intermedia 200x25.	2,204	541 974	339 9,8	1.2.10
E558189 NAVARRA		Lama inferior 200x25.	2,479	541 974	10,4 415	1.2.15
E556070 NAVARRA		Apilable 140x25.	1,342	358 743	106 5,7	1.2.4
E556680 NAVARRA		Apilable 100x25.	1,108	278 539	51,7 4,6	1.2.4
E558206 NAVARRA		Baranda 120x25.	1,088	287 606	56,8 4,7	1.2.1
E700357 NAVARRA		Terminal Remate	0,784	212 212	- -	1.2.40
E700358 NAVARRA		Terminal Puerta Libro	0,887	242 242	- -	1.2.36
E800032 NAVARRA		Terminal Puerta Libro	0,964	260 260	- -	1.2.36
HST8153 NAVARRA		Terminal en U	1,172	230 230	- -	1.2.34
M-2140 LA ROCA		Tope PL	1,132	236 236	- -	1.2.41

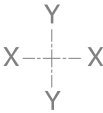
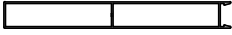
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Perfil		Descripción	Peso Kg./m	Momento		Pág.
				Superficie	Inercia	
				Exterior (dm ² /m) Total (dm ² /m)	I _x (cm ⁴) I _y (cm ⁴)	
M-2383 LA ROCA		Terminal Pestaña y Junta	1,023	249 306	- -	1.2.37
M-3165 LA ROCA		Cartola M1 Intermedia 200x25.	2,426	577 1090	10 339	1.2.28
M-3905 LA ROCA		Terminal Remate	0,687	219 219	- -	1.2.38
M-4055 LA ROCA		Cartola M1 Superior 165x25.	1,638	429 803	7,3 155	1.2.27
M-4130 LA ROCA		Cartola M1 Inferior 180x25.	1,997	534 969	8,8 283	1.2.28
M-4236 LA ROCA		Cierre Normal	1,340	296 431	- -	1.2.41
M-4237 LA ROCA		Cierre Gallego	1,300	291 427	- -	1.2.40
M-4240 LA ROCA		Cartola M2 Anillas 150x25.	1,287	487 487	3,1 146	1.2.32
M-4247 LA ROCA		Cartola M2 Anillas 200x25.	1,557	587 587	3,3 298	1.2.32
M-4293 LA ROCA		Cartola M2 Trasera 200x25.	2,337	518 978	10,5 391	1.2.33
M-4339 LA ROCA		Cartola M2 Intermedia 200x25.	1,779	409 781	7,6 169	1.2.31

Listado

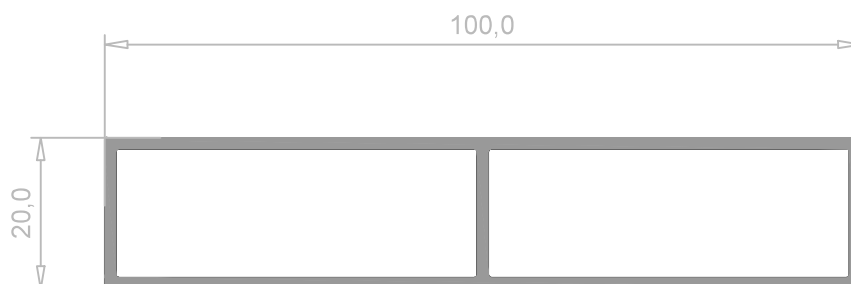
Perfil		Descripción	Peso Kg./m	Superficie Exterior (dm ² /m) Total (dm ² /m)	Momento Inercia Ix (cm ⁴) Iy (cm ⁴)	Pág.
M-4340 LA ROCA		Cartola M2 Superior 150x25.	1,700	372 764	7,2 160	1.2.31
M-4341 LA ROCA		Cartola M2 Superior 100x25.	1,171	272 528	4,8 57,8	1.2.30
M-4795 LA ROCA		Alza 200x25.	1,974	443 900	290 8,8	1.2.3
M-4863 LA ROCA		Terminal Pestaña y Junta	0,794	257 257	- -	1.2.36
P14 AVINTES		Baranda 100x20.	1,088	287 606	56,8 4,7	1.2.1
PB10090 NAVARRA		Lama Intermedia 200x25.	1,701	587 587	300 4	1.2.11
PB10091 NAVARRA		Lama Intermedia 200x25.	2,633	538 968	385 11,5	1.2.10
PB10092 NAVARRA		Lama Superior 215x25.	2,667	498 979	420 11,9	1.2.8
PP55008 NAVARRA		Lama Intermedia 200x25.	2,609	529 927	374 10,6	1.2.12
PP55014 NAVARRA		Lama Intermedia 200x25.	2,114	551 650	348 5,2	1.2.12
PP55036 NAVARRA		Lama inferior 200x25.	2,314	601 1018	9,9 386	1.2.14

Listado

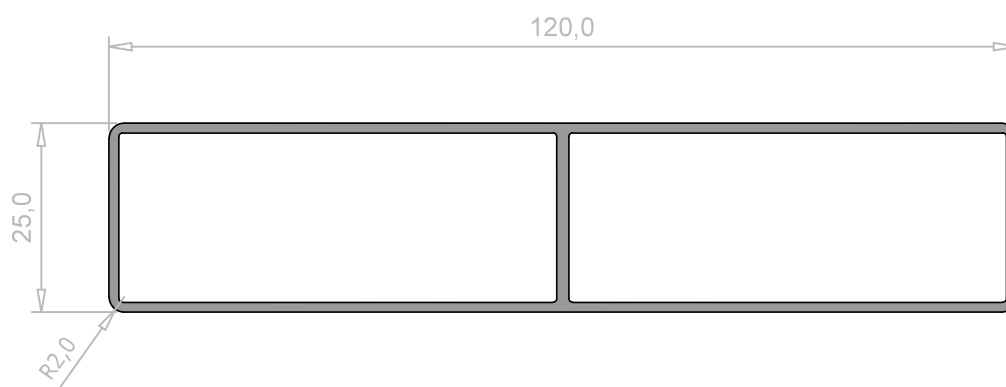
Perfil		Descripción	Peso Kg./m	Momento		Pág.
				Superficie Exterior (dm ² /m) Total (dm ² /m)	Inercia Ix (cm ⁴) Iy (cm ⁴)	
PP55037 NAVARRA		Lama Superior 215x25.	2,033	500 988	327 9,4	1.2.7
PP55038 NAVARRA		Lama Intermedia 200x25.	2,030	542 980	306 9,1	1.2.9
PP55042 NAVARRA		Lama intermedia 199x25.	1,644	588 588	3,6 320	1.2.25
PP55043 NAVARRA		Lama intermedia 200x25.	2,342	525 976	10,2 366	1.2.23
PP55044 NAVARRA		Lama inferior 207x25.	2,517	578 1007	11 429	1.2.26
PP55061 NAVARRA		Lama Superior 135,5x25.	1,856	462 873	191 7,9	1.2.9
PP55074 NAVARRA		Lama intermedia 150x25.	1,873	406 779	7,9 175	1.2.21
PP55075 NAVARRA		Lama superior 200x25.	2,250	492 966	9,9 339	1.2.18

1.2- PERFILES 1:1

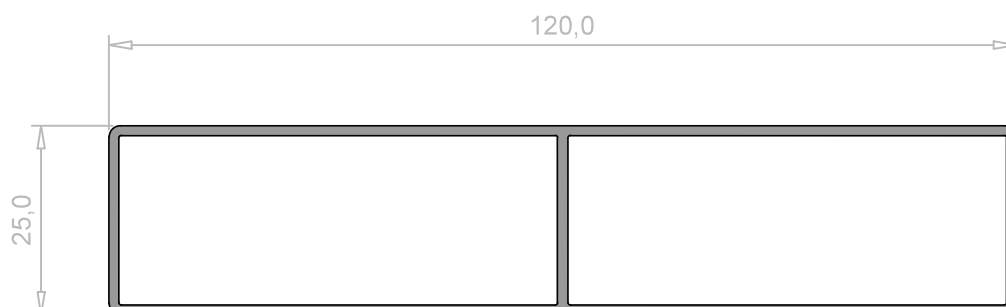
P14	Espes.	Sup. Ext.	Sup. Total	Peso
Baranda 100x20	1.5 mm	287 dm ² /m	606 dm ² /m	1.088 Kg/m
	Momento Inercia	Ix: 4.7 cm ⁴	Iy: 56.8 cm ⁴	AVINTES



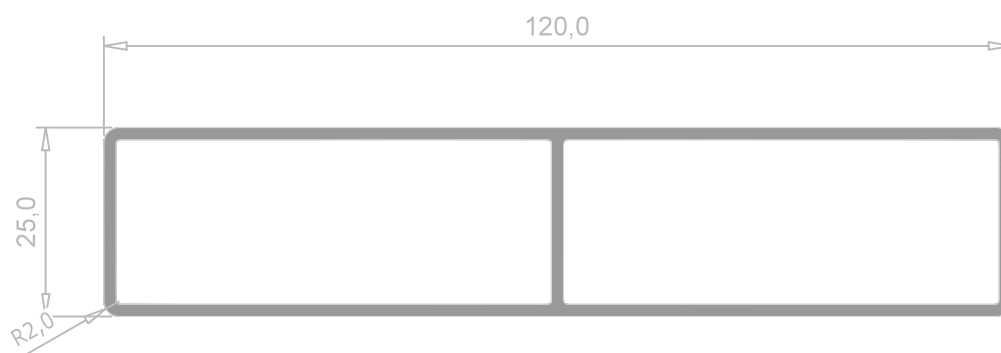
E558206	Espes.	Sup. Ext.	Sup. Total	Peso
Baranda 120x25	1.3 mm	287 dm ² /m	606 dm ² /m	1.088 Kg/m
	Momento Inercia	Ix: 4.7 cm ⁴	Iy: 56.8 cm ⁴	NAVARRA



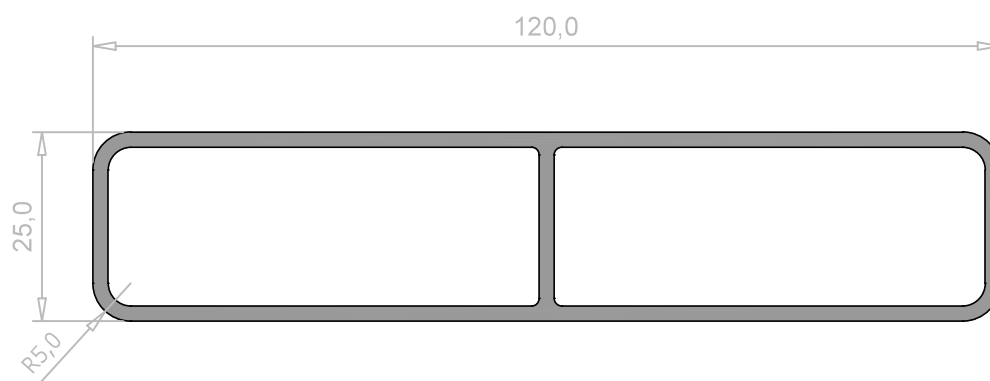
CP5539	Espes.	Sup. Ext.	Sup. Total	Peso
Baranda 120x25	1.4 mm	287 dm ² /m	608 dm ² /m	1.080 Kg/m
	Momento Inercia	Ix: 4.7 cm ⁴	Iy: 57.2 cm ⁴	AVINTES



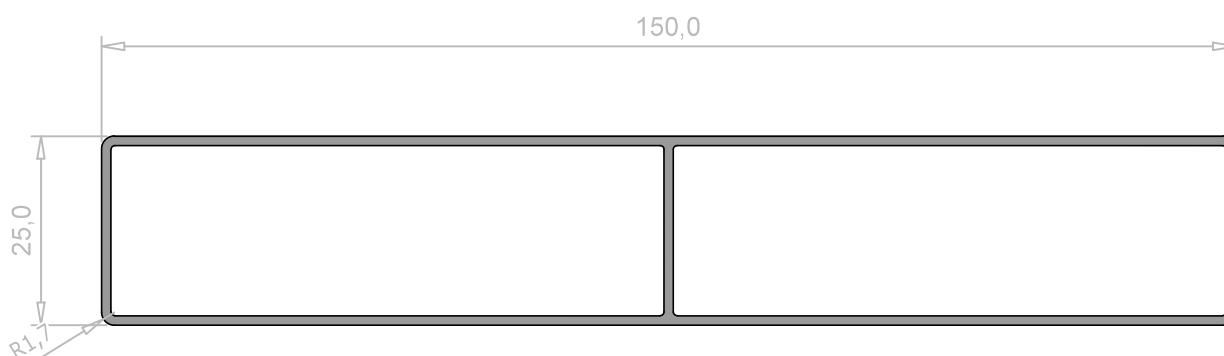
E552287	Espes.	Sup. Ext.	Sup. Total	Peso
Baranda 120x25	1.6 mm	287 dm ² /m	603 dm ² /m	1.311 Kg/m
	Momento Inercia	Ix: 5.6 cm ⁴	Iy: 69.4 cm ⁴	NAVARRA



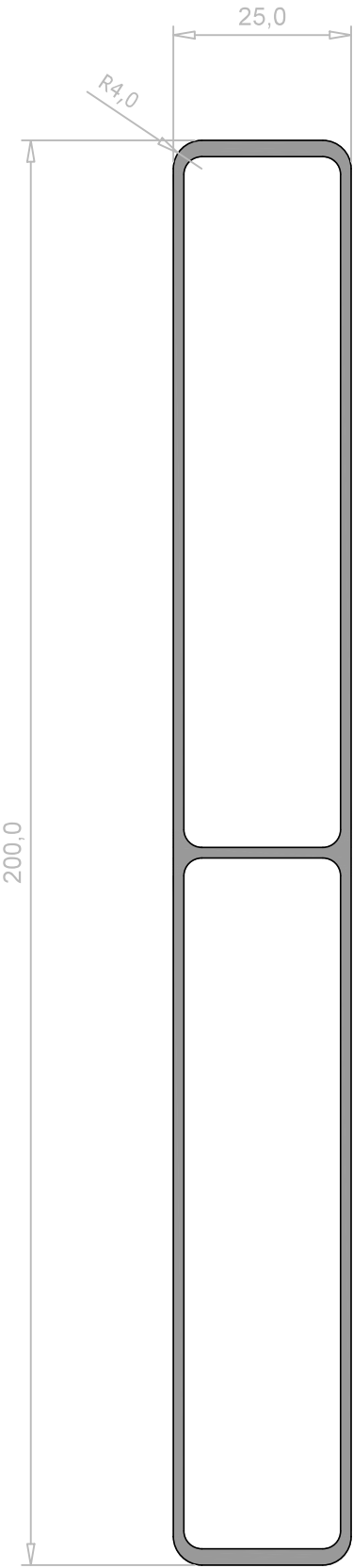
2054480	Espes.	Sup. Ext.	Sup. Total	Peso
Alza 120x25	2.0 mm	281 dm ² /m	586 dm ² /m	1.601 Kg/m
	Momento Inercia	Ix: 6.6 cm ⁴	Iy: 81.9 cm ⁴	NAVARRA



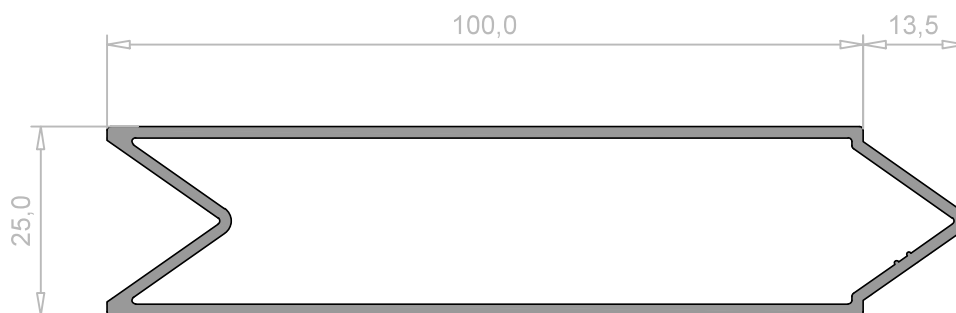
CP5546	Espes.	Sup. Ext.	Sup. Total	Peso
Alza 150x25	1.3 mm	347 dm ² /m	728 dm ² /m	1.235 Kg/m
	Momento Inercia	Ix: 5.6 cm ⁴	Iy: 100 cm ⁴	AVINTES



M-4795	Espes.	Sup. Ext.	Sup. Total	Peso
Alza 200x25	1.5 mm	443 dm ² /m	900 dm ² /m	1.974 Kg/m
	Momento Inercia	Ix: 290 cm ⁴	Iy: 8.8 cm ⁴	LA ROCA



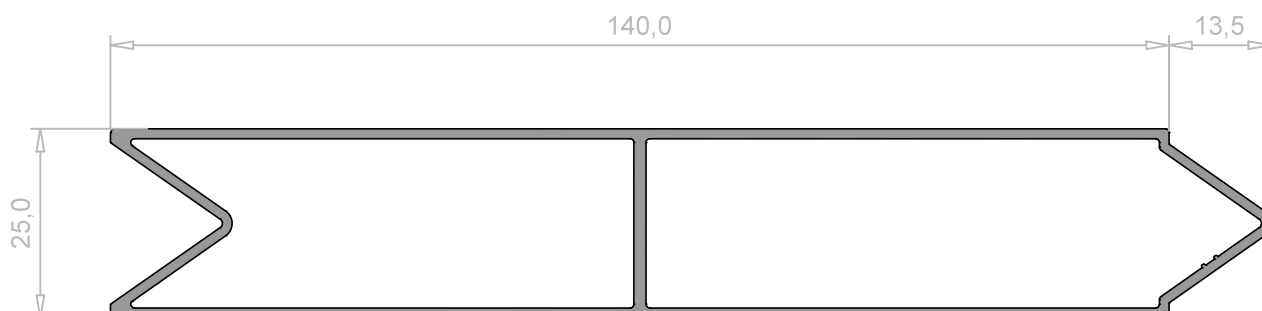
E556680	Espes.	Sup. Ext.	Sup. Total	Peso
Apilable 100x25	1.5 mm	278 dm ² /m	539 dm ² /m	1.108 Kg/m
	Momento Inercia	Ix: 4.6 cm ⁴	Iy: 51.7 cm ⁴	NAVARRA



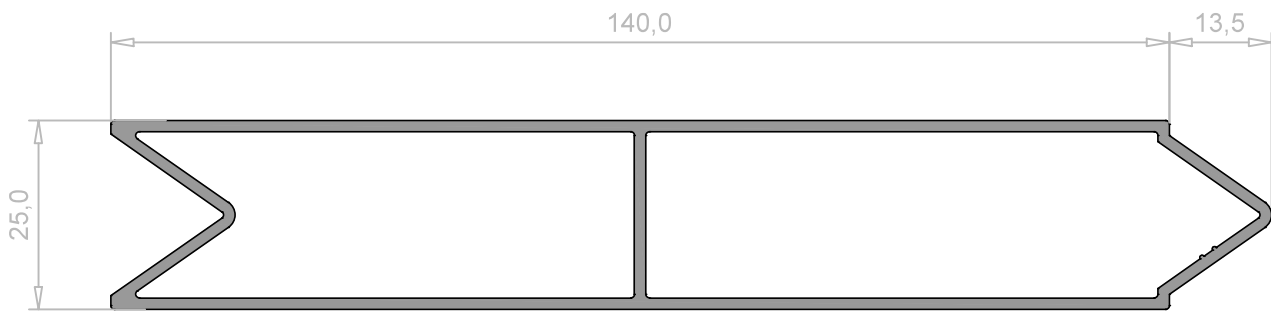
CP5545	Espes.	Sup. Ext.	Sup. Total	Peso
Apilable 140x25	1.3 mm	360 dm ² /m	746 dm ² /m	1.279 Kg/m
	Momento Inercia	Ix: 5.5 cm ⁴	Iy: 103 cm ⁴	AVINTES



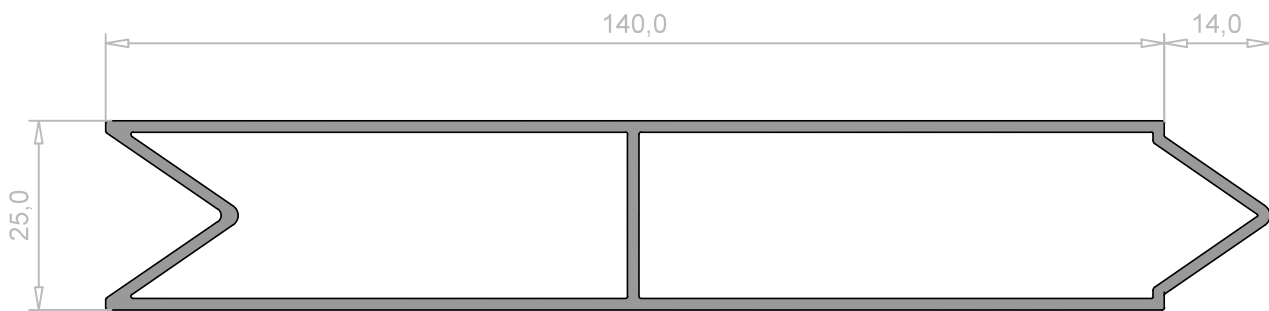
E556070	Espes.	Sup. Ext.	Sup. Total	Peso
Apilable 140x25	1.3 mm	358 dm ² /m	743 dm ² /m	1.342 Kg/m
	Momento Inercia	Ix: 5.7 cm ⁴	Iy: 106 cm ⁴	NAVARRA



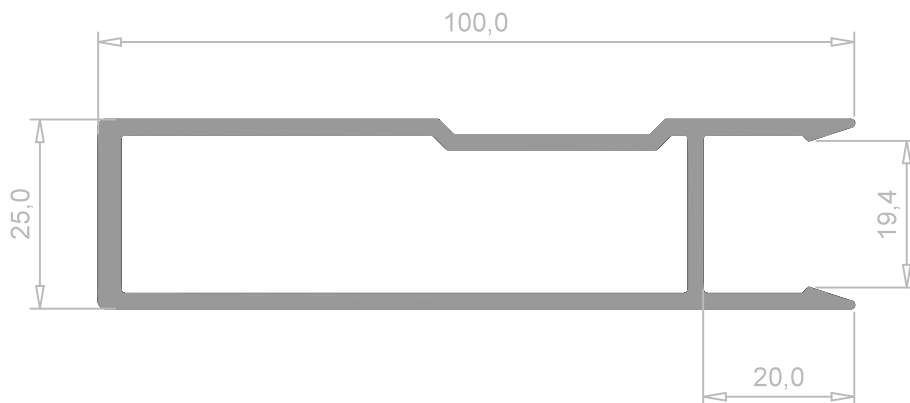
E554349	Espes.	Sup. Ext.	Sup. Total	Peso
Apilable 140x25	1.5 mm	358 dm ² /m	739 dm ² /m	1.521 Kg/m
	Momento Inercia	Ix: 6.4 cm ⁴	Iy: 121 cm ⁴	NAVARRA



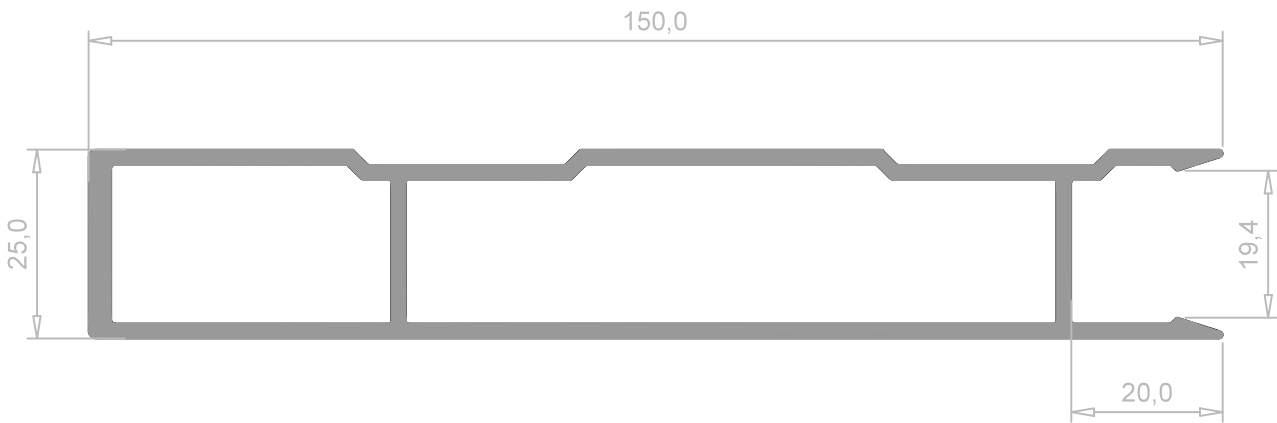
CD3111	Espes.	Sup. Ext.	Sup. Total	Peso
Apilable 140x25	1.5 mm	360 dm ² /m	744 dm ² /m	1.528 Kg/m
	Momento Inercia	Ix: 6.4 cm ⁴	Iy: 122 cm ⁴	AVINTES

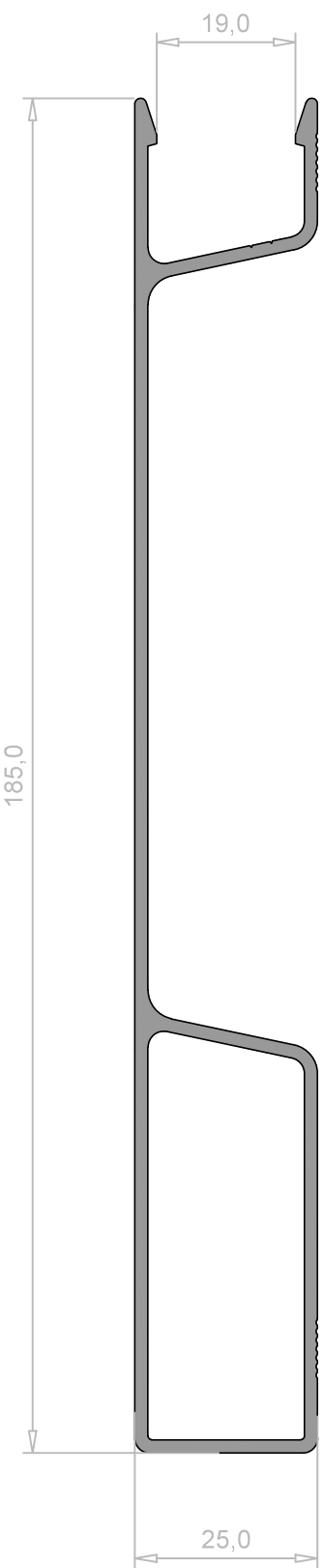
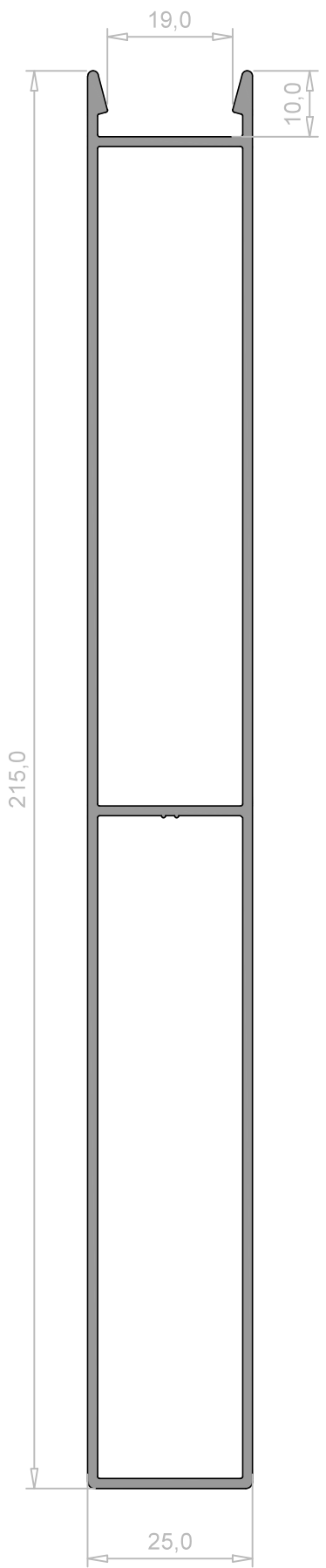


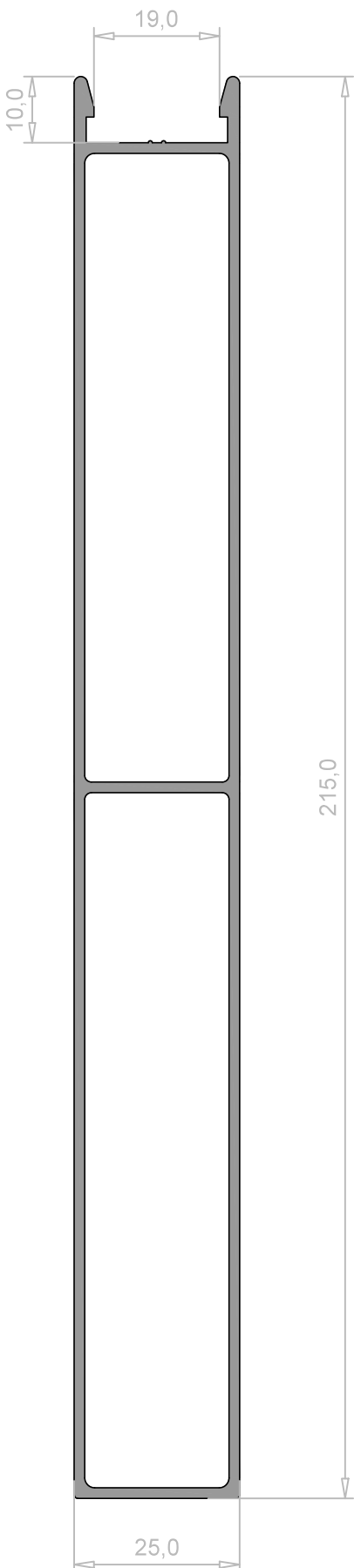
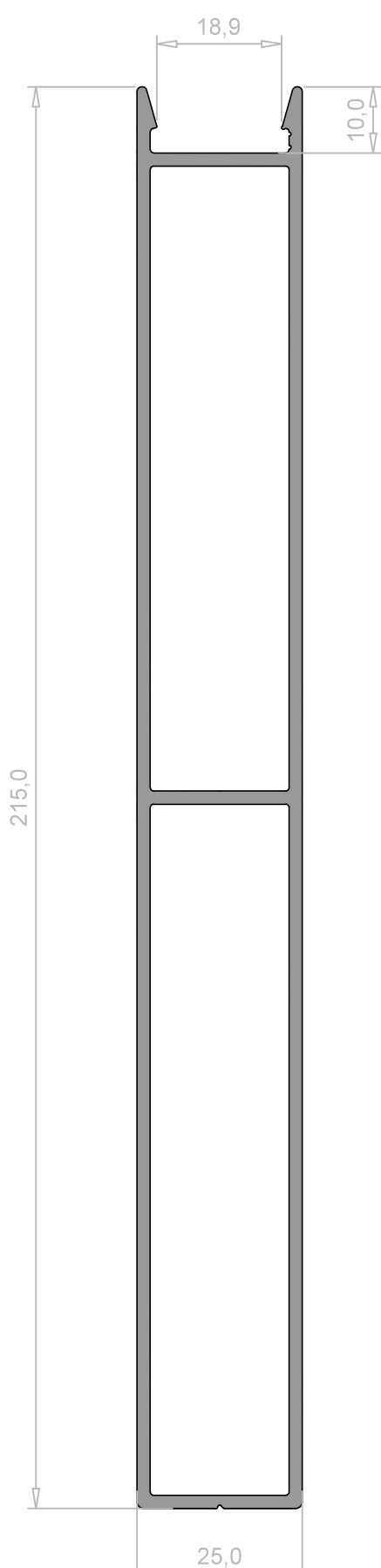
CP5507	Espes.	Sup. Ext.	Sup. Total	Peso
Lama Superior 100x25.	2,0 mm	289 dm ² /m	481 dm ² /m	1.368 Kg/m
	Momento Inercia	Ix: 5,5 cm ⁴	Iy: 50,6 cm ⁴	AVINTES



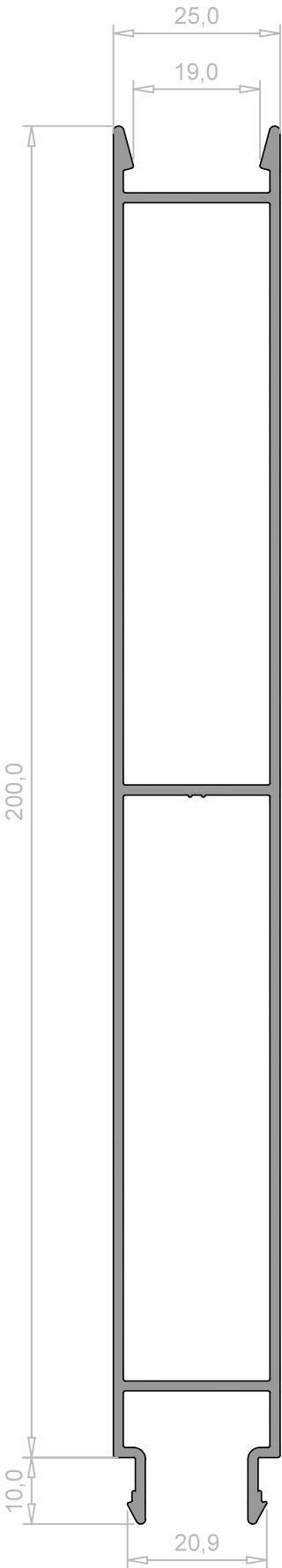
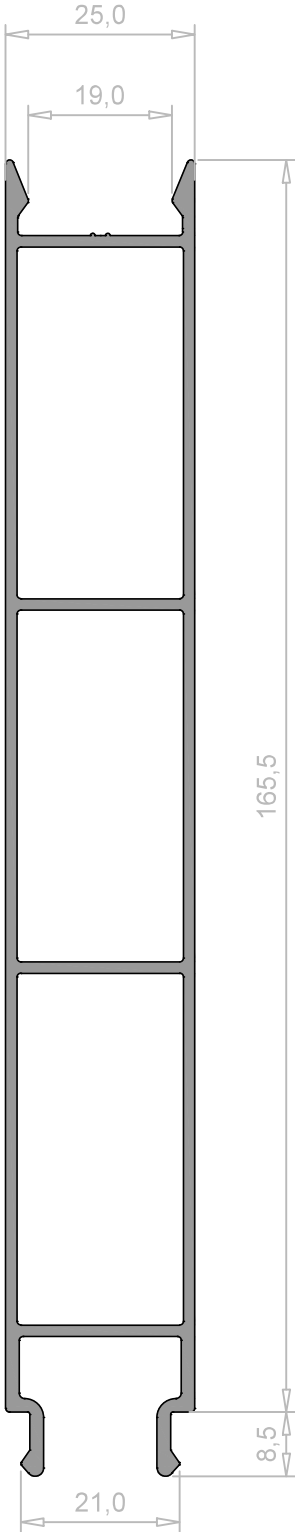
CP5513	Espes.	Sup. Ext.	Sup. Total	Peso
Lama Superior 150x25	2,0 mm	389 dm ² /m	714 dm ² /m	2.009 Kg/m
	Momento Inercia	Ix: 8 cm ⁴	Iy: 160 cm ⁴	AVINTES



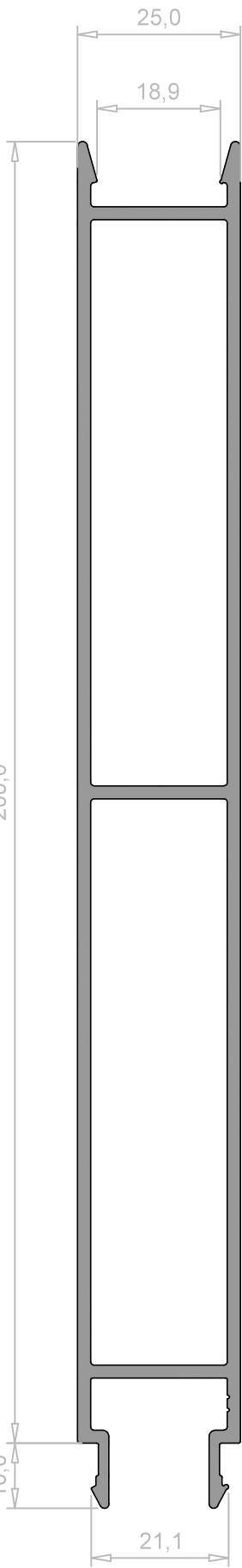
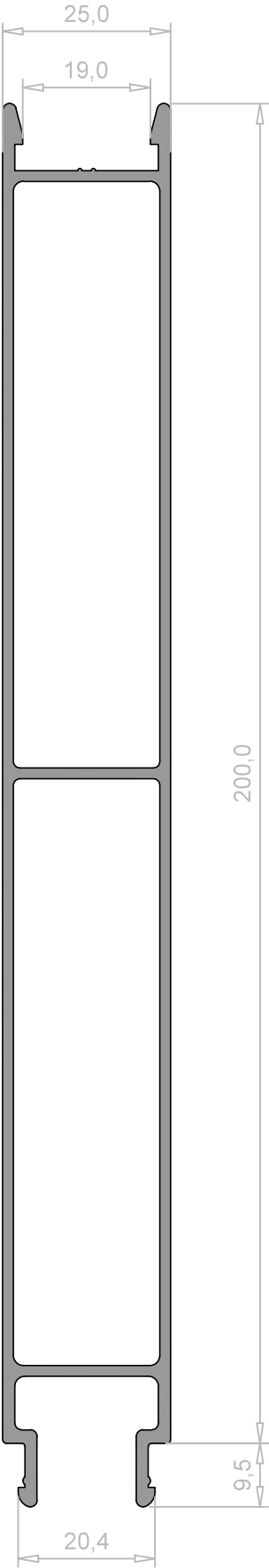
E-60096	Espes.	Sup. Ext.	Sup. Total	Peso	PP55037	Espes.	Sup. Ext.	Sup. Total	Peso
Lama Superior 185x25	1.8 mm	494 dm ² /m	643 dm ² /m	1.604 Kg/m	Lama Superior 215x25	1.5 mm	500 dm ² /m	988 dm ² /m	2.033 Kg/m
	Momento Inercia	Ix: 221 cm ⁴	Iy: 5.6 cm ⁴	LA ROCA		Momento Inercia	Ix: 327 cm ⁴	Iy: 9.4 cm ⁴	NAVARRA
									
					1.2.7				

E554950	Espes.	Sup. Ext.	Sup. Total	Peso	PB10092	Espes.	Sup. Ext.	Sup. Total	Peso
Lama Superior 215x25	1.6 mm	352 dm ² /m	985 dm ² /m	2.181 Kg/m	Lama Superior 215x25	2,0 mm	498 dm ² /m	979 dm ² /m	2.667 Kg/m
	Momento Inercia	Ix: 352 cm ⁴	Iy: 10 cm ⁴	NAVARRA		Momento Inercia	Ix: 420 cm ⁴	Iy: 11.9 cm ⁴	NAVARRA
									
					1.2.8				

PP55061	Espes.	Sup. Ext.	Sup. Total	Peso	PP55038	Espes.	Sup. Ext.	Sup. Total	Peso
Lama Intermedia 165,5x25	2,0 mm	462 dm ² /m	873 dm ² /m	1.856 Kg/m	Lama Intermedia 200x25	1.5 mm	542 dm ² /m	980 dm ² /m	2.030 Kg/m
	Momento Inercia	Ix: 191 cm ⁴	Iy: 7.9 cm ⁴	NAVARRA		Momento Inercia	Ix: 306 cm ⁴	Iy: 9.1 cm ⁴	NAVARRA

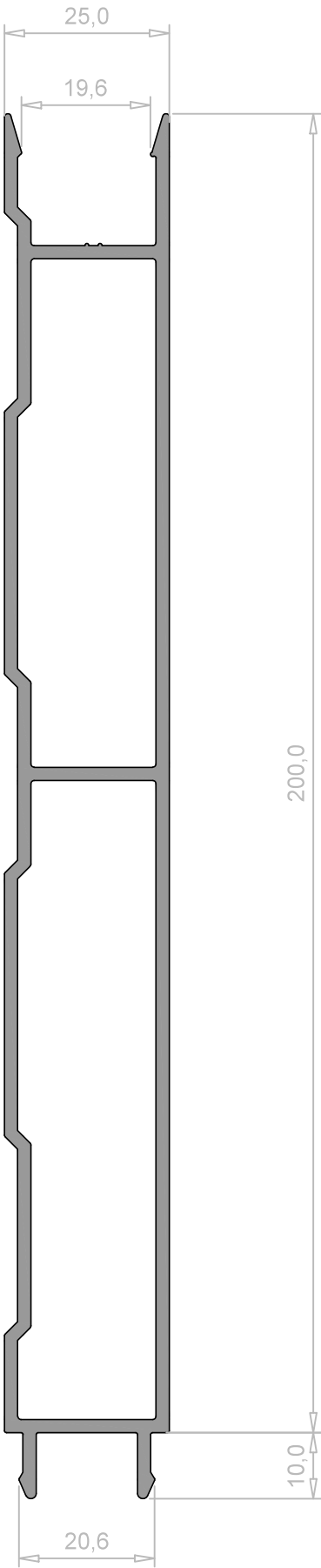
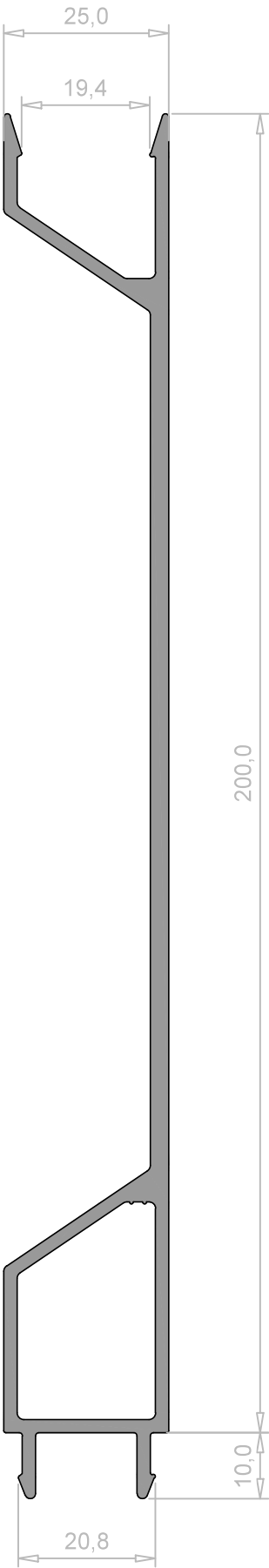


E554951	Espes.	Sup. Ext.	Sup. Total	Peso	PB10091	Espes.	Sup. Ext.	Sup. Total	Peso
Lama Intermedia 200x25	1.6 mm	541 dm ² /m	974 dm ² /m	2.204 Kg/m	Lama Intermedia 200x25	2.0 mm	538 dm ² /m	968 dm ² /m	2.633 Kg/m
	Momento Inercia	Ix: 339 cm ⁴	Iy: 9.8 cm ⁴	NAVARRA		Momento Inercia	Ix: 385 cm ⁴	Iy: 11.5 cm ⁴	NAVARRA

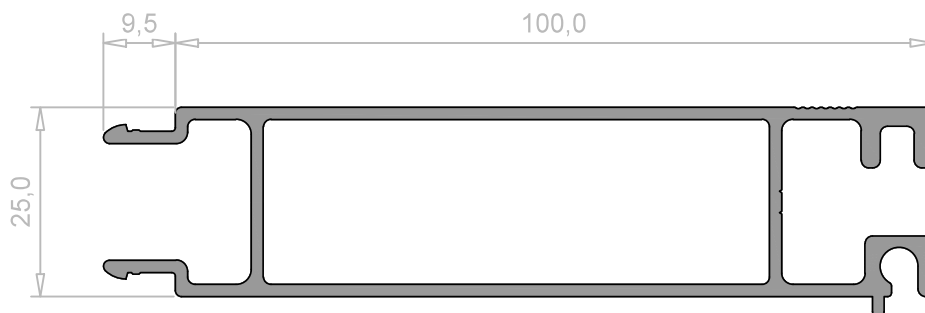


E010912	Espes.	Sup. Ext.	Sup. Total	Peso	PB10090	Espes.	Sup. Ext.	Sup. Total	Peso
Lama Intermedia 200x25	1.7 mm	594 dm ² /m	594 dm ² /m	1.448 Kg/m	Lama Intermedia 200x25.	2.2 mm	587 dm ² /m	587 dm ² /m	1.701 Kg/m
	Momento Inercia	Ix: 276 cm ⁴	Iy: 3,8 cm ⁴	NAVARRA		Momento Inercia	Ix: 300 cm ⁴	Iy: 4 cm ⁴	NAVARRA
extruded by					1.2.11				

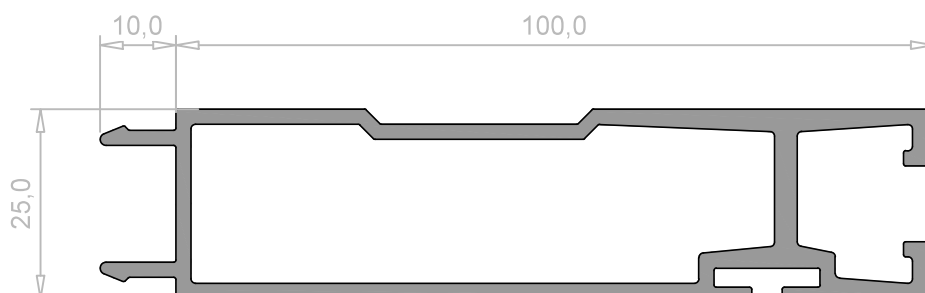
PP55014	Espes.	Sup. Ext.	Sup. Total	Peso	PP55008	Espes.	Sup. Ext.	Sup. Total	Peso
Lama Intermedia 200x25	2.8 mm	551 dm ² /m	650 dm ² /m	2.114 Kg/m	Lama Intermedia 200x25.	2.0 mm	529 dm ² /m	927 dm ² /m	2.609 Kg/m
	Momento Inercia	Ix: 348 cm ⁴	Iy: 5.2 cm ⁴	NAVARRA		Momento Inercia	Ix: 374 cm ⁴	Iy: 10.6 cm ⁴	NAVARRA



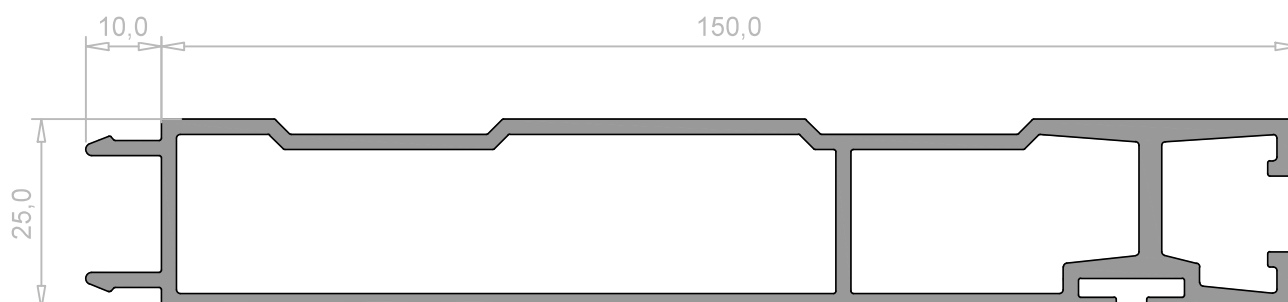
E-60095	Espes.	Sup. Ext.	Sup. Total	Peso
Lama inferior 100x25.	1.6 mm	405 dm ² /m	581 dm ² /m	1.366 Kg/m
	Momento Inercia	Ix: 5.5 cm ⁴	Iy: 62.2 cm ⁴	LA ROCA

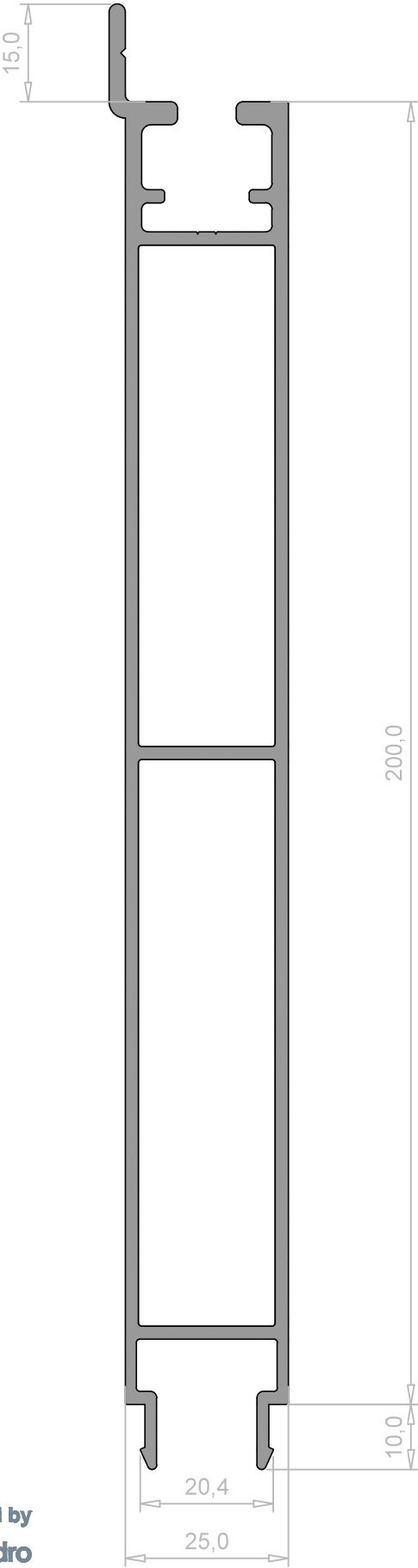
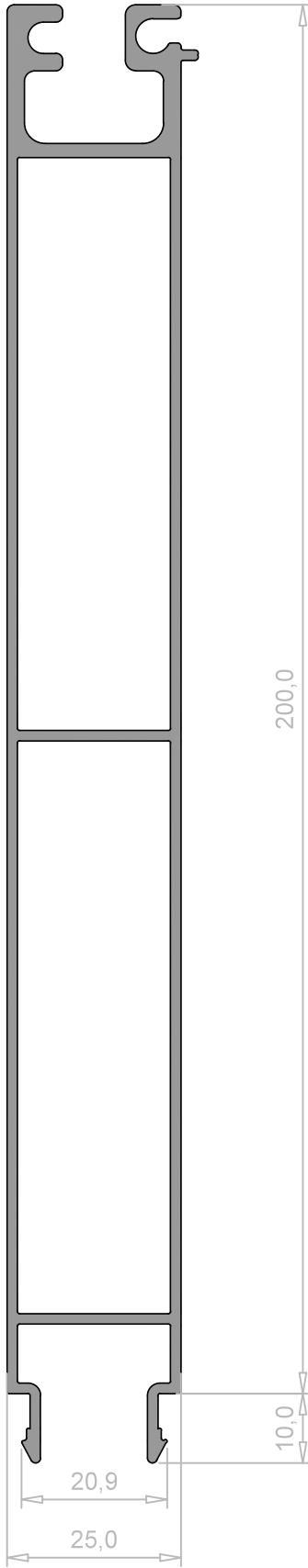


CP5506	Espes.	Sup. Ext.	Sup. Total	Peso
Lama inferior 100x25.	2.0 mm	374 dm ² /m	568 dm ² /m	1.709 Kg/m
	Momento Inercia	Ix: 6.3 cm ⁴	Iy: 73.9 cm ⁴	AVINTES

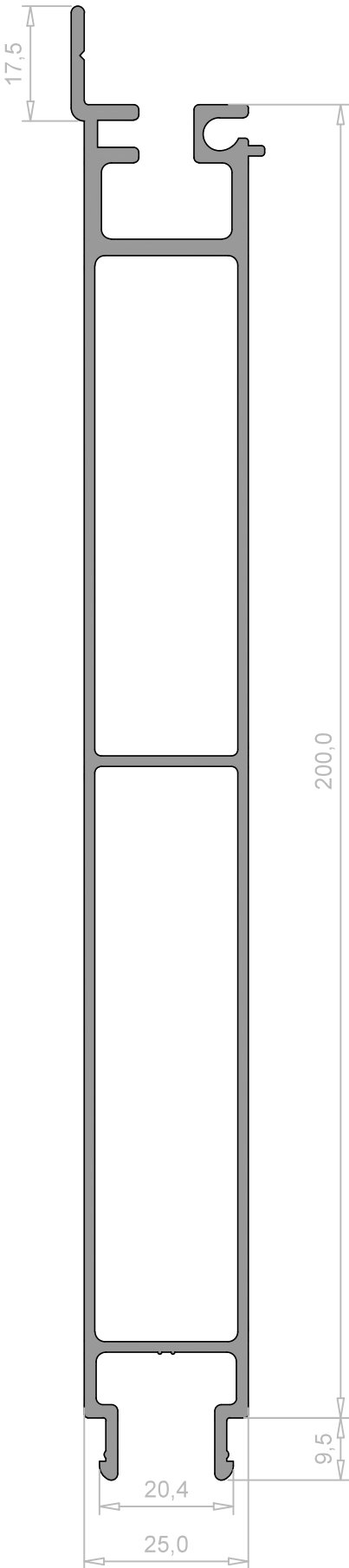


CP5519	Espes.	Sup. Ext.	Sup. Total	Peso
Lama inferior 150x25.	2.0 mm	475 dm ² /m	805 dm ² /m	2.353 Kg/m
	Momento Inercia	Ix: 8.8 cm ⁴	Iy: 215 cm ⁴	AVINTES

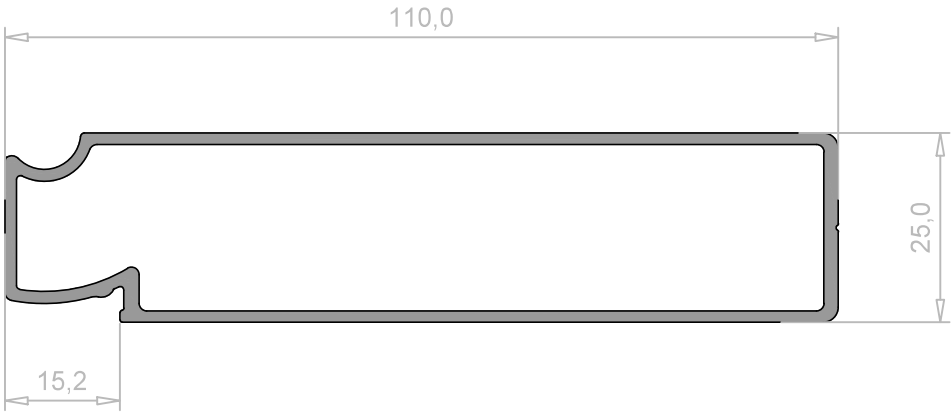


E-60023	Espes.	Sup. Ext.	Sup. Total	Peso	PP55036	Espes.	Sup. Ext.	Sup. Total	Peso
Lama inferior trasera 200x25.	2.0 mm	623 dm ² /m	1033 dm ² /m	2.927 Kg/m	Lama inferior 200x25.	1.5 mm	601 dm ² /m	1018 dm ² /m	2.314 Kg/m
	Momento Inercia	Ix: 480 cm ⁴	Iy: 12.6 cm ⁴	LA ROCA		Momento Inercia	Ix: 386 cm ⁴	Iy: 9.9 cm ⁴	NAVARRA
									
					1.2.14				

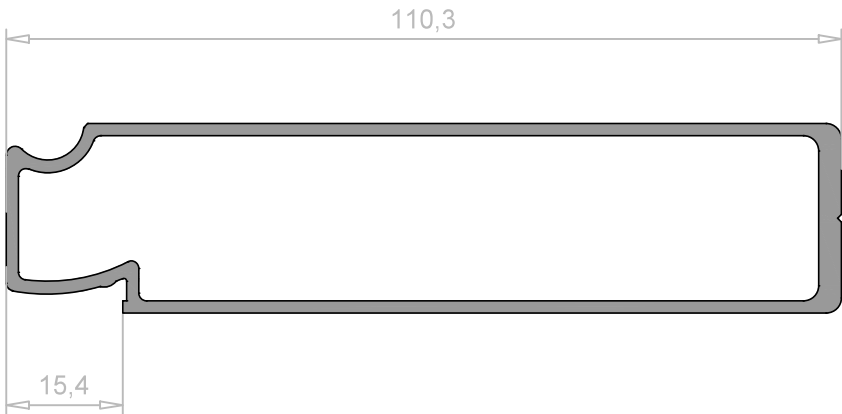
E558189	Espes.	Sup. Ext.	Sup. Total	Peso
Lama inferior 200x25.	1.6 mm	541 dm ² /m	974 dm ² /m	2.479 Kg/m
	Momento Inercia	Ix: 415 cm ⁴	Iy: 10.4 cm ⁴	NAVARRA



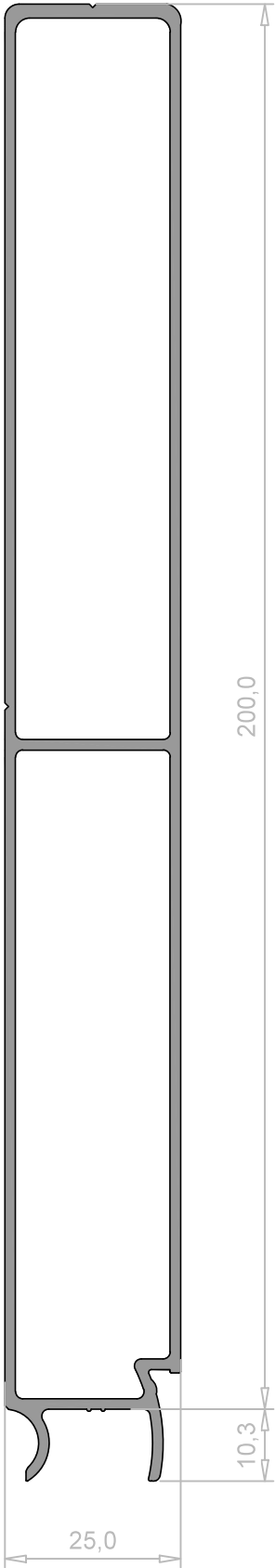
CP5576	Espes.	Sup. Ext.	Sup. Total	Peso
Lama superior 100x25.	1.6 mm	271 dm ² /m	527 dm ² /m	1.121 Kg/m
	Momento Inercia	Ix: 4.6 cm ⁴	Iy: 55.7 cm ⁴	AVINTES



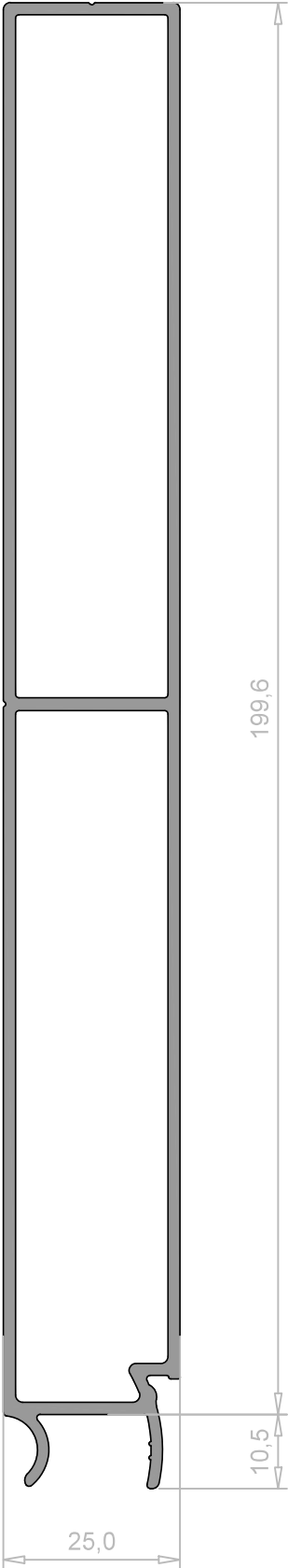
2054472	Espes.	Sup. Ext.	Sup. Total	Peso
Lama Superior 108x25	1.6 mm	271 dm ² /m	523 dm ² /m	1.245 Kg/m
	Momento Inercia	Ix: 5.0 cm ⁴	Iy: 64.1 cm ⁴	NAVARRA



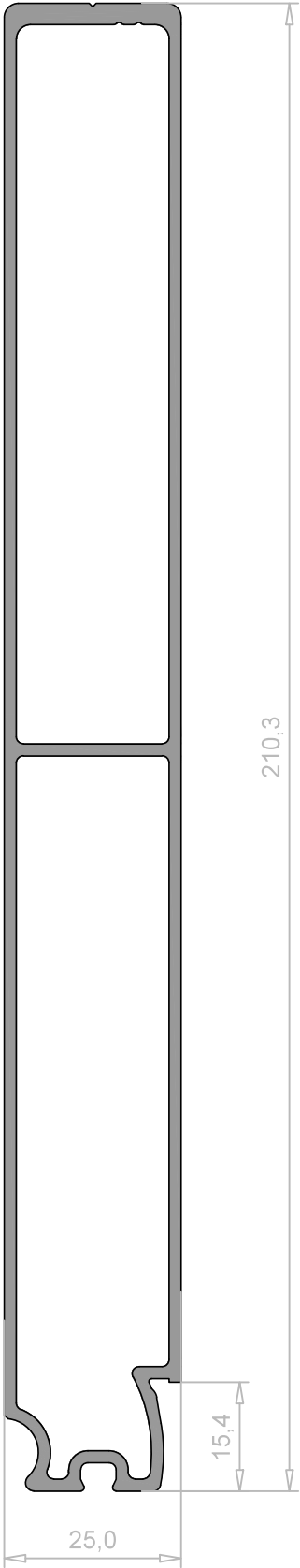
2071767	Espes.	Sup. Ext.	Sup. Total	Peso
Lama superior 200x25.	1.5 mm	491 dm ² /m	966 dm ² /m	2.022 Kg/m
	Momento Inercia	Ix: 315 cm ⁴	Iy: 8.9 cm ⁴	NAVARRA



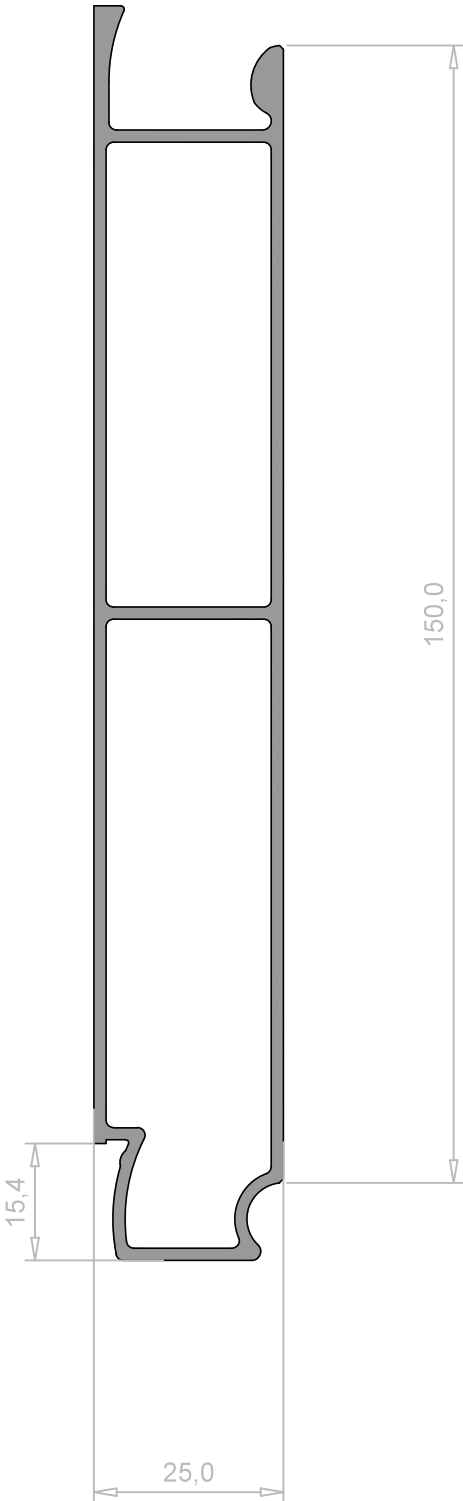
PP55075	Espes.	Sup. Ext.	Sup. Total	Peso
Lama superior 200x25.	1.7 mm	492 dm ² /m	966 dm ² /m	2.250 Kg/m
	Momento Inercia	Ix: 339 cm ⁴	Iy: 9.9 cm ⁴	NAVARRA

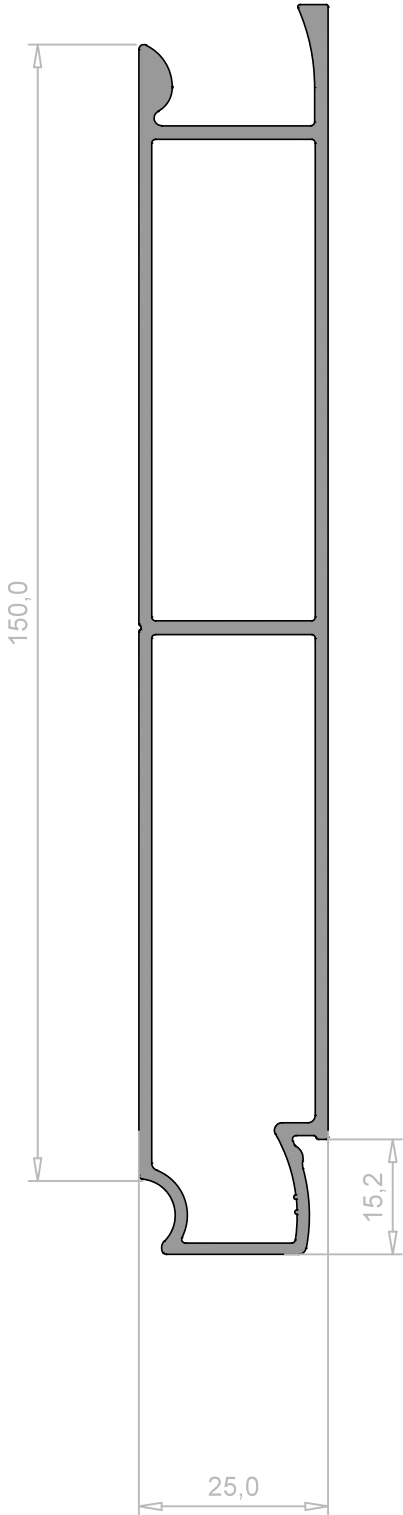
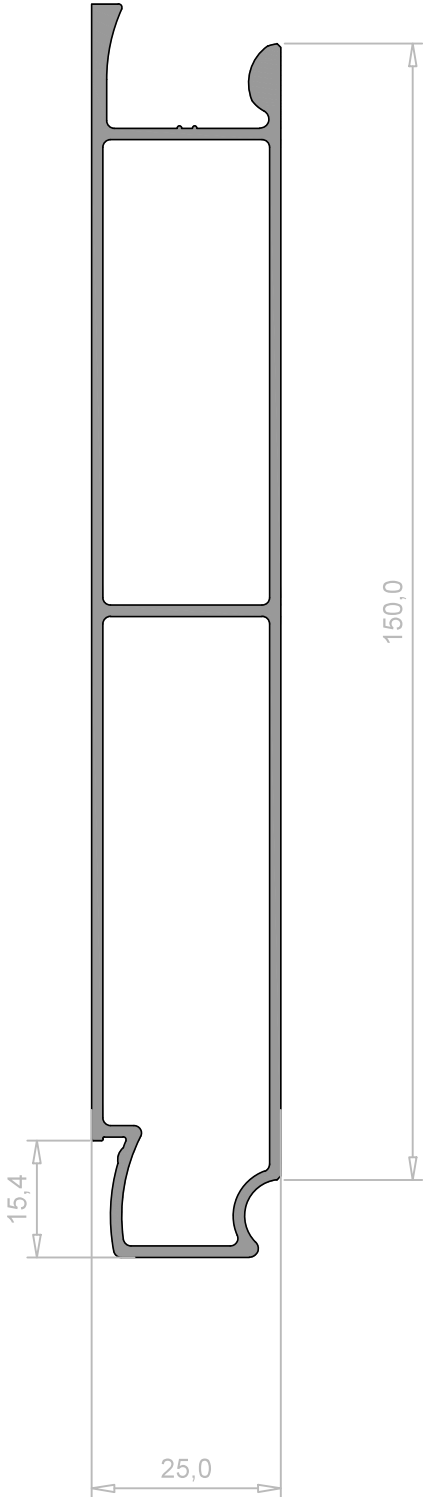


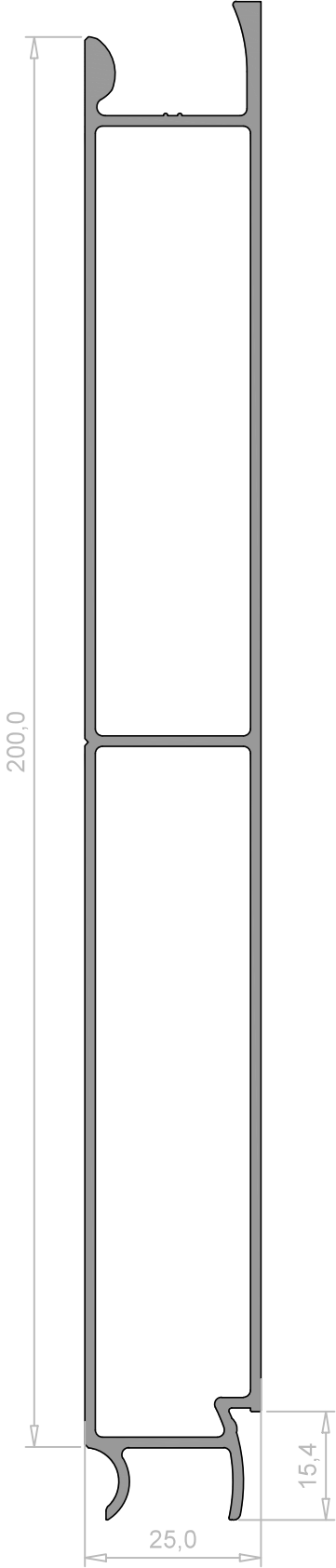
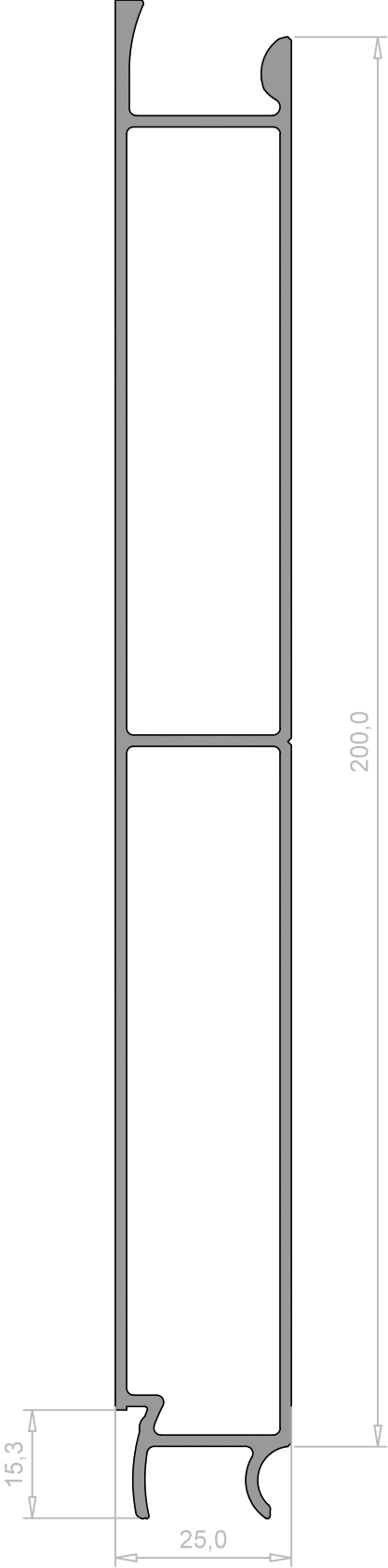
E-60102	Espes.	Sup. Ext.	Sup. Total	Peso
Lama superior 210x25.	1.7 mm	479 dm ² /m	974 dm ² /m	2.360 Kg/m
	Momento Inercia	Ix: 386 cm ⁴	Iy: 10 cm ⁴	LA ROCA

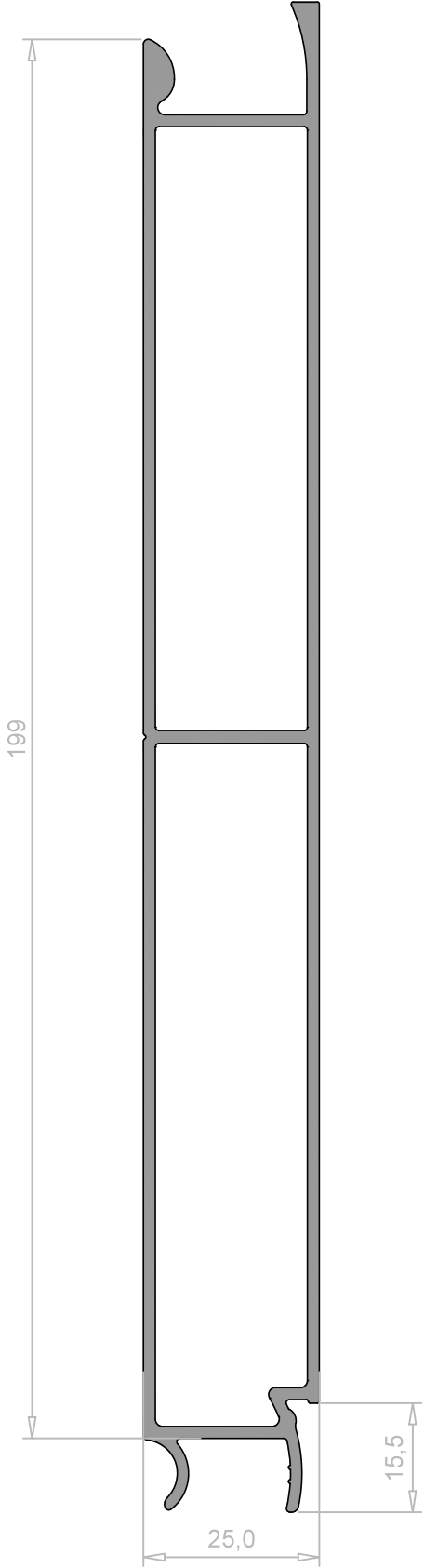
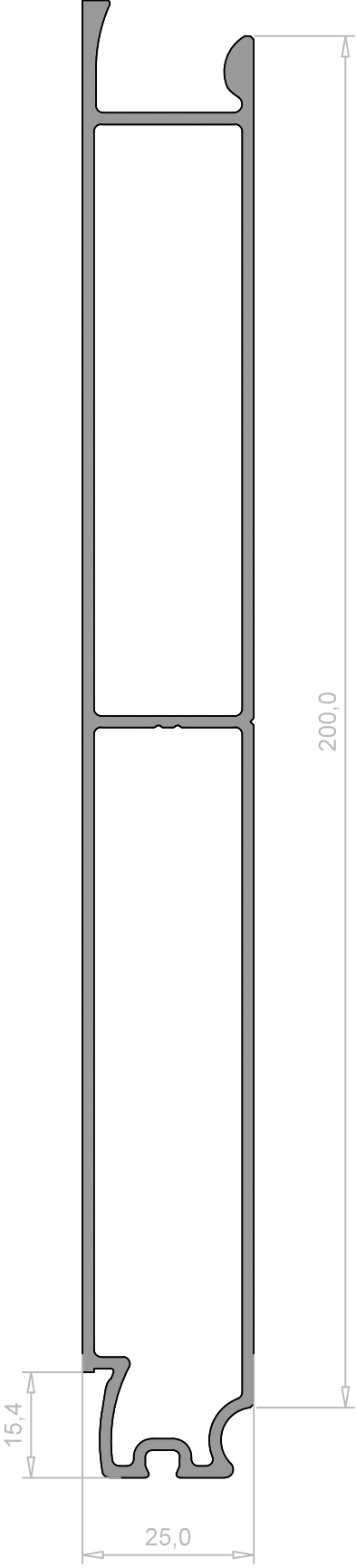


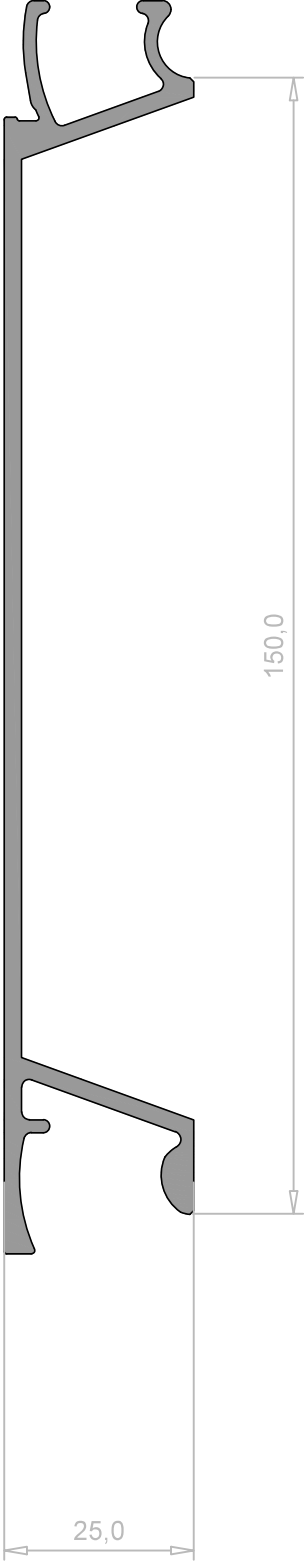
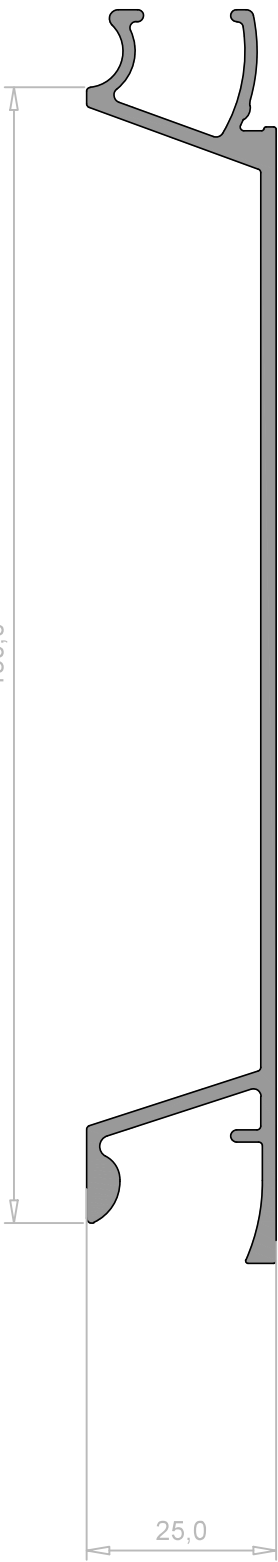
2054477	Espes.	Sup. Ext.	Sup. Total	Peso
Lama intermedia 150x25.	1.6 mm	408 dm ² /m	780 dm ² /m	1.794 Kg/m
	Momento Inercia	Ix: 172 cm ⁴	Iy: 7.6 cm ⁴	NAVARRA

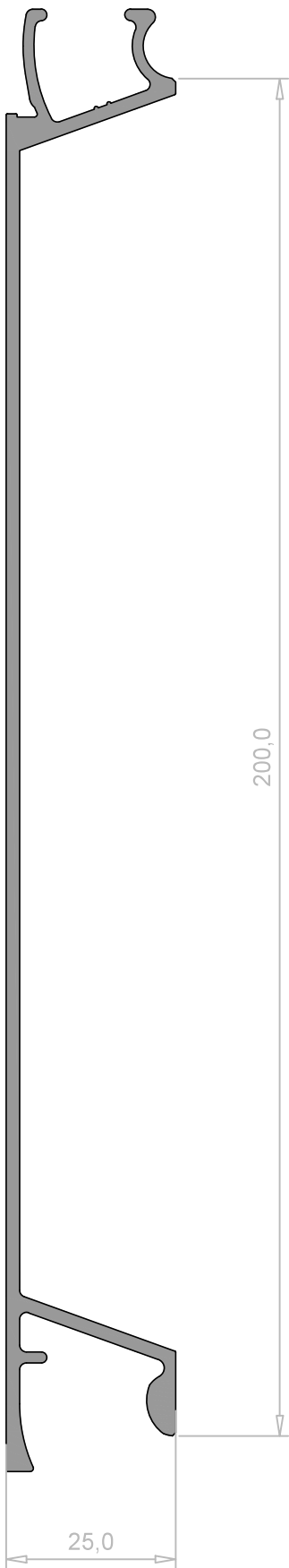
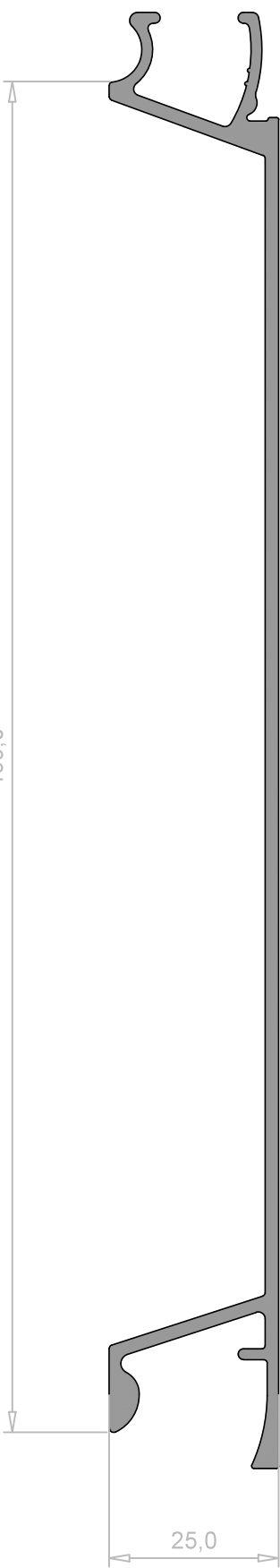


PP55074	Espes.	Sup. Ext.	Sup. Total	Peso	2071768	Espes.	Sup. Ext.	Sup. Total	Peso
Lama intermedia 150x25.	2.0 mm	406 dm ² /m	779 dm ² /m	1.873 Kg/m	Lama intermedia 150x25.	1.5 mm	407 dm ² /m	781 dm ² /m	1.697 Kg/m
	Momento Inercia	Ix: 175 cm ⁴	Iy: 7.9 cm ⁴	NAVARRA		Momento Inercia	Ix: 164 cm ⁴	Iy: 7.2 cm ⁴	NAVARRA
 Technical drawing of the PP55074 profile. It is a vertical section with a total height of 150,0 and a base width of 25,0. The profile features a central rectangular cavity and a smaller rectangular cavity at the bottom. The bottom flange has a height of 15,2.					 Technical drawing of the 2071768 profile. It is a vertical section with a total height of 150,0 and a base width of 25,0. The profile features a central rectangular cavity and a smaller rectangular cavity at the bottom. The bottom flange has a height of 15,4.				
extruded by 					1.2.21				

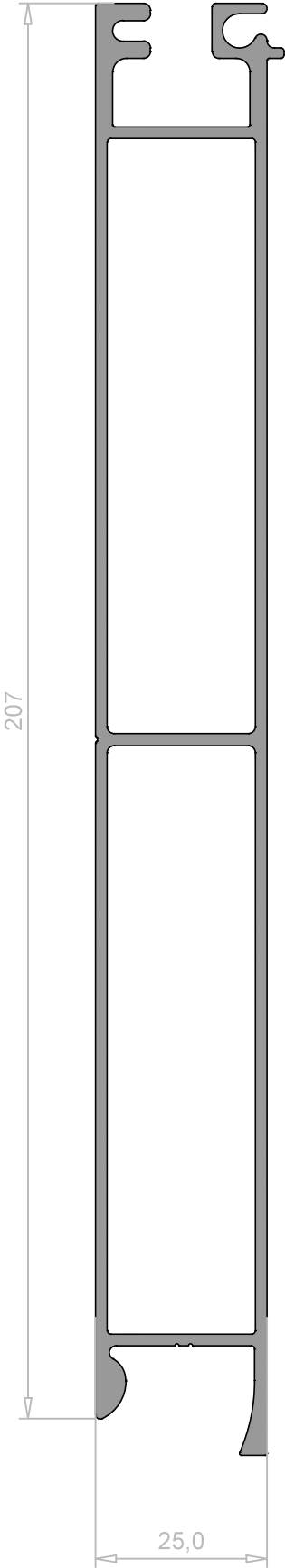
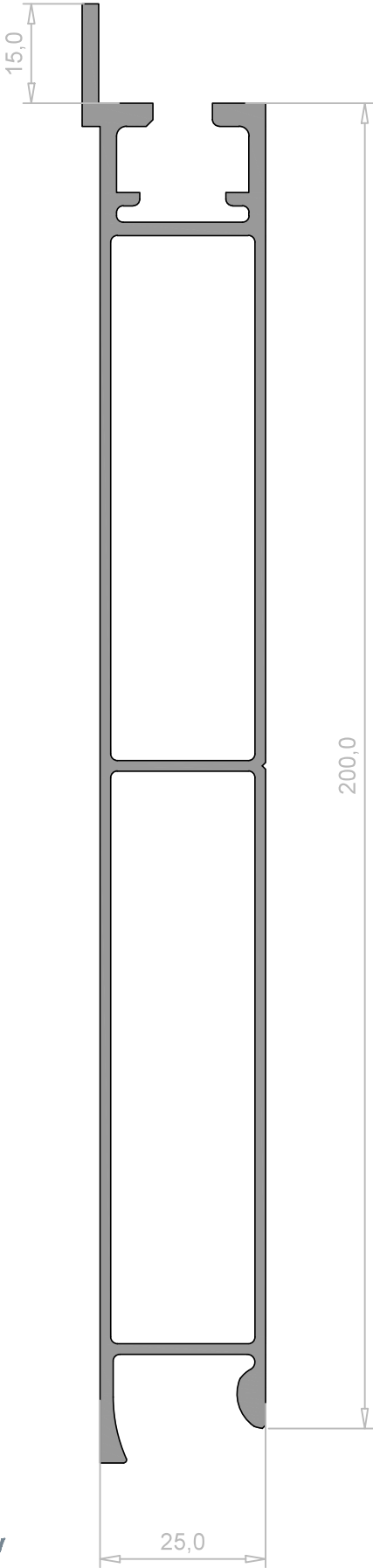
2071766	Espes.	Sup. Ext.	Sup. Total	Peso	2054475	Espes.	Sup. Ext.	Sup. Total	Peso
Lama intermedia 200x25.	1.5 mm	528 dm ² /m	982 dm ² /m	2.109 Kg/m	Lama intermedia 200x25.	1.6 mm	528 dm ² /m	981 dm ² /m	2.240 Kg/m
	Momento Inercia	Ix: 340 cm ⁴	Iy: 9.4 cm ⁴	NAVARRA		Momento Inercia	Ix: 360 cm ⁴	Iy: 9.9 cm ⁴	NAVARRA
									
extruded by 					1.2.22				

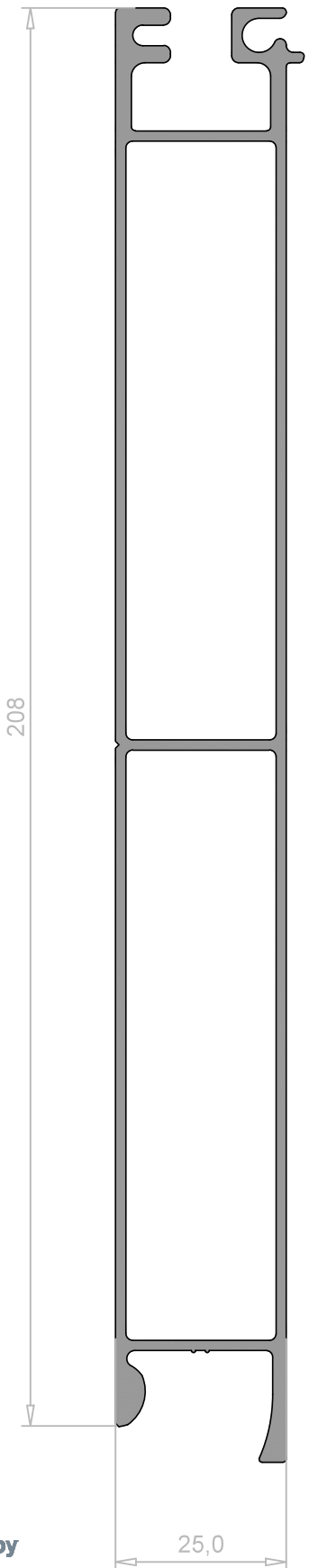
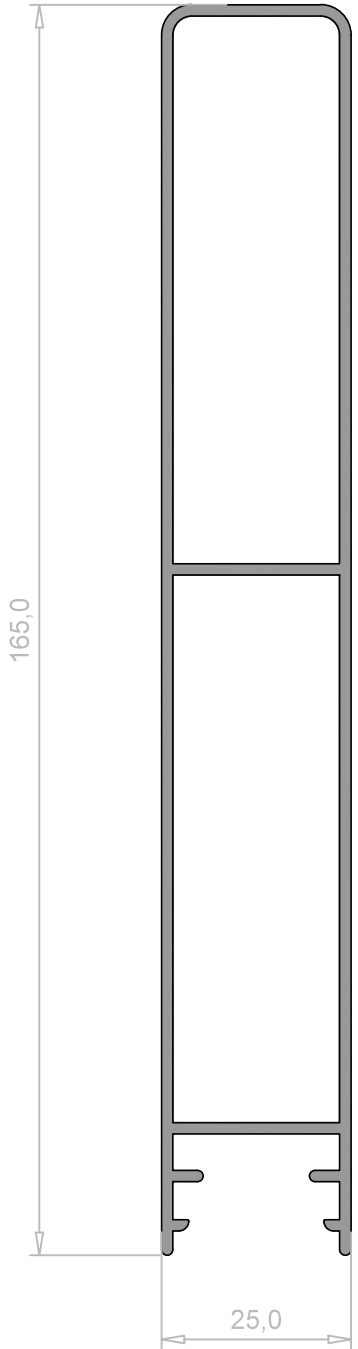
PP55043	Espes.	Sup. Ext.	Sup. Total	Peso	E-60099	Espes.	Sup. Ext.	Sup. Total	Peso
Lama intermedia 200x25.	1.7 mm	525 dm ² /m	976 dm ² /m	2.342 Kg/m	Lama intermedia 200x25.	1.7 mm	516 dm ² /m	992 dm ² /m	2.390 Kg/m
	Momento Inercia	Ix: 366 cm ⁴	Iy: 10.2 cm ⁴	NAVARRA		Momento Inercia	Ix: 391 cm ⁴	Iy: 10.3 cm ⁴	LA ROCA
									
extruded by 					1.2.23				

2054473	Espes.	Sup. Ext.	Sup. Total	Peso	CP5577	Espes.	Sup. Ext.	Sup. Total	Peso
Lama intermedia 150x25.	2.0 mm	486 dm ² /m	486 dm ² /m	1.532 Kg/m	Lama intermedia 150x25.	2.0 mm	490 dm ² /m	490 dm ² /m	1.382 Kg/m
	Momento Inercia	Ix: 174 cm ⁴	Iy: 3.6 cm ⁴	NAVARRA		Momento Inercia	Ix: 161 cm ⁴	Iy: 3.4 cm ⁴	AVINTES
									
					1.2.24				

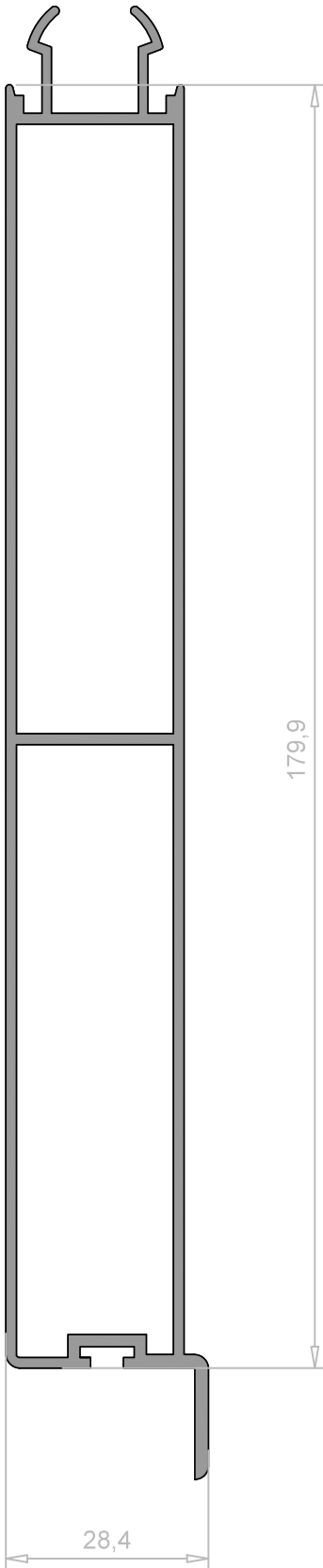
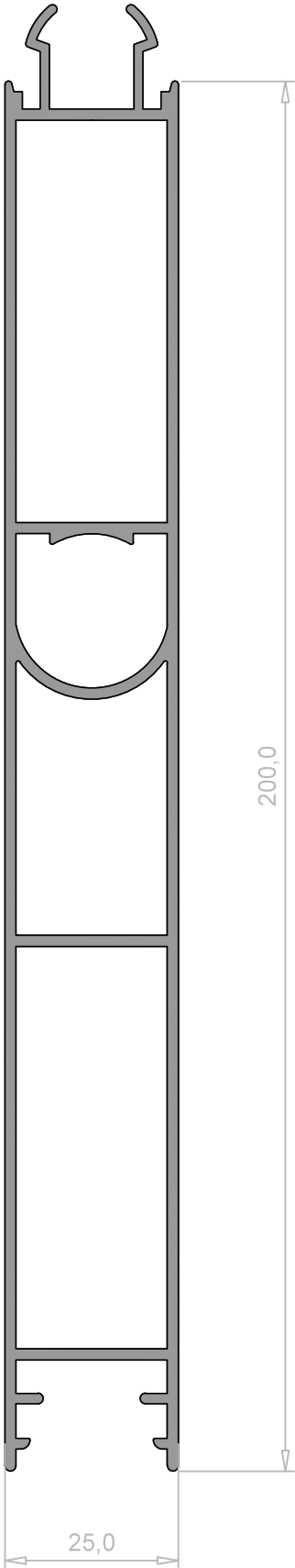
2071765	Espes.	Sup. Ext.	Sup. Total	Peso	PP55042	Espes.	Sup. Ext.	Sup. Total	Peso
Lama intermedia 200x25.	2.0 mm	589 dm ² /m	589 dm ² /m	1.654 Kg/m	Lama inferior trasera 199x25.	2.0 mm	588 dm ² /m	588 dm ² /m	1.644 Kg/m
	Momento Inercia	Ix: 326 cm ⁴	Iy: 3.6 cm ⁴	NAVARRA		Momento Inercia	Ix: 320 cm ⁴	Iy: 3.6 cm ⁴	NAVARRA
									
extruded by 					1.2.25				

2056010	Espes.	Sup. Ext.	Sup. Total	Peso	PP55044	Espes.	Sup. Ext.	Sup. Total	Peso
Lama inferior 200x25.	1.6 mm	588 dm ² /m	1003 dm ² /m	2.505 Kg/m	Lama inferior 207x25.	1.8 mm	578 dm ² /m	1007 dm ² /m	2.517 Kg/m
	Momento Inercia	Ix: 426 cm ⁴	Iy: 11.1 cm ⁴	NAVARRA		Momento Inercia	Ix: 420 cm ⁴	Iy: 11 cm ⁴	NAVARRA

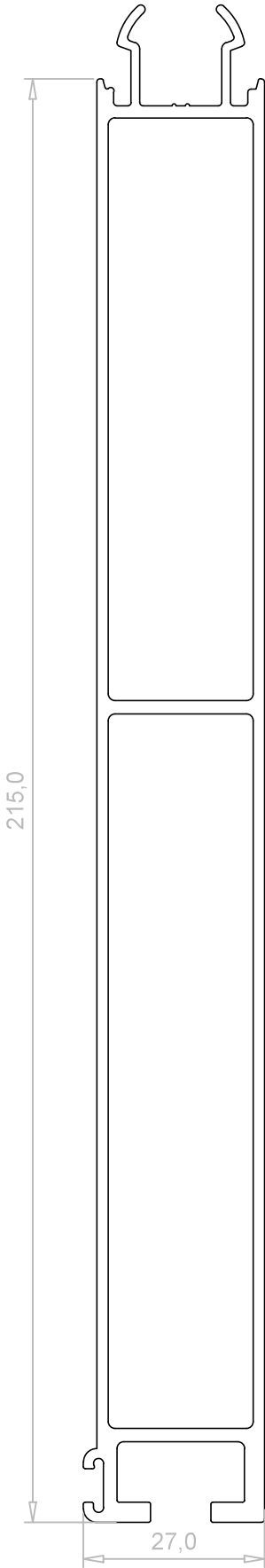
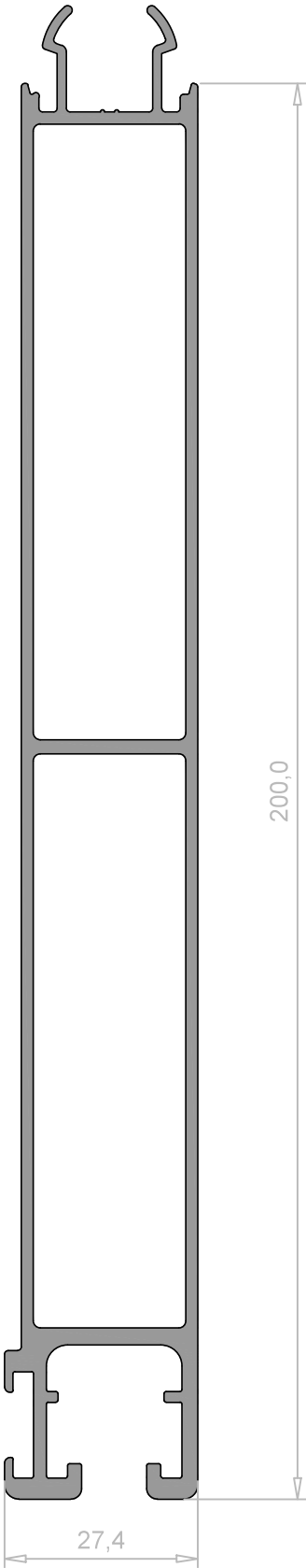


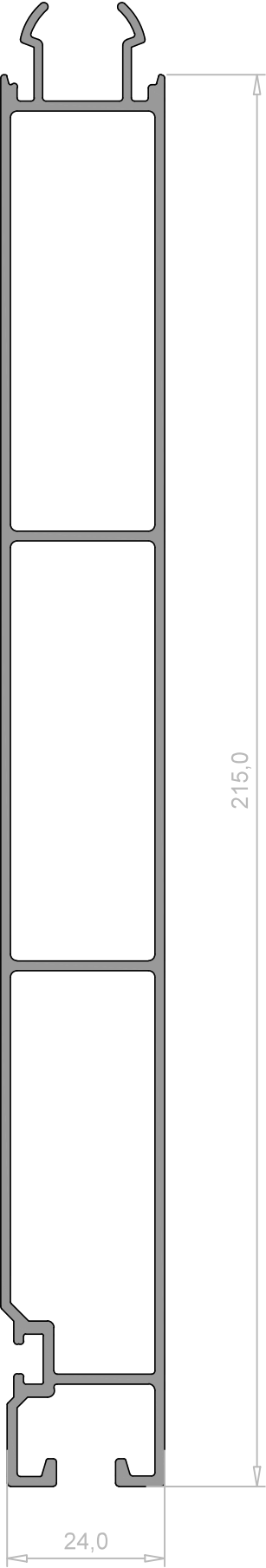
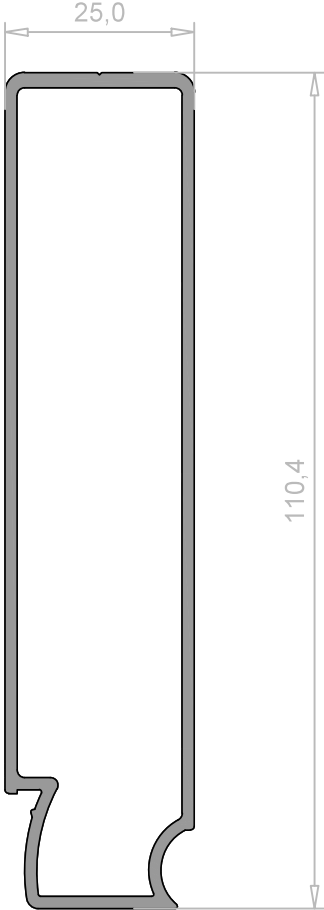
2071769	Espes.	Sup. Ext.	Sup. Total	Peso	M-4055	Espes.	Sup. Ext.	Sup. Total	Peso
Lama inferior 208x25.	1.5 mm	582 dm ² /m	1015 dm ² /m	2.295 Kg/m	Cartola M1 Superior 165x25.	1.5 mm	429 dm ² /m	803 dm ² /m	1.638 Kg/m
	Momento Inercia	Ix: 400 cm ⁴	Iy: 10.1 cm ⁴	NAVARRA		Momento Inercia	Ix: 155 cm ⁴	Iy: 7.3 cm ⁴	LA ROCA
									
extruded by 					1.2.27				

M-3165	Espes.	Sup. Ext.	Sup. Total	Peso	M-4130	Espes.	Sup. Ext.	Sup. Total	Peso
Cartola M1 Intermedia 200x25.	1.6 mm	577 dm ² /m	1090 dm ² /m	2.426 Kg/m	Cartola M1 Inferior 180x25.	1.5 mm	534 dm ² /m	969 dm ² /m	1.997 Kg/m
	Momento Inercia	Ix: 339 cm ⁴	Iy: 10 cm ⁴	LA ROCA		Momento Inercia	Ix: 283 cm ⁴	Iy: 8.8 cm ⁴	la roca

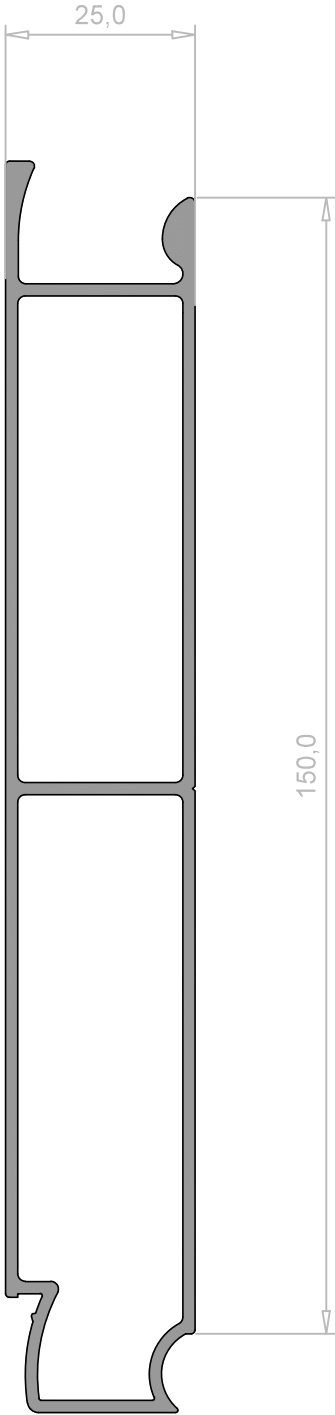
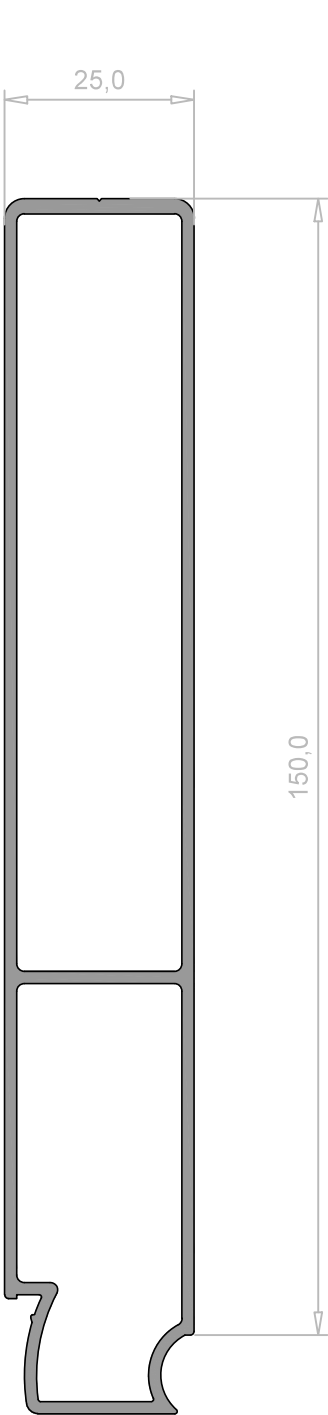


5002812	Espes.	Sup. Ext.	Sup. Total	Peso	5002811	Espes.	Sup. Ext.	Sup. Total	Peso
Cartola M1 Inferior 200x25.	1.7 mm	619 dm ² /m	1037 dm ² /m	2.607 Kg/m	Cartola M1 Inferior 215x25.	1.7 mm	606 dm ² /m	1075 dm ² /m	2.634 Kg/m
	Momento Inercia	Ix: 418 cm ⁴	Iy: 10.8 cm ⁴	NAVARRA		Momento Inercia	Ix: 11.2 cm ⁴	Iy: 485 cm ⁴	NAVARRA

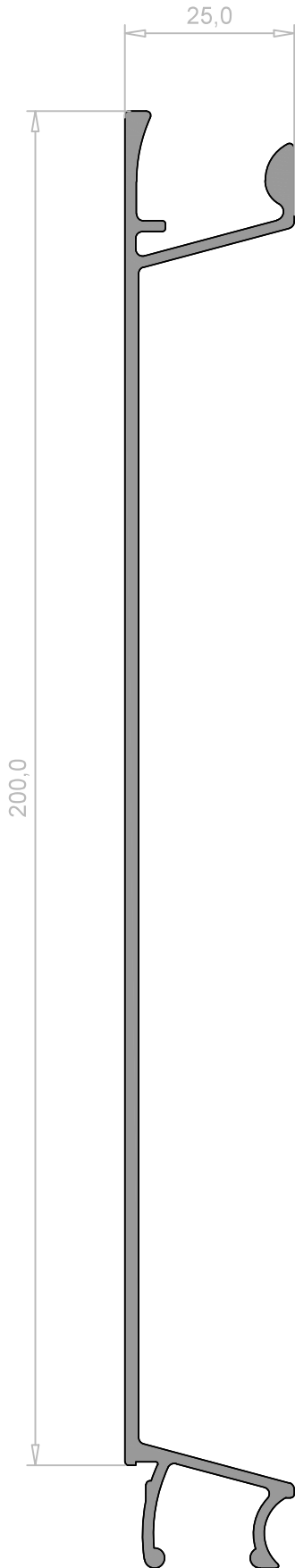
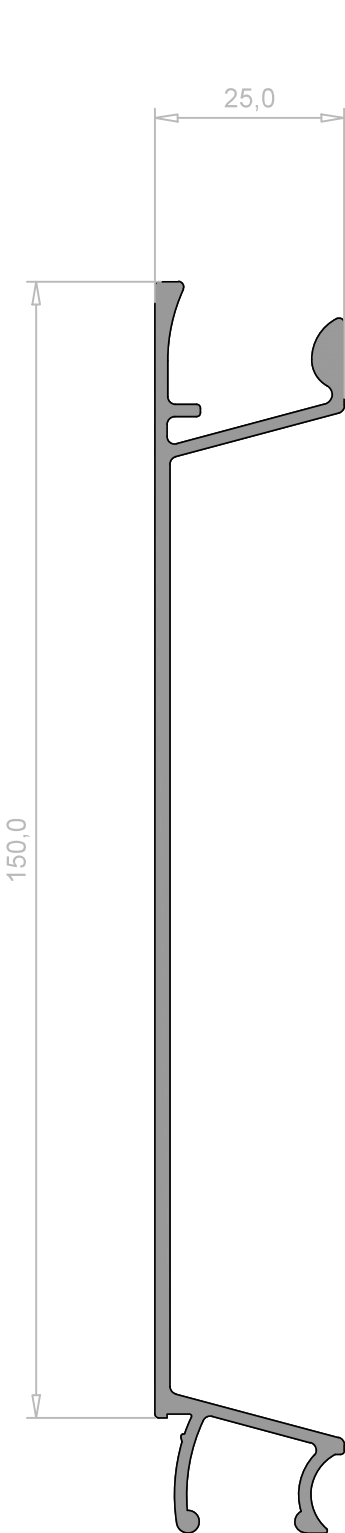


5002340	Espes.	Sup. Ext.	Sup. Total	Peso	M-4341	Espes.	Sup. Ext.	Sup. Total	Peso
Cartola M1 Inferior 215x25.	1.5 mm	621 dm ² /m	1130 dm ² /m	2.355 Kg/m	Cartola M2 Superior 100x25..	1.6 mm	272 dm ² /m	528 dm ² /m	1.171 Kg/m
	Momento Inercia	Ix: 422 cm ⁴	Iy: 9.8 cm ⁴	NAVARRA		Momento Inercia	Ix: 57.8 cm ⁴	Iy: 4.8 cm ⁴	LA ROCA
									
extruded by 					1.2.30				

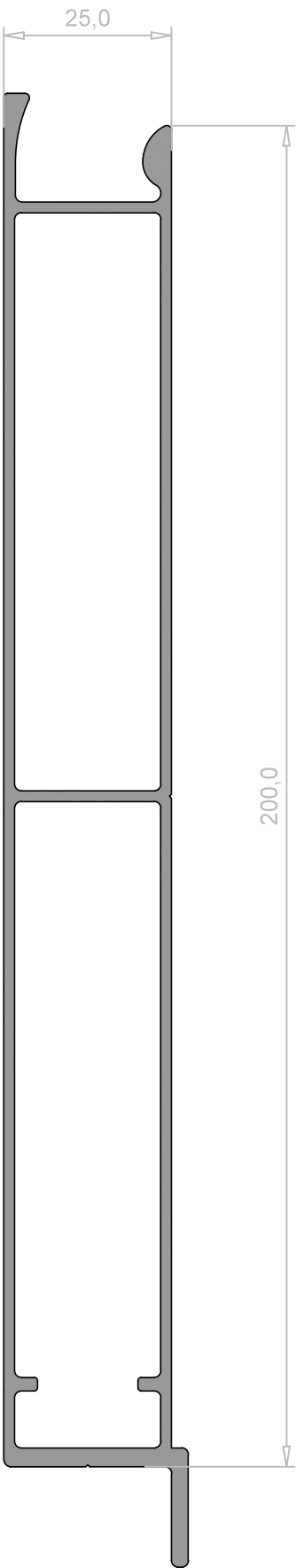
M-4340	Espes.	Sup. Ext.	Sup. Total	Peso	M-4339	Espes.	Sup. Ext.	Sup. Total	Peso
Cartola M2 Superior 150x25.	1.6 mm	372 dm ² /m	764 dm ² /m	1.700 Kg/m	Cartola M2 Intermedia 150x25.	1.6 mm	409 dm ² /m	781 dm ² /m	1.779 Kg/m
	Momento Inercia	Ix: 160 cm ⁴	Iy: 7.2 cm ⁴	LA ROCA		Momento Inercia	Ix: 169 cm ⁴	Iy: 7.6 cm ⁴	LA ROCA

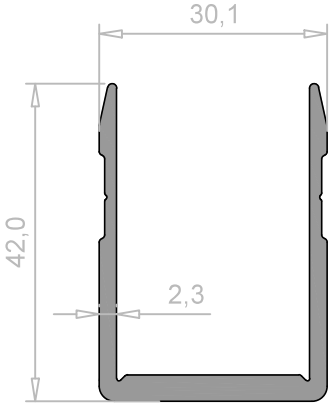
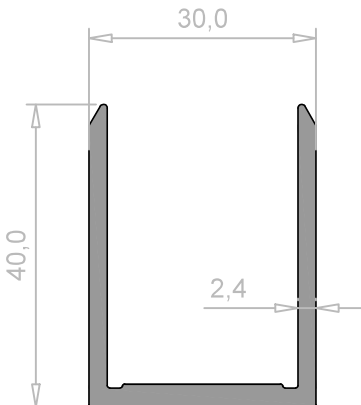
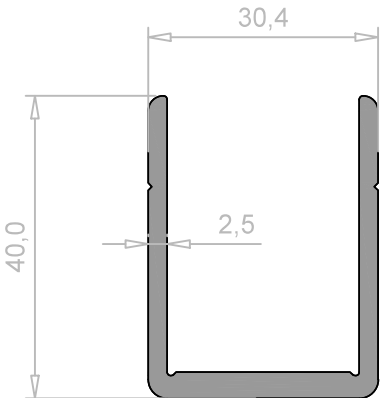
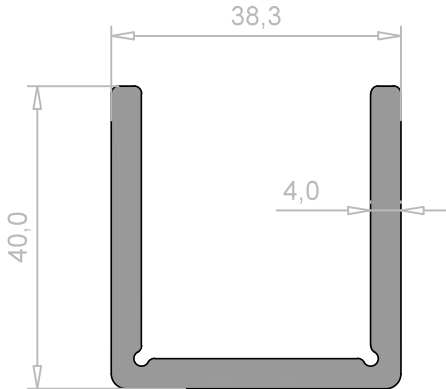
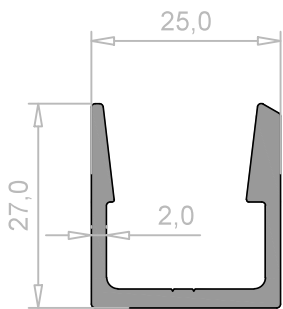
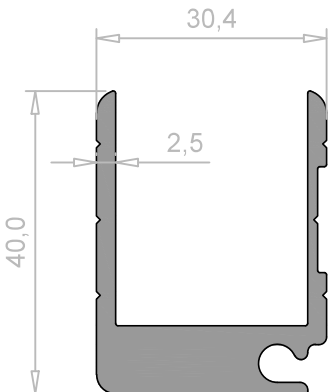


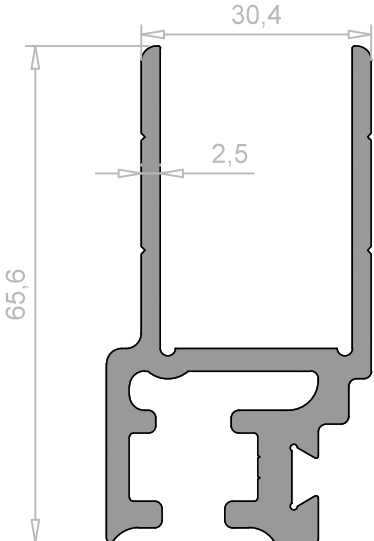
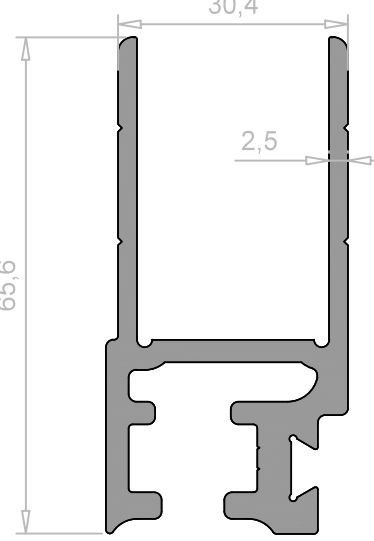
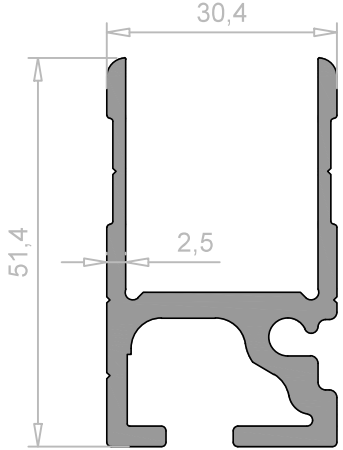
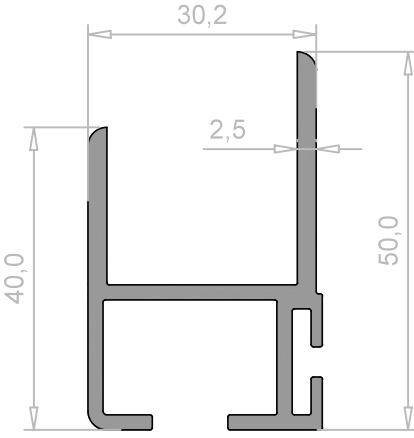
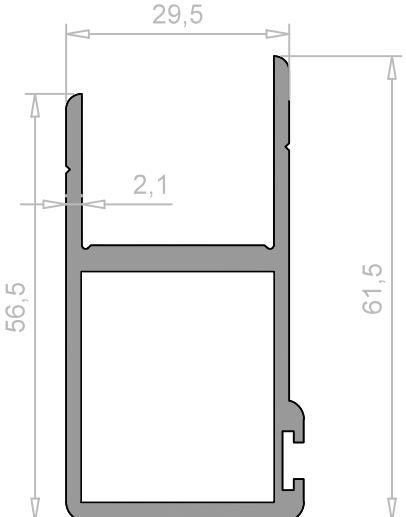
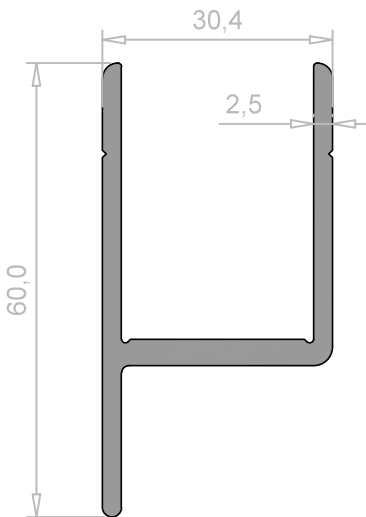
M-4240	Espes.	Sup. Ext.	Sup. Total	Peso	M-4247	Espes.	Sup. Ext.	Sup. Total	Peso
Cartola M2 Anillas 150x25.	1.6 mm	487 dm ² /m	487 dm ² /m	1.287 Kg/m	Cartola M2 Anillas 200x25.	1.6 mm	587 dm ² /m	587 dm ² /m	1.557 Kg/m
	Momento Inercia	Ix: 146 cm ⁴	Iy: 3.1 cm ⁴	LA ROCA		Momento Inercia	Ix: 298 cm ⁴	Iy: 3.3 cm ⁴	LA ROCA

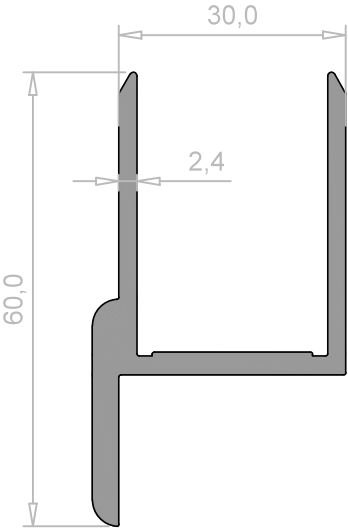
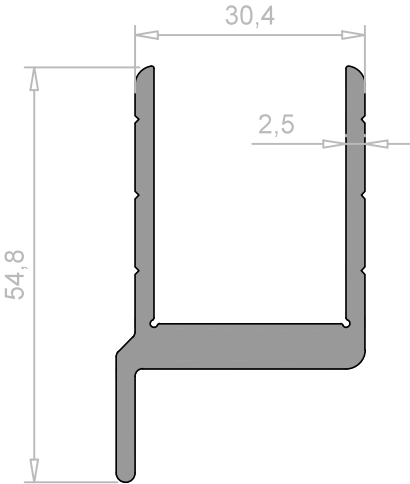
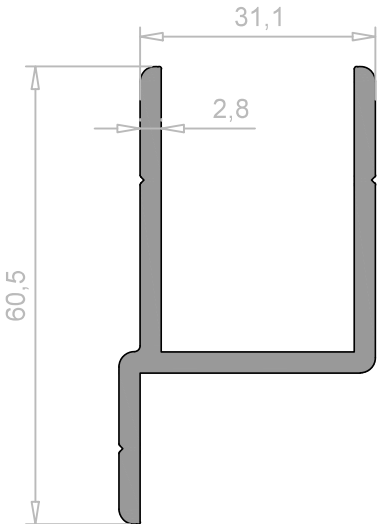
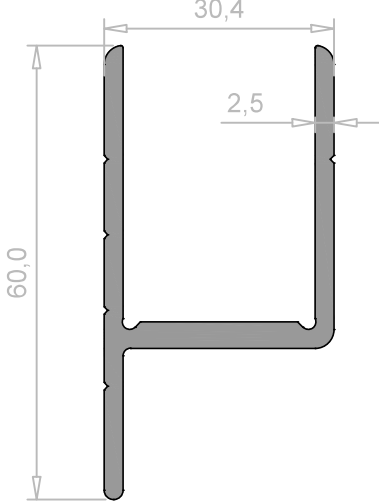
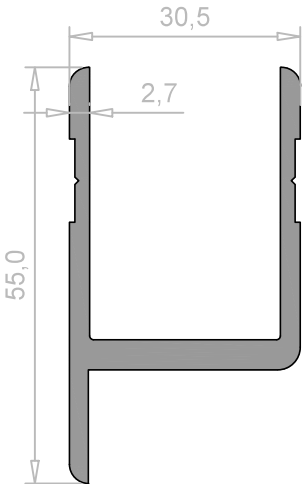
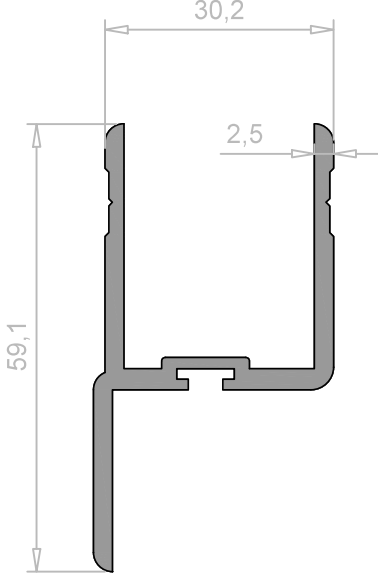


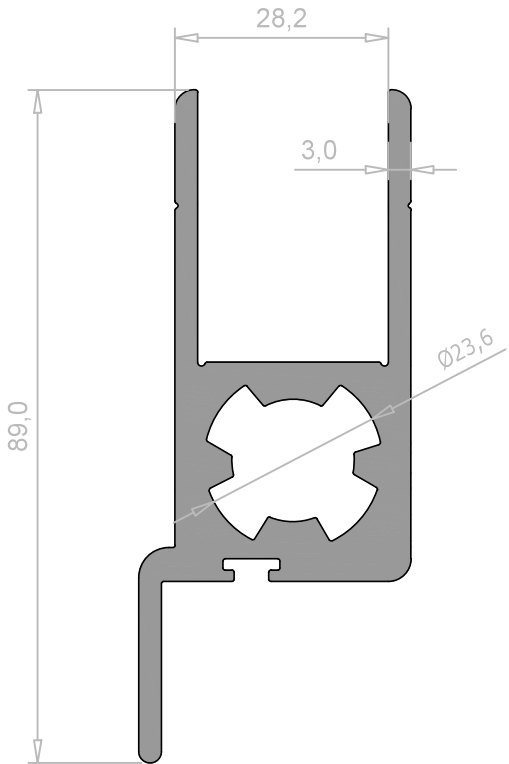
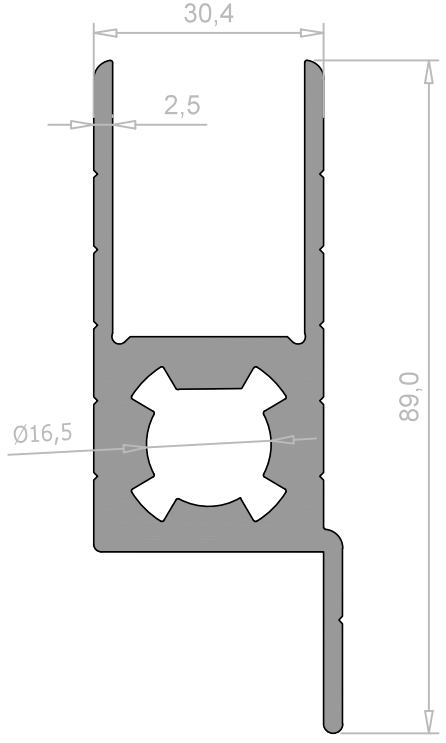
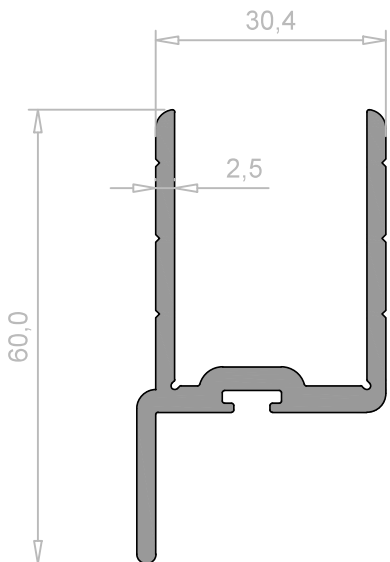
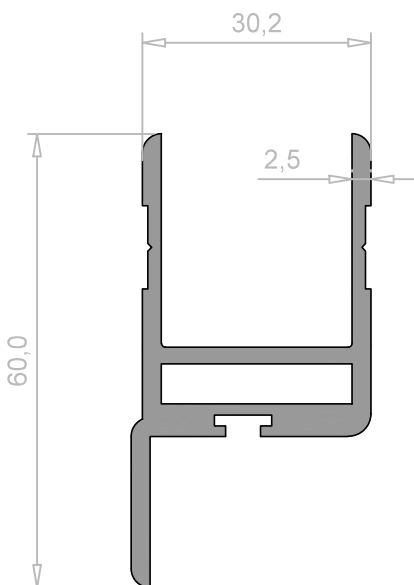
M-4293	Espes.	Sup. Ext.	Sup. Total	Peso
Cartola M2 Trasera 200x25.	1.6 mm	518 dm ² /m	978 dm ² /m	2.337 Kg/m
	Momento Inercia	Ix: 391 cm ⁴	Iy: 10.5 cm ⁴	LA ROCA

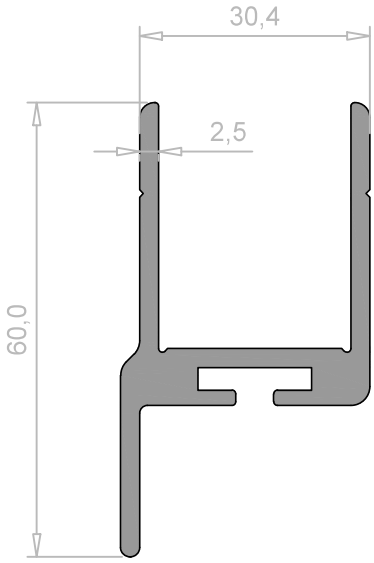
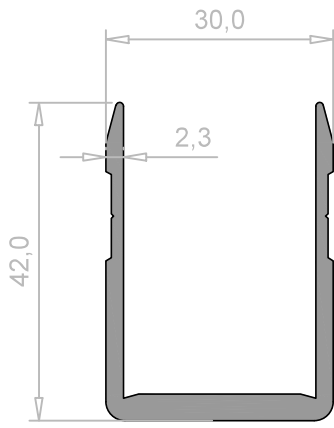
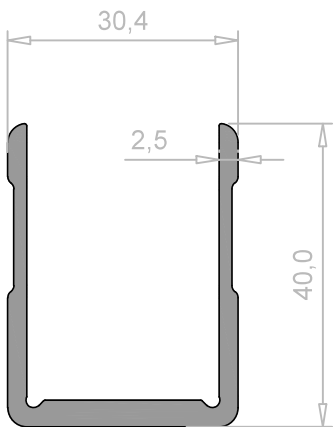


CP5572	Espes.	Sup. Ext.	Sup. Total	Peso	CP5503	Espes.	Sup. Ext.	Sup. Total	Peso
Terminal en U	2.3 mm	220 dm ² /m	220 dm ² /m	0.693 Kg/m	Terminal en U	2.4 mm	212 dm ² /m	212 dm ² /m	1.172 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	AVINTES		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	AVINTES
									
E-5470	Espes.	Sup. Ext.	Sup. Total	Peso	HST8153	Espes.	Sup. Ext.	Sup. Total	Peso
Terminal en U	2.5 mm	211 dm ² /m	211 dm ² /m	0.764 Kg/m	Terminal en U	4.0 mm	230 dm ² /m	230 dm ² /m	1.172 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA
									
E-60072	Espes.	Sup. Ext.	Sup. Total	Peso	2054479	Espes.	Sup. Ext.	Sup. Total	Peso
Terminal en U	2.0 mm	154 dm ² /m	154 dm ² /m	0.502 Kg/m	Terminal Kinnegrip	2.5 mm	217 dm ² /m	217 dm ² /m	0.982 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA
									
					1.2.34				

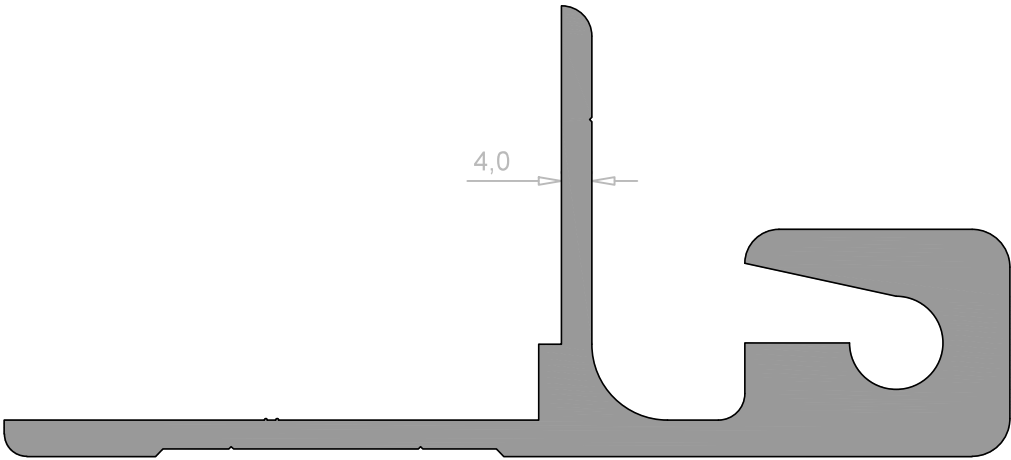
E-60025	Espes.	Sup. Ext.	Sup. Total	Peso	E-8140	Espes.	Sup. Ext.	Sup. Total	Peso
Terminal Kinnegrip	2.5 mm	375 dm ² /m	375 dm ² /m	1.534 Kg/m	Terminal Kinnegrip	2.5 mm	370 dm ² /m	370 dm ² /m	1.502 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA
									
2055017	Espes.	Sup. Ext.	Sup. Total	Peso	CP5520	Espes.	Sup. Ext.	Sup. Total	Peso
Terminal Kinnegrip	2.5 mm	304 dm ² /m	304 dm ² /m	1.107 Kg/m	Terminal Tubular	2.5 mm	286 dm ² /m	286 dm ² /m	0.833 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	AVINTES
									
E-5529	Espes.	Sup. Ext.	Sup. Total	Peso	E-5651	Espes.	Sup. Ext.	Sup. Total	Peso
Terminal Tubular	2.1 mm	234 dm ² /m	346 dm ² /m	1.075 Kg/m	Terminal Puerta Libro	2.5 mm	251 dm ² /m	251 dm ² /m	0.902 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA
									
					1.2.35				

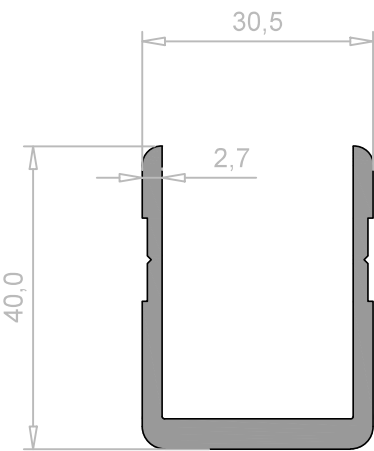
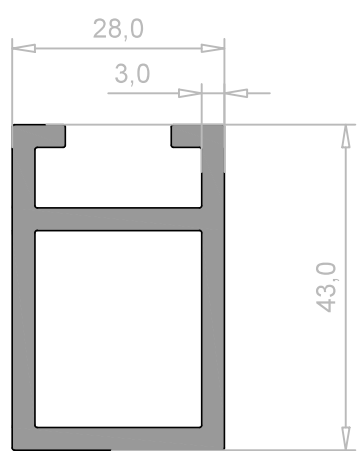
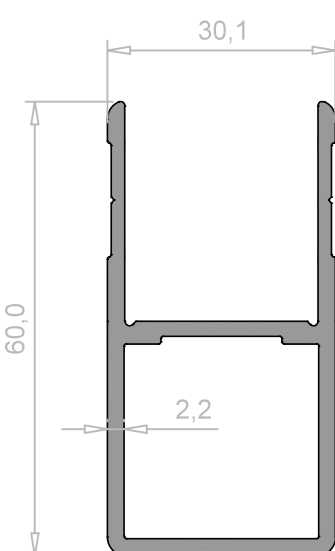
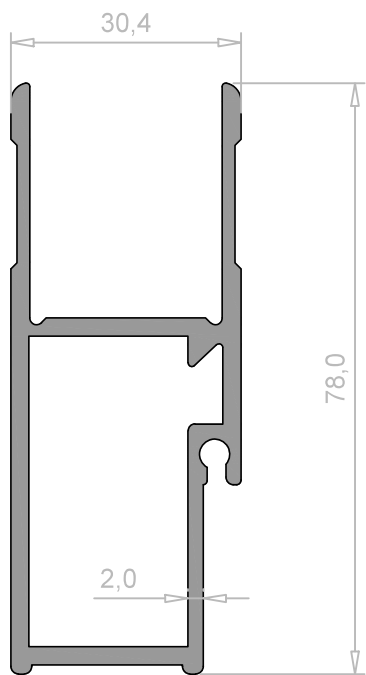
CP5504	Espes.	Sup. Ext.	Sup. Total	Peso	2054470	Espes.	Sup. Ext.	Sup. Total	Peso
Terminal Puerta Libro	2.4 mm	256 dm ² /m	256 dm ² /m	0.974 Kg/m	Terminal Puerta Libro	2.5 mm	243 dm ² /m	243 dm ² /m	1.055 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	AVINTES		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA
									
E800032	Espes.	Sup. Ext.	Sup. Total	Peso	2054999	Espes.	Sup. Ext.	Sup. Total	Peso
Terminal Puerta Libro	2.8 mm	260 dm ² /m	260 dm ² /m	0.964 Kg/m	Terminal Puerta Libro	2.5 mm	253 dm ² /m	253 dm ² /m	0.890 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA
									
E700358	Espes.	Sup. Ext.	Sup. Total	Peso	M-4863	Espes.	Sup. Ext.	Sup. Total	Peso
Terminal Puerta Libro	2.7 mm	242 dm ² /m	242 dm ² /m	0.887 Kg/m	Terminal Pestaña y Junta	2.5 mm	257 dm ² /m	257 dm ² /m	0.794 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA
									
					1.2.36				

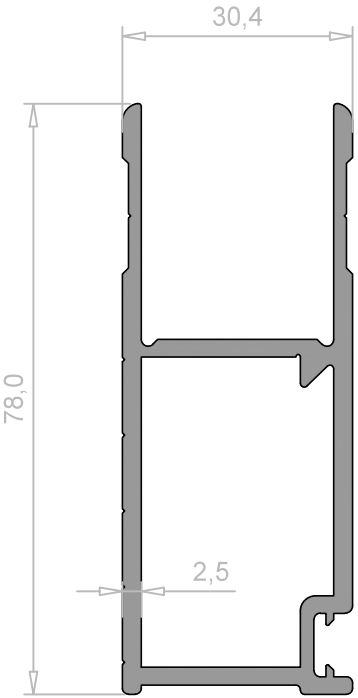
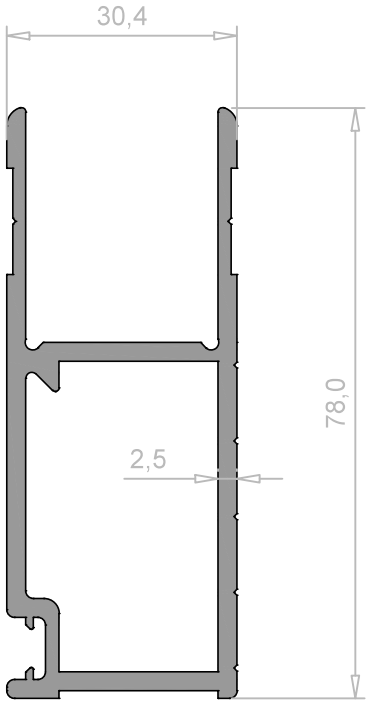
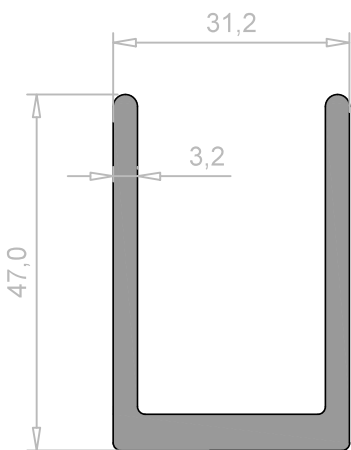
5002342	Espes.	Sup. Ext.	Sup. Total	Peso	2054998	Espes.	Sup. Ext.	Sup. Total	Peso
Central Puerta Libro	3.0 mm	327 dm ² /m	414 dm ² /m	2.302 Kg/m	Central Puerta Libro	2.5 mm	319 dm ² /m	408 dm ² /m	2.200 Kg/m
	Momento Inercia	Ix: . cm ⁴	Iy: . cm ⁴	NAVARRA		Momento Inercia	Ix: . cm ⁴	Iy: . cm ⁴	NAVARRA
									
2068544	Espes.	Sup. Ext.	Sup. Total	Peso	M-2383	Espes.	Sup. Ext.	Sup. Total	Peso
Terminal Pestaña y Junta	2.5 mm	272 dm ² /m	272 dm ² /m	0.944 Kg/m	Terminal Pestaña y Junta	2.5 mm	249 dm ² /m	306 dm ² /m	1.023 Kg/m
	Momento Inercia	Ix: . cm ⁴	Iy: . cm ⁴	NAVARRA		Momento Inercia	Ix: . cm ⁴	Iy: . cm ⁴	LA ROCA
									
					1.2.37				

E-5471	Espes.	Sup. Ext.	Sup. Total	Peso	M-3905	Espes.	Sup. Ext.	Sup. Total	Peso
Terminal Pestaña y Junta	2.5 mm	275 dm ² /m	275 dm ² /m	1.069 Kg/m	Terminal Remate	2.3 mm	219 dm ² /m	219 dm ² /m	0.687 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA
									
2058748	Espes.	Sup. Ext.	Sup. Total	Peso					
Terminal Remate	2.5 mm	213 dm ² /m	213 dm ² /m	0.694 Kg/m					
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA					
									
					1.2.38				

CB2701	Espes.	Sup. Ext.	Sup. Total	Peso
Terminal con alojamiento	4.0 mm	475 dm ² /m	475 dm ² /m	3.972 Kg/m
	Momento Inercia	Ix: . cm ⁴	Iy: . cm ⁴	AVINTES



E700357	Espes.	Sup. Ext.	Sup. Total	Peso	CP5516	Espes.	Sup. Ext.	Sup. Total	Peso
Terminal Remate	2.7 mm	212 dm ² /m	212 dm ² /m	0.784 Kg/m	Terminal Remate	3.0 mm	178 dm ² /m	274 dm ² /m	1.118 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	AVINTES
									
2057574	Espes.	Sup. Ext.	Sup. Total	Peso	M-4237	Espes.	Sup. Ext.	Sup. Total	Peso
Terminal Puerta	2.2 mm	237 dm ² /m	341 dm ² /m	0.996 Kg/m	Cierre Gallego	2.0 mm	291 dm ² /m	427 dm ² /m	1.300 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA
									
					1.2.40				

M-4236	Espes.	Sup. Ext.	Sup. Total	Peso	2055707	Espes.	Sup. Ext.	Sup. Total	Peso
Cierre Normal	2.5 mm	296 dm ² /m	431 dm ² /m	1.340 Kg/m	Cierre Normal	2.5 mm	299 dm ² /m	434 dm ² /m	1.366 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA
									
M-2140	Espes.	Sup. Ext.	Sup. Total	Peso					
Tope PL	3.2 mm	236 dm ² /m	236 dm ² /m	1.132 Kg/m					
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA					
									

2. LONAS Y SEMI-LONAS

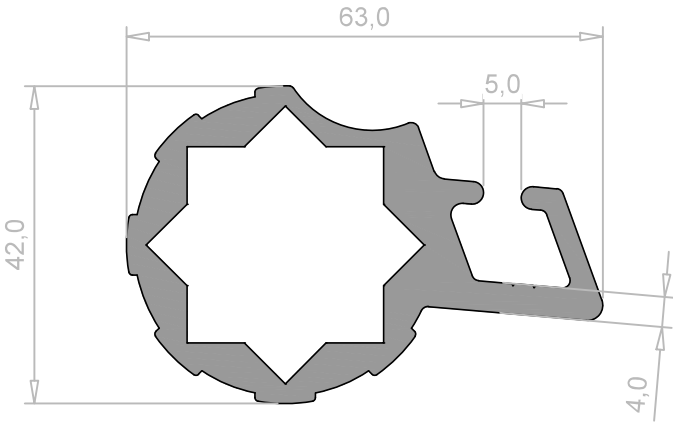
2.1- LISTADO

Listado

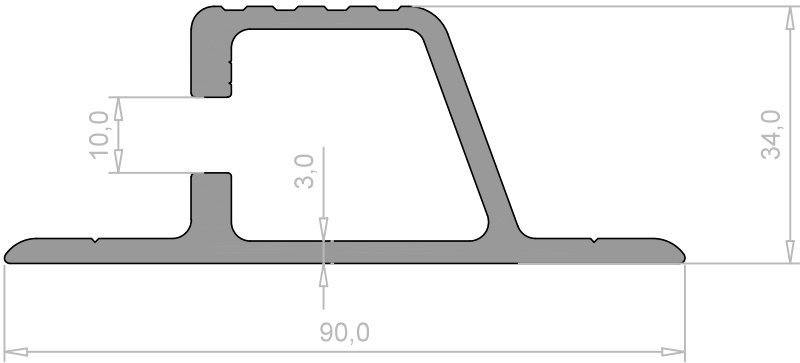
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2.2- PERFILES 1:1

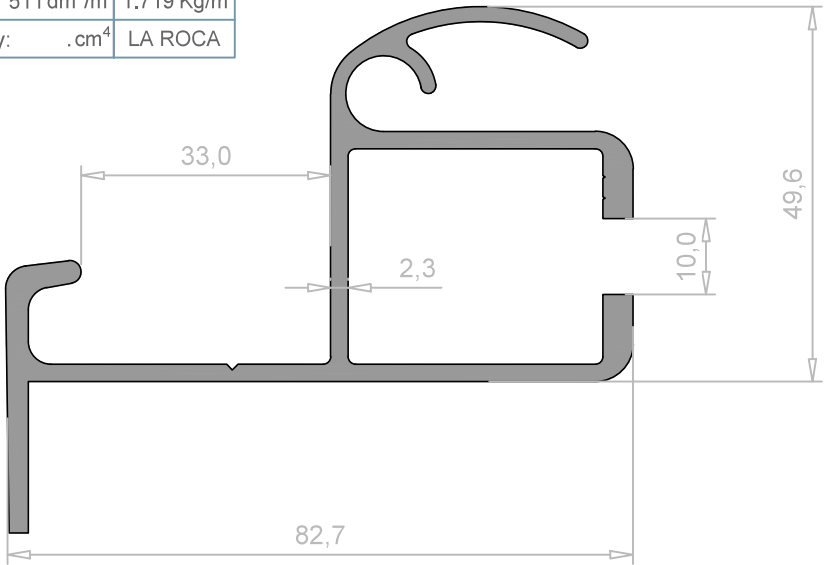
E-60005	Espes.	Sup. Ext.	Sup. Total	Peso
Enrollador Lonas	4.0 mm	221 dm ² /m	343 dm ² /m	1.914 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA



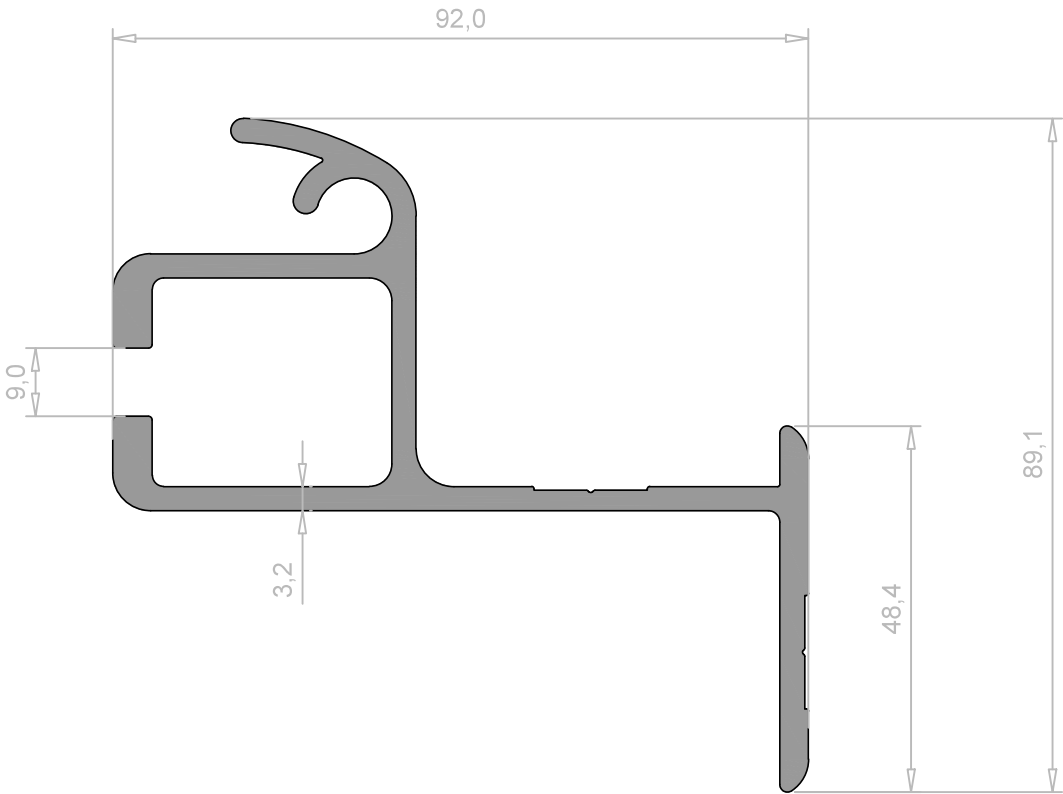
E-60107	Espes.	Sup. Ext.	Sup. Total	Peso
Carril Toldos	3.0 mm	337 dm ² /m	337 dm ² /m	1.533 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA



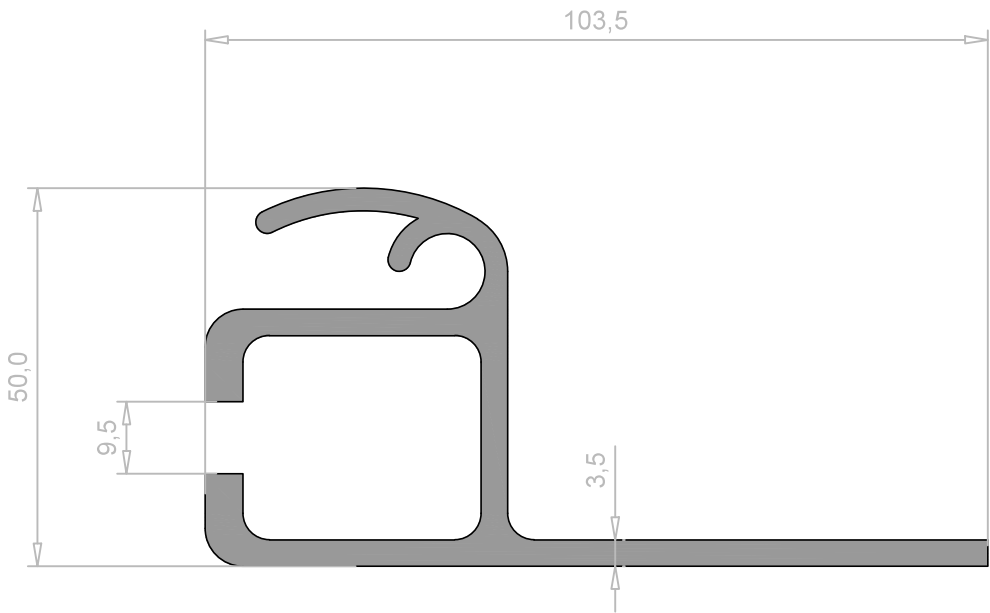
E-60056	Espes.	Sup. Ext.	Sup. Total	Peso
Carril	2.3 mm	511 dm ² /m	511 dm ² /m	1.719 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA



CP5568	Espes.	Sup. Ext.	Sup. Total	Peso
Carril	3.2 mm	514 dm ² /m	514 dm ² /m	2.413 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	AVINTES



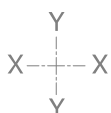
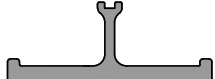
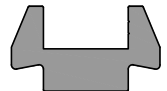
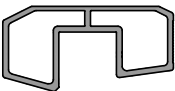
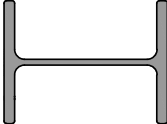
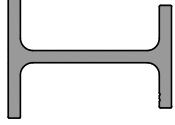
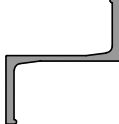
5000316	Espes.	Sup. Ext.	Sup. Total	Peso
Carril	3.5 mm	465 dm ² /m	465 dm ² /m	2.270 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA



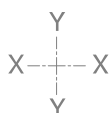
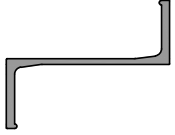
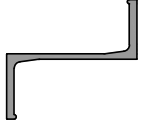
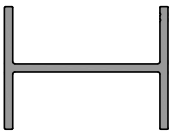
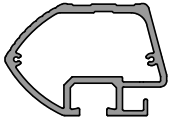
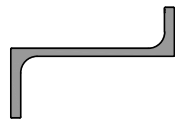
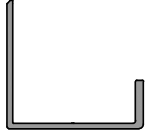
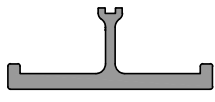
3. PLATAFORMA Y CHASIS

3.1- LISTADO

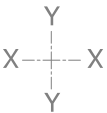
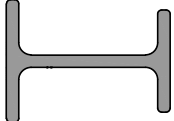
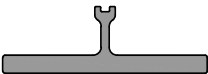
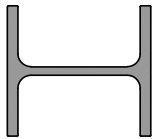
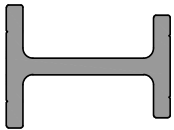
Listado

Perfil	Sección 	Descripción	Peso Kg./m	Superficie Exterior (dm ² /m) Total (dm ² /m)	Momento Inercia Ix (cm ⁴) Iy (cm ⁴)	Pág.
2056005 NAVARRA		Cerco Inferior de 145x90	4,635	582 582	120 483	3.2.2
2070578 NAVARRA		Traviesa de 80x42	2,336	299 299	6,6 84	3.2.9
E-5811 LA ROCA		Larguero de 133.	3,392	473 473	24,6 410	3.2.15
E-9312 LA ROCA		Fijación para Largueros	1,686	162 162	- -	3.2.19
E-12557 LA ROCA E012721 NAVARRA		T de Chasis de 170x68	8,682	507 507	75,2 684	3.2.7
E-60038 LA ROCA		Fijación para Paragolpes	1,015	125 125	- -	3.2.19
E-60060 LA ROCA		Cerco de 120	4,036	399 774	49,9 216	3.2.3
E-60069 LA ROCA		Larguero de 180	5,610	642 642	68,9 1024	3.2.17
E-60073 LA ROCA		Traviesa de 200x150	14,162	955 955	724 3796	3.2.11
E-60082 LA ROCA		Traviesa de 80x60x50	2,976	358 358	17,2 109	3.2.12
E-60085 LA ROCA		Larguero de 100	3,483	415 415	25,4 268	3.2.14

Listado

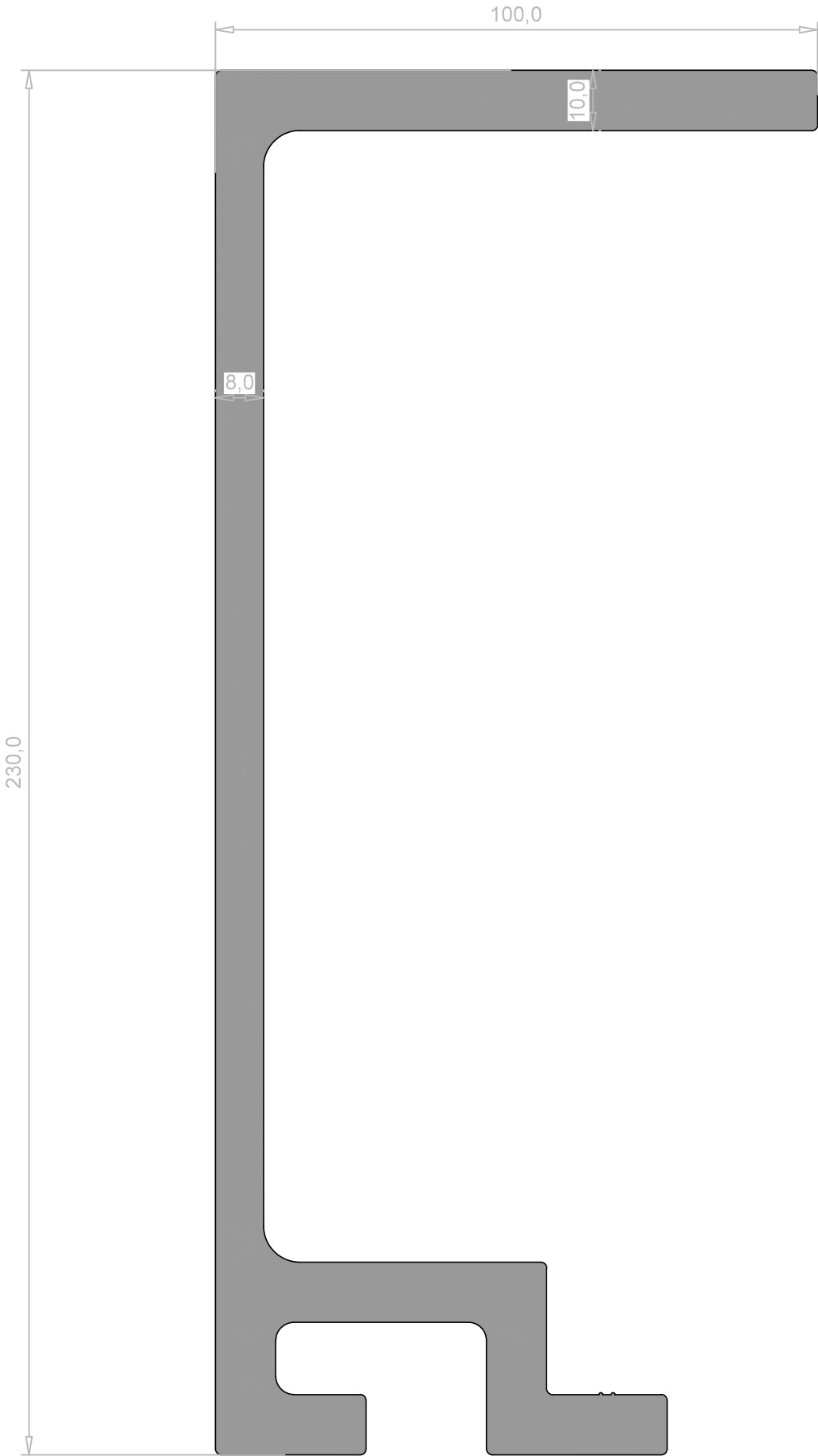
Perfil	Sección 	Descripción	Peso Kg./m	Superficie Exterior (dm ² /m) Total (dm ² /m)	Momento Inercia Ix (cm ⁴) Iy (cm ⁴)	Pág.
E-60086 LA ROCA		Larguero de 140	4,142	494 494	32,6 519	3.2.15
E-60087 LA ROCA		Larguero de 120	3,871	454 454	29,7 379	3.2.14
E-60088 LA ROCA		Larguero de 160	5,071	533 533	39,1 771	3.2.16
E-60090 LA ROCA		Traviesa de 80x60	2,081	389 389	14,3 81,8	3.2.9
E-60093 LA ROCA		Paragolpes de 130	6,146	516 883	203 337	3.2.19
E-60111 LA ROCA		Larguero de 200	9,949	653 653	122 2233	3.2.18
E-60112 LA ROCA		Cerco Plataforma de 102x69	3,132	446 446	39,1 182	3.2.3
E010356 NAVARRA		Cerco Chasis de 150x60	5,819	567 567	113 704	3.2.4
E010535 NAVARRA		Cerco Chasis de 155x146	6,050	692 692	388 853	3.2.5
E010776 NAVARRA		T de Chasis de 170x67,5	7,855	520 520	75,2 684	3.2.6
E010777 NAVARRA		Cerco Inferior de 230x100	10,432	855 855	284 3015	3.2.1

Listado

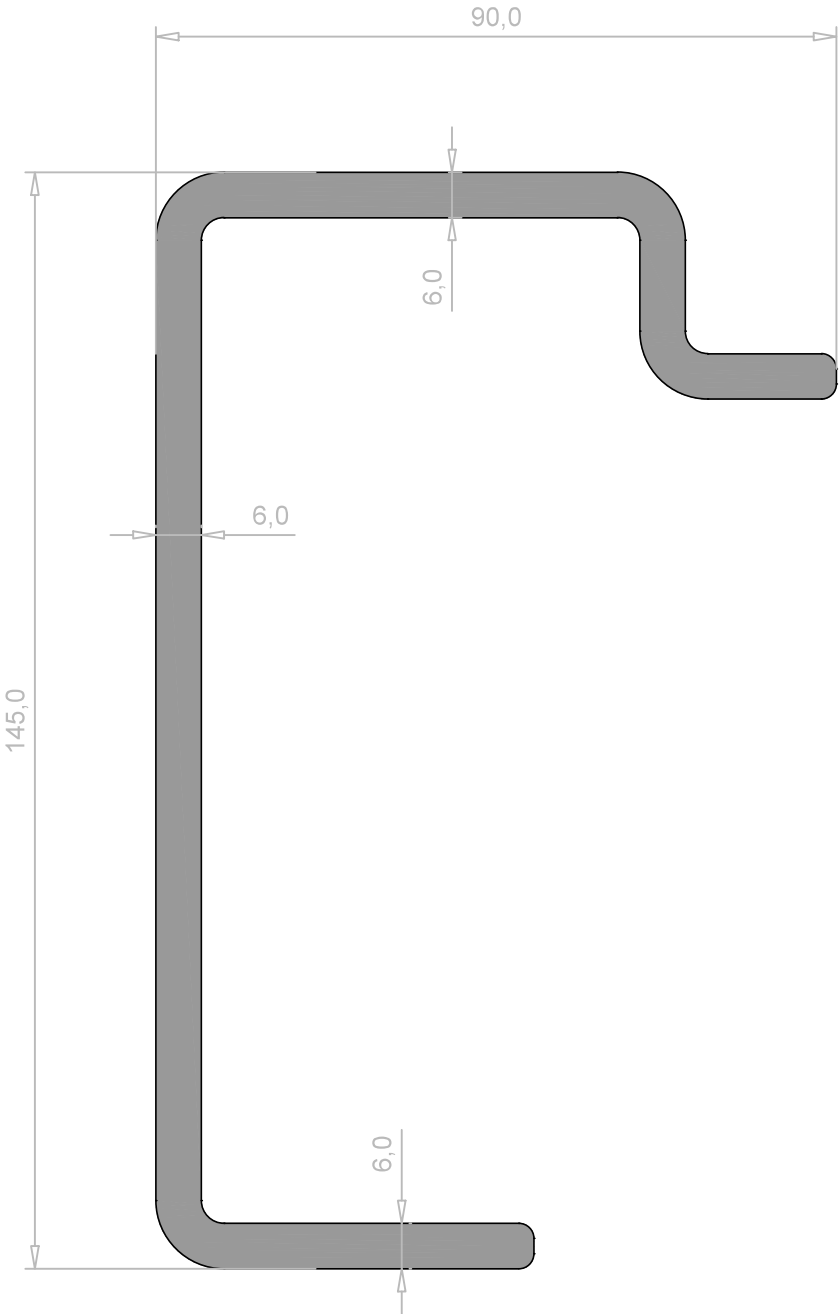
Perfil	Sección 	Descripción	Peso Kg./m	Momento		Pág.
				Superficie Exterior (dm ² /m) Total (dm ² /m)	Inercia Ix (cm ⁴) Iy (cm ⁴)	
E010922 NAVARRA		Traviesa de 80x60x50	2,949	351	16,6	3.2.12
				351	108	
E012985 NAVARRA		T de Chasis de 200x65	10,859	543	-	3.2.8
				543	-	
M-3649 LA ROCA		Traviesa de 110x100	6,225	589	47,9	3.2.10
				589	134	
M-4019 LA ROCA		Traviesa de 80x60x50	3,809	353	22,9	3.2.12
				353	199	
M-4020 LA ROCA		Tubo Empuje de 160x80	9,784	467	36,7	3.2.13
				865	114	

3.2- PERFILES 1:1

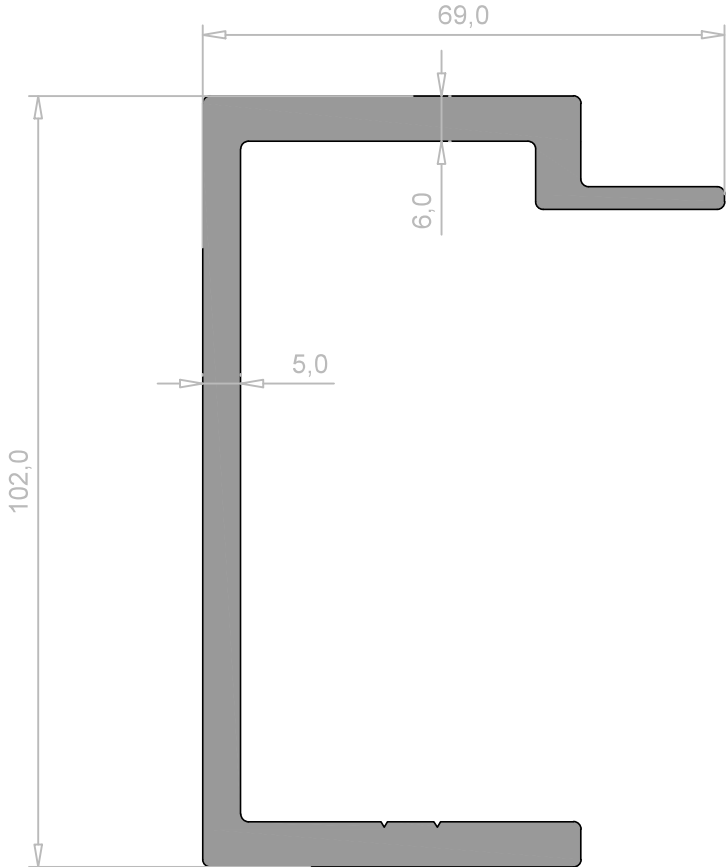
E010777	Espes.	Sup. Ext.	Sup. Total	Peso
Cerco Inferior de 230x100	8/10 mm	855 dm ² /m	855 dm ² /m	10.432 Kg/m
	Momento Inercia	Ix: 3015 cm ⁴	Iy: 284 cm ⁴	NAVARRA



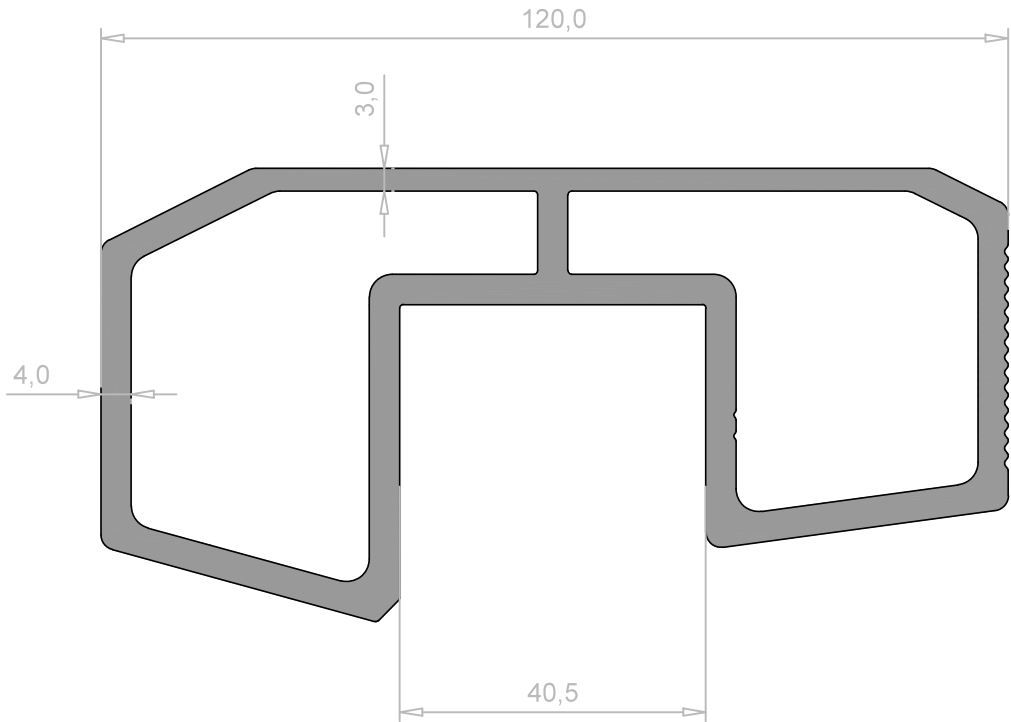
2056005	Espes.	Sup. Ext.	Sup. Total	Peso
Cerco Inferior de 145x90	6.0 mm	582 dm ² /m	582 dm ² /m	4.635 Kg/m
	Momento Inercia	Ix: 483 cm ⁴	Iy: 120 cm ⁴	NAVARRA



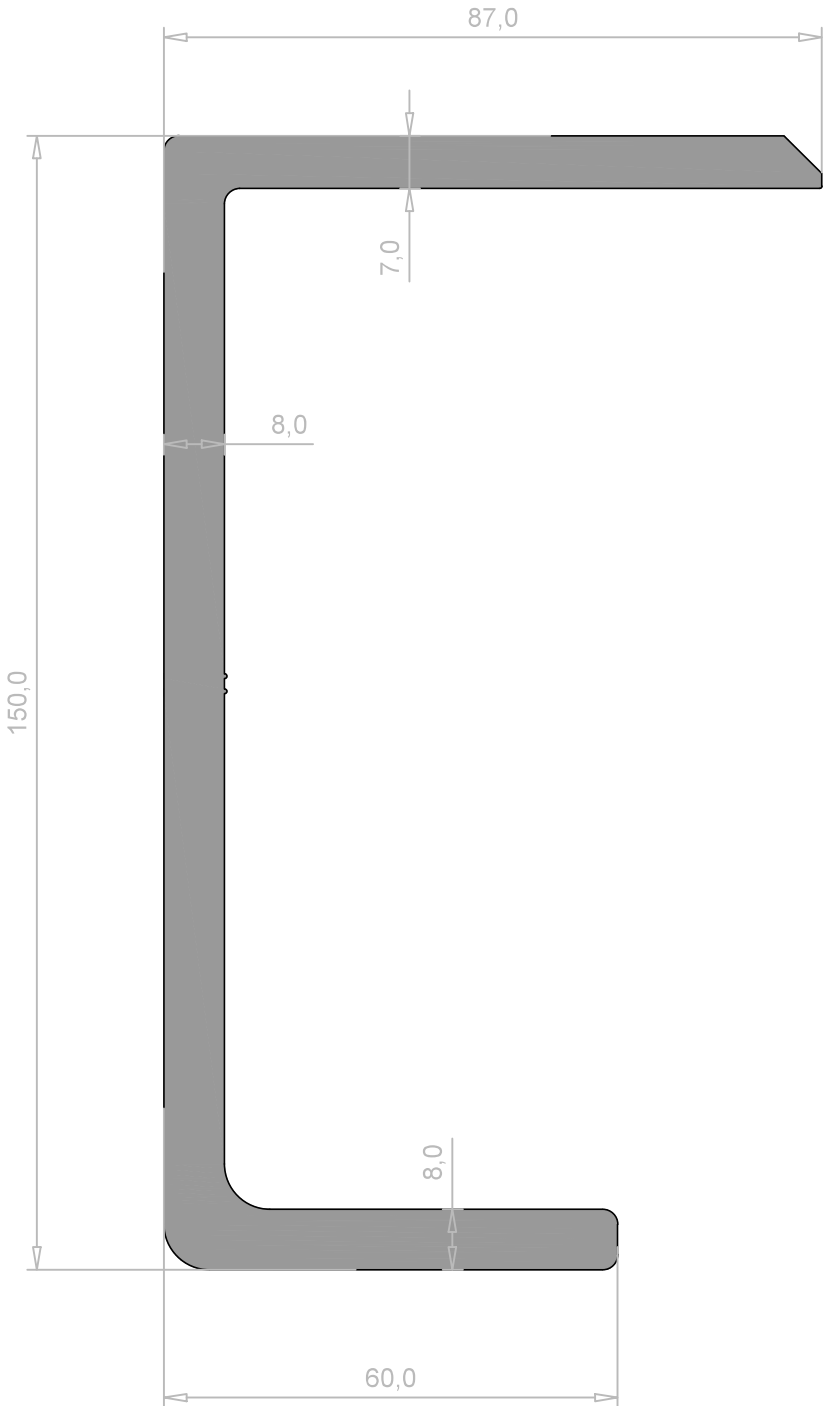
E-60112	Espes.	Sup. Ext.	Sup. Total	Peso
Cerco Plataforma de 102x69	5 / 6 mm	446 dm ² /m	446 dm ² /m	3.132 Kg/m
	Momento Inercia	Ix: 182 cm ⁴	Iy: 39.1 cm ⁴	LA ROCA



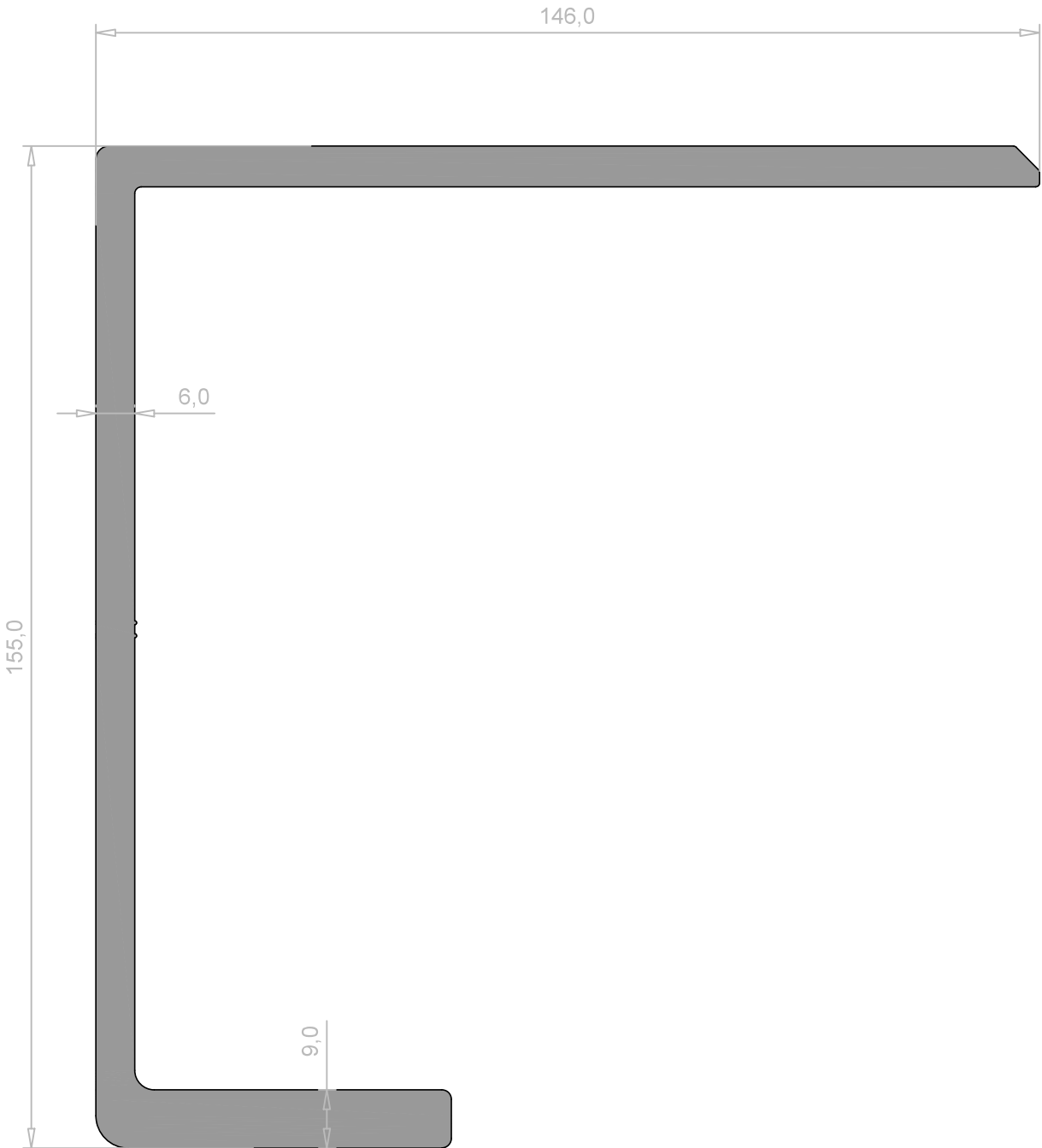
E-60060	Espes.	Sup. Ext.	Sup. Total	Peso
Cerco de 120	3 / 4 mm	399 dm ² /m	774 dm ² /m	4.036 Kg/m
	Momento Inercia	Ix: 216 cm ⁴	Iy: 49.9 cm ⁴	LA ROCA



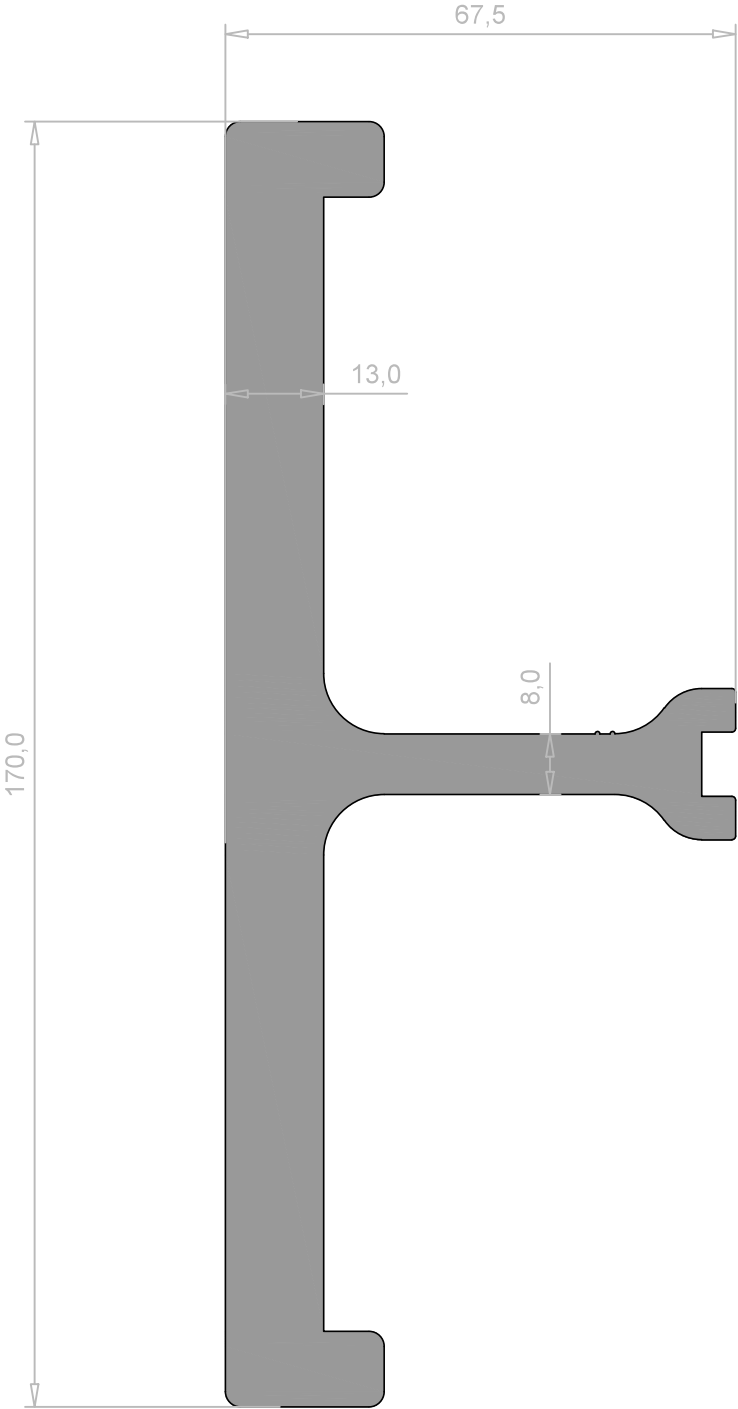
E010356	Espes.	Sup. Ext.	Sup. Total	Peso
Cerco Chasis de 150x60	7 / 8 mm	567 dm ² /m	567 dm ² /m	5.819 Kg/m
	Momento Inercia	Ix: 704 cm ⁴	Iy: 113 cm ⁴	NAVARRA



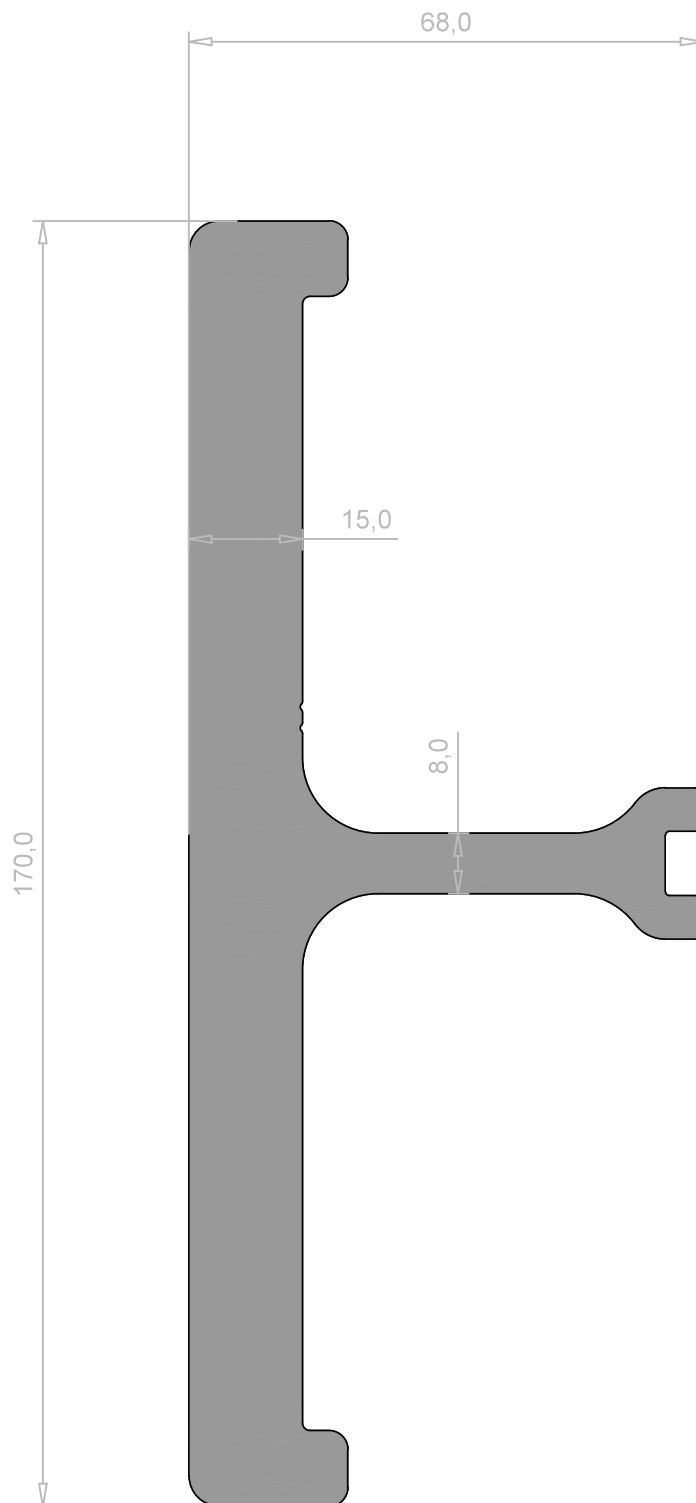
E010535	Espes.	Sup. Ext.	Sup. Total	Peso
Cerco Chasis de 155x146	6 / 9 mm	692 dm ² /m	692 dm ² /m	6.050 Kg/m
	Momento Inercia	Ix: 853 cm ⁴	Iy: 388 cm ⁴	NAVARRA



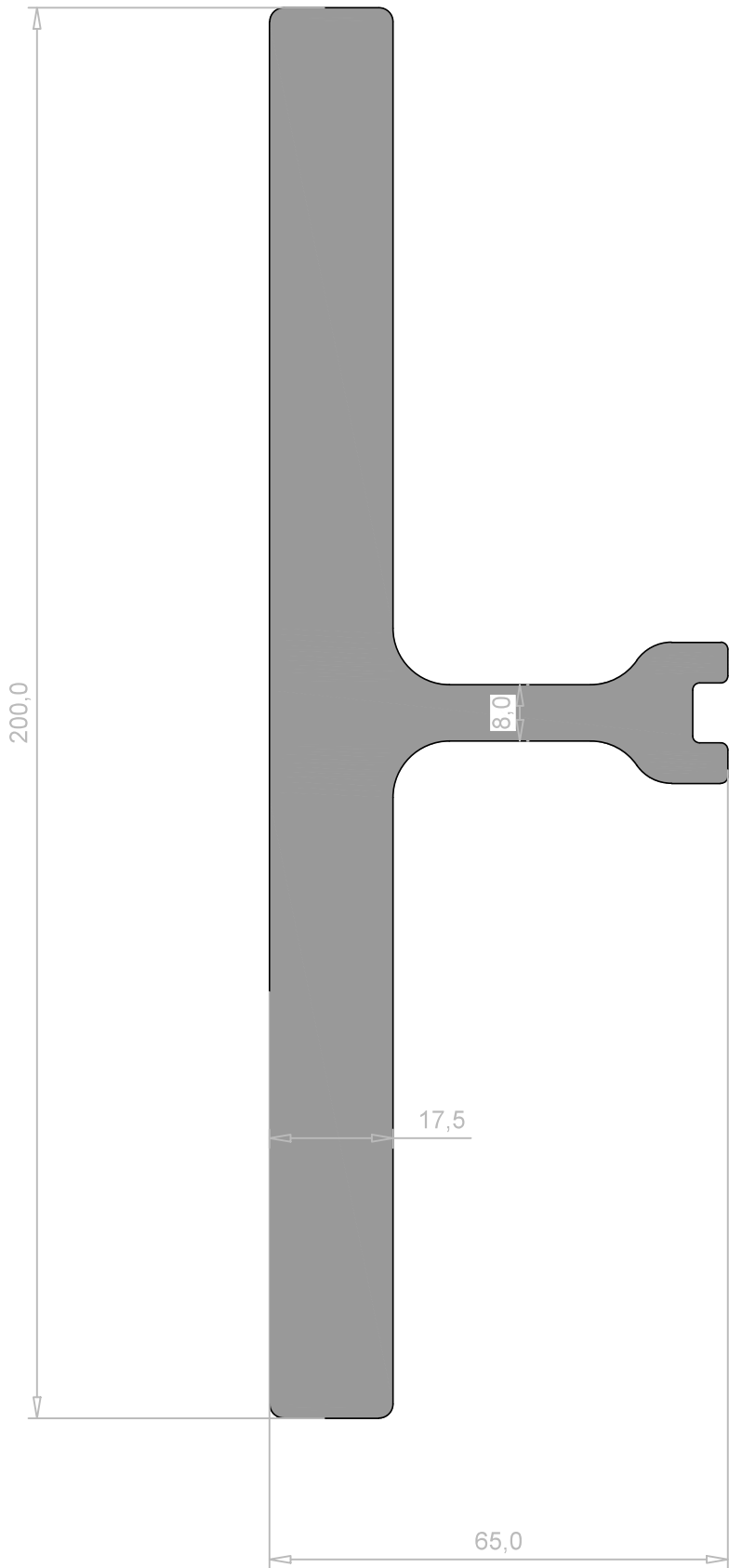
E010776	Espes.	Sup. Ext.	Sup. Total	Peso
T de Chasis de 170x67,5	8/13 mm	520 dm ² /m	520 dm ² /m	7.855 Kg/m
	Momento Inercia	Ix: 632 cm ⁴	Iy: 74,4 cm ⁴	NAVARRA



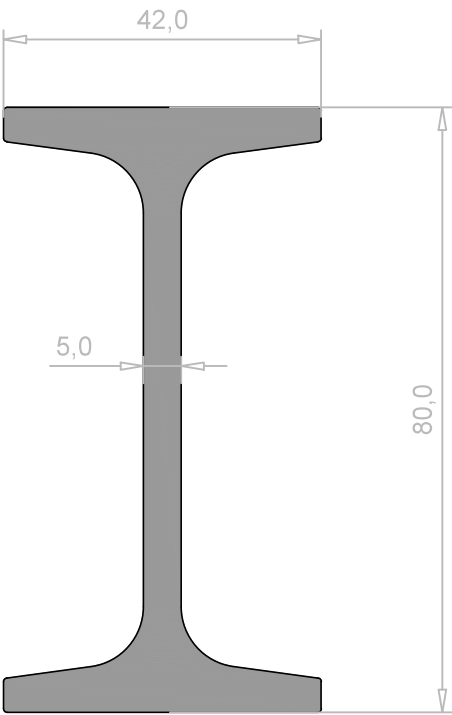
E-12557 / E012721	Espes.	Sup. Ext.	Sup. Total	Peso
T de Chasis de 170x68	8/15 mm	507 dm ² /m	507 dm ² /m	8.682 Kg/m
	Momento Inercia	Ix: 684 cm ⁴	Iy: 75.2 cm ⁴	LA ROCA / NAVARRA



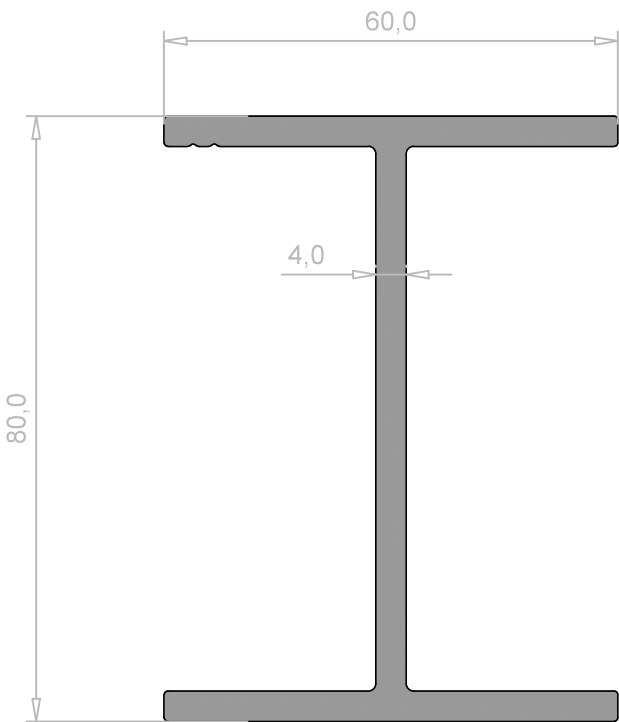
E012985	Espes.	Sup. Ext.	Sup. Total	Peso
T de Chasis de 200x65	8/17,5 mm	543 dm ² /m	543 dm ² /m	10.859 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA



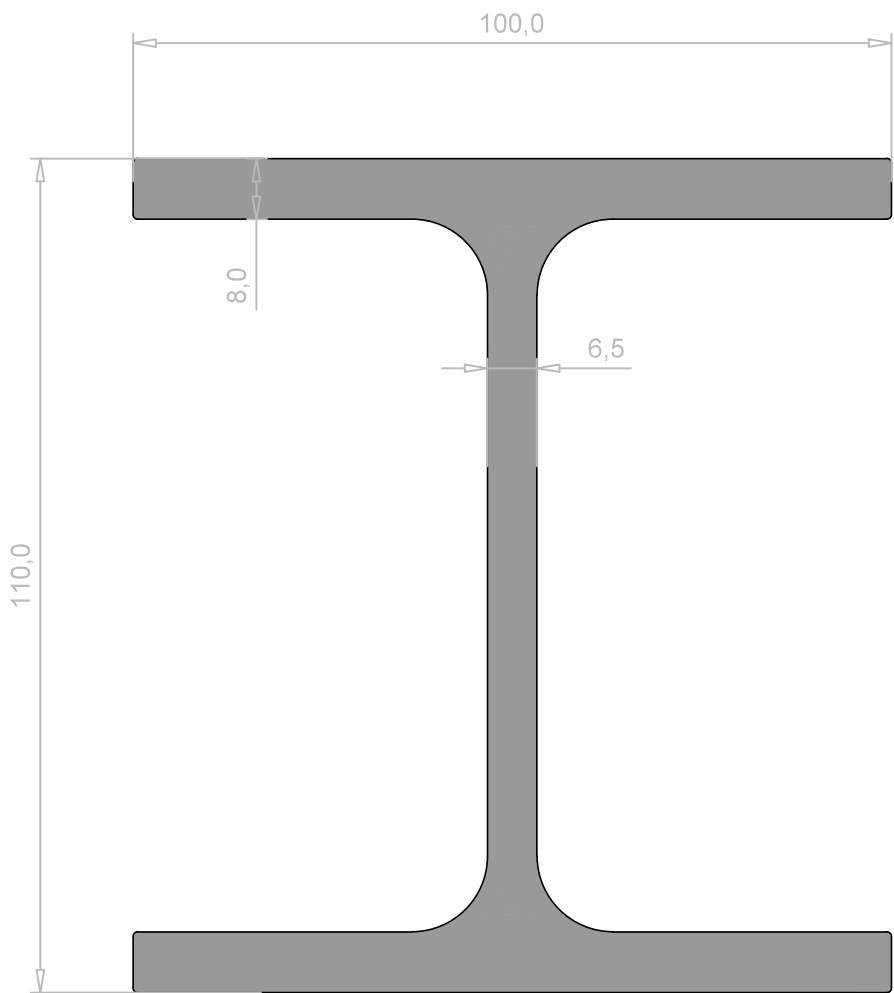
2070578	Espes.	Sup. Ext.	Sup. Total	Peso
Traviesa de 80x42	5 mm	299 dm ² /m	299 dm ² /m	2.336 Kg/m
	Momento Inercia	Ix: 84 cm ⁴	Iy: 6.6 cm ⁴	NAVARRA



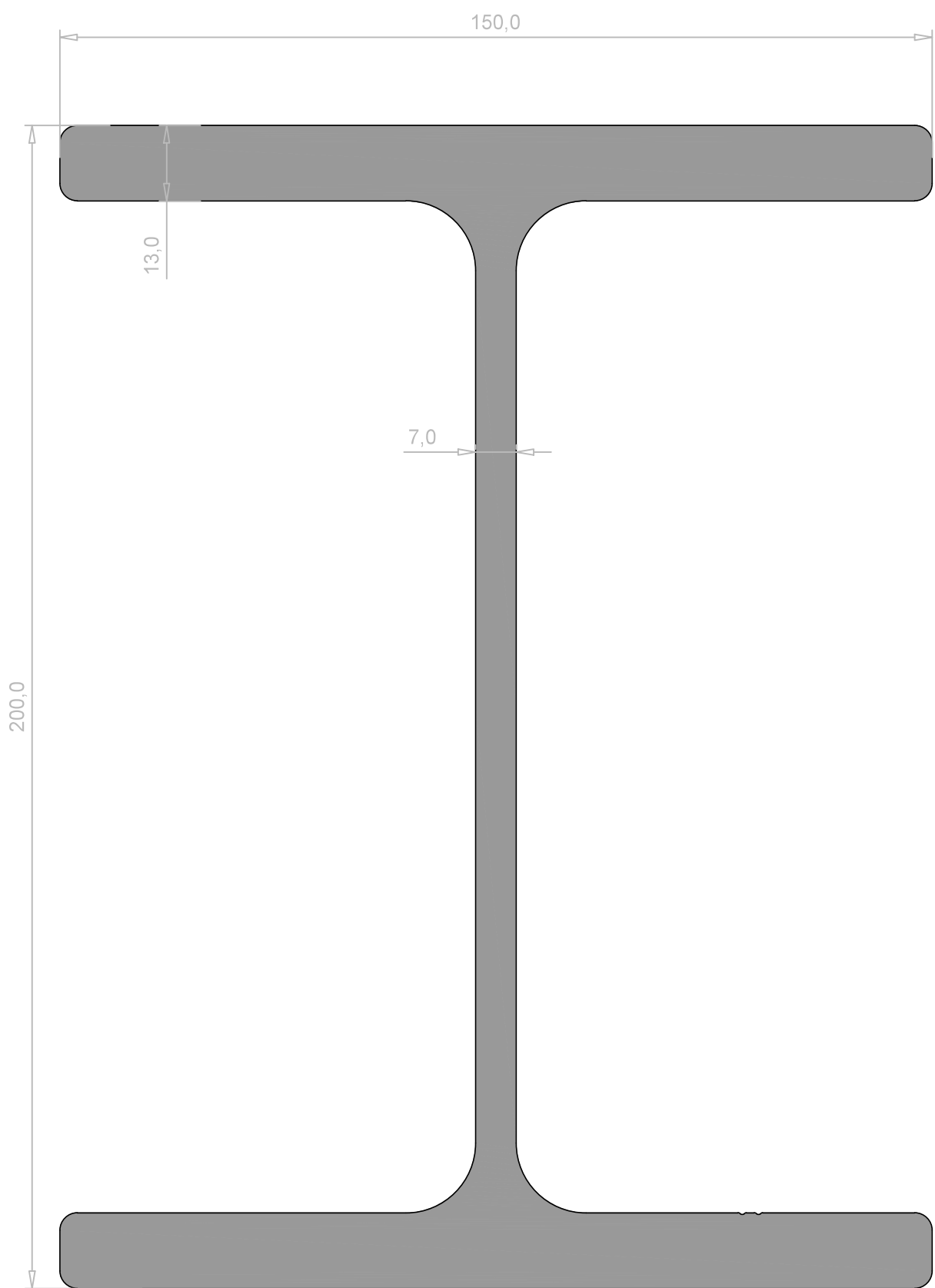
E-60090	Espes.	Sup. Ext.	Sup. Total	Peso
Traviesa de 80x60	4.0 mm	389 dm ² /m	389 dm ² /m	2.081 Kg/m
	Momento Inercia	Ix: 81.8 cm ⁴	Iy: 14.3 cm ⁴	LA ROCA



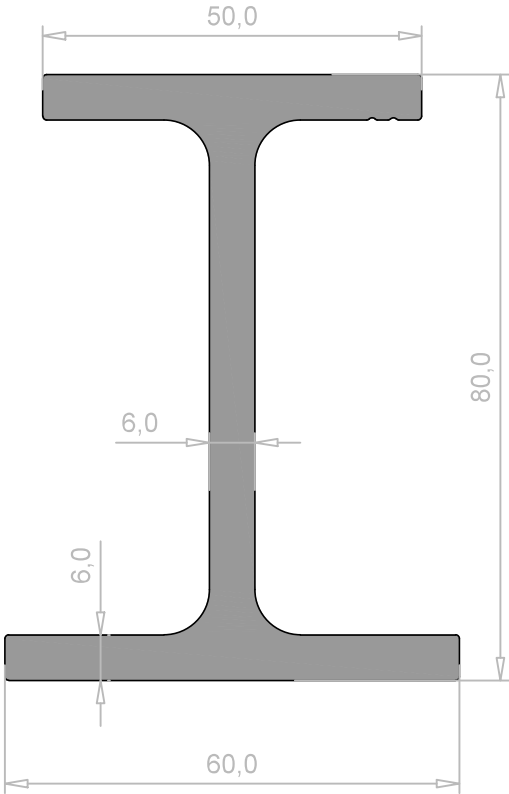
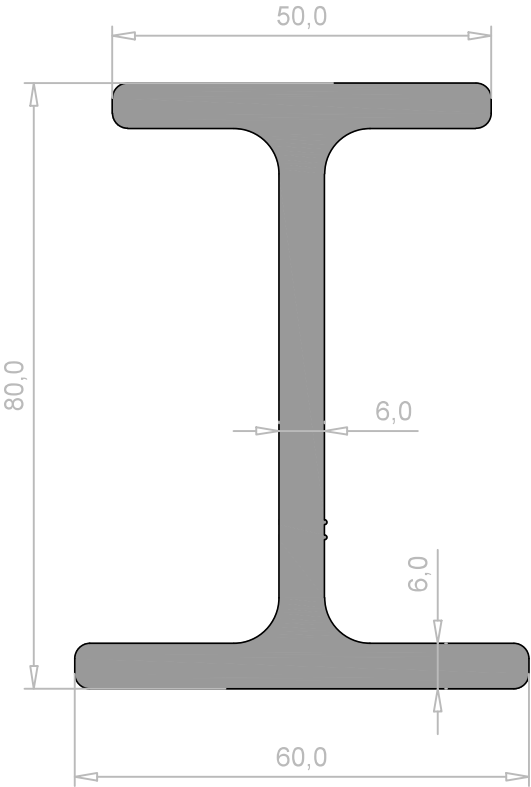
M-3649	Espes.	Sup. Ext.	Sup. Total	Peso
Traviesa de 110x100	6,5/8 mm	589dm ² /m	589dm ² /m	6.225 Kg/m
	Momento Inercia	Ix: 134cm ⁴	Iy: 47.9cm ⁴	LA ROCA



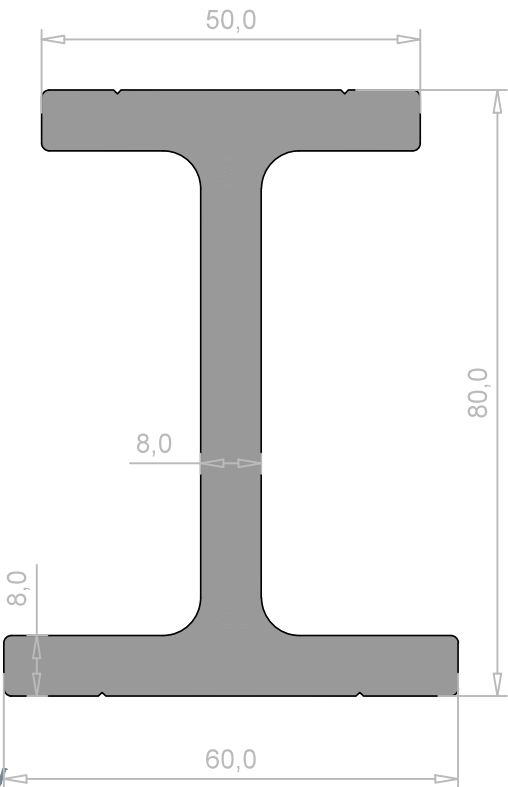
E-60073	Espes.	Sup. Ext.	Sup. Total	Peso
Traviesa de 200x150	7/13 mm	955 dm ² /m	955 dm ² /m	14.162 Kg/m
	Momento Inercia	Ix: 3796 cm ⁴	Iy: 724 cm ⁴	LA ROCA



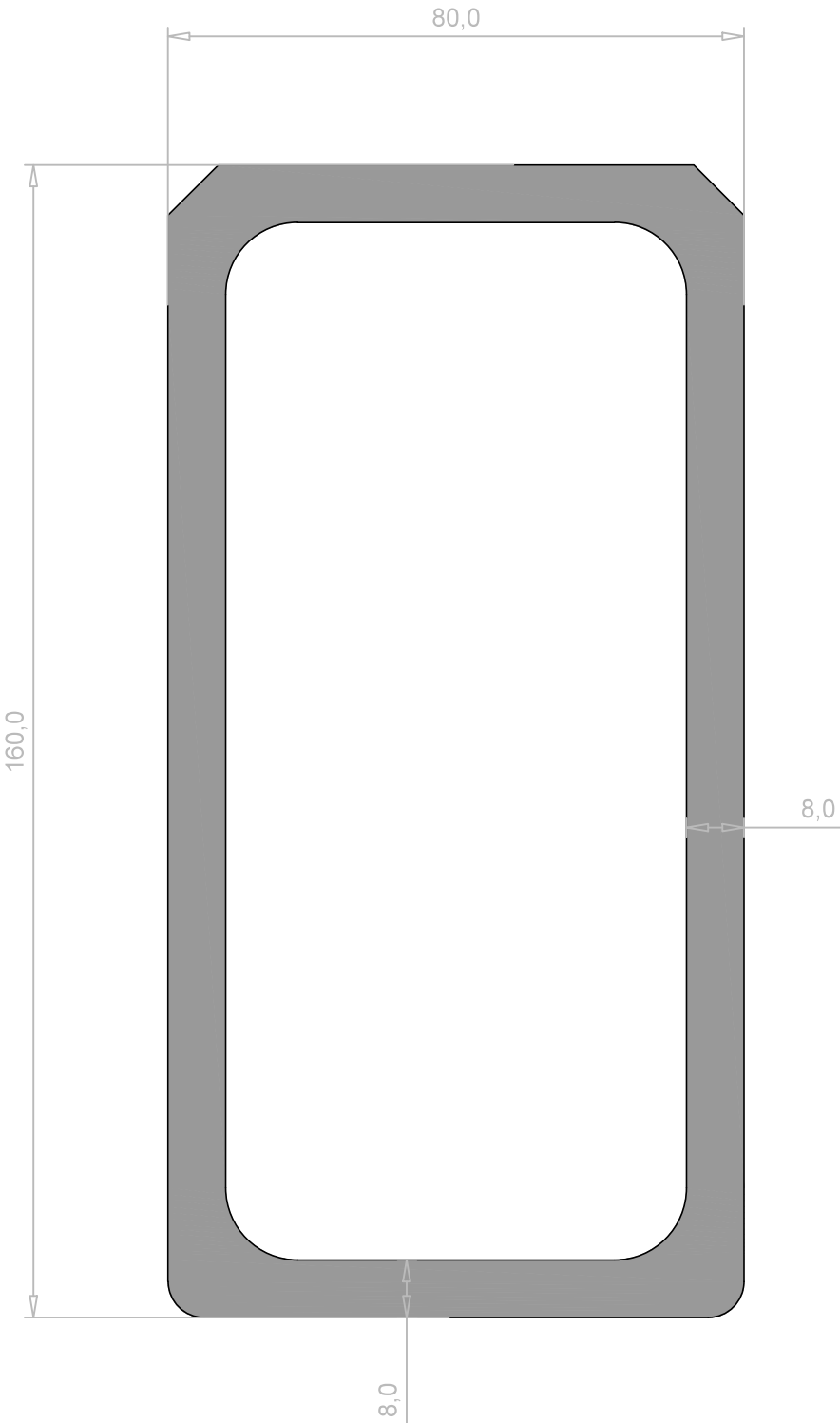
E010922	Espes.	Sup. Ext.	Sup. Total	Peso	E-60082	Espes.	Sup. Ext.	Sup. Total	Peso
Traviesa de 80x60x50	6.0 mm	351 dm ² /m	351 dm ² /m	2.949 Kg/m	Traviesa de 80x60x50	6.0 mm	358 dm ² /m	358 dm ² /m	2.976 Kg/m
	Momento Inercia	Ix: 108 cm ⁴	Iy: 16.3 cm ⁴	NAVARRA		Momento Inercia	Ix: 109 cm ⁴	Iy: 17.2 cm ⁴	LA ROCA



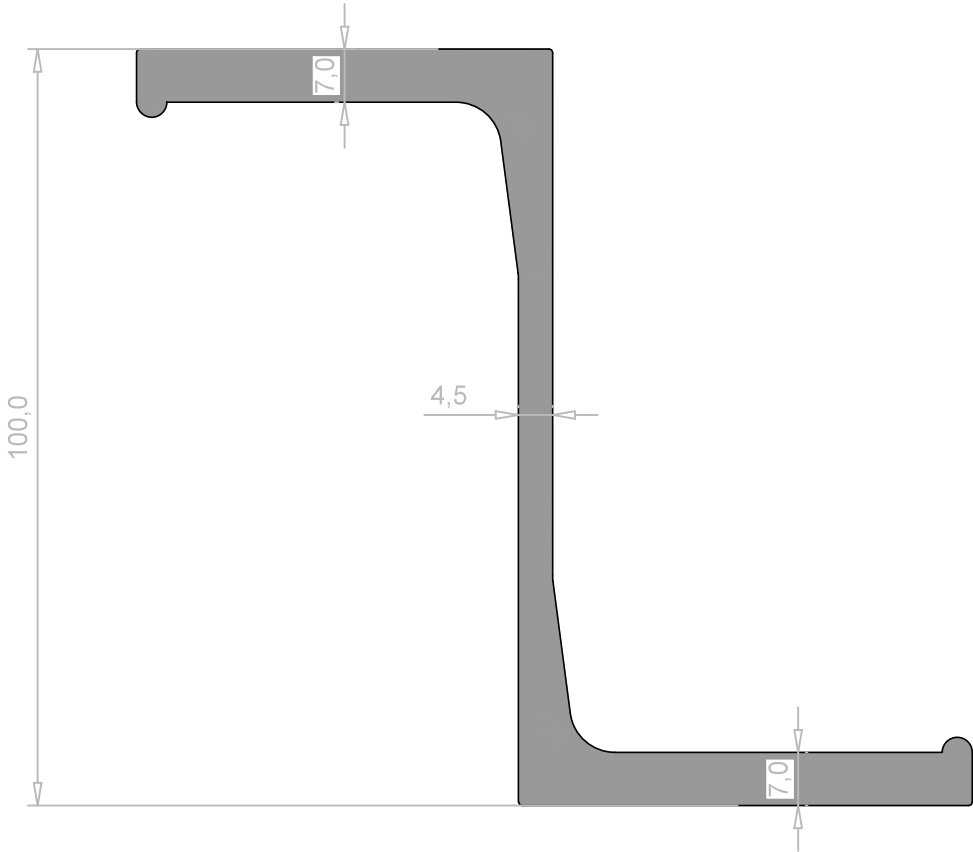
M-4019	Espes.	Sup. Ext.	Sup. Total	Peso
Traviesa de 80x60x50	8.0 mm	353 dm ² /m	353 dm ² /m	3.809 Kg/m
	Momento Inercia	Ix: 133 cm ⁴	Iy: 22.9 cm ⁴	LA ROCA



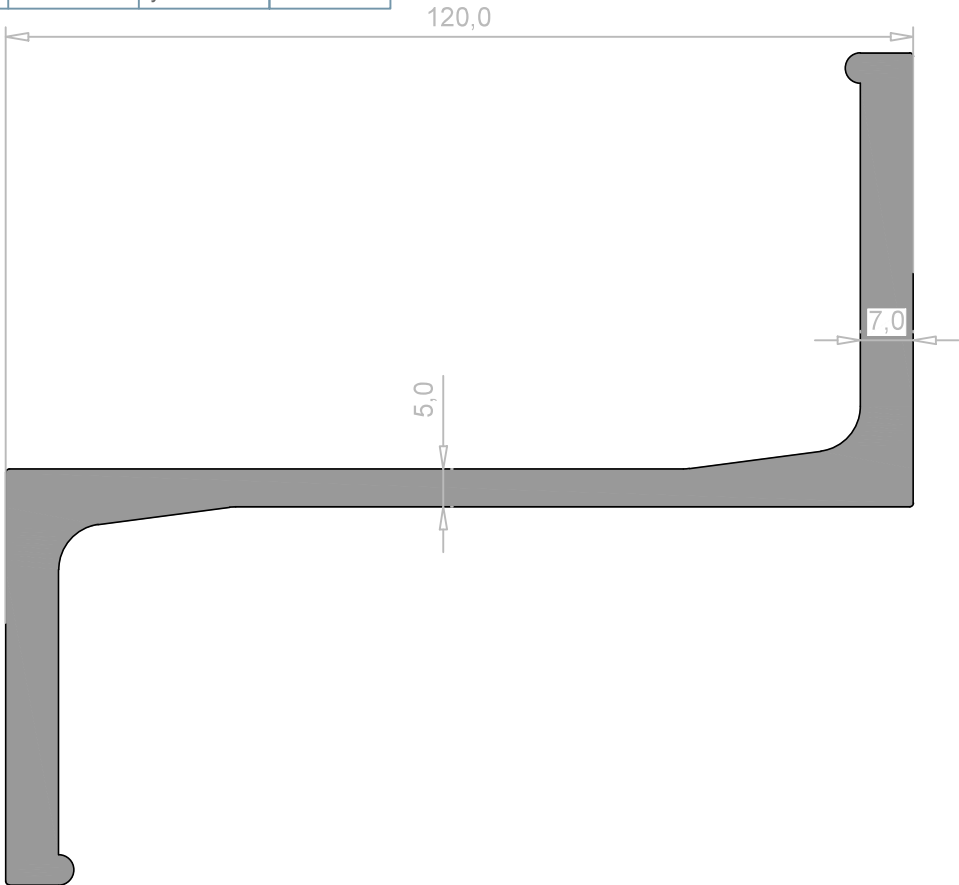
M-4020	Espes.	Sup. Ext.	Sup. Total	Peso
Tubo Empuje de 160x80	8.0 mm	467 dm ² /m	865 dm ² /m	9.784 Kg/m
	Momento Inercia	Ix: 36.7 cm ⁴	Iy: 114 cm ⁴	LA ROCA



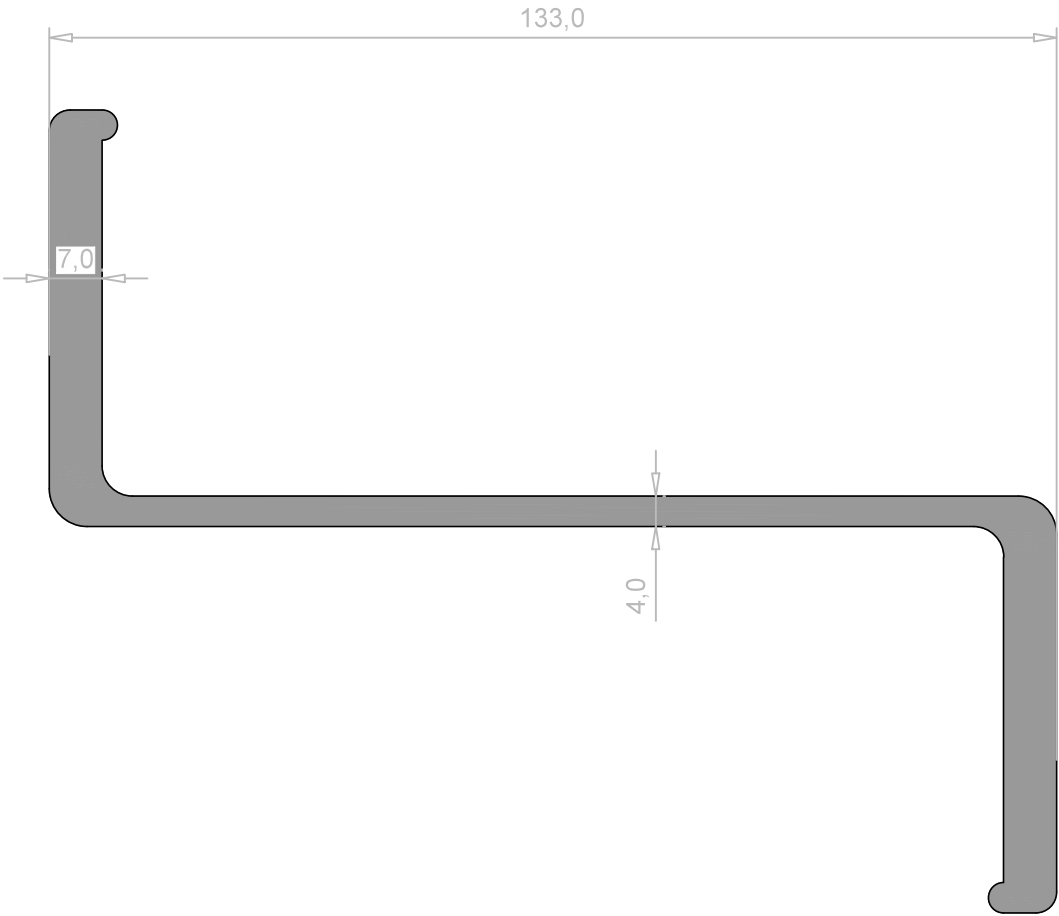
E-60085	Espes.	Sup. Ext.	Sup. Total	Peso
Larguero de 100	4,5/7 mm	415 dm ² /m	415 dm ² /m	3.483 Kg/m
	Momento Inercia	Ix: 268 cm ⁴	Iy: 25.4 cm ⁴	LA ROCA



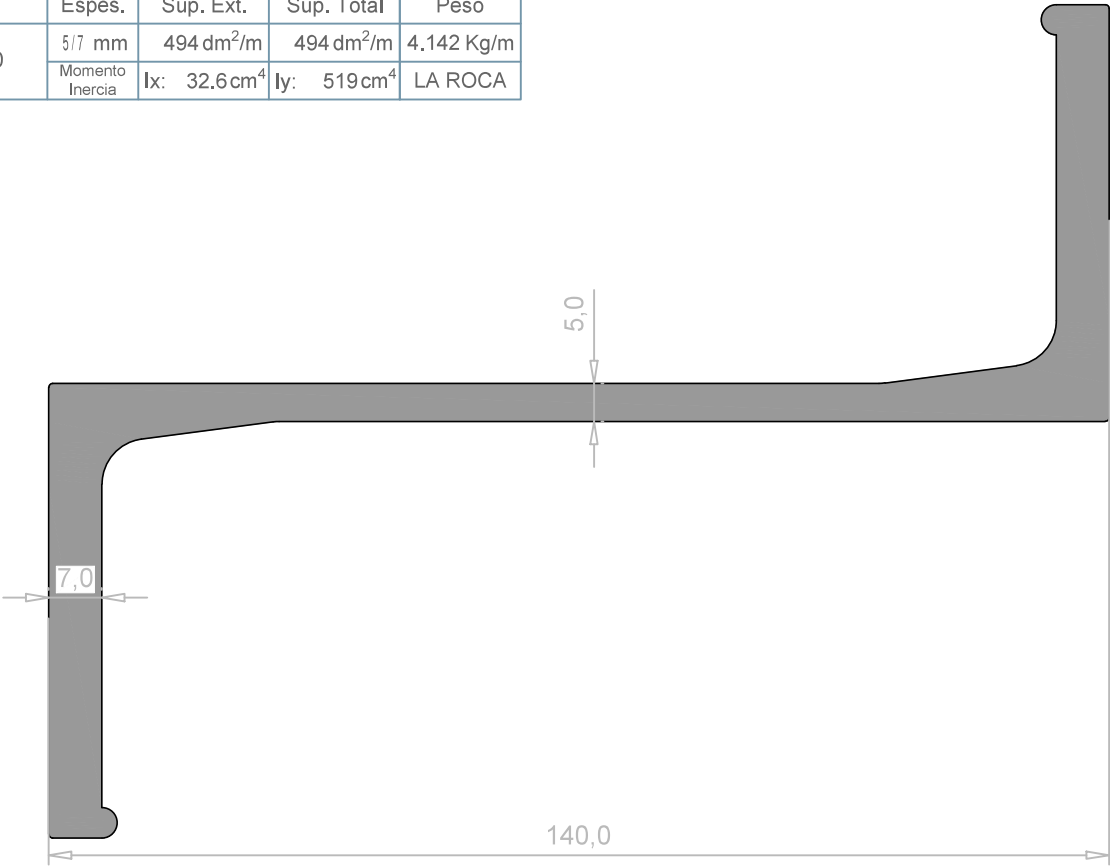
E-60087	Espes.	Sup. Ext.	Sup. Total	Peso
Larguero de 120	5/7 mm	454 dm ² /m	454 dm ² /m	3.871 Kg/m
	Momento Inercia	Ix: 29.7 cm ⁴	Iy: 379 cm ⁴	LA ROCA



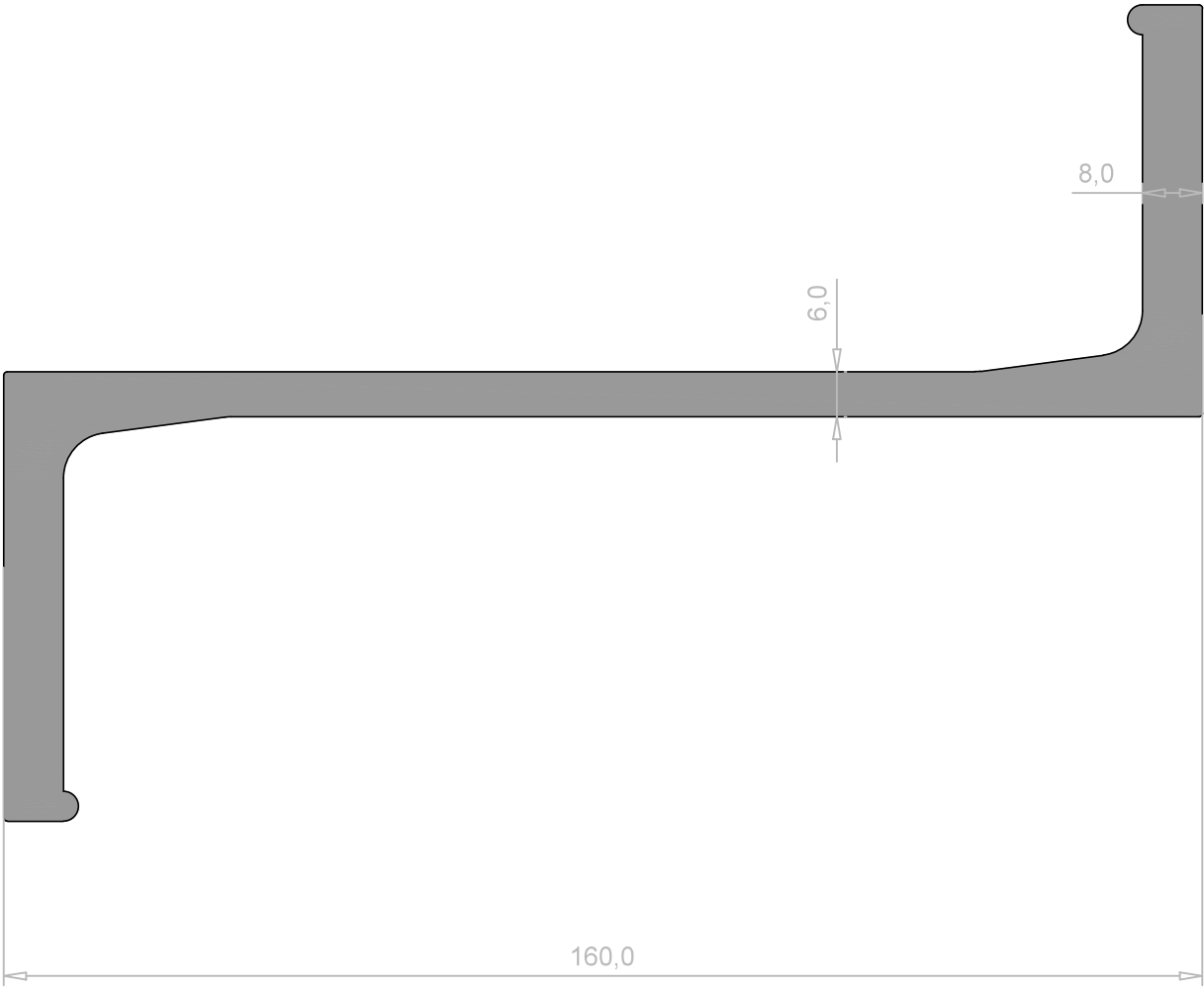
E-5811	Espes.	Sup. Ext.	Sup. Total	Peso
Larguero de 133	4/7 mm	473 dm ² /m	473 dm ² /m	3.392 Kg/m
	Momento Inercia	Ix: 24.6 cm ⁴	Iy: 410 cm ⁴	LA ROCA



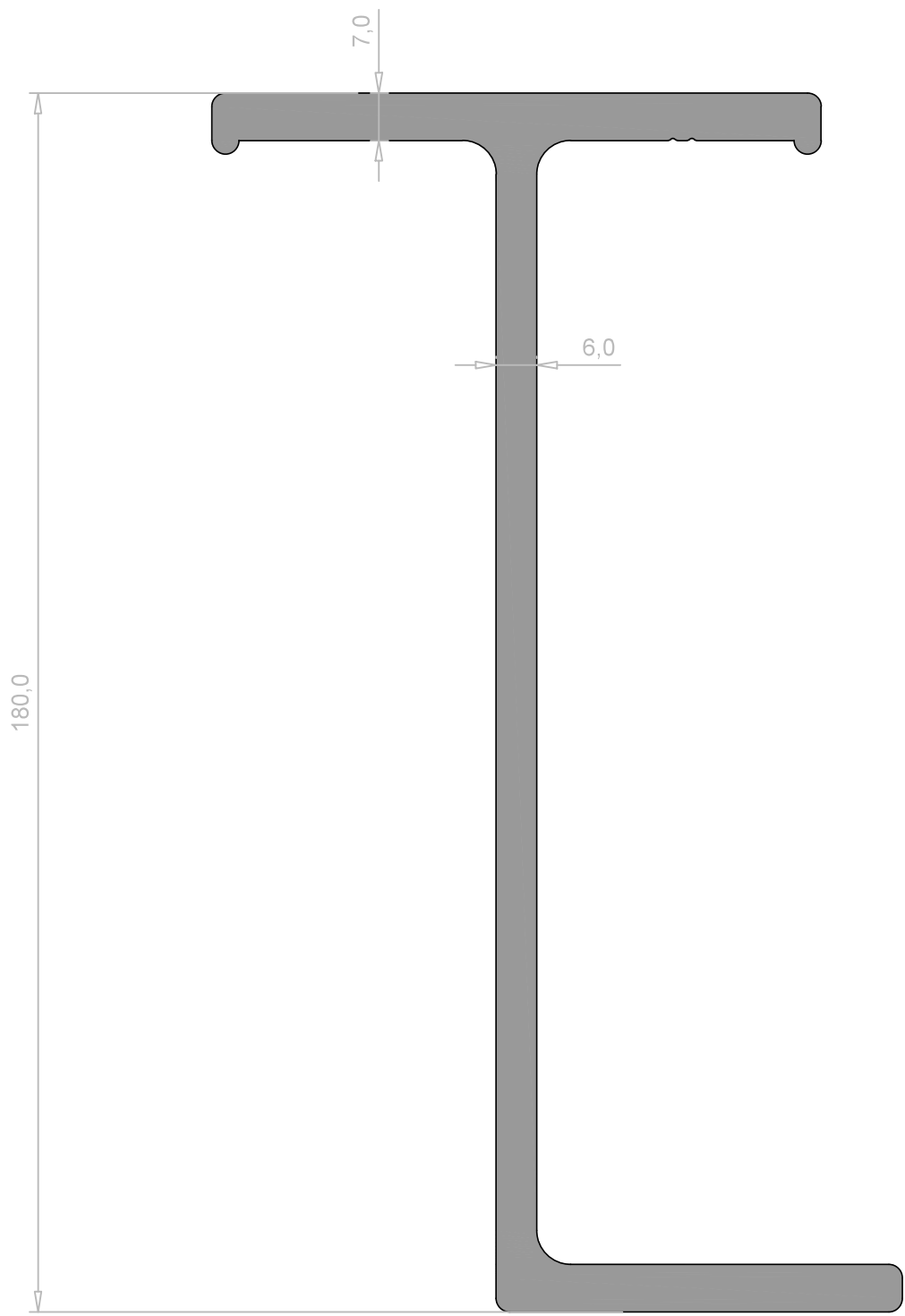
E-60086	Espes.	Sup. Ext.	Sup. Total	Peso
Larguero de 140	5/7 mm	494 dm ² /m	494 dm ² /m	4.142 Kg/m
	Momento Inercia	Ix: 32.6 cm ⁴	Iy: 519 cm ⁴	LA ROCA



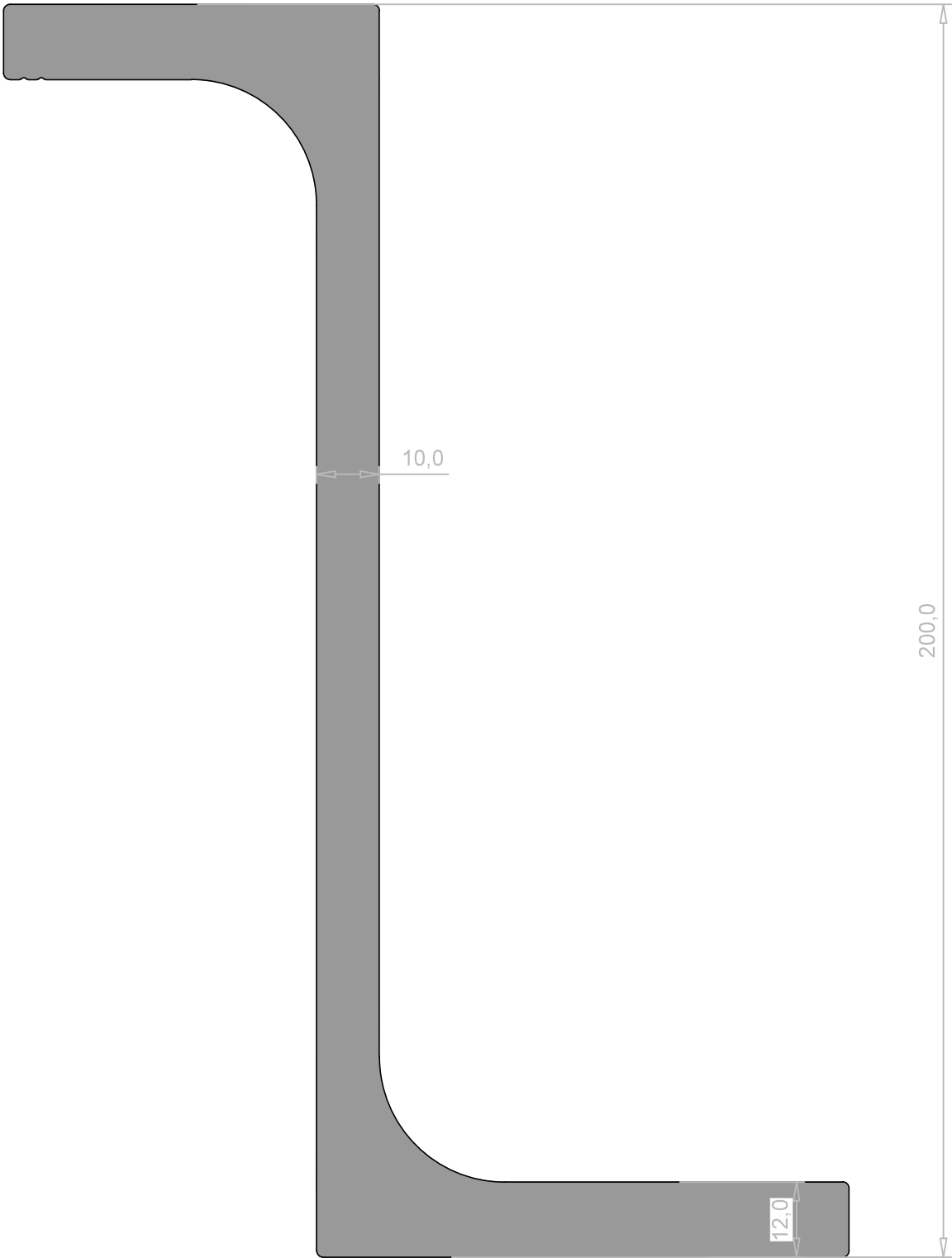
E-60088	Espes.	Sup. Ext.	Sup. Total	Peso
Larguero de 160	6/8 mm	533 dm ² /m	533 dm ² /m	5.071 Kg/m
	Momento Inercia	Ix: 39.1 cm ⁴	Iy: 771 cm ⁴	LA ROCA

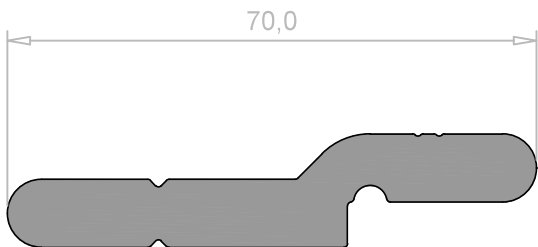
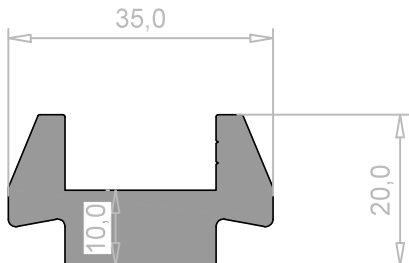


E-60069	Espes.	Sup. Ext.	Sup. Total	Peso
Larguero de 180	6/7 mm	642 dm ² /m	642 dm ² /m	5.610 Kg/m
	Momento Inercia	Ix: 1024 cm ⁴	Iy: 68.9 cm ⁴	LA ROCA

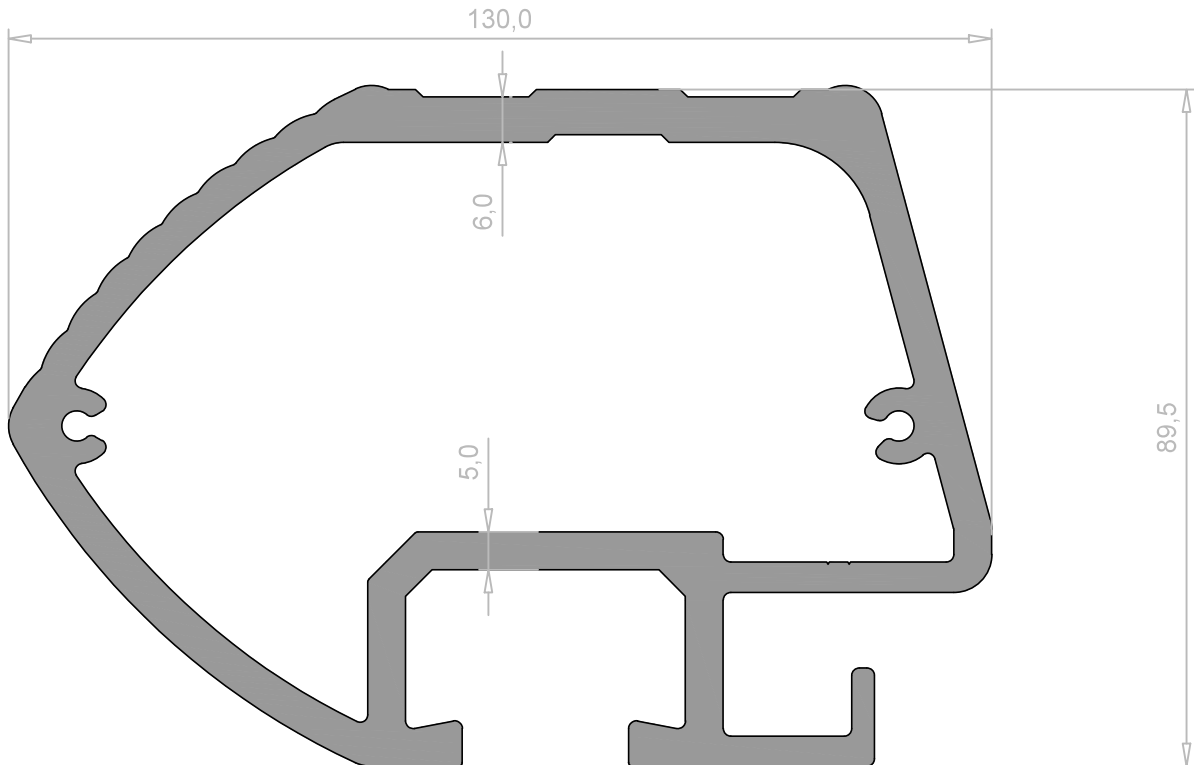


E-60111	Espes.	Sup. Ext.	Sup. Total	Peso
Larguero de 200	10/12 mm	653 dm ² /m	653 dm ² /m	9.949 Kg/m
	Momento Inercia	Ix: 2233 cm ⁴	Iy: 122 cm ⁴	LA ROCA



E-9312	Espes.	Sup. Ext.	Sup. Total	Peso	E-60038	Espes.	Sup. Ext.	Sup. Total	Peso
Fijación para Largueros	9.0 mm	162 dm ² /m	162 dm ² /m	1.686 Kg/m	Fijación para Paragolpes	10 mm	125 dm ² /m	125 dm ² /m	1.015 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LAR ROCA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA
									

E-60093	Espes.	Sup. Ext.	Sup. Total	Peso
Paragolpes de 130	5/6 mm	516 dm ² /m	883 dm ² /m	6.146 Kg/m
	Momento Inercia	Ix: 203 cm ⁴	Iy: 337 cm ⁴	LA ROCA



extruded by

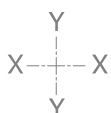
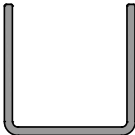
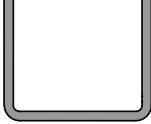
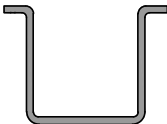
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3.2.19

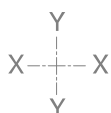
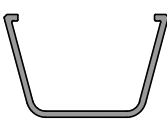
4. OMEGAS Y Ues

4.1- LISTADO

Listado

Perfil	Sección 	Descripción	Peso Kg./m	Superficie Exterior (dm ² /m) Total (dm ² /m)	Momento Inercia Ix (cm ⁴) Iy (cm ⁴)	Pág.
2041034 NAVARRA		Omega de 111x40	1,981	354 354	17,5 75,5	4.2.1
2041459 NAVARRA		Omega de 95x27	1,221	272 272	4,9 31,9	4.2.1
2041502 NAVARRA		U de 101,6x50	2,600	392 392	24,4 162	4.2.6
2048051 NAVARRA		U de 76x76	2,767	437 437	61,7 101	4.2.5
E-6027 LA ROCA		U de 50x28	0,779	198 198	2,21 10,7	4.2.4
E-7585 LA ROCA		U de 64x76	2,456	389 389	38,4 86,5	4.2.4
2054913 NAVARRA		Omega de 105x76	2,939	489 489	81,6 120	4.2.1
2056192 NAVARRA		Traviesa de 120x80	3,822	588 588	117 306	4.2.3
E-12559 LA ROCA		U de 203x76	9,205	679 679	188 2162	4.2.12
E-12560 LA ROCA		U de 228x76	10,026	730 730	191 2805	4.2.13
E-60000 LA ROCA		U de 50x30	1,070	205 205	3,4 14,5	4.2.4

Listado

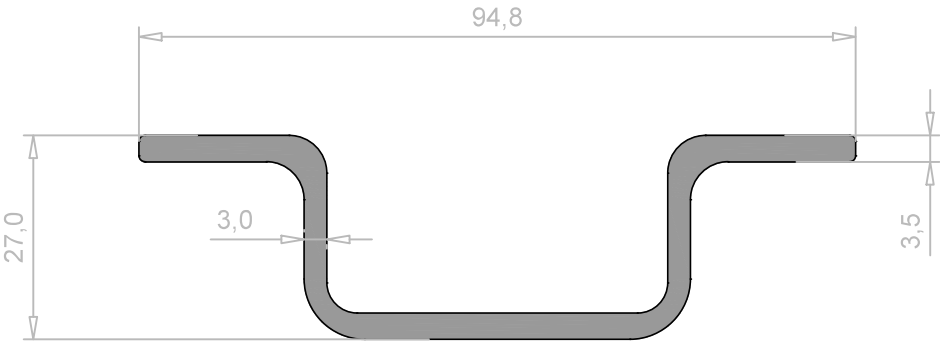
Perfil	Sección 	Descripción	Peso Kg./m	Superficie Exterior (dm ² /m) Total (dm ² /m)	Momento Inercia Ix (cm ⁴) Iy (cm ⁴)	Pág.
E-60001 LA ROCA		U de 100x50	3,540	380 380	30 190	4.2.6
E-60010 LA ROCA		Omega de 113x40	1,972	375 375	17,4 78,1	4.2.2
E-60027 LA ROCA		U de 100x50	2,816	385 385	25,3 162	4.2.5
E-60079 LA ROCA		U de 200x100	12,393	765 765	421 2713	4.2.9
E010143 NAVARRA		U de 160x80	6,566	622 622	147 939	4.2.9
E010774 NAVARRA		U de 203,2x72,6	8,973	666 666	165 2091	4.2.11
E011267 NAVARRA		U de 101,8x50,8	3,767	384 384	34 218	4.2.7
E012179 NAVARRA		U de 160x60	6,971	531 531	75,6 893	4.2.8
E900931 NAVARRA		Traviesa de 120x80	3,678	566 566	106 294	4.2.2
M-3661 LA ROCA		Traviesa Oblicua de 120x75	2,836	470 470	67,4 187	4.2.3
M-3797 LA ROCA		U de 203x72,5	8,638	666 666	157 1990	4.2.10

Listado

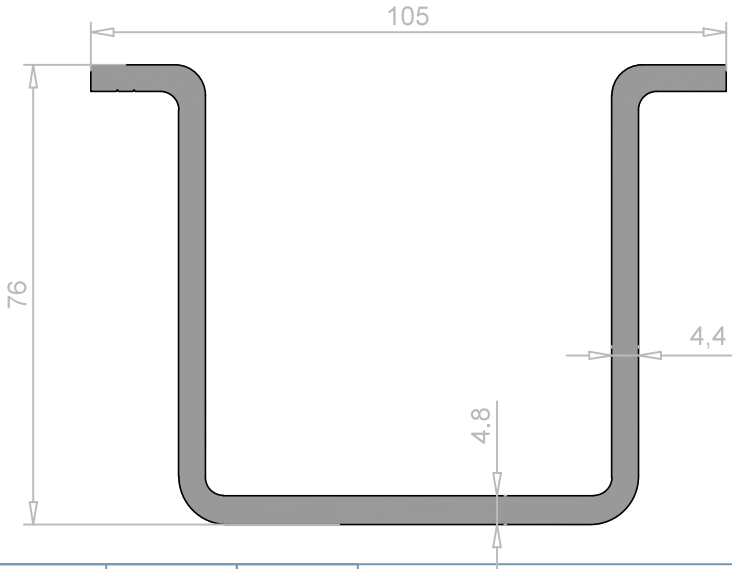
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4.2- PERFILES 1:1

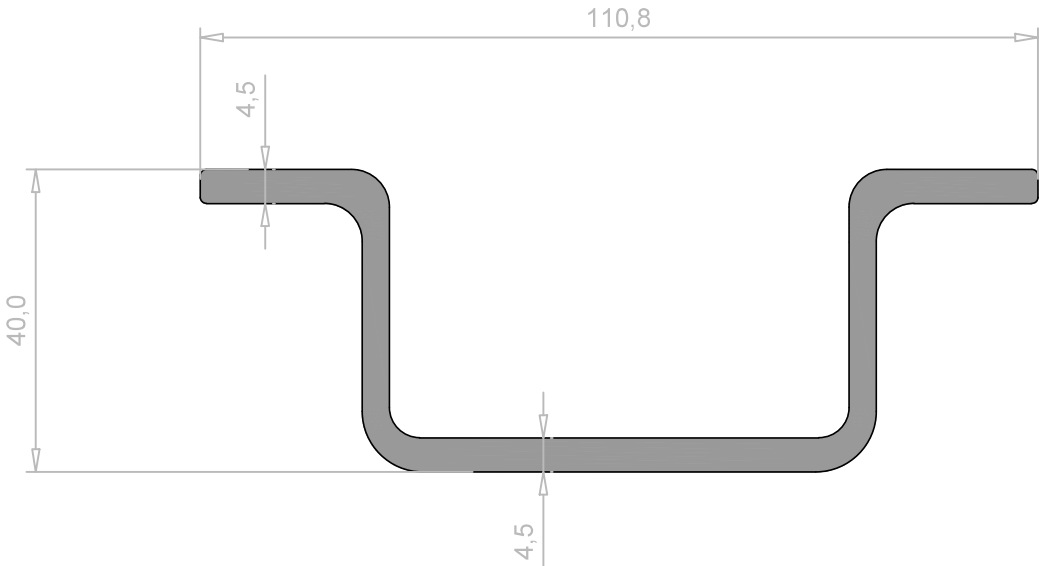
2041459	Espes.	Sup. Ext.	Sup. Total	Peso
Omega de 95x27	3/3,5 mm	272 dm ² /m	272 dm ² /m	1.221 Kg/m
	Momento Inercia	Ix: 4.9cm ⁴	Iy: 31.9cm ⁴	NAVARRA



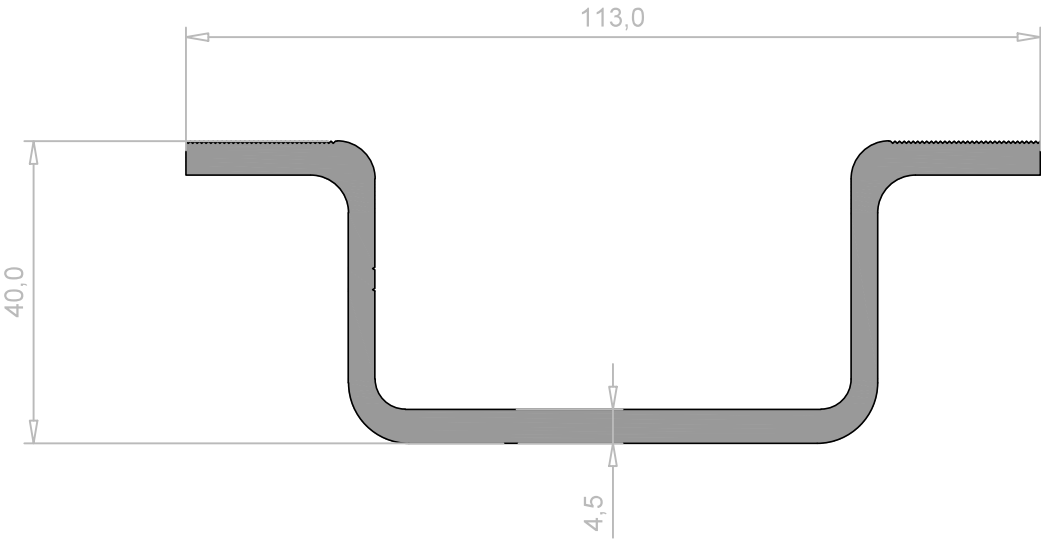
2054913	Espes.	Sup. Ext.	Sup. Total	Peso
Omega de 105x76	4/4,8 mm	489 dm ² /m	489 dm ² /m	2.939 Kg/m
	Momento Inercia	Ix: 81.6cm ⁴	Iy: 120cm ⁴	NAVARRA



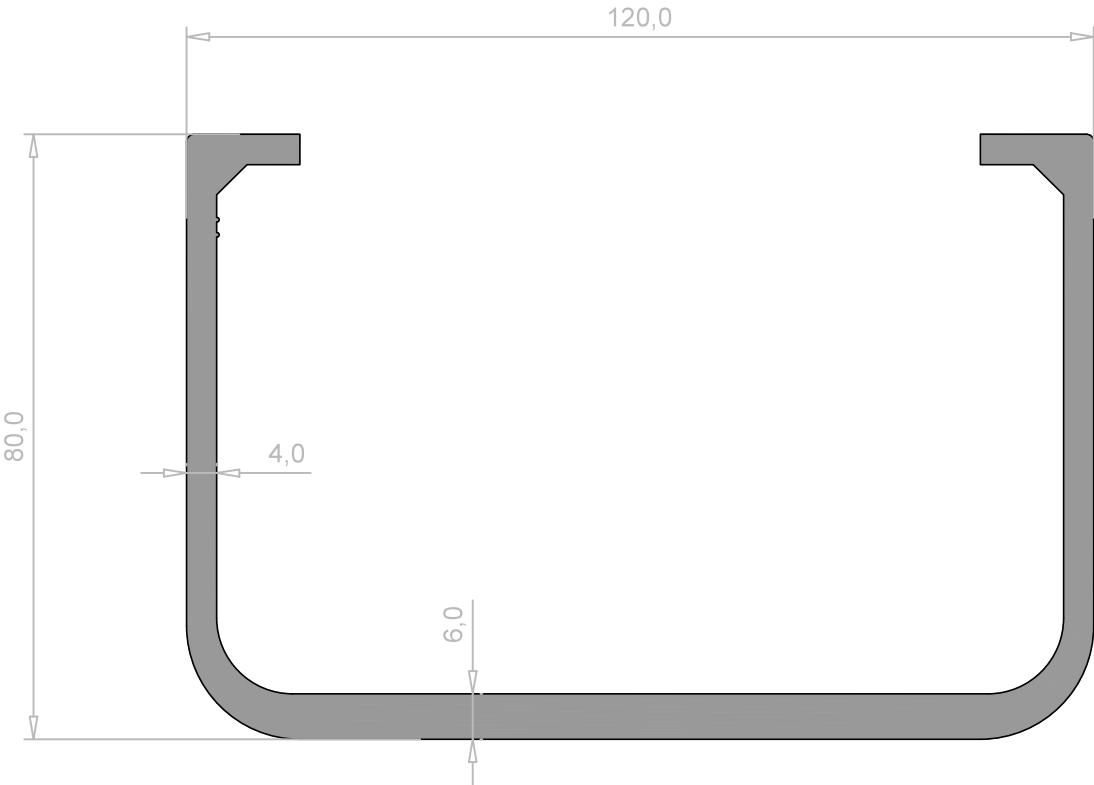
2041034	Espes.	Sup. Ext.	Sup. Total	Peso
Omega de 111x40	4.5 mm	354 dm ² /m	354 dm ² /m	1.981 Kg/m
	Momento Inercia	Ix: 17.5cm ⁴	Iy: 75.5cm ⁴	NAVARRA



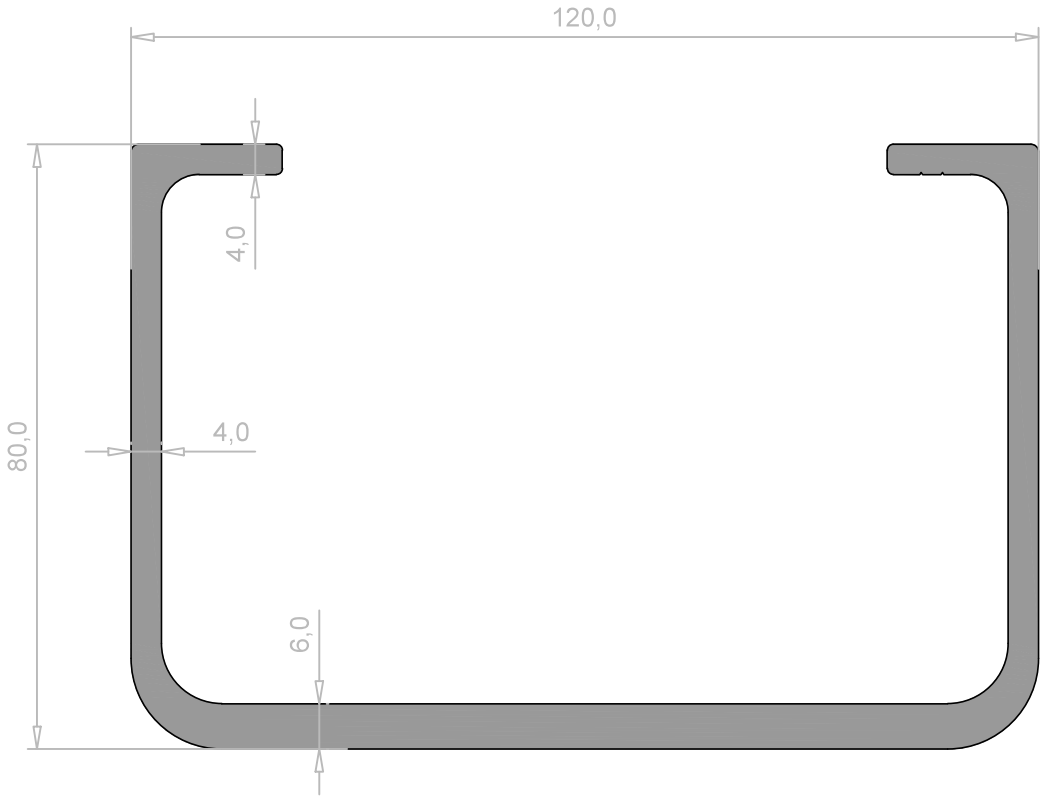
E-60010	Espes.	Sup. Ext.	Sup. Total	Peso
Omega de 113x40	4.5 mm	375 dm ² /m	375 dm ² /m	1.972 Kg/m
	Momento Inercia	Ix: 17.4 cm ⁴	Iy: 78.1 cm ⁴	LA ROCA



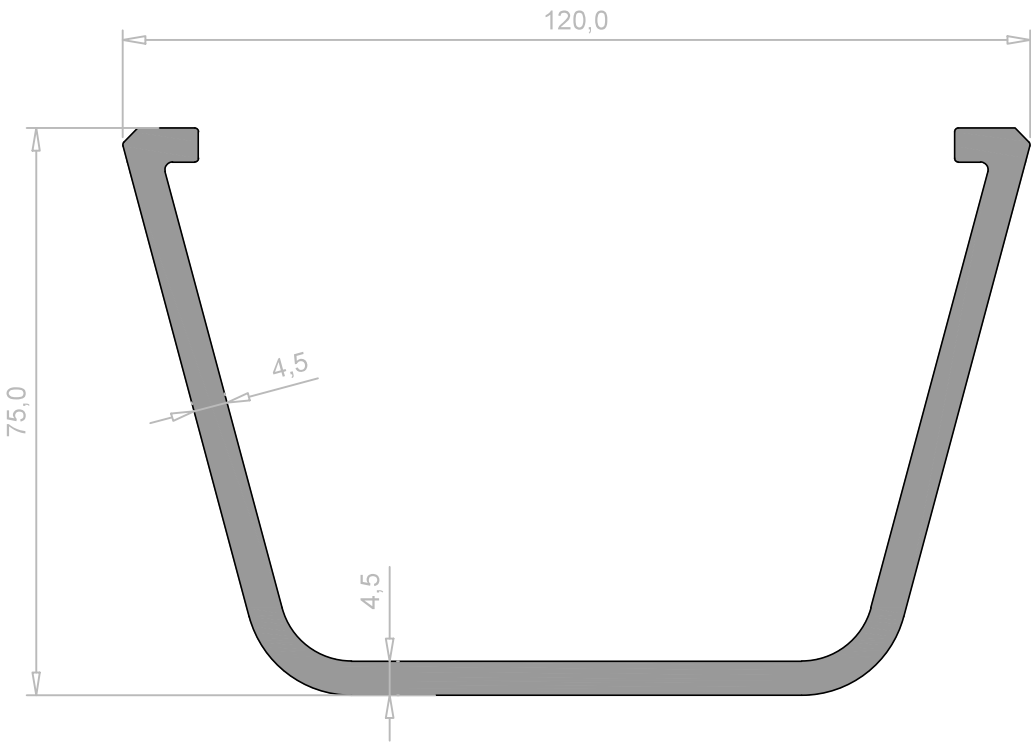
E900931	Espes.	Sup. Ext.	Sup. Total	Peso
Traviesa de 120x80	4 / 6 mm	566 dm ² /m	566 dm ² /m	3.678 Kg/m
	Momento Inercia	Ix: 106 cm ⁴	Iy: 294 cm ⁴	NAVARRA



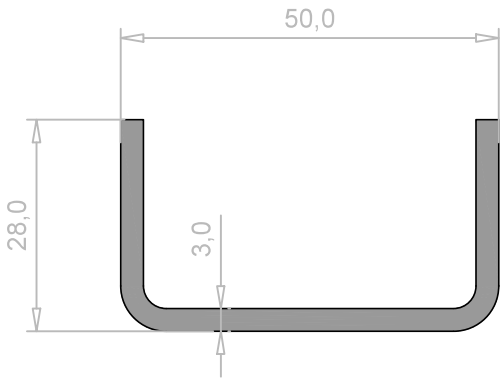
2056192	Espes.	Sup. Ext.	Sup. Total	Peso
Traviesa de 120x80	4/6,0 mm	588 dm ² /m	588 dm ² /m	3.822 Kg/m
	Momento Inercia	Ix: 117 cm ⁴	Iy: 306 cm ⁴	NAVARRA



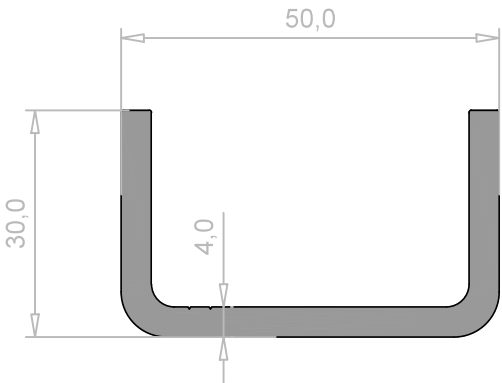
M-3661	Espes.	Sup. Ext.	Sup. Total	Peso
Traviesa Oblicua de 120x75	4.5 mm	470 dm ² /m	470 dm ² /m	2.836 Kg/m
	Momento Inercia	Ix: 67.4 cm ⁴	Iy: 187 cm ⁴	LA ROCA



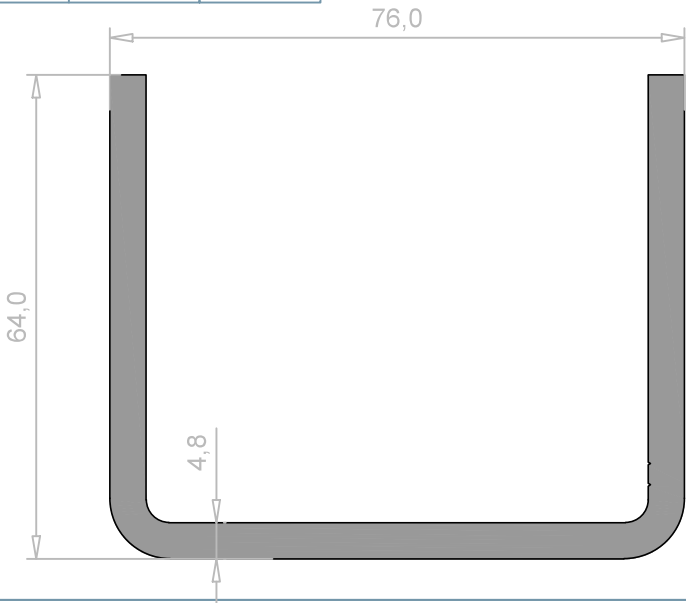
E-6027	Espes.	Sup. Ext.	Sup. Total	Peso
U de 50x28	3.0 mm	198 dm ² /m	198 dm ² /m	0.779 Kg/m
	Momento Inercia	Ix: 2.2 cm ⁴	Iy: 10.7 cm ⁴	LA ROCA



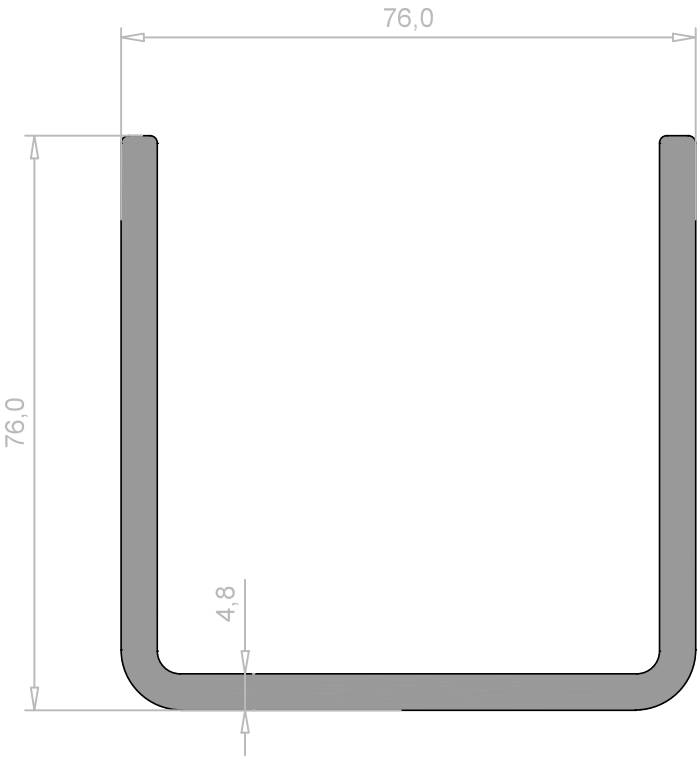
E-60000	Espes.	Sup. Ext.	Sup. Total	Peso
U de 50x30	4.0 mm	205 dm ² /m	205 dm ² /m	1.070 Kg/m
	Momento Inercia	Ix: 3.4 cm ⁴	Iy: 14.5 cm ⁴	LA ROCA



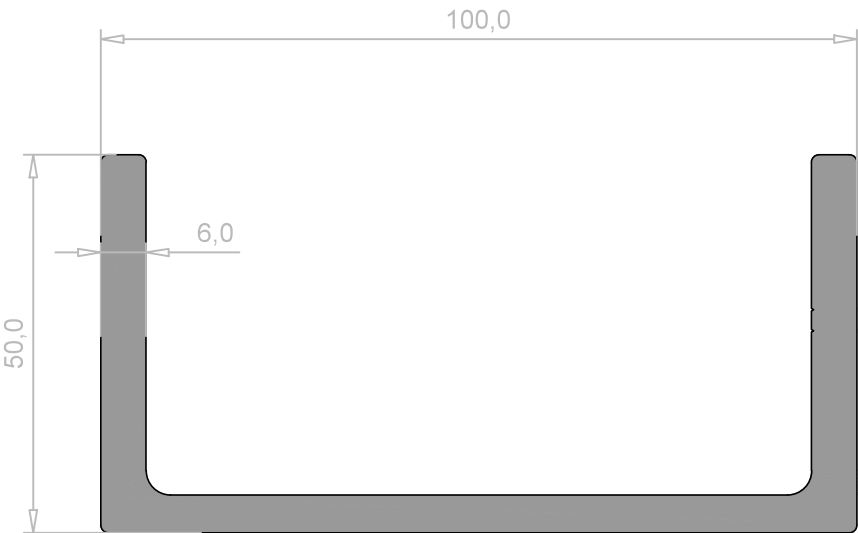
E-7585	Espes.	Sup. Ext.	Sup. Total	Peso
U de 64x76	4.8 mm	389 dm ² /m	389 dm ² /m	2.456 Kg/m
	Momento Inercia	Ix: 38.4 cm ⁴	Iy: 86.5 cm ⁴	LA ROCA



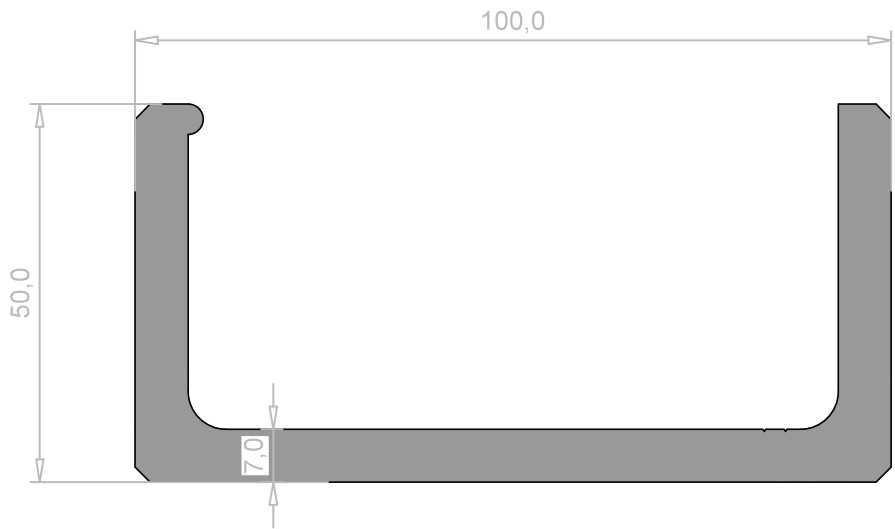
2048051	Espes.	Sup. Ext.	Sup. Total	Peso
U de 76x76	4.8 mm	437 dm ² /m	437 dm ² /m	2.767 Kg/m
	Momento Inercia	Ix: 61.7 cm ⁴	Iy: 101 cm ⁴	NAVARRA



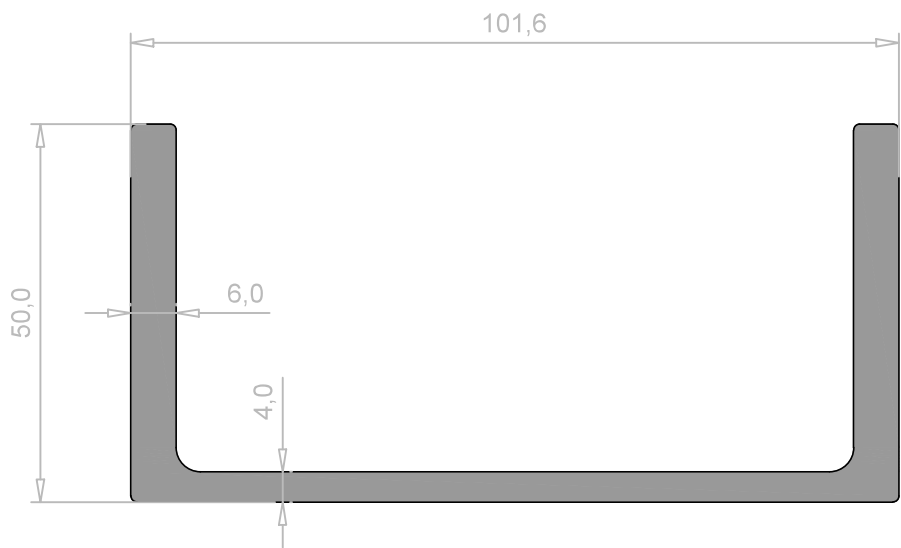
E-60027	Espes.	Sup. Ext.	Sup. Total	Peso
U de 100x50	6.0 mm	385 dm ² /m	385 dm ² /m	2.816 Kg/m
	Momento Inercia	Ix: 25.3 cm ⁴	Iy: 162 cm ⁴	LA ROCA



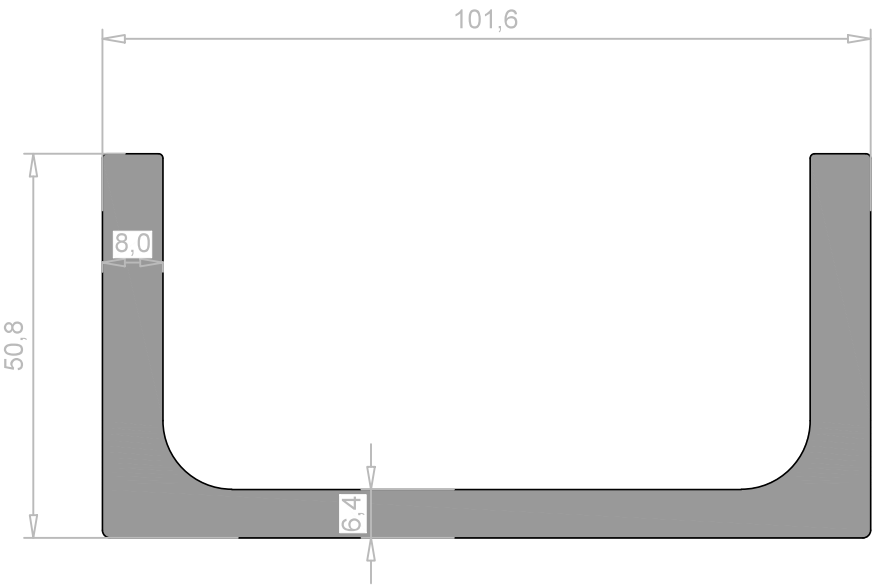
E-60001	Espes.	Sup. Ext.	Sup. Total	Peso
U de 100x50	7.0 mm	380 dm ² /m	380 dm ² /m	3.540 Kg/m
	Momento Inercia	Ix: 30 cm ⁴	Iy: 190 cm ⁴	LA ROCA



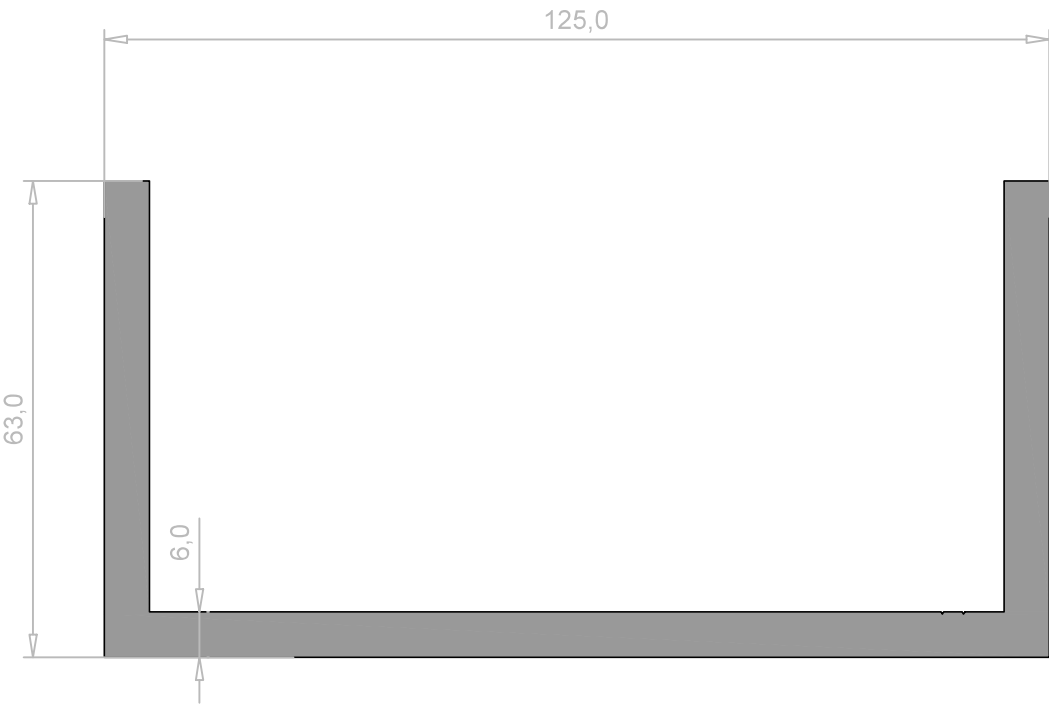
2041502	Espes.	Sup. Ext.	Sup. Total	Peso
U de 101,6x50	4,0/6,0 mm	392 dm ² /m	392 dm ² /m	2.600 Kg/m
	Momento Inercia	Ix: 24.4 cm ⁴	Iy: 162 cm ⁴	NAVARRA



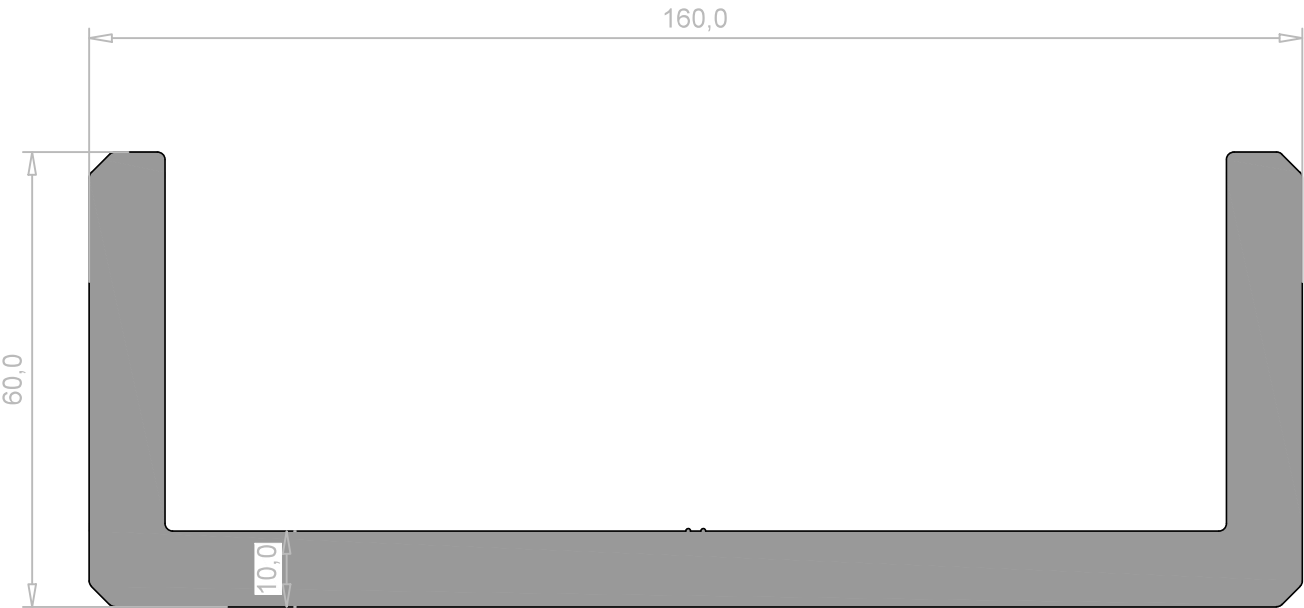
E011267	Espes.	Sup. Ext.	Sup. Total	Peso
U de 101,8x50,8	6,4/8,0 mm	384 dm ² /m	384 dm ² /m	3.676 Kg/m
	Momento Inercia	Ix: 34 cm ⁴	Iy: 218 cm ⁴	NAVARRA



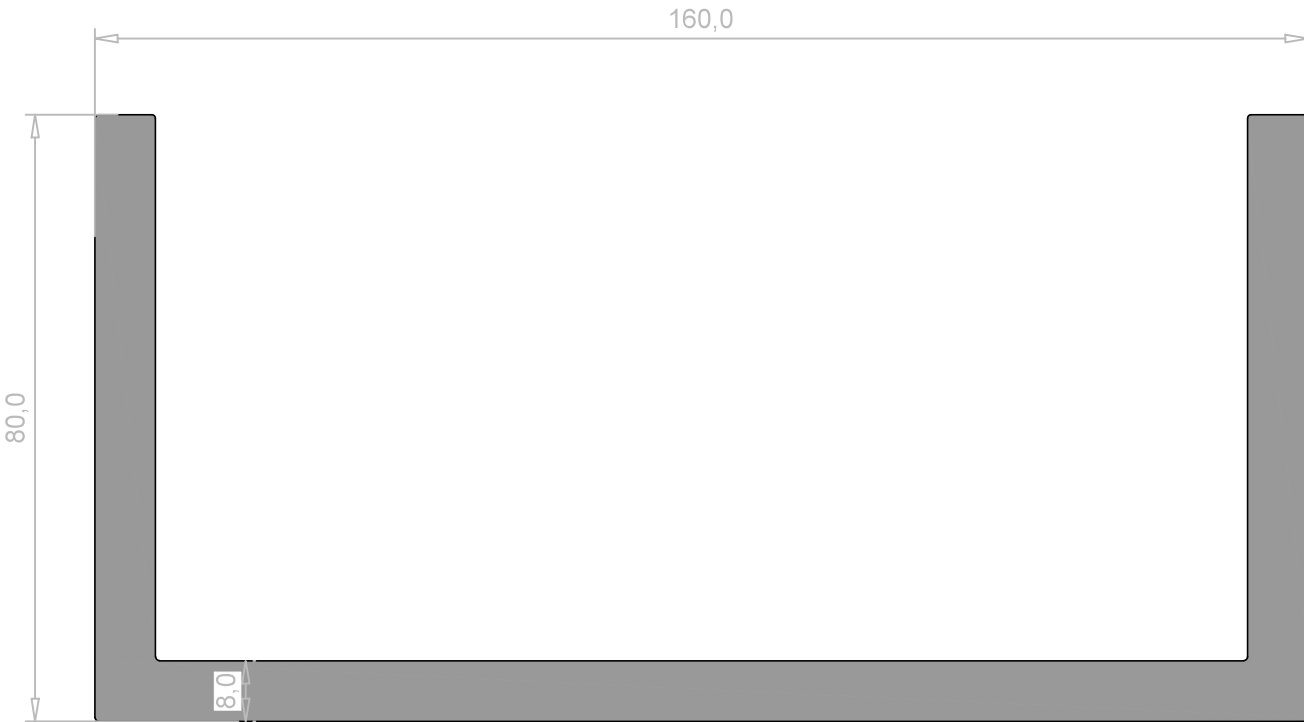
U-46056	Espes.	Sup. Ext.	Sup. Total	Peso
U de 125x63	6.0 mm	491 dm ² /m	491 dm ² /m	3.872 Kg/m
	Momento Inercia	Ix: 54.2 cm ⁴	Iy: 340 cm ⁴	LA ROCA



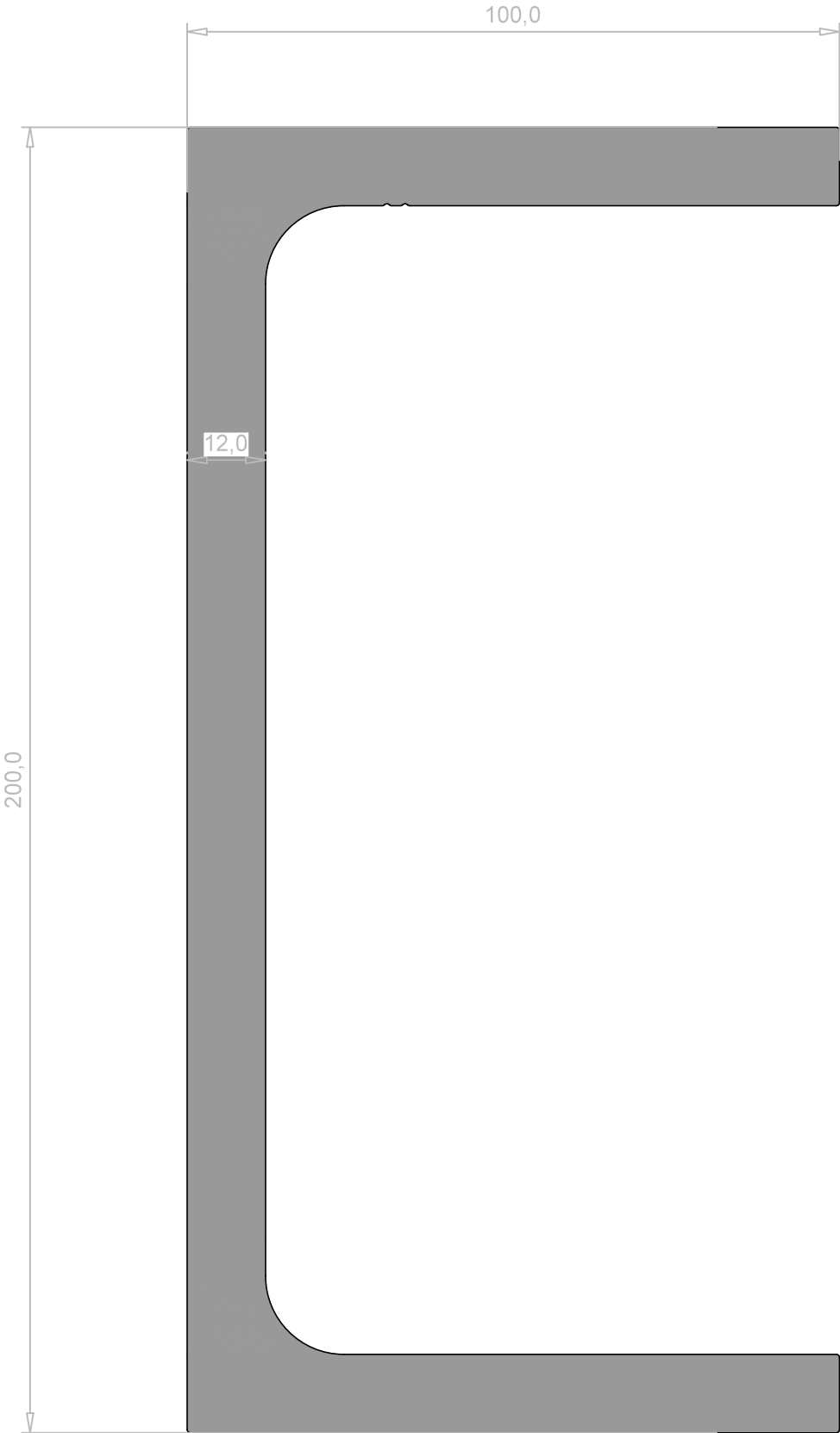
E012179	Espes.	Sup. Ext.	Sup. Total	Peso
U de 160x60	10.0 mm	531 dm ² /m	531 dm ² /m	6.971 Kg/m
	Momento Inercia	Ix: 75.6 cm ⁴	Iy: 893 cm ⁴	NAVARRA



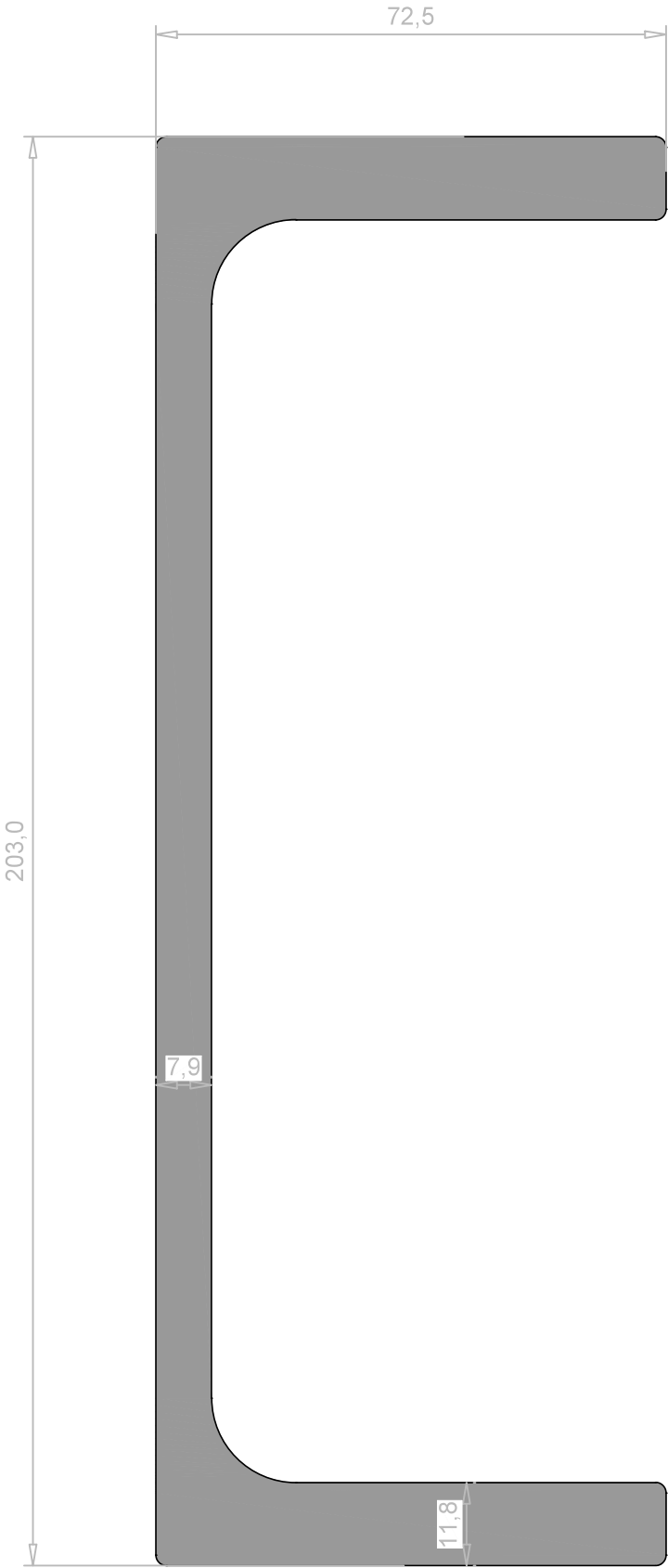
E010143	Espes.	Sup. Ext.	Sup. Total	Peso
U de 160x80	8.0 mm	622 dm ² /m	622 dm ² /m	6.566 Kg/m
	Momento Inercia	Ix: 147 cm ⁴	Iy: 939 cm ⁴	NAVARRA



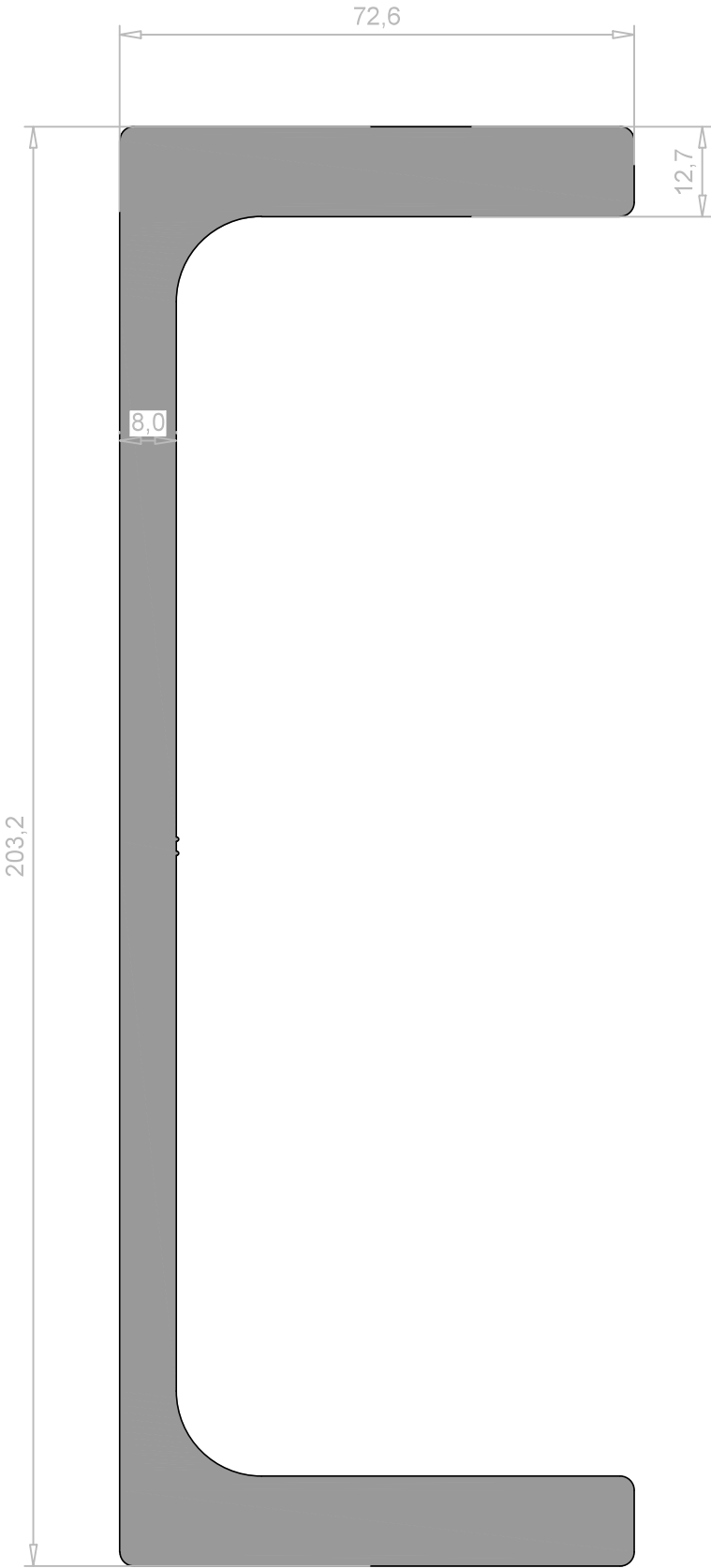
E-60079	Espes.	Sup. Ext.	Sup. Total	Peso
U de 200x100	12 mm	765 dm ² /m	765 dm ² /m	12.393 Kg/m
	Momento Inercia	Ix: 2713 cm ⁴	Iy: 421 cm ⁴	LA ROCA



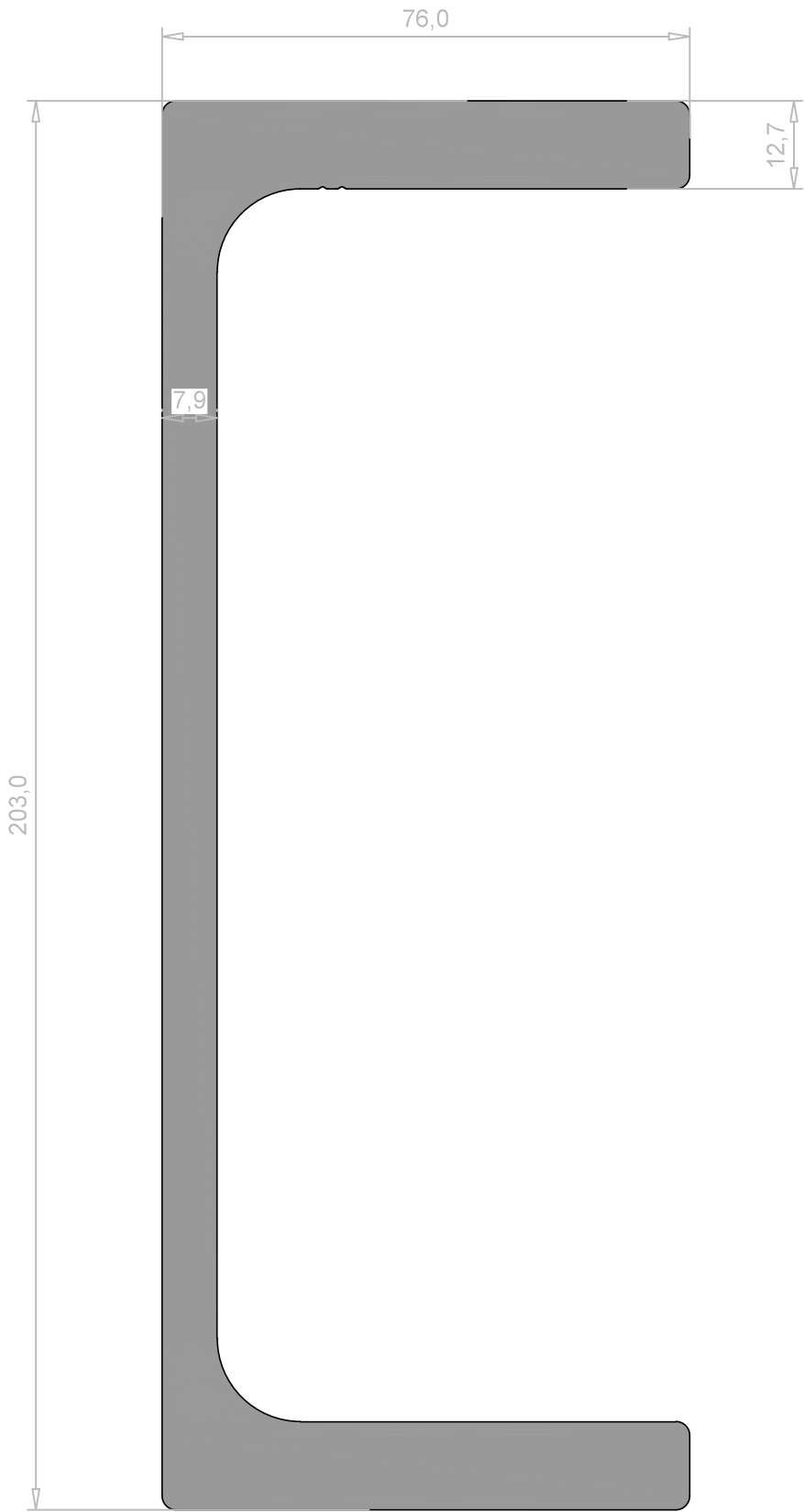
M-3797	Espes.	Sup. Ext.	Sup. Total	Peso
U de 203x72.5	7,9/11,8 mm	666 dm ² /m	666 dm ² /m	8.638 Kg/m
	Momento Inercia	Ix: 1990 cm ⁴	Iy: 157 cm ⁴	LA ROCA



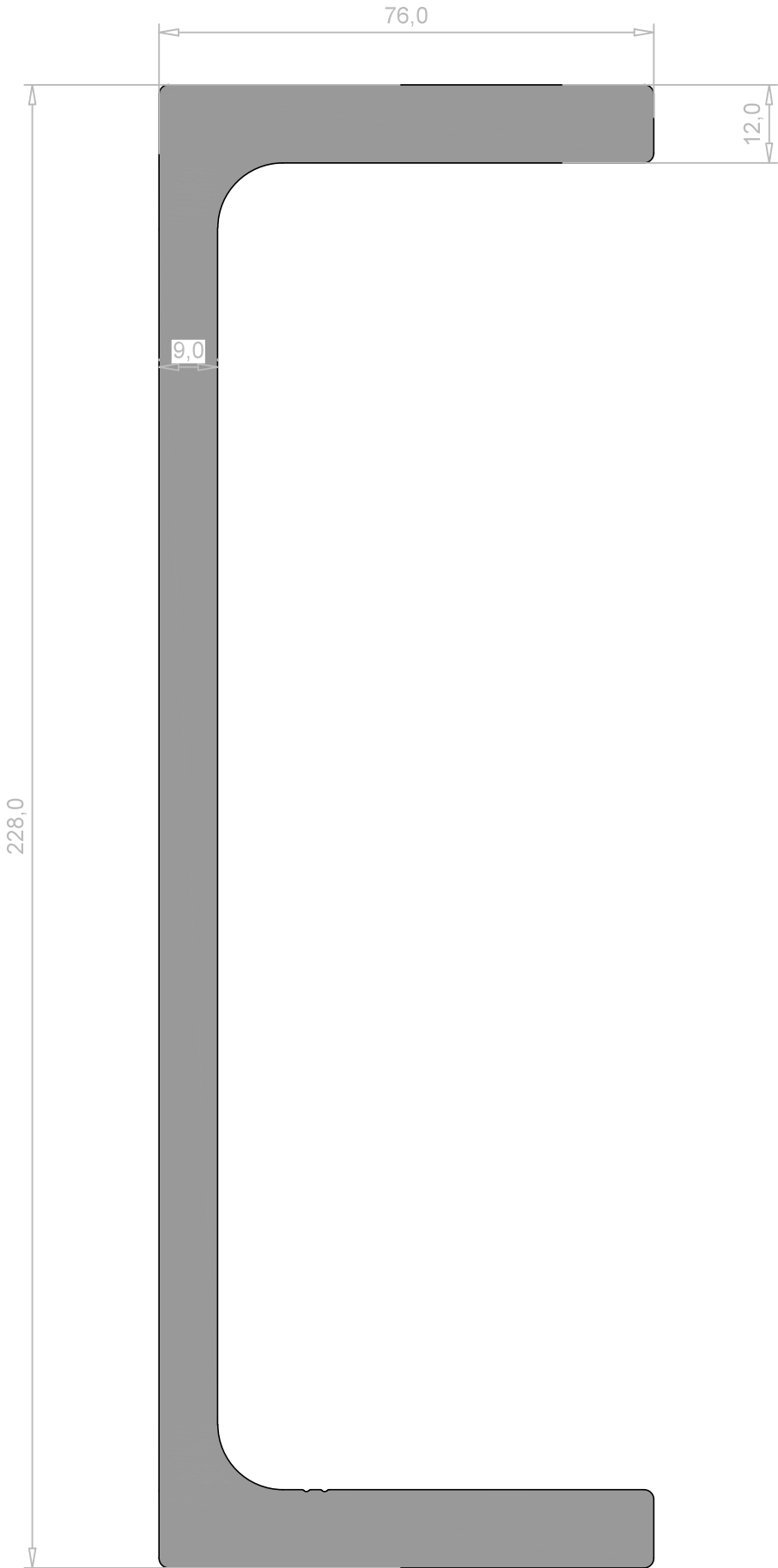
E010774	Espes.	Sup. Ext.	Sup. Total	Peso
U de 203,2x72,6	8,0/12,7 mm	666 dm ² /m	666 dm ² /m	8.973 Kg/m
	Momento Inercia	Ix: 2091 cm ⁴	Iy: 165 cm ⁴	NAVARRA



E-12559	Espes.	Sup. Ext.	Sup. Total	Peso
U de 203x76	7,9/12,7 mm	679 dm ² /m	679 dm ² /m	9.205 Kg/m
	Momento Inercia	Ix: 2162 cm ⁴	Iy: 188 cm ⁴	LAR ROCA



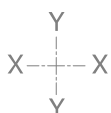
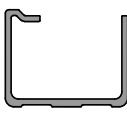
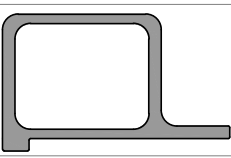
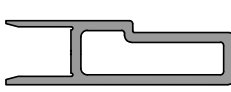
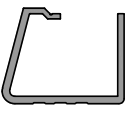
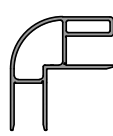
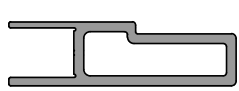
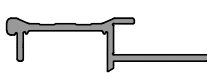
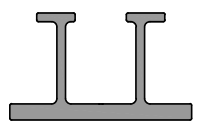
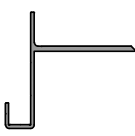
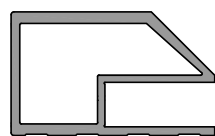
E12560	Espes.	Sup. Ext.	Sup. Total	Peso
U de 228x76	9,0/12,0 mm	730 dm ² /m	730 dm ² /m	10.026 Kg/m
	Momento Inercia	Ix: 2805 cm ⁴	Iy: 191 cm ⁴	LA ROCA



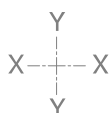
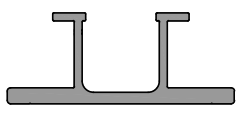
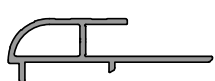
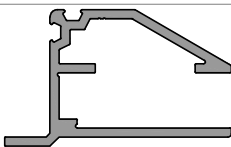
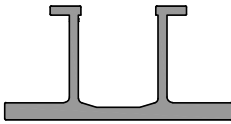
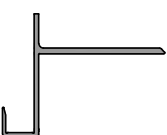
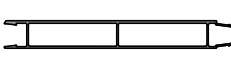
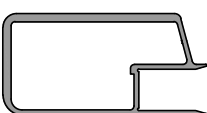
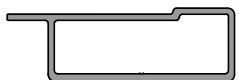
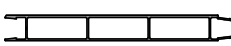
5. SISTEMAS DE VOLQUETE

5.1- LISTADO

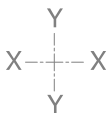
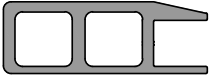
Listado

Perfil	Sección 	Descripción	Peso Kg./m	Superficie Exterior (dm ² /m) Total (dm ² /m)	Momento Inercia Ix (cm ⁴) Iy (cm ⁴)	Pág.
2048049 NAVARRA		Remate de 132x42,5	3,737	548 548	106 226	5.2.3
2050605 NAVARRA		Cerco Superior de 81x102	1,933	228 373	17 35	5.2.12
2055960 NAVARRA		Remate de 73x25	5,000	434 657	37,8 291	5.2.11
2062140 NAVARRA		Remate de 73x44	5,288	627 627	185 344	5.2.4
2067133 NAVARRA		Remate Posterior de 140	4,843	630 944	- -	5.2.10
E-7693 LA ROCA		Cerco Superior de 90x115	5,039	437 660	38,2 299	5.2.11
E-7695 LA ROCA		Esquinero Curvo	5,113	595 595	25,3 598	5.2.5
E-9548 LA ROCA		Cerco Superior de 80	3,029	643 982	19,1 453	5.2.17
E-10423 LA ROCA		Esquinero Delantero	11,910	797 797	518 895	5.2.14
E-60009 LA ROCA		Remate Posterior de 140	5,484	722 722	387 460	5.2.8
E-60033 LA ROCA		Cerco Superior	8,093	578 944	291 553	5.2.1

Listado

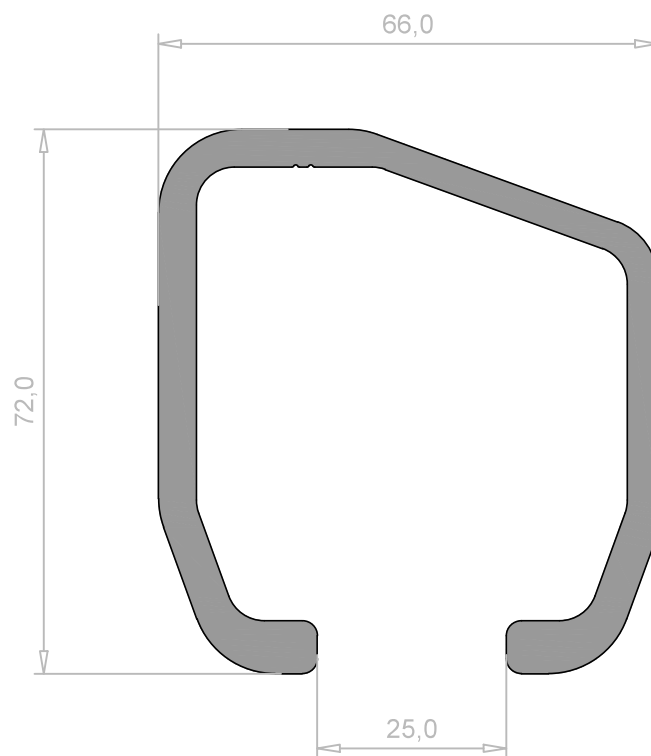
Perfil	Sección 	Descripción	Peso Kg./m	Superficie Exterior (dm ² /m) Total (dm ² /m)	Momento Inercia Ix (cm ⁴) Iy (cm ⁴)	Pág.
E-60067 LA ROCA		Lama Lateral 203x30	10,282	769 769	247 1122	5.2.15
E-60080 LA ROCA		Fijación Volquete de 170x100	5,713	530 760	81 424	5.2.2
E-60094 LA ROCA		Cerco Inferior	5,684	594 766	55,2 572	5.2.6
E-60110 LA ROCA		Complemente Puerta Posterior	4,682	672 672	- -	5.2.13
E010355 NAVARRA		Cerco Superior de 85	5,838	722 722	406 481	5.2.9
E010775 NAVARRA		Lama Vertical 225x30	12,067	834 834	467 1280	5.2.16
E010837 NAVARRA		Fijación Volquete de 200x80	4,686	667 667	256 388	5.2.7
E553837 NAVARRA		Lama Lateral 250x30	3,475	665 1151	22 676	5.2.17
E554265 NAVARRA		Cerco Superior de 50	5,673	526 905	178 472	5.2.2
E554266 NAVARRA		Cerco Inferior V30	3,192	341 608	32,9 180	5.2.12
E554492 NAVARRA		Remate Puerta Posterior de 125	3,807	699 1263	23,8 818	5.2.18

Listado

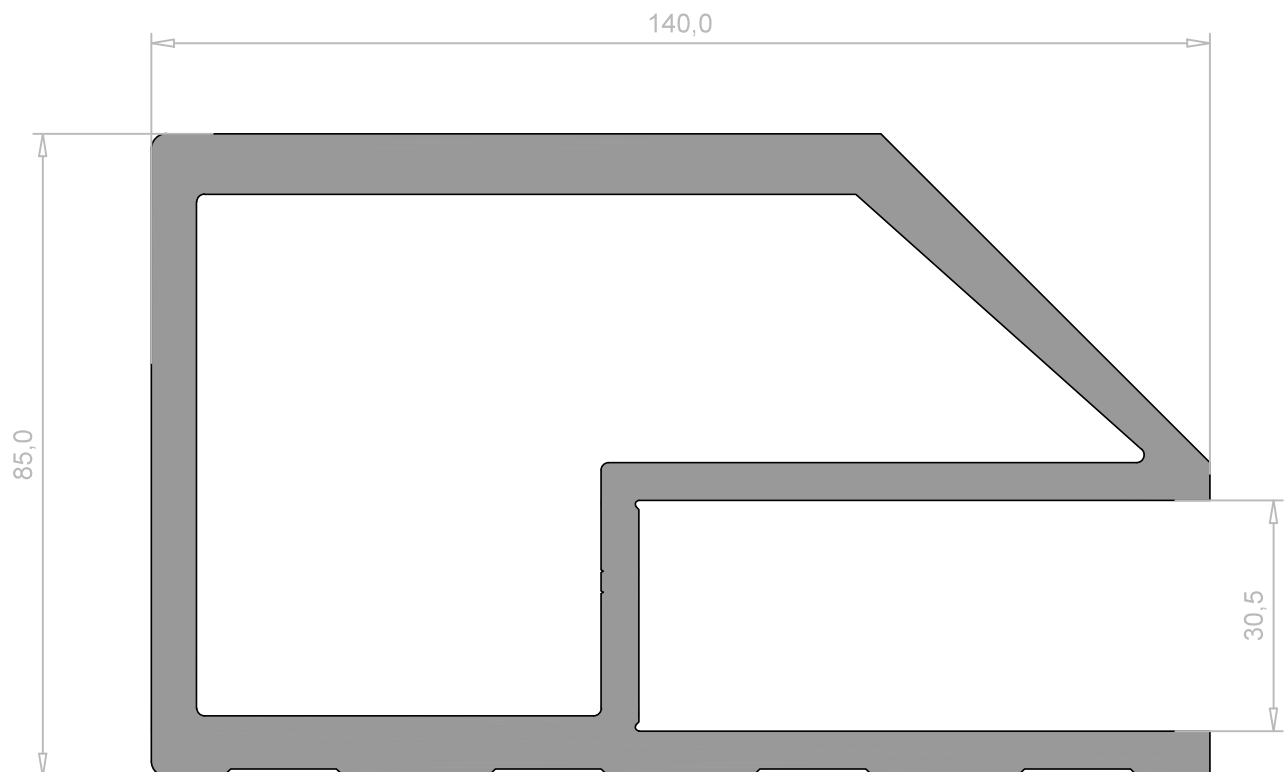
Perfil	Sección 	Descripción	Peso Kg./m	Superficie Exterior (dm ² /m) Total (dm ² /m)	Momento Inercia Ix (cm ⁴) Iy (cm ⁴)	Pág.
E554983 NAVARRA		Cerco Inferior	6,709	424 703	74 378	5.2.3
E557410 NAVARRA		Fijación Volquete de 200x100	4,890	699 1250	28,7 981	5.2.18
HTR7500 NAVARRA		Cerco Inferior	2,624	414 414	- -	5.2.1
		Lama de 233,5x30				
		Cerco Superior V30 de 75				
		Remate de 132x42,5				
		Lama Lateral 250x30				
		Remate de 145				
		Cerco Superior de 47,5				
		Lama Lateral 250x30				
		Acople Cerco Superior 72x66				

5.2- PERFILES 1:1

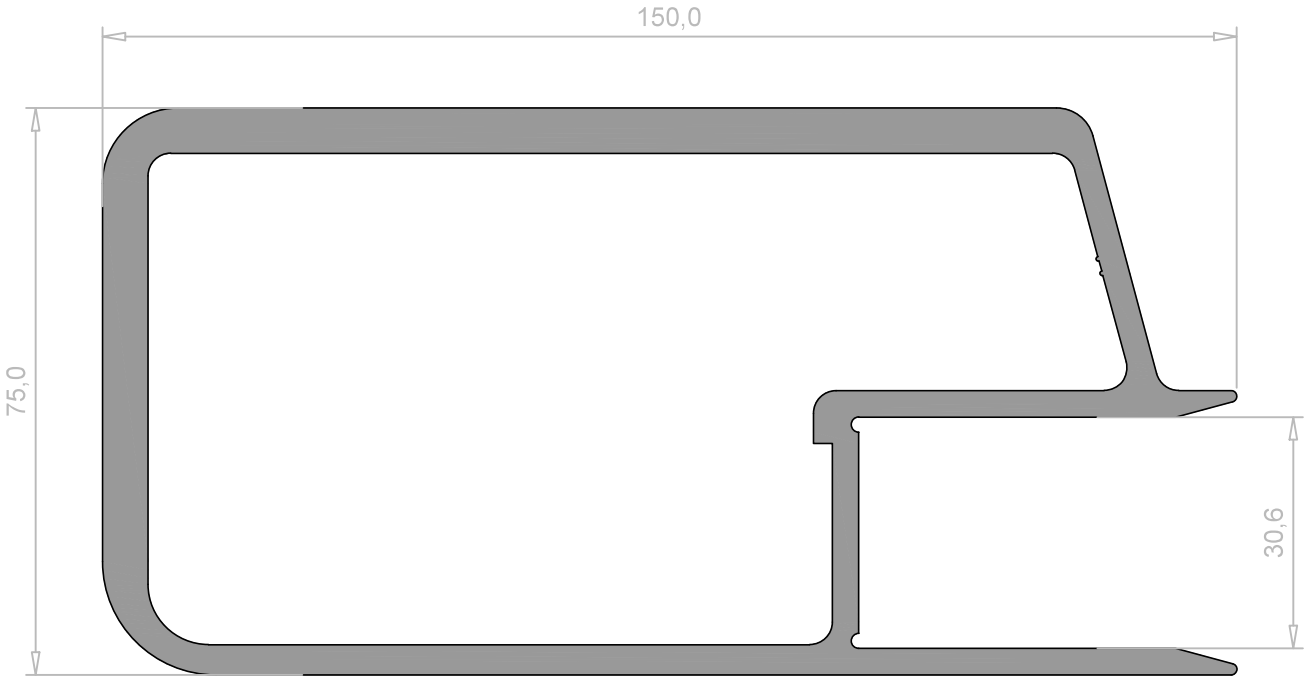
HTR7500	Espes.	Sup. Ext.	Sup. Total	Peso
Acople Cerco Superior 72x66	4 / 5 mm	414 dm ² /m	414 dm ² /m	2.624 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA



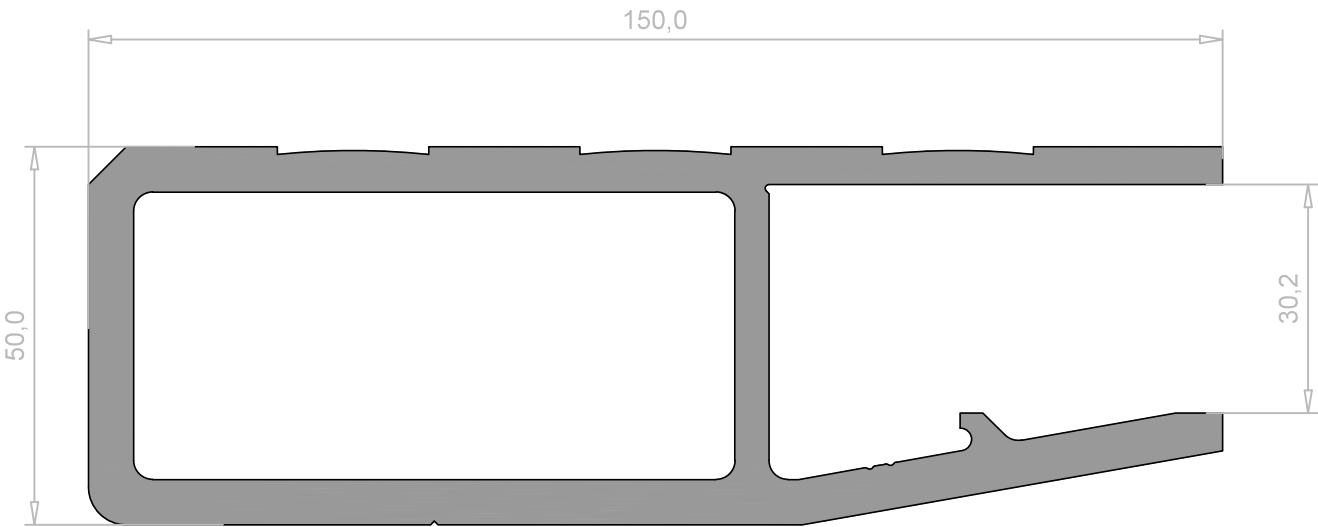
E-60033	Espes.	Sup. Ext.	Sup. Total	Peso
Cerco Superior de 85	6 / 8 mm	578 dm ² /m	944 dm ² /m	8.093 Kg/m
	Momento Inercia	Ix: 291 cm ⁴	Iy: 553 cm ⁴	LA ROCA



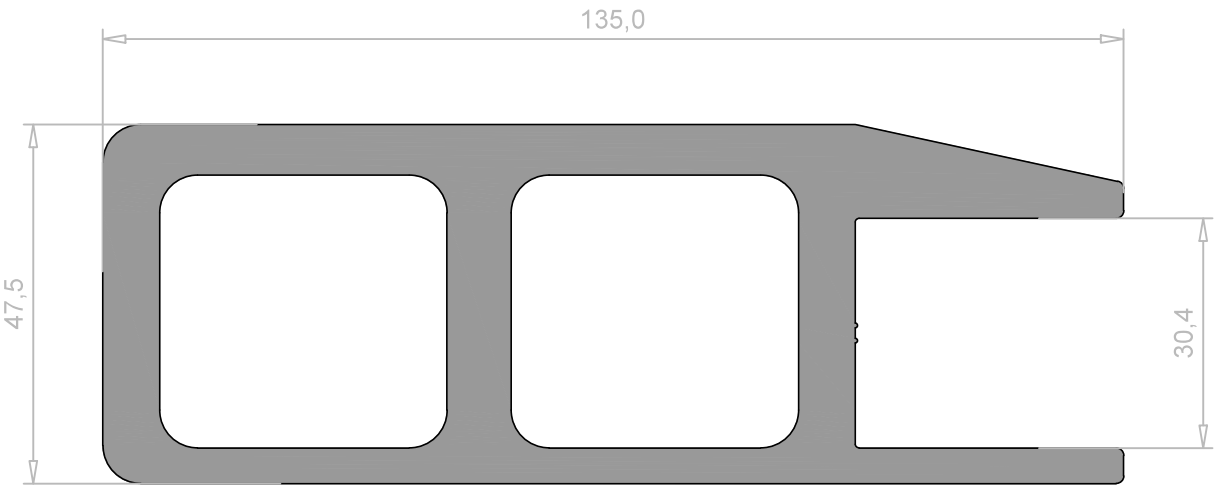
E554265	Espes.	Sup. Ext.	Sup. Total	Peso
Cerco Superior V30 de 75	4 / 6 mm	526 dm ² /m	905 dm ² /m	5.673 Kg/m
	Momento Inercia	Ix: 178 cm ⁴	Iy: 472 cm ⁴	NAVARRA



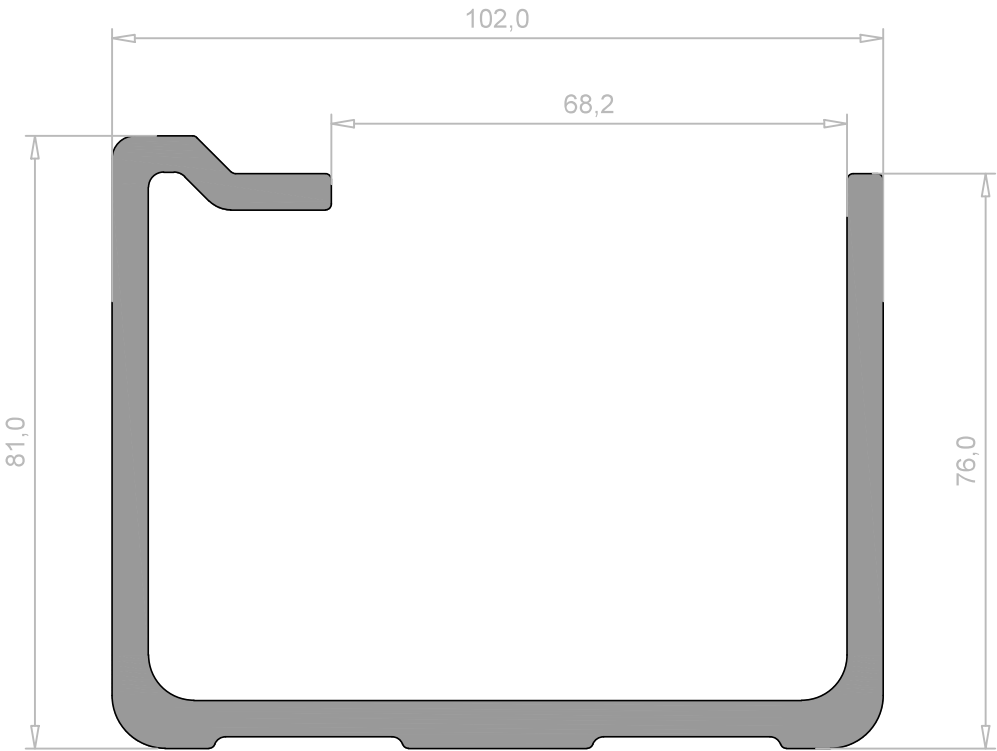
E-60080	Espes.	Sup. Ext.	Sup. Total	Peso
Cerco Superior de 50	6,0 mm	530 dm ² /m	760 dm ² /m	5.713 Kg/m
	Momento Inercia	Ix: 81 cm ⁴	Iy: 424 cm ⁴	LA ROCA



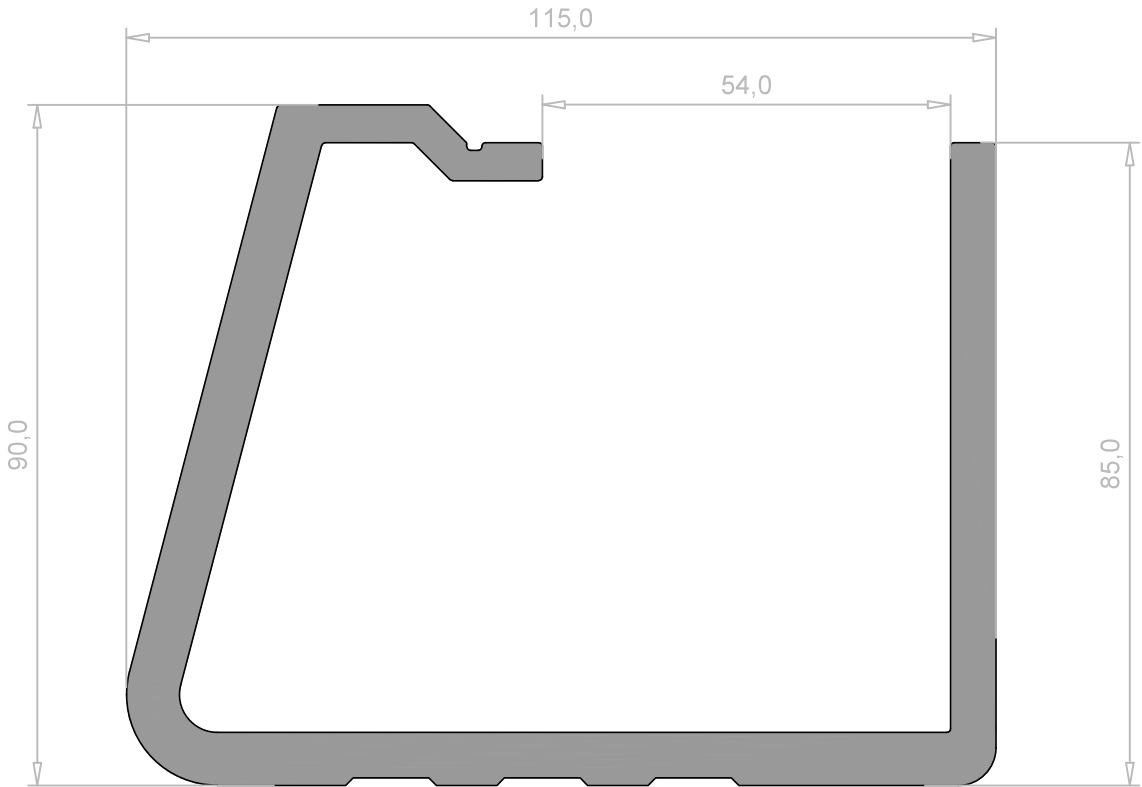
E554983	Espes.	Sup. Ext.	Sup. Total	Peso
Cerco Superior de 47,5	6,7/4,7 mm	424 dm ² /m	703 dm ² /m	6.709 Kg/m
	Momento Inercia	Ix: 74 cm ⁴	Iy: 378 cm ⁴	NAVARRA



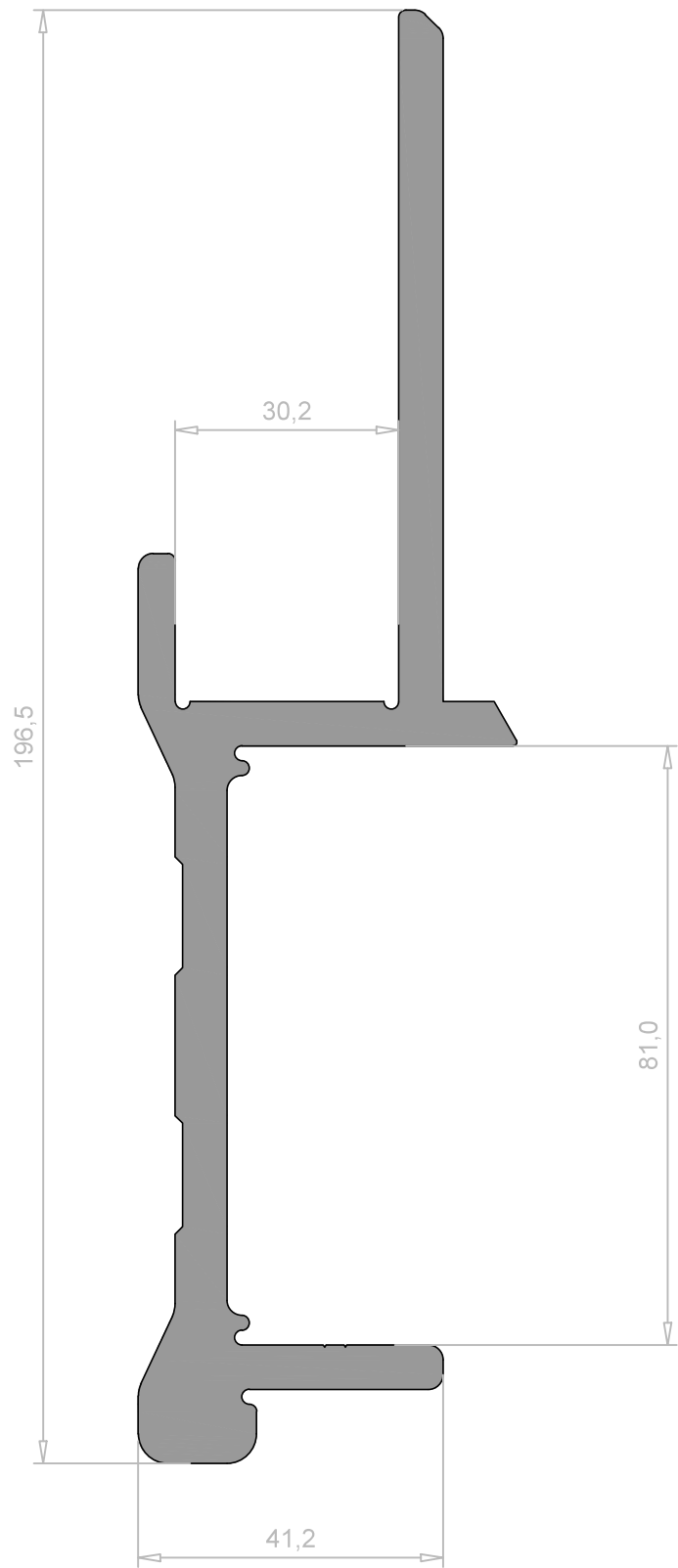
2048049	Espes.	Sup. Ext.	Sup. Total	Peso
Cerco Superior de 81x102	4.8 mm	548 dm ² /m	548 dm ² /m	3.737 Kg/m
	Momento Inercia	Ix: 106 cm ⁴	Iy: 226 cm ⁴	NAVARRA



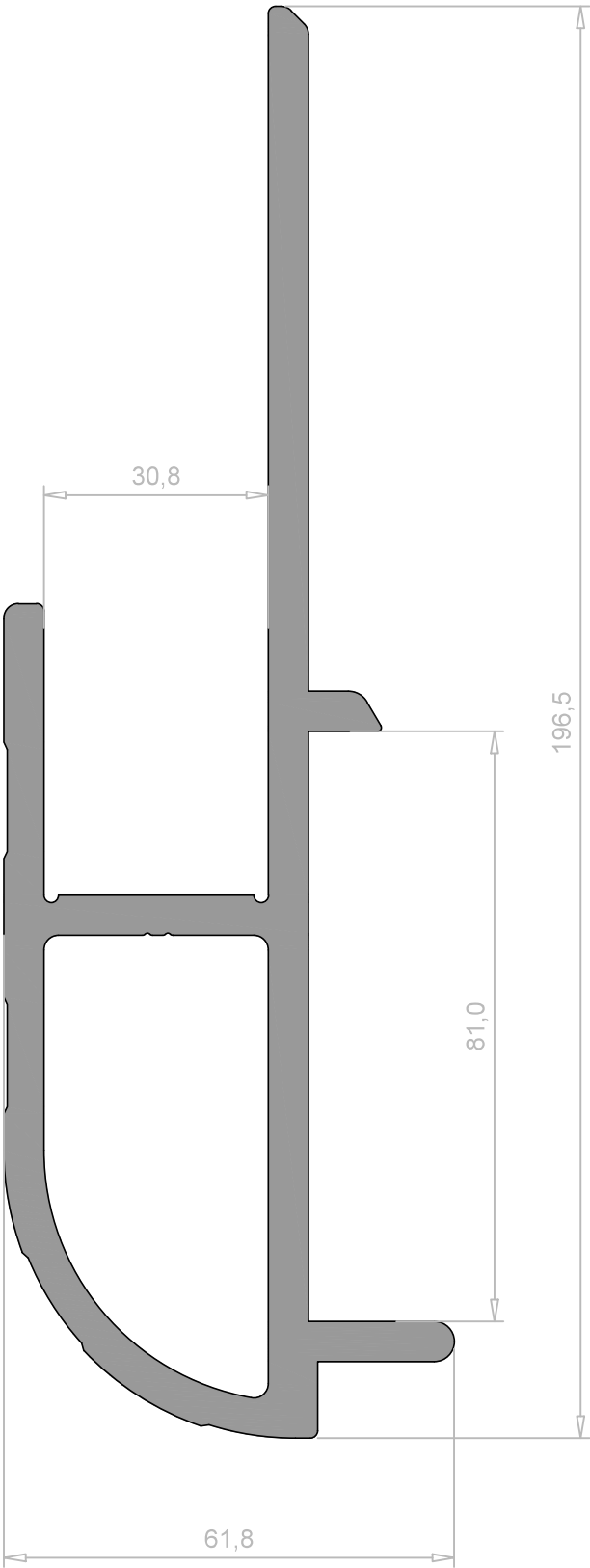
2062140	Espes.	Sup. Ext.	Sup. Total	Peso
Cerco Superior de 90x115	7.0 mm	627 dm ² /m	627 dm ² /m	5.288 Kg/m
	Momento Inercia	Ix: 185 cm ⁴	Iy: 344 cm ⁴	NAVARRA



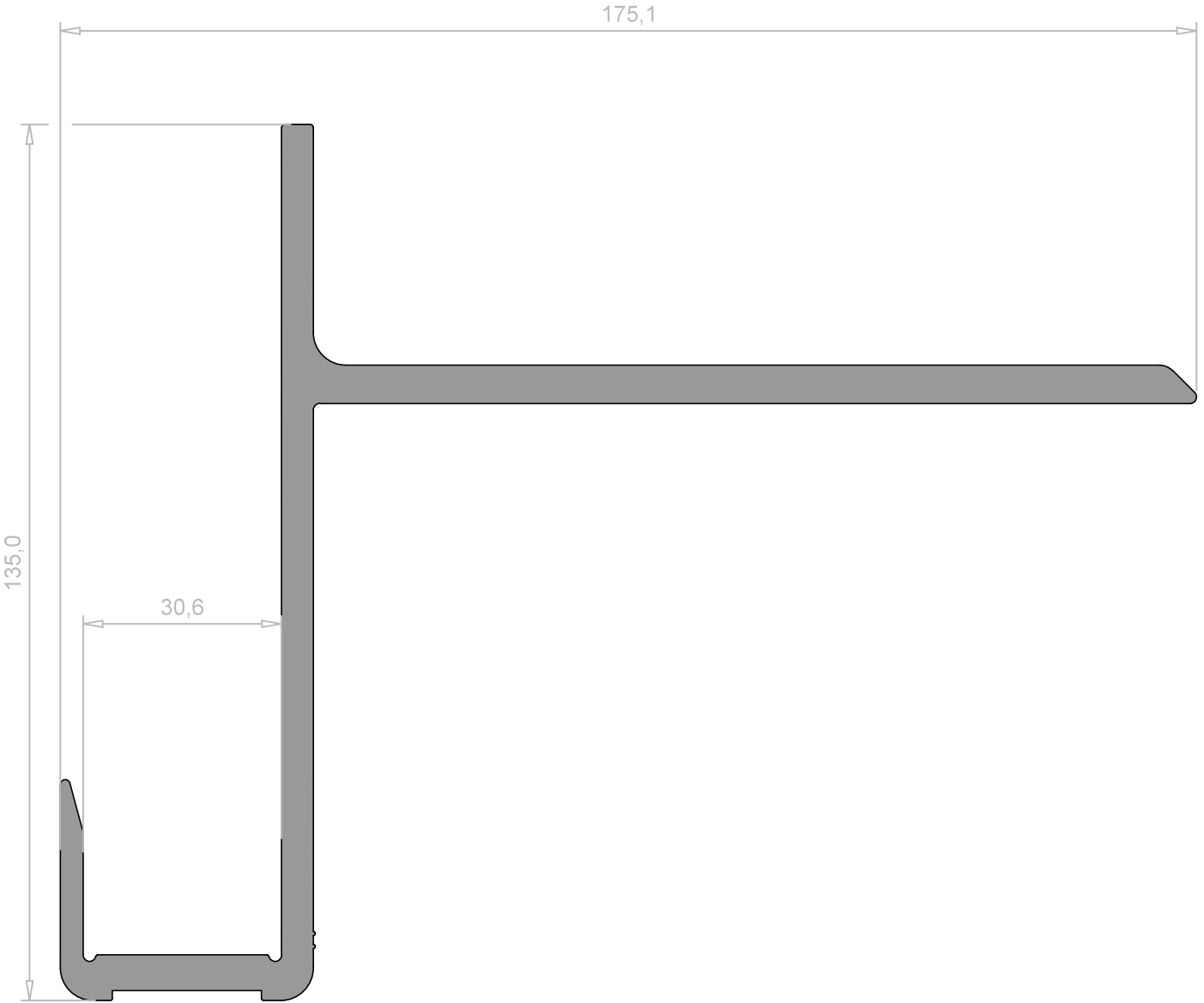
E-7695	Espes.	Sup. Ext.	Sup. Total	Peso
Cercos Superior	6,0 mm	595 dm ² /m	595 dm ² /m	5.113 Kg/m
	Momento Inercia	Ix: 598 cm ⁴	Iy: 25.3 cm ⁴	LA ROCA



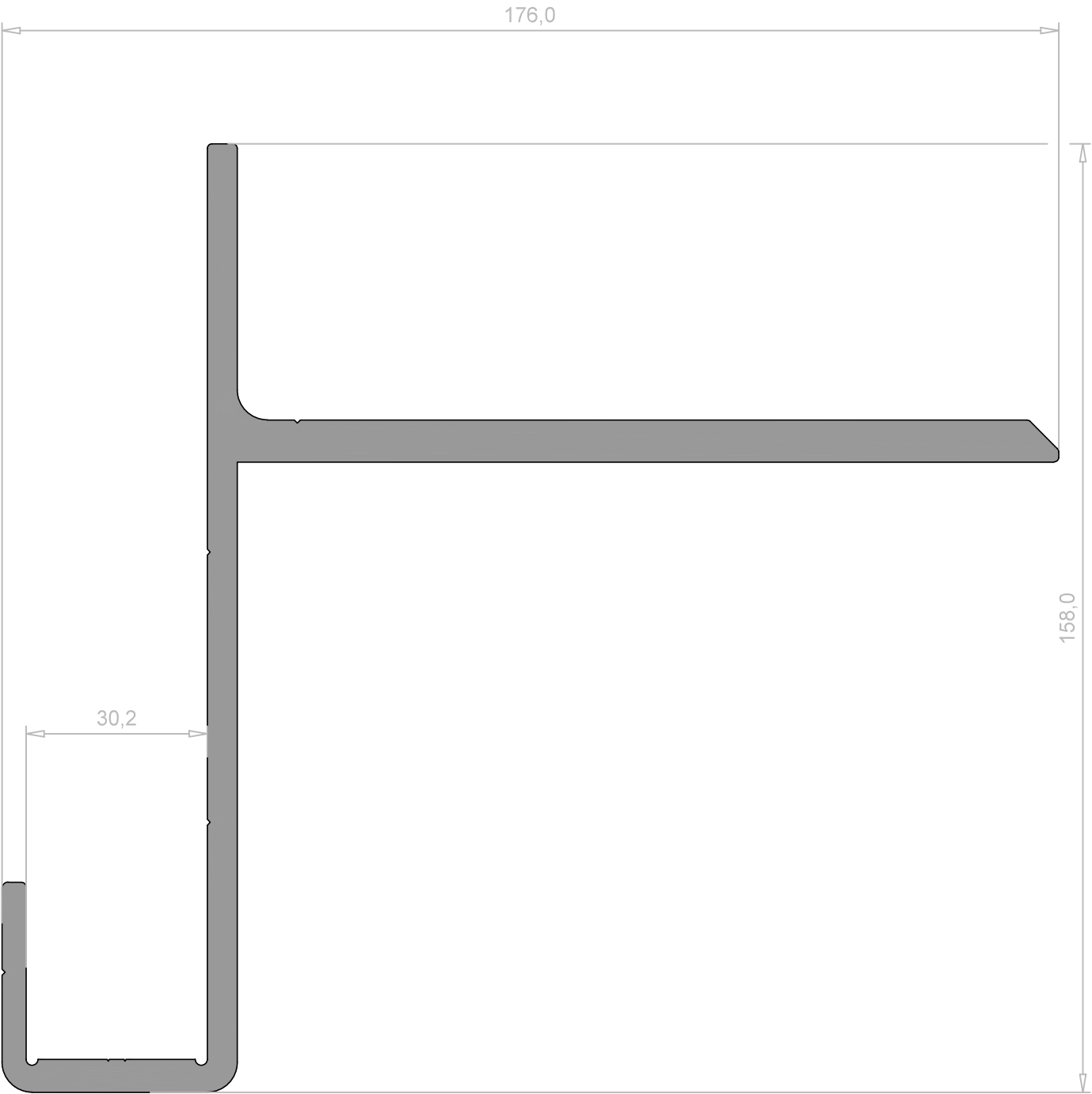
E-60094	Espes.	Sup. Ext.	Sup. Total	Peso
Cerco Inferior V30	5.5 mm	594 dm ² /m	766 dm ² /m	5.684 Kg/m
	Momento Inercia	Ix: 572 cm ⁴	Iy: 55.2 cm ⁴	LA ROCA



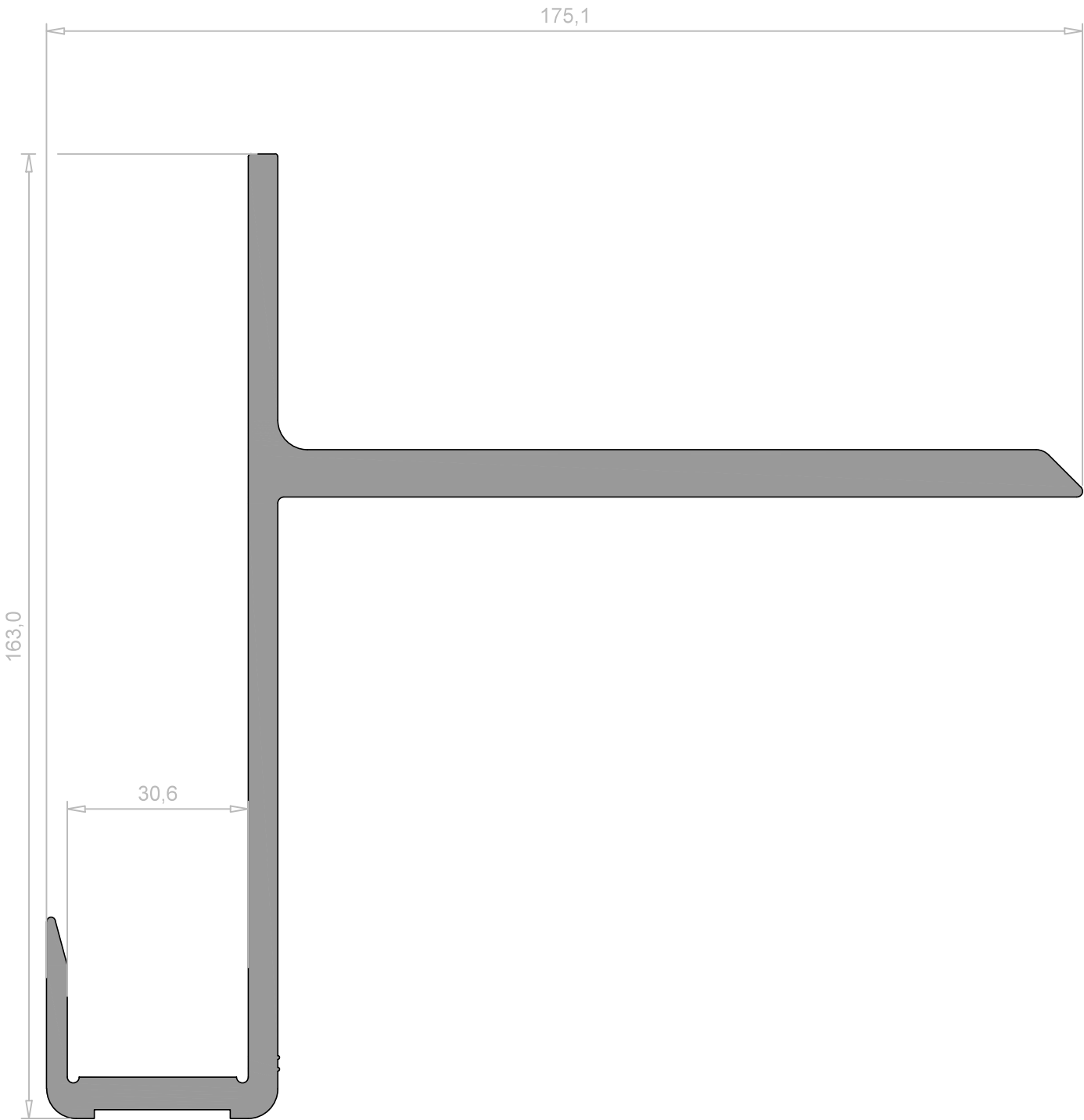
E010837	Espes.	Sup. Ext.	Sup. Total	Peso
Cerco Inferior	4,9/5,9 mm	667 dm ² /m	667 dm ² /m	4.686 Kg/m
	Momento Inercia	Ix: 256 cm ⁴	Iy: 388 cm ⁴	NAVARRA



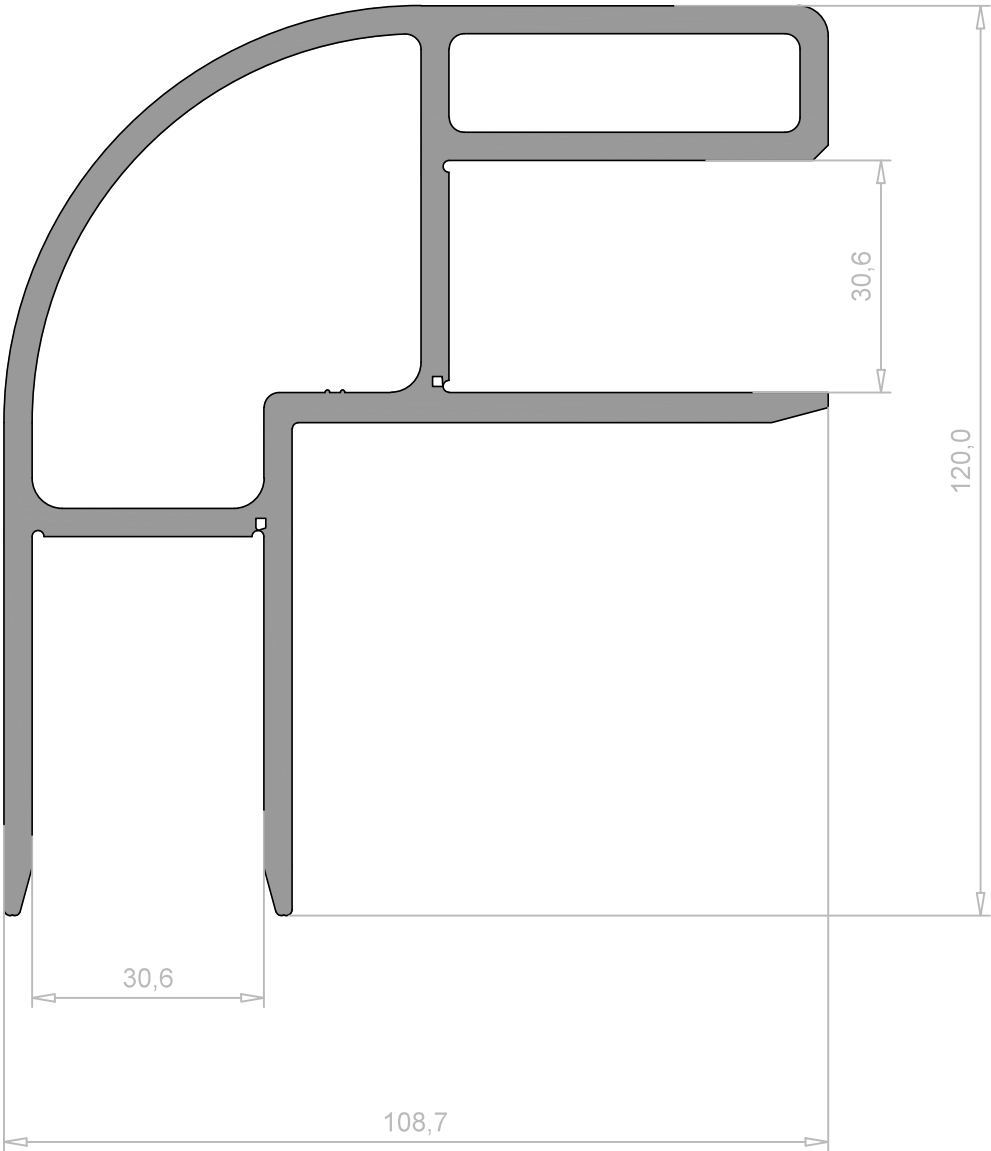
E-60009	Espes.	Sup. Ext.	Sup. Total	Peso
Cerco Inferior	5 / 7 mm	722 dm ² /m	722 dm ² /m	5.484 Kg/m
	Momento Inercia	Ix: 387 cm ⁴	Iy: 460 cm ⁴	LA ROCA



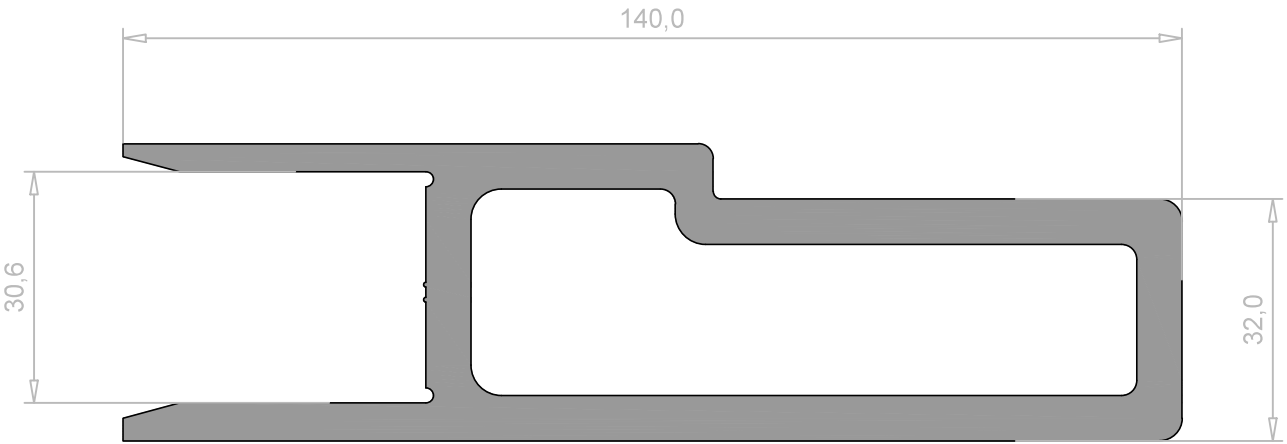
E010355	Espes.	Sup. Ext.	Sup. Total	Peso
Cerco Inferior	5 / 8 mm	722 dm ² /m	722 dm ² /m	5.838 Kg/m
	Momento Inercia	Ix: 406 cm ⁴	Iy: 481 cm ⁴	NAVARRA



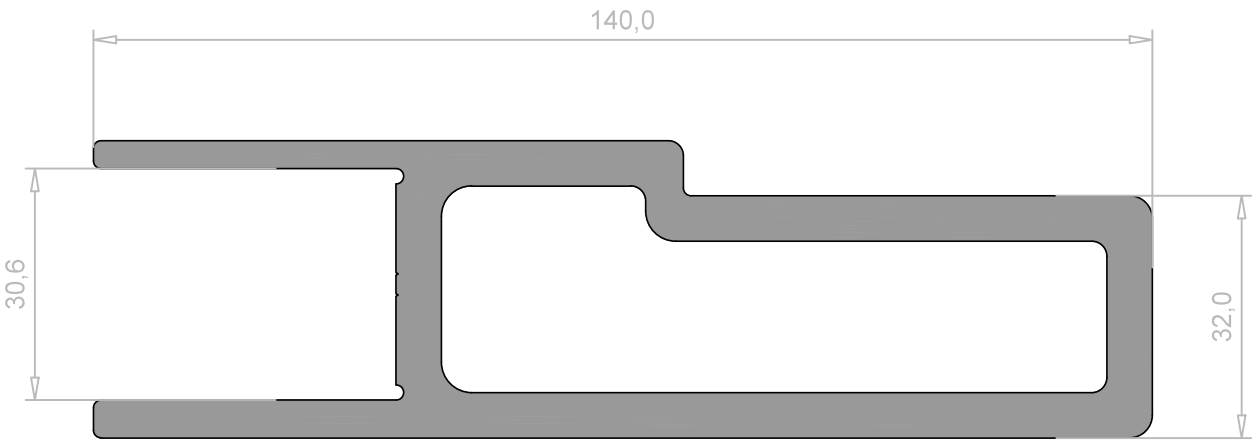
2067133	Espes.	Sup. Ext.	Sup. Total	Peso
Esquinero Curvo	3.7 mm	630 dm ² /m	944 dm ² /m	4.843 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA



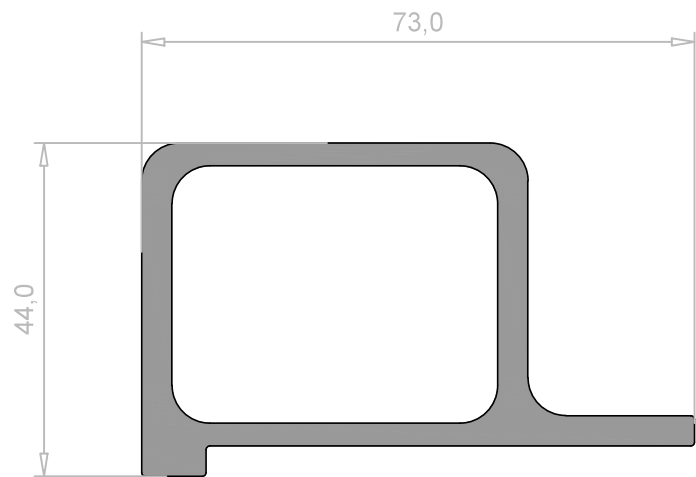
2055960	Espes.	Sup. Ext.	Sup. Total	Peso
Remate Posterior de 140	3.7 mm	434 dm ² /m	657 dm ² /m	5.000 Kg/m
	Momento Inercia	Ix: 37.8 cm ⁴	Iy: 291 cm ⁴	NAVARRA



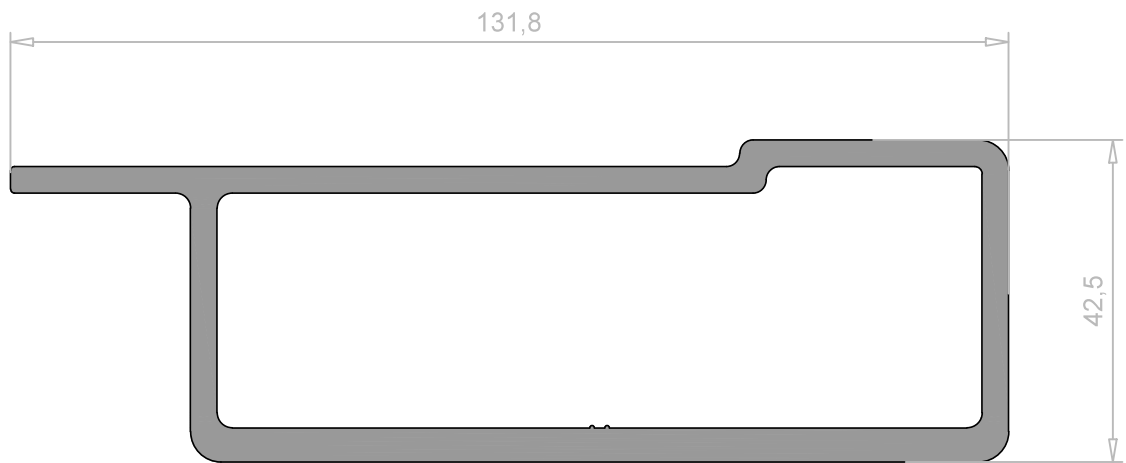
E-7693	Espes.	Sup. Ext.	Sup. Total	Peso
Remate Posterior de 140	6.0 mm	437 dm ² /m	660 dm ² /m	5.039 Kg/m
	Momento Inercia	Ix: 38.2 cm ⁴	Iy: 299 cm ⁴	LA ROCA



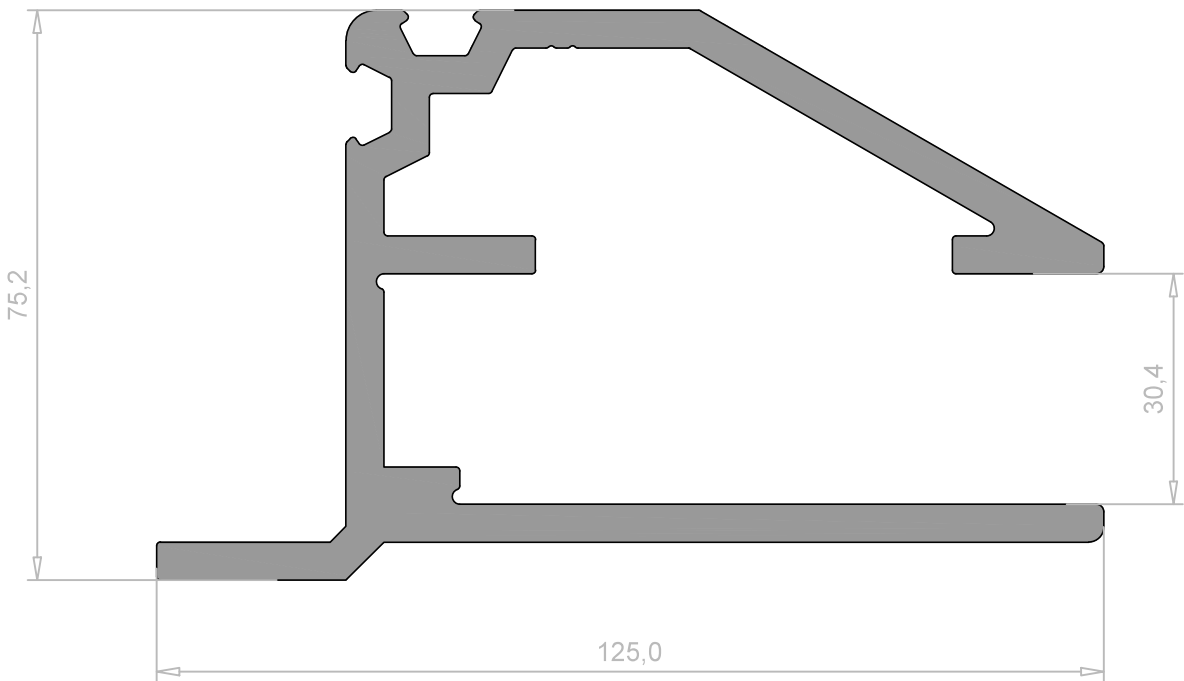
2050605	Espes.	Sup. Ext.	Sup. Total	Peso
Remate de 73x44	3 / 4 mm	228 dm ² /m	373 dm ² /m	1.933 Kg/m
	Momento Inercia	Ix: 17 cm ⁴	Iy: 35 cm ⁴	NAVARRA



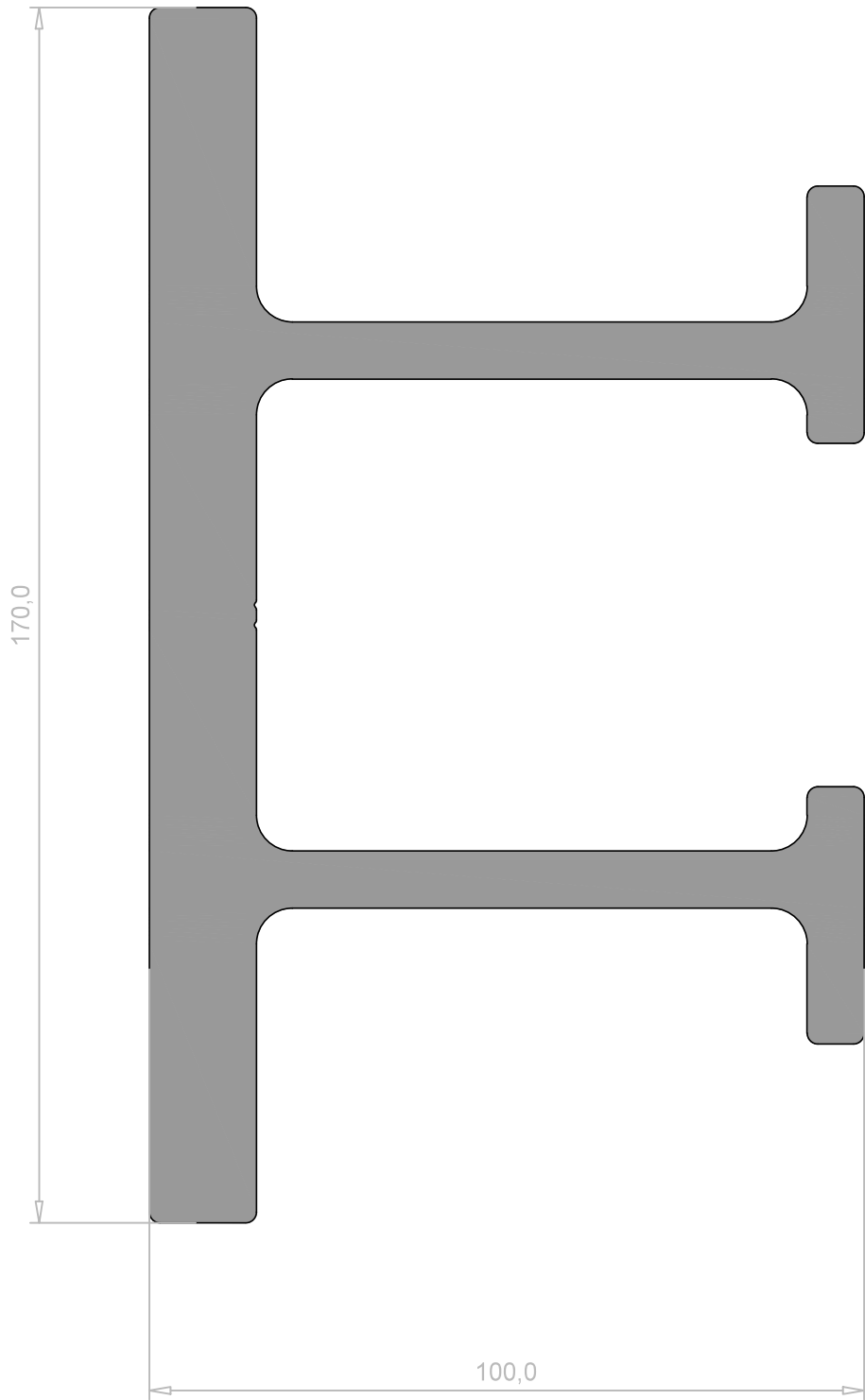
E554266	Espes.	Sup. Ext.	Sup. Total	Peso
Remate de 132x42,5	3,5/4,5 mm	341 dm ² /m	608 dm ² /m	3.192 Kg/m
	Momento Inercia	Ix: 32.9 cm ⁴	Iy: 180 cm ⁴	NAVARRA



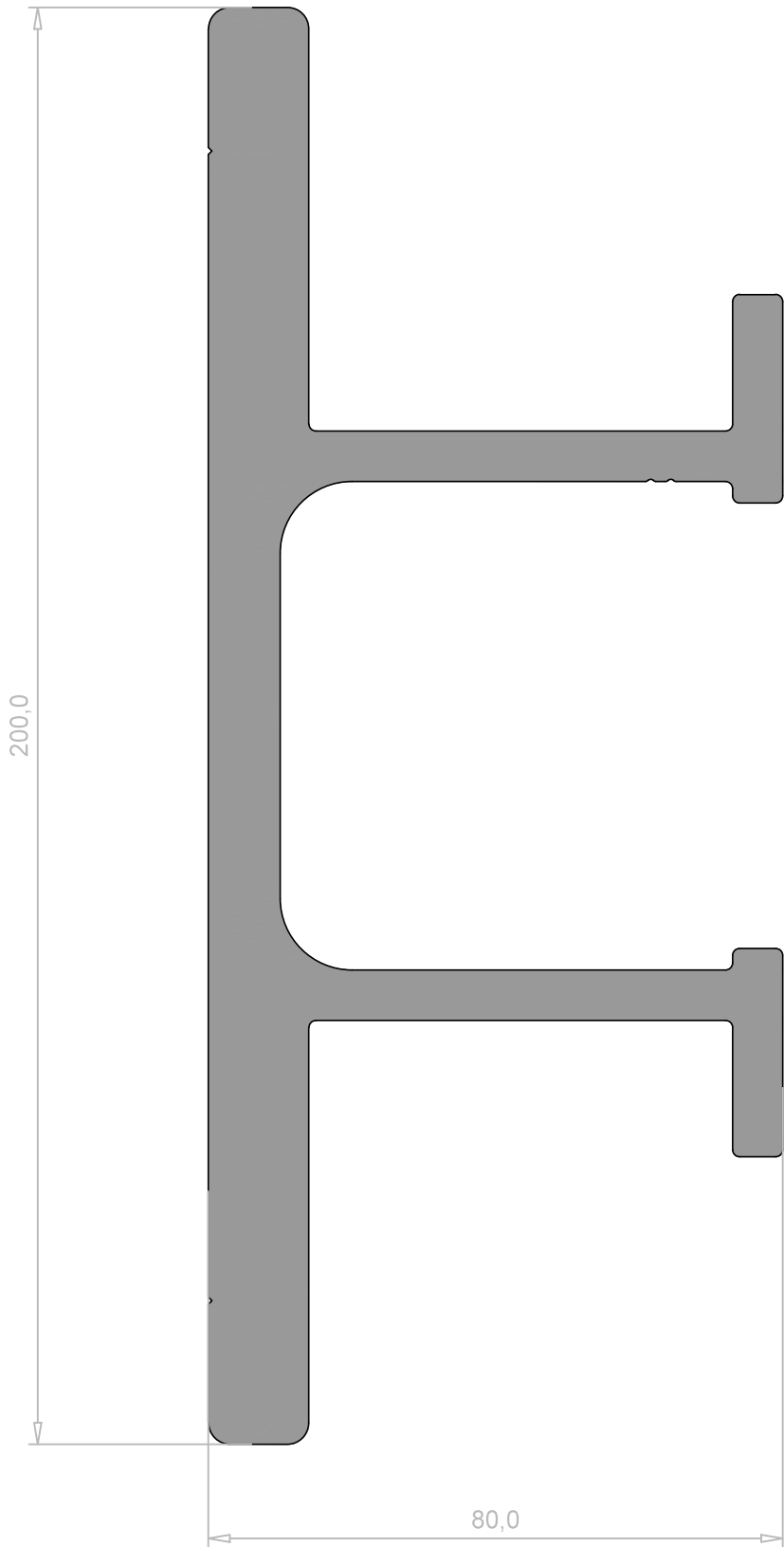
E-60110	Espes.	Sup. Ext.	Sup. Total	Peso
Remate Puerta Posterior de 125	5.0 mm	4.682 dm ² /m	672 dm ² /m	672 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA



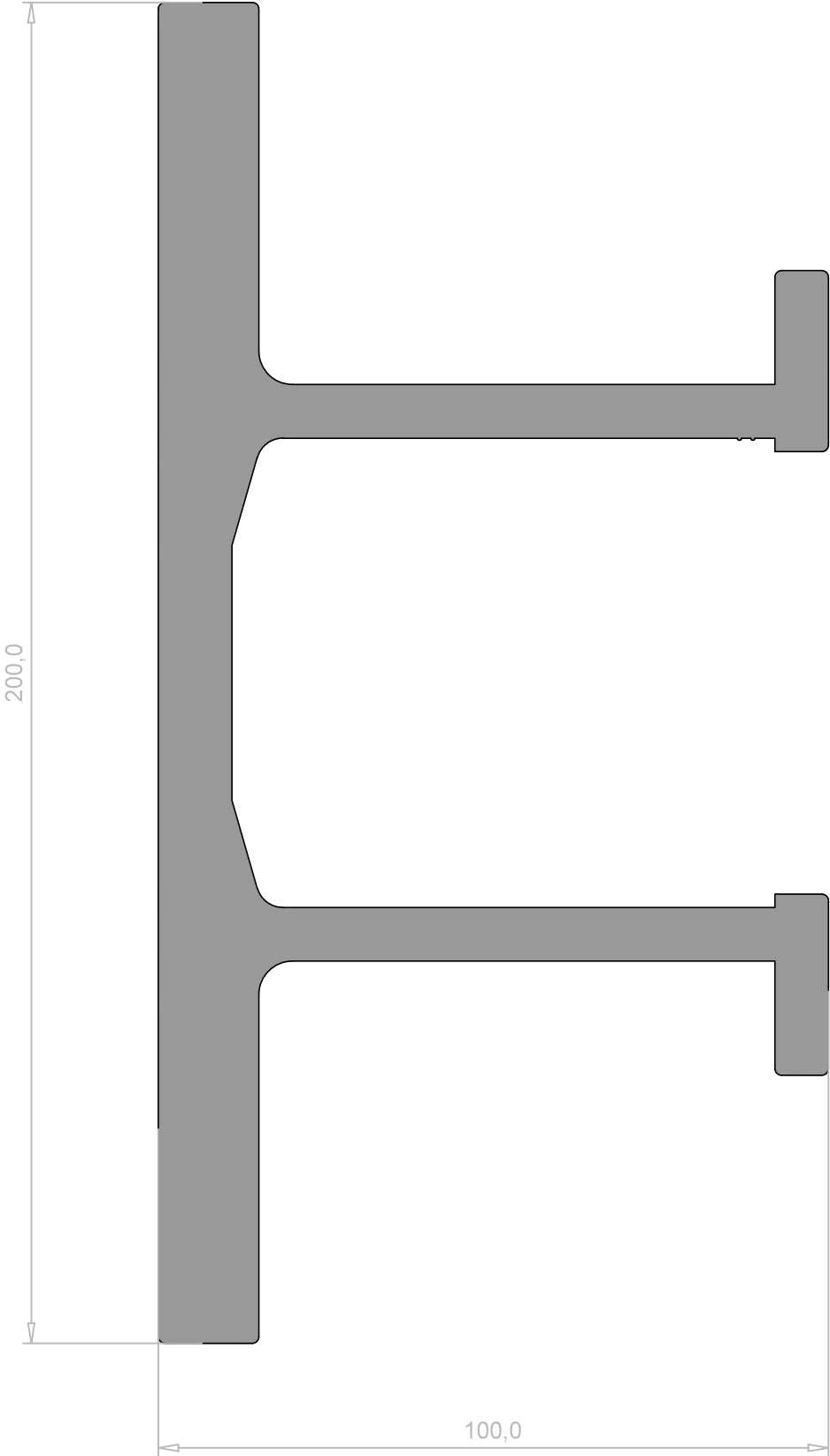
E-10423	Espes.	Sup. Ext.	Sup. Total	Peso
Fijación Volquete de 170x100	8/15 mm	797 dm ² /m	797 dm ² /m	11.910 Kg/m
	Momento Inercia	Ix: 895 cm ⁴	Iy: 518 cm ⁴	LA ROCA

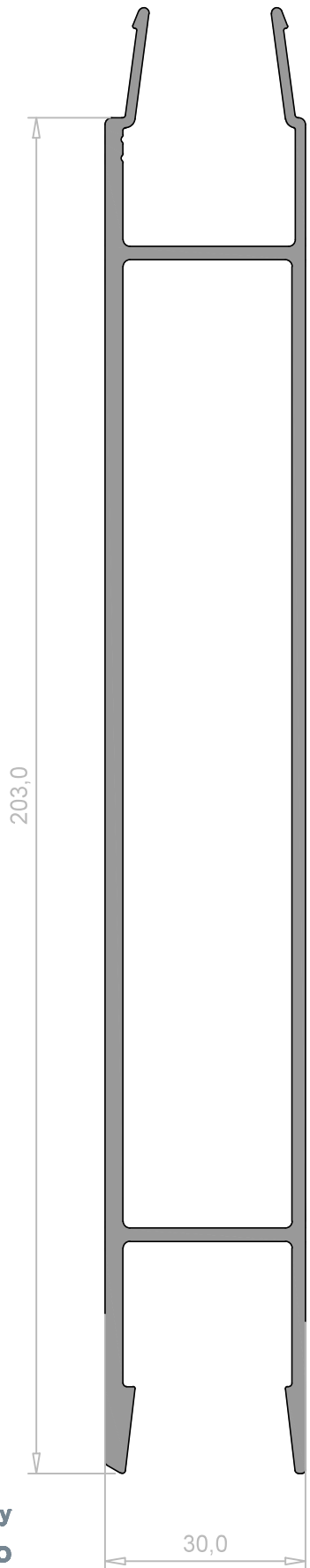
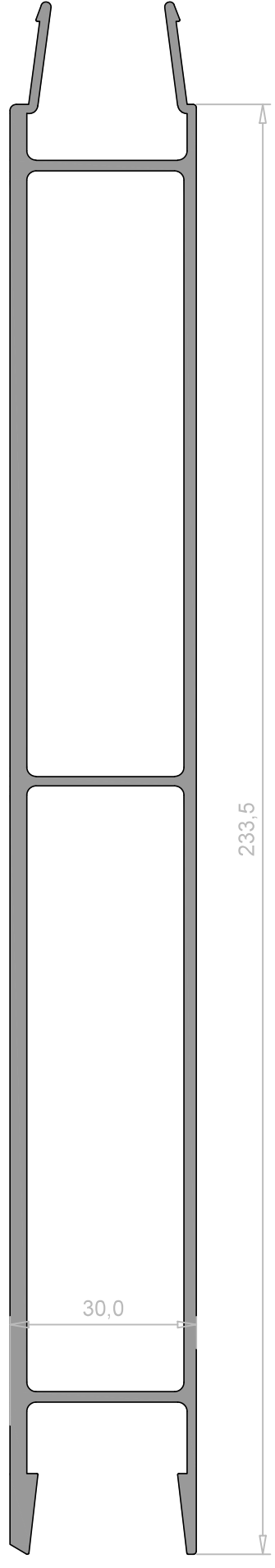


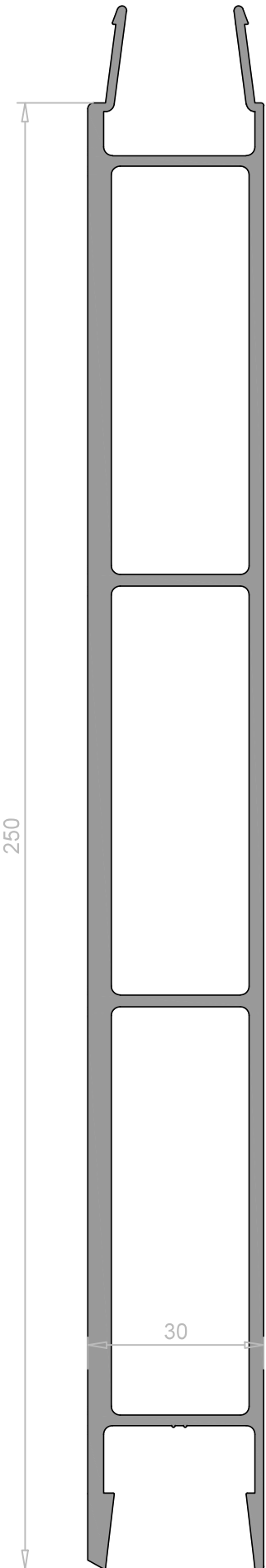
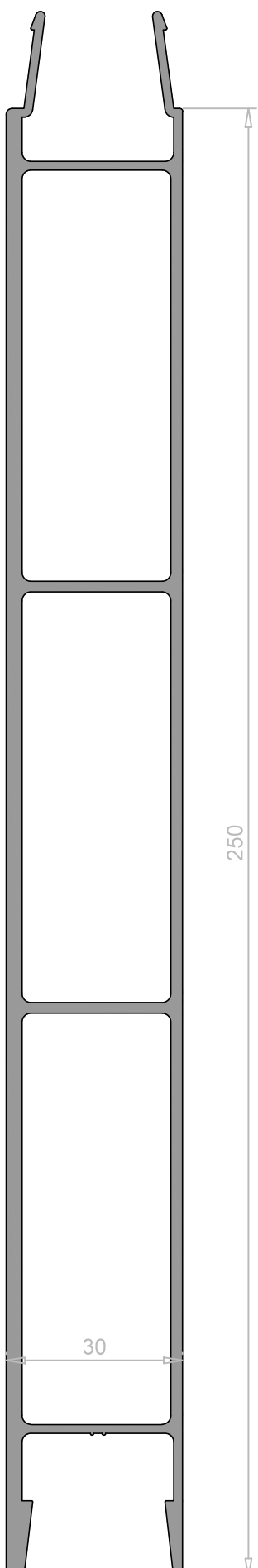
E-60067	Espes.	Sup. Ext.	Sup. Total	Peso
Fijación Volquete de 200x80	7/14 mm	769 dm ² /m	769 dm ² /m	10.282 Kg/m
	Momento Inercia	Ix: 1122 cm ⁴	Iy: 247 cm ⁴	LA ROCA



E010775	Espes.	Sup. Ext.	Sup. Total	Peso
Fijación Volquete de 200x100	8/15 mm	834 dm ² /m	834 dm ² /m	12.067 Kg/m
	Momento Inercia	Ix: 1280 cm ⁴	Iy: 467 cm ⁴	NAVARRA



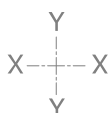
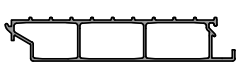
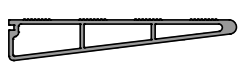
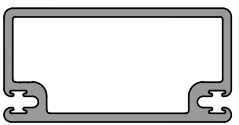
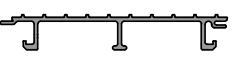
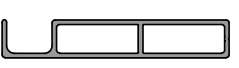
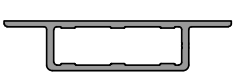
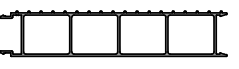
E-9548	Espes.	Sup. Ext.	Sup. Total	Peso	E553837	Espes.	Sup. Ext.	Sup. Total	Peso
Lamina Lateral 203x30	2/25 mm	643 dm ² /m	982 dm ² /m	3.029 Kg/m	Lama de 233,5x30	2/27 mm	665 dm ² /m	1151 dm ² /m	3.475 Kg/m
	Momento Inercia	Ix: 453 cm ⁴	Iy: 19.1 cm ⁴	LA ROCA		Momento Inercia	Ix: 676 cm ⁴	Iy: 22 cm ⁴	NAVARRA
									
					5.2.17				

E557410	Espes.	Sup. Ext.	Sup. Total	Peso	E554492	Espes.	Sup. Ext.	Sup. Total	Peso
Lama Lateral de 250x30	25/4 mm	699 dm ² /m	1250 dm ² /m	4.890 Kg/m	Lama Lateral de 250x30	2/27 mm	699 dm ² /m	1263 dm ² /m	3.807 Kg/m
	Momento Inercia	Ix: 981 cm ⁴	Iy: 28.7 cm ⁴	NAVARRA		Momento Inercia	Ix: 818 cm ⁴	Iy: 23.8 cm ⁴	NAVARRA
									
extruded by 					5.2.18				

6. PISOS Y GANADEROS

6.1- LISTADO

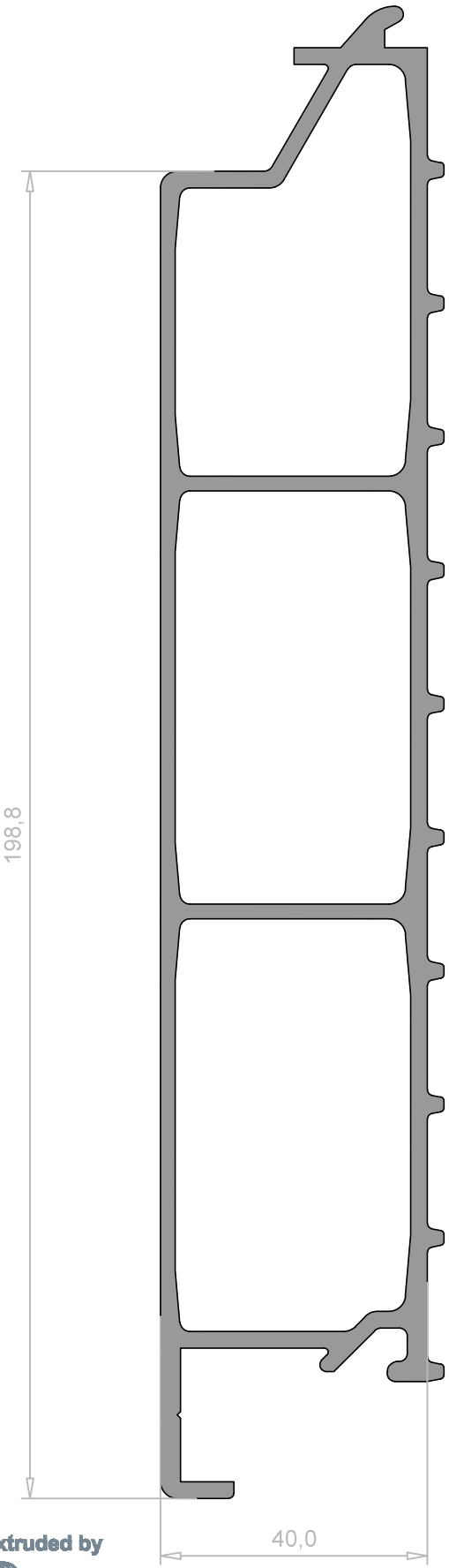
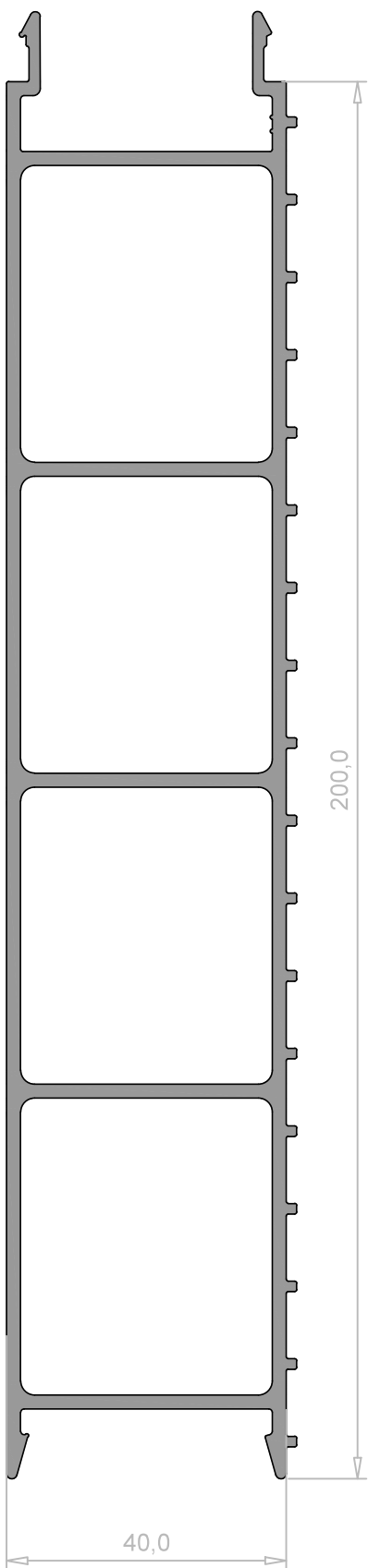
Listado

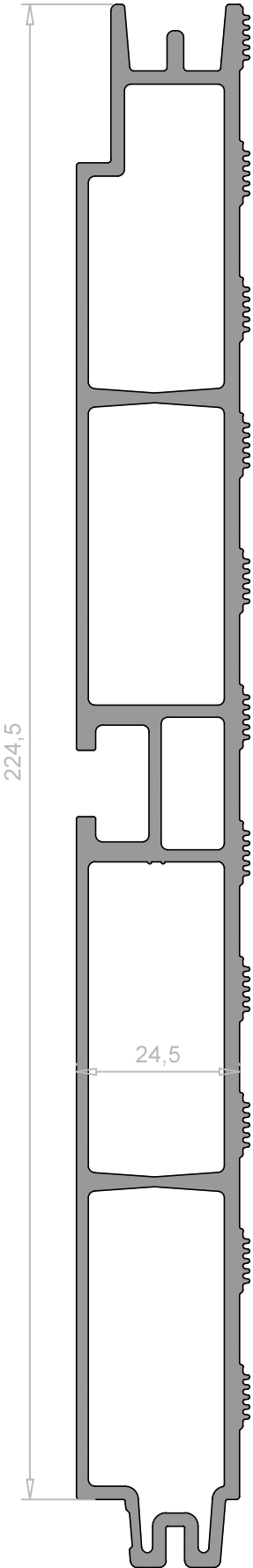
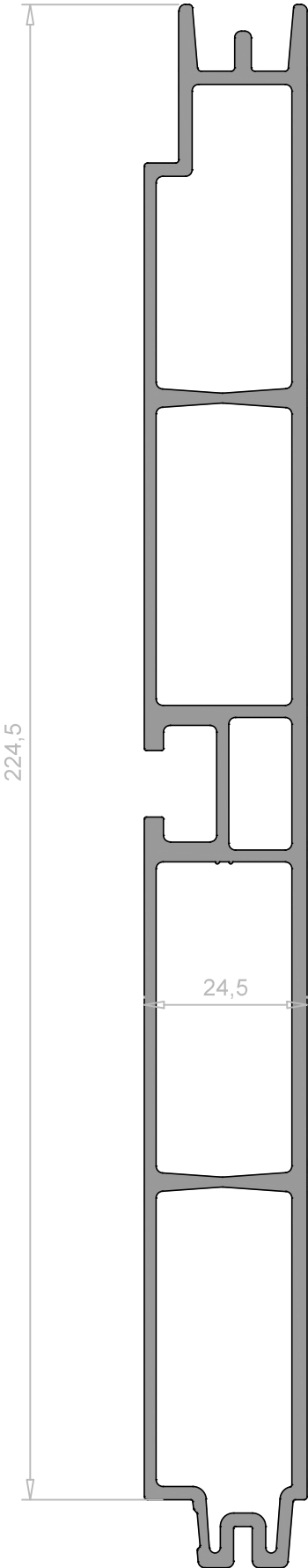
Perfil	Sección 	Descripción	Peso Kg./m	Superficie Exterior (dm ² /m) Total (dm ² /m)	Momento Inercia Ix (cm ⁴) Iy (cm ⁴)	Pág.
2062619 NAVARRA		Suelo Ganadero 200x40	4,136	602 1156	42,6 663	6.2.1
5002471 NAVARRA		Suelo Ganadero 225x40	6,072	538 1046	- -	6.2.3
E-60012 LA ROCA		Montante de 80x40	2,151	306 516	19,4 63,6	6.2.4
E-60014 LA ROCA		Piso de 200x30	3,453	709 709	12,3 526	6.2.3
E-60045 LA ROCA		Vierteaguas de 150x25	2,839	674 1048	- -	6.2.5
E-60064 LA ROCA		Montante de 160x35	3,702	383 621	26,5 234	6.2.4
E-60081 LA ROCA		Complemento Piso 75x36,5	1,247	239 239	- -	6.2.5
E-60109 LA ROCA		Pilarete de 132x39	3,165	336 596	30,2 179	6.2.5
E556426 NAVARRA		Pilarete de 155x39	3,378	380 640	33,3 217	6.2.4
PH59001 NAVARRA		Suelo Ganadero 200x40	3,410	613 1227	36,2 477	6.2.1
PP55067 NAVARRA		Piso de 225x24,5	3,749	667 1269	13,3 654	6.2.2

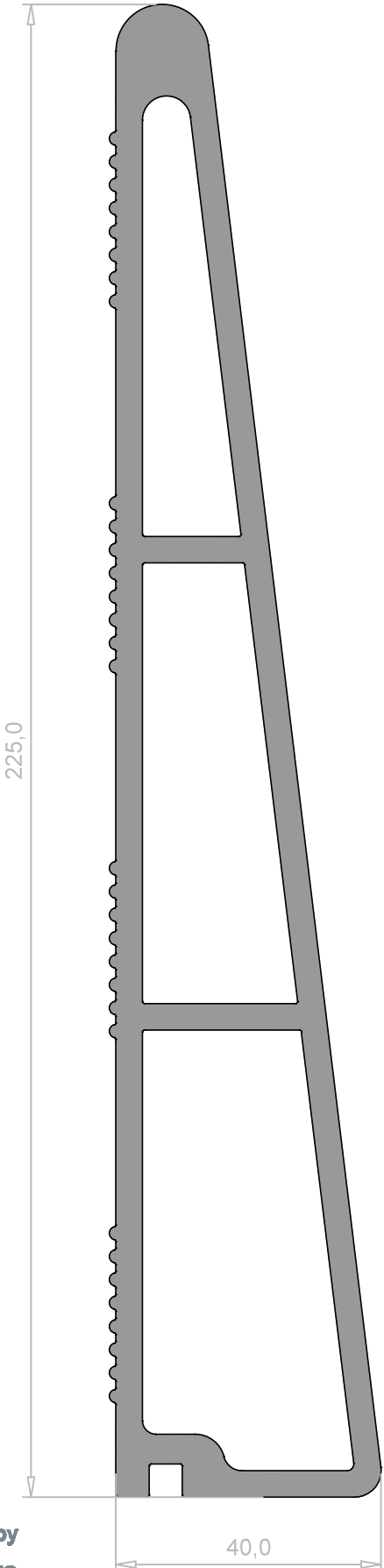
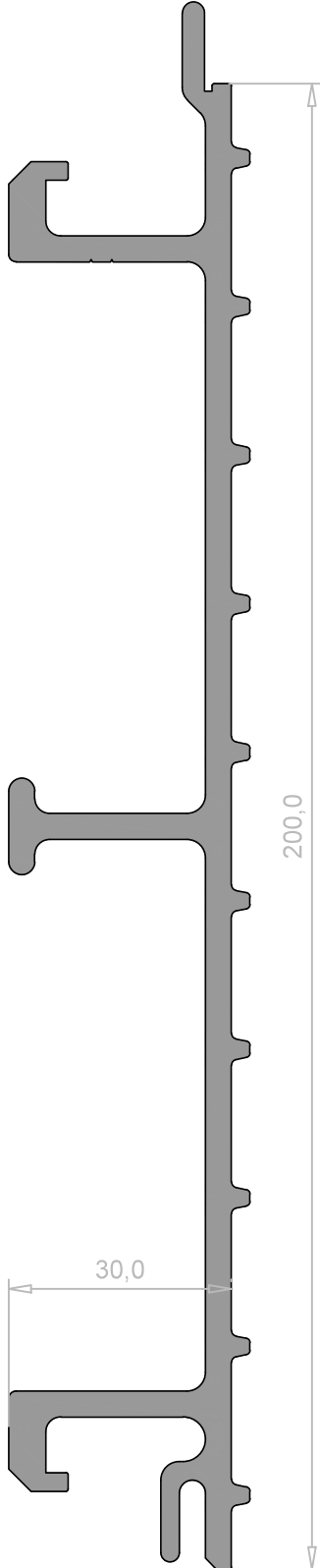
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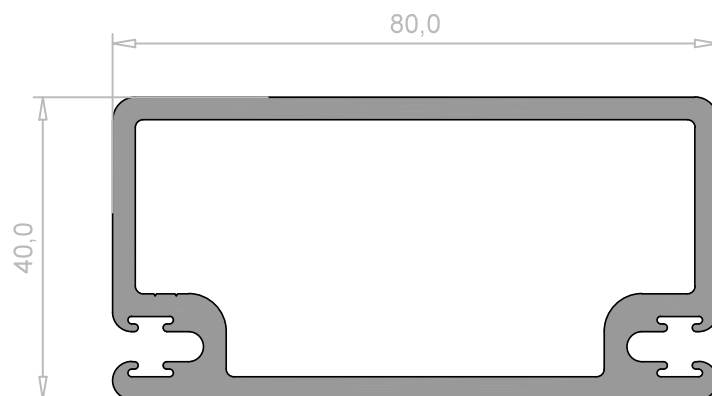
6.2- PERFILES 1:1

2062619	Espes.	Sup. Ext.	Sup. Total	Peso	PH59001	Espes.	Sup. Ext.	Sup. Total	Peso
Suelo Ganadero 200x40	2.5 mm	602 dm ² /m	1156 dm ² /m	4.136 Kg/m	Suelo Ganadero 200x40	2.0 mm	613 dm ² /m	1227 dm ² /m	3.410 Kg/m
	Momento Inercia	Ix: 663 cm ⁴	Iy: 42.6 cm ⁴	NAVARRA		Momento Inercia	Ix: 477 cm ⁴	Iy: 36.2 cm ⁴	NAVARRA
									
extruded by 					6.2.1				

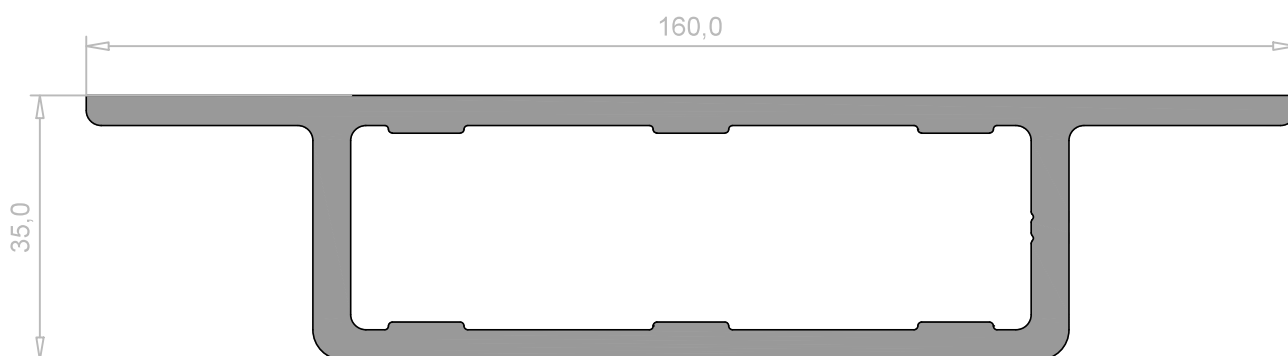
PP55067	Espes.	Sup. Ext.	Sup. Total	Peso	PP55069	Espes.	Sup. Ext.	Sup. Total	Peso
Piso de 225x24,5	1,8/2,3 mm	667 dm ² /m	1269 dm ² /m	3.749 Kg/m	Piso de 225x24,5	1,8/2,3 mm	588 dm ² /m	1189 dm ² /m	3.607 Kg/m
	Momento Inercia	Ix: 654 cm ⁴	Iy: 13,3 cm ⁴	NAVARRA		Momento Inercia	Ix: 649 cm ⁴	Iy: 13,2 cm ⁴	NAVARRA
									
extruded by  Hydro					6.2.2				

5002471	Espes.	Sup. Ext.	Sup. Total	Peso	E-60014	Espes.	Sup. Ext.	Sup. Total	Peso
Suelo Ganadero 225x40	4.0 mm	538 dm ² /m	1046 dm ² /m	6.072 Kg/m	Piso de 200x30	3.5 mm	709 dm ² /m	709 dm ² /m	3.453 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA		Momento Inercia	Ix: 526 cm ⁴	Iy: 12.3 cm ⁴	LA ROCA
									
extruded by 					6.2.3				

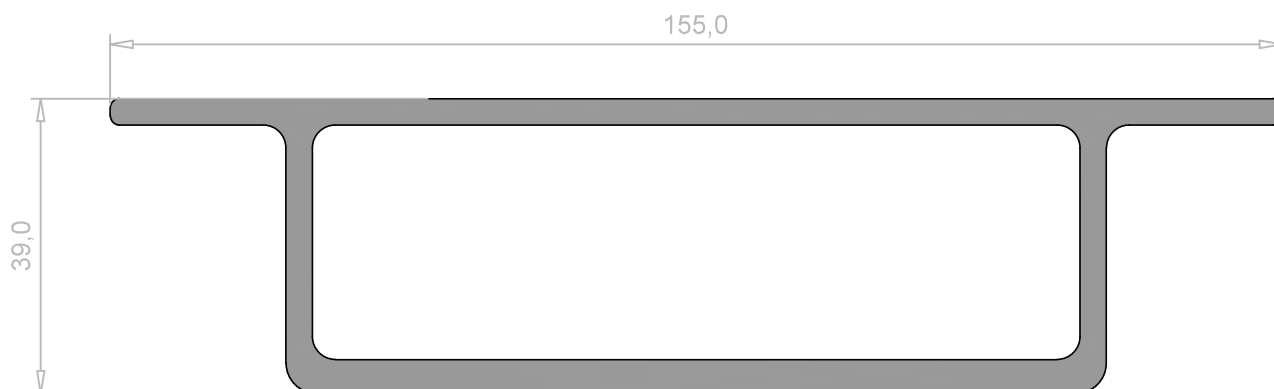
E-60012	Espes.	Sup. Ext.	Sup. Total	Peso
Montante de 80x40	3.0 mm	306 dm ² /m	516 dm ² /m	2.151 Kg/m
	Momento Inercia	Ix: 19.4 cm ⁴	Iy: 63.6 cm ⁴	LA ROCA



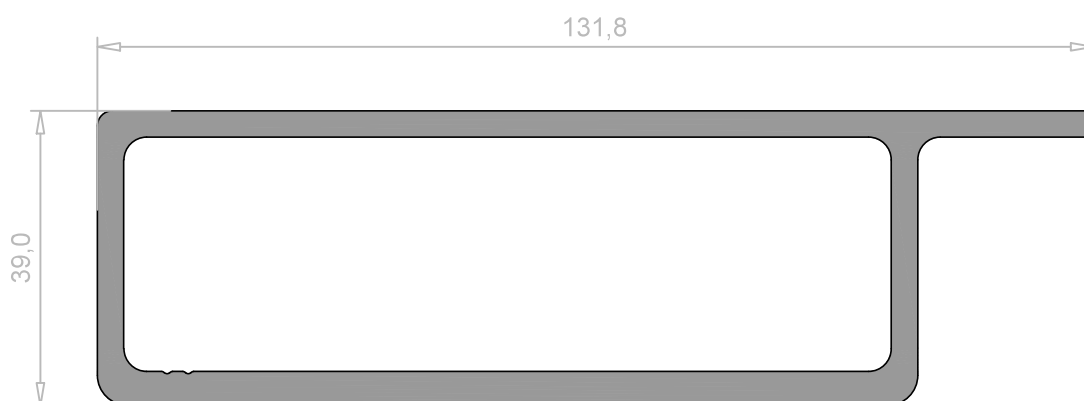
E-60064	Espes.	Sup. Ext.	Sup. Total	Peso
Montante de 160x35	4.0 mm	383 dm ² /m	621 dm ² /m	3.702 Kg/m
	Momento Inercia	Ix: 26.5 cm ⁴	Iy: 234 cm ⁴	LA ROCA



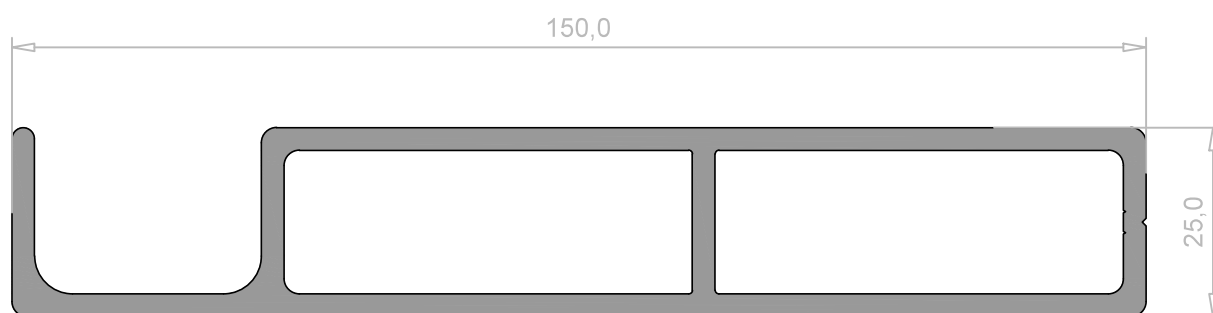
E556426	Espes.	Sup. Ext.	Sup. Total	Peso
Pilarete de 155x39	3.5/4.5 mm	380 dm ² /m	640 dm ² /m	3.378 Kg/m
	Momento Inercia	Ix: 33.3 cm ⁴	Iy: 217 cm ⁴	NAVARRA



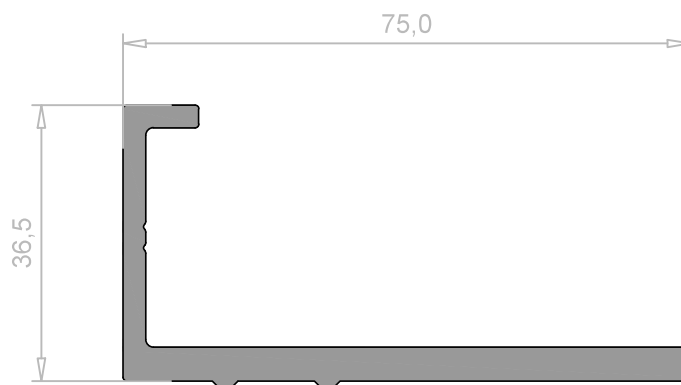
E-60109	Espes.	Sup. Ext.	Sup. Total	Peso
Pilarete de 132x39	3,5/4,5 mm	336 dm ² /m	596 dm ² /m	3.165 Kg/m
	Momento Inercia	Ix: 30.2 cm ⁴	Iy: 179 cm ⁴	LA ROCA



E-60045	Espes.	Sup. Ext.	Sup. Total	Peso
Vierteaguas de 150x25	3.0 mm	674 dm ² /m	1048 dm ² /m	2.839 Kg/m
	Momento Inercia	Ix: . cm ⁴	Iy: . cm ⁴	LA ROCA



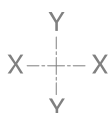
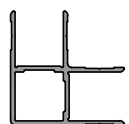
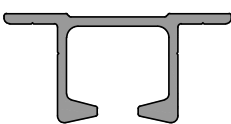
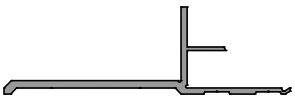
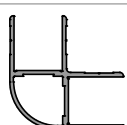
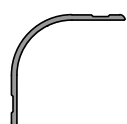
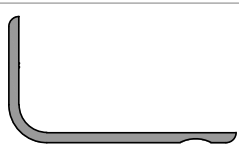
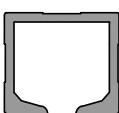
E-60081	Espes.	Sup. Ext.	Sup. Total	Peso
Complemento Piso 75x36,5	3/4,5 mm	239 dm ² /m	239 dm ² /m	1.247 Kg/m
	Momento Inercia	Ix: . cm ⁴	Iy: . cm ⁴	LA ROCA



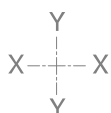
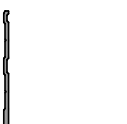
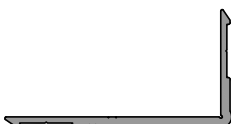
7. FURGÓN Y FRIGORÍFICO

7.1- LISTADO

Listado

Perfil	Sección 	Descripción	Peso Kg./m	Superficie Exterior (dm ² /m) Total (dm ² /m)	Momento Inercia Ix (cm ⁴) Iy (cm ⁴)	Pág.
2055800 NAVARRA		Protección Lateral de 200	1,277	419 419	- -	7.2.1
2055801 NAVARRA		Esquinero de 200x40	1,562	492 492	- -	7.2.6
2057559 NAVARRA		Esquinero de 140x60	1,297	404 404	- -	7.2.6
2057573 NAVARRA		Esquinero para lamas 60x60	1,339	357 463	14,5 14,5	7.2.10
2058606 NAVARRA		Esquinero 108x108	2,455	485 638	72,8 72,8	7.2.13
2059675 NAVARRA		Colgador / Guia Paso de 18	2,640	413 413	- -	7.2.13
2061387 NAVARRA		Faldón Lateral de 194x59	3,072	565 565	20,6 278	7.2.8
2062276 NAVARRA		Esquinero para lamas 60x60	1,267	348 445	13,2 13,2	7.2.10
CA3512 AVINTES		Esquinero de 75x75	1,155	266 266	- -	7.2.4
CB2707 AVINTES		Esquinero de 90x50	1,358	266 266	- -	7.2.4
CP5522 AVINTES		Colgador / Guia Paso de 15	2,591	383 383	- -	7.2.14

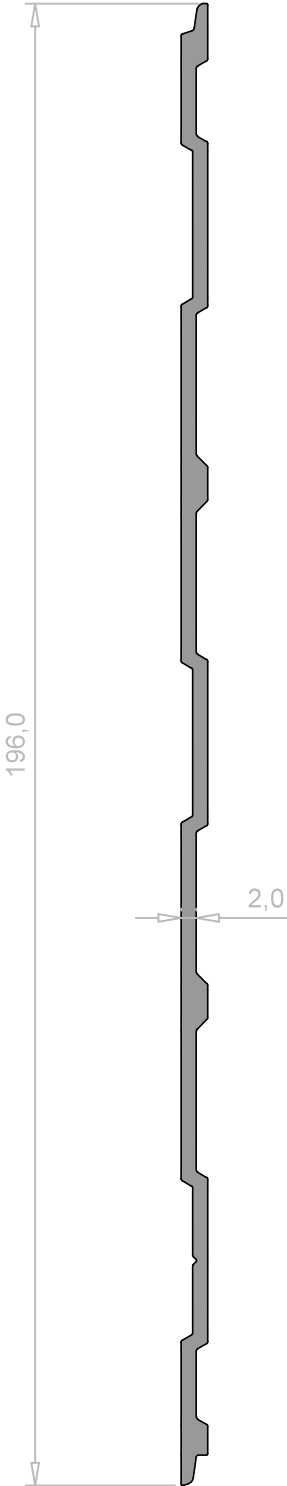
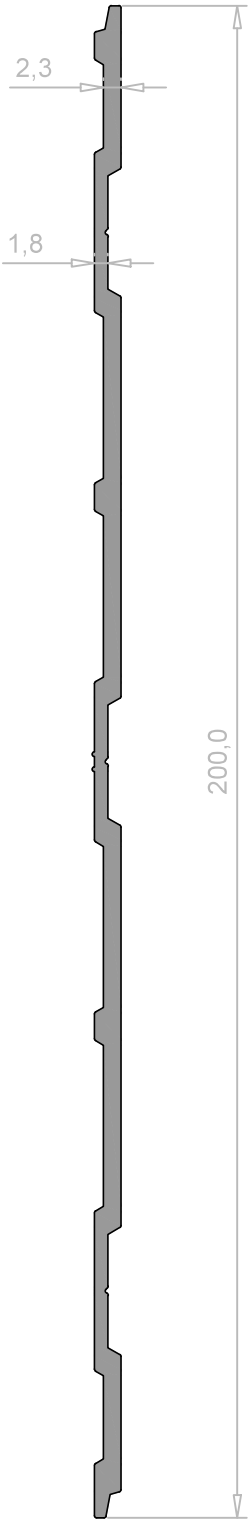
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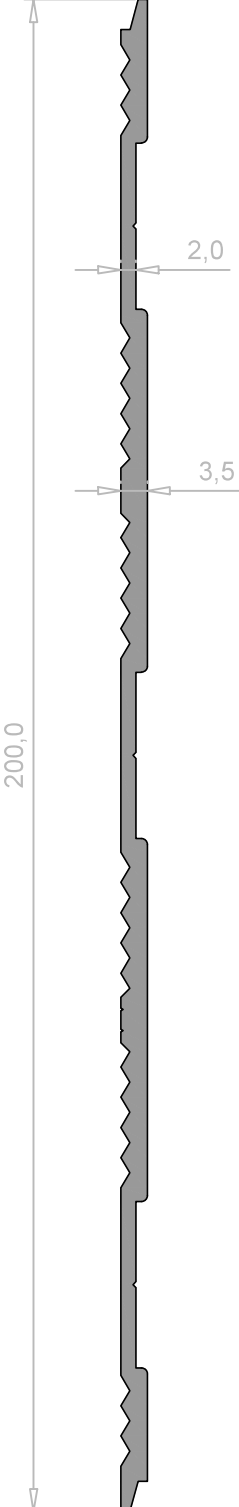
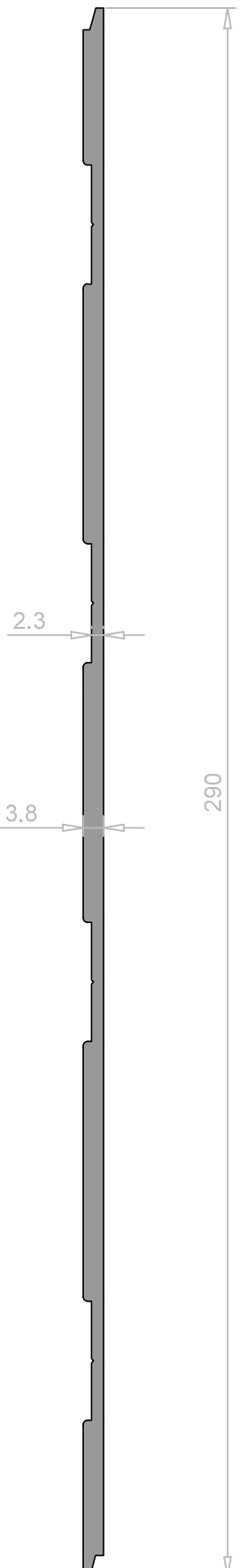
Perfil	Sección 	Descripción	Peso Kg./m	Superficie Exterior (dm ² /m) Total (dm ² /m)	Momento Inercia Ix (cm ⁴) Iy (cm ⁴)	Pág.
CP5525 AVINTES		Esquinero de 120x45	1,058	334 334	- -	7.2.5
CP5526 AVINTES		Esquinero de 80x80	1,014	323 323	- -	7.2.4
CP5553 AVINTES		Protección Lateral de 196	1,160	410 410	- -	7.2.1
E-60029 LA ROCA		Colgador / Guia Paso de 20	2,124	276 276	- -	7.2.14
E-60050 LA ROCA		Esquinero para lamas 100x100	2,111	473 626	- -	7.2.10
E-60054 LA ROCA		Protección Lateral de 200	1,417	432 432	- -	7.2.2
E-60077 LA ROCA		Esquinero de 85,5x45	1,056	275 275	- -	7.2.3
E-60113 LA ROCA		Protección Lateral de 290	2,544	596 596	- -	7.2.2
E100336 NAVARRA		Colgador / Guia Paso de 7	0,648	140 140	- -	7.2.14
E558419 NAVARRA		Esquinero 108x108	2,203	471 617	- -	7.2.12
M-3907 LA ROCA		Colgador / Guia Paso de 20	2,081	276 276	- -	7.2.14

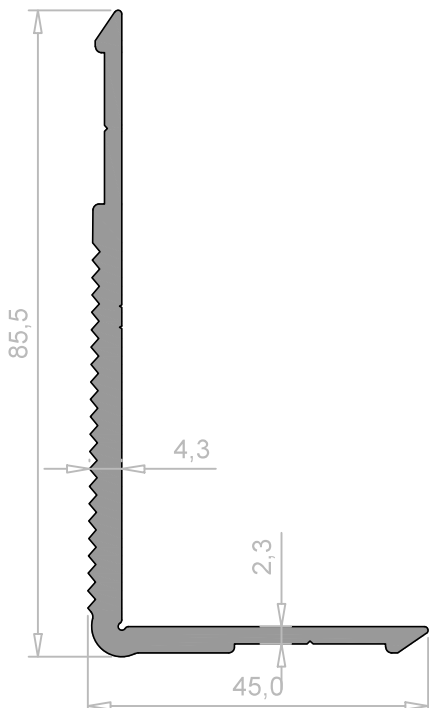
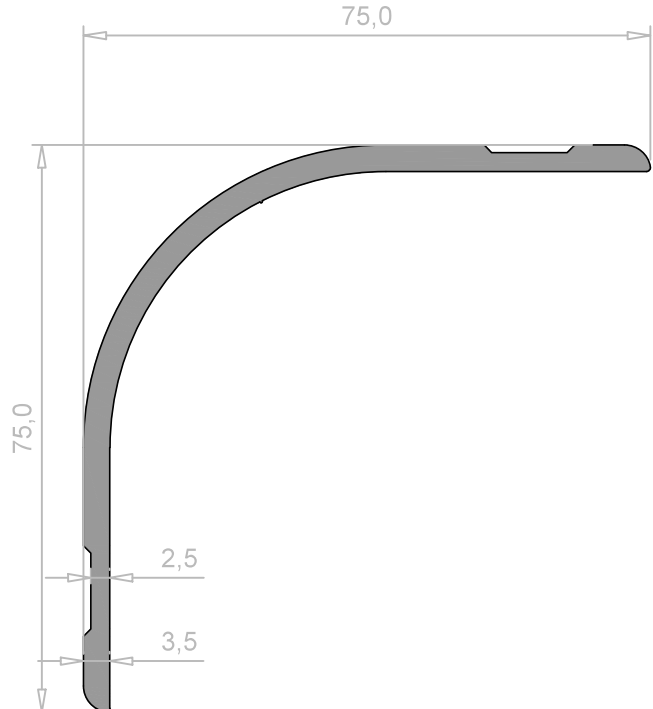
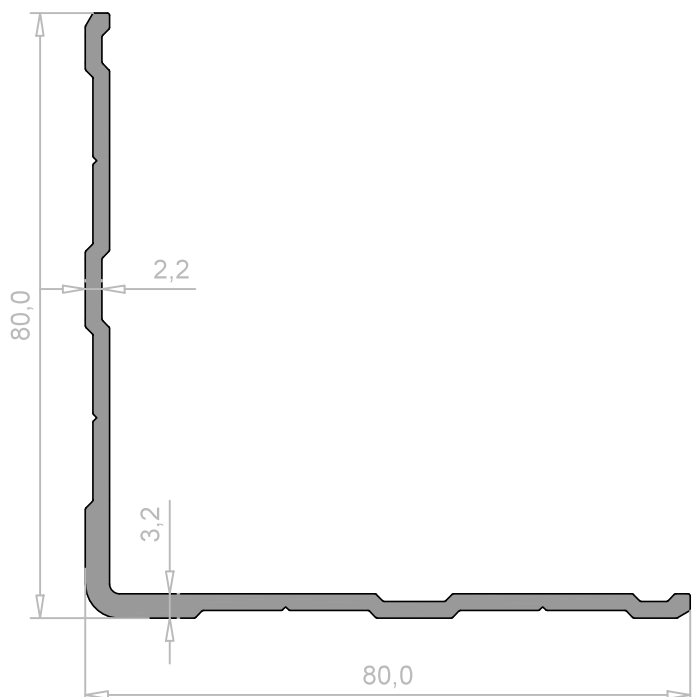
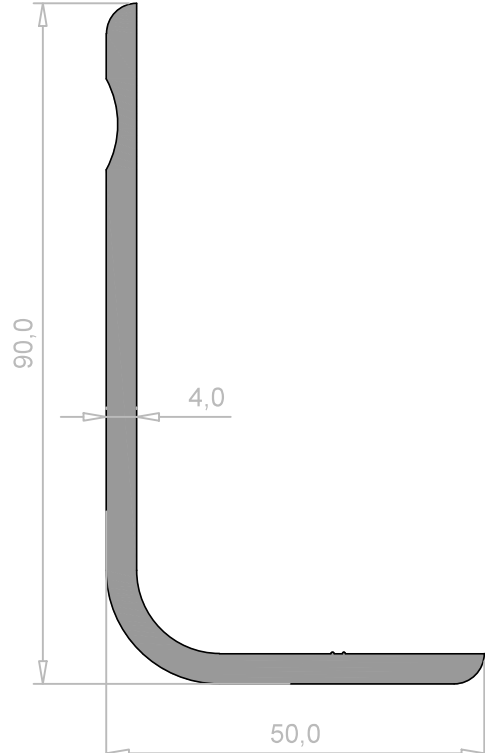
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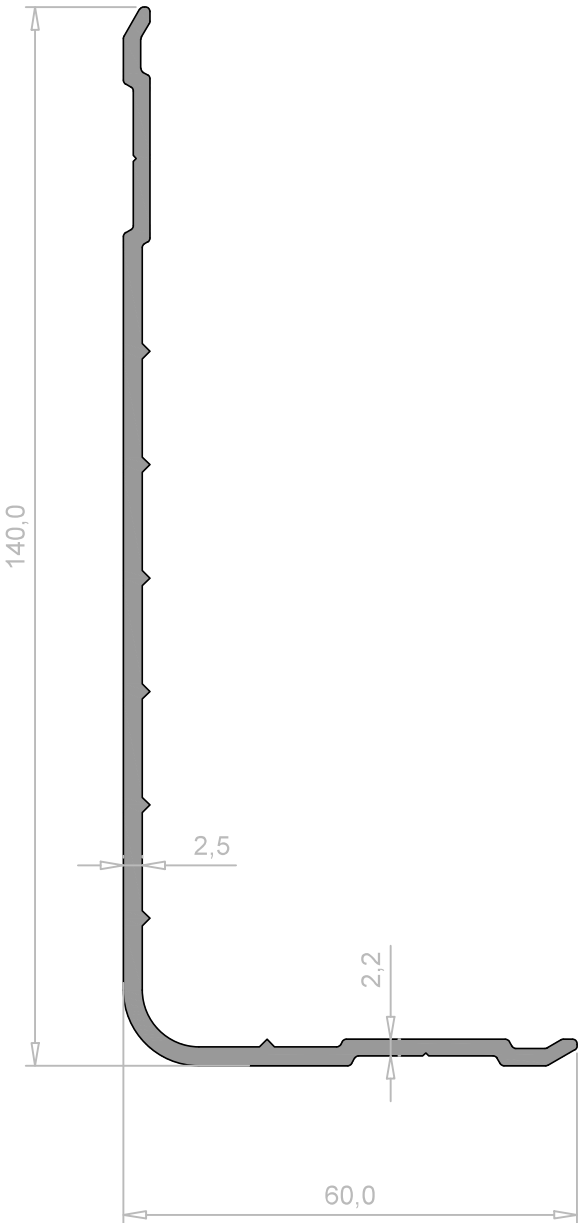
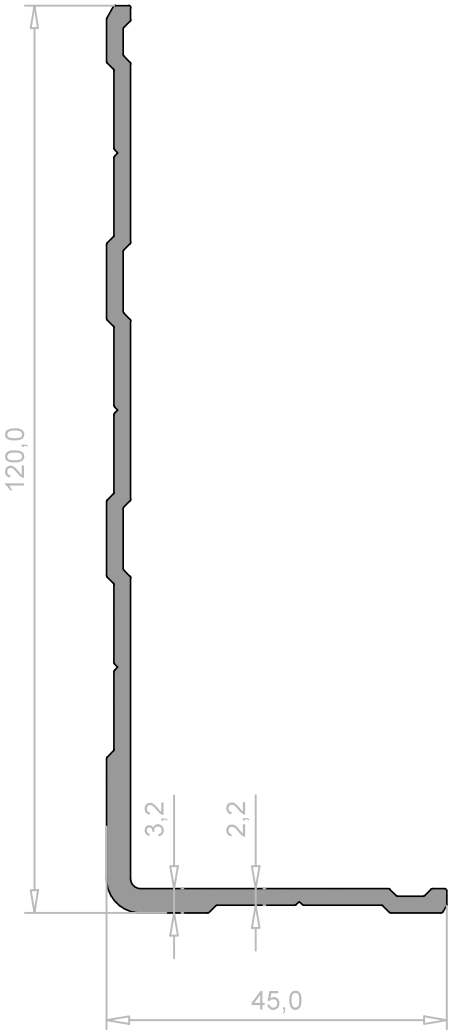
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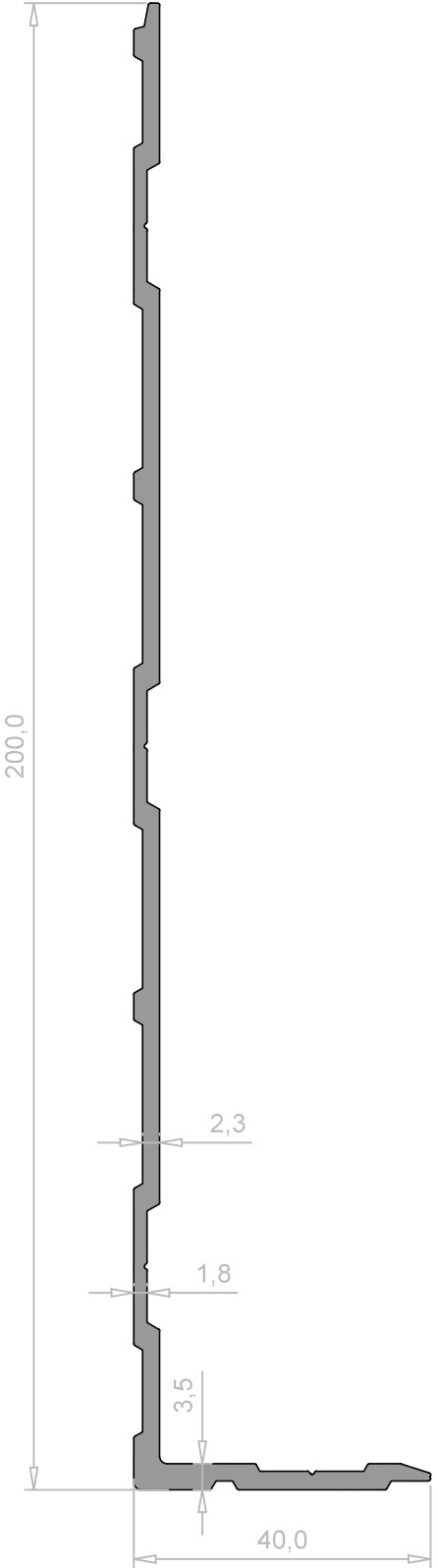
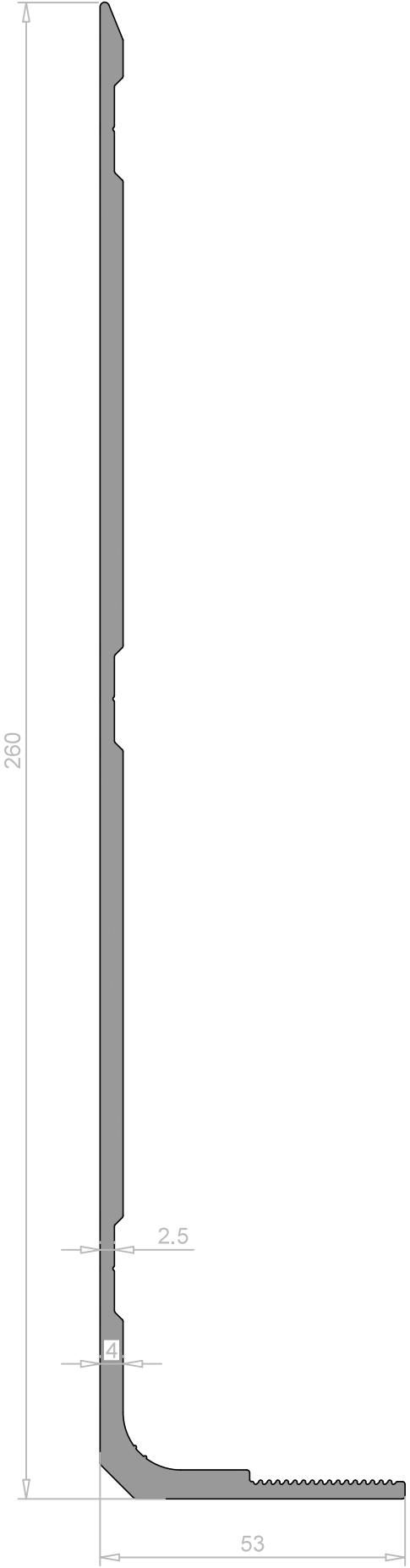
CP5553	Espes.	Sup. Ext.	Sup. Total	Peso	2055800	Espes.	Sup. Ext.	Sup. Total	Peso
Protección Lateral de 196	2.0 mm	410 dm ² /m	410 dm ² /m	1.160 Kg/m	Protección Lateral de 200	1,8/2,3 mm	419 dm ² /m	419 dm ² /m	1.277 Kg/m
	Momento Inercia	Ix: .cm ⁴ Iy: .cm ⁴		AVINTES		Momento Inercia	Ix: .cm ⁴ Iy: .cm ⁴		NAVARRA
 Technical drawing of the CP5553 profile. It is a vertical extruded section with a total height of 196,0 mm and a thickness of 2,0 mm. The profile features a series of interlocking notches and protrusions along its length.					 Technical drawing of the 2055800 profile. It is a vertical extruded section with a total height of 200,0 mm. The profile has a thickness that varies between 1,8 mm and 2,3 mm. It features a series of interlocking notches and protrusions along its length.				
extruded by 					7.2.1				

E-60054	Espes.	Sup. Ext.	Sup. Total	Peso	E-60113	Espes.	Sup. Ext.	Sup. Total	Peso
Protección Lateral de 200	2/3,5 mm	432 dm ² /m	432 dm ² /m	1.417 Kg/m	Protección Lateral de 290	2,3/3,8 mm	596 dm ² /m	596 dm ² /m	2.544 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA
									
					7.2.2				

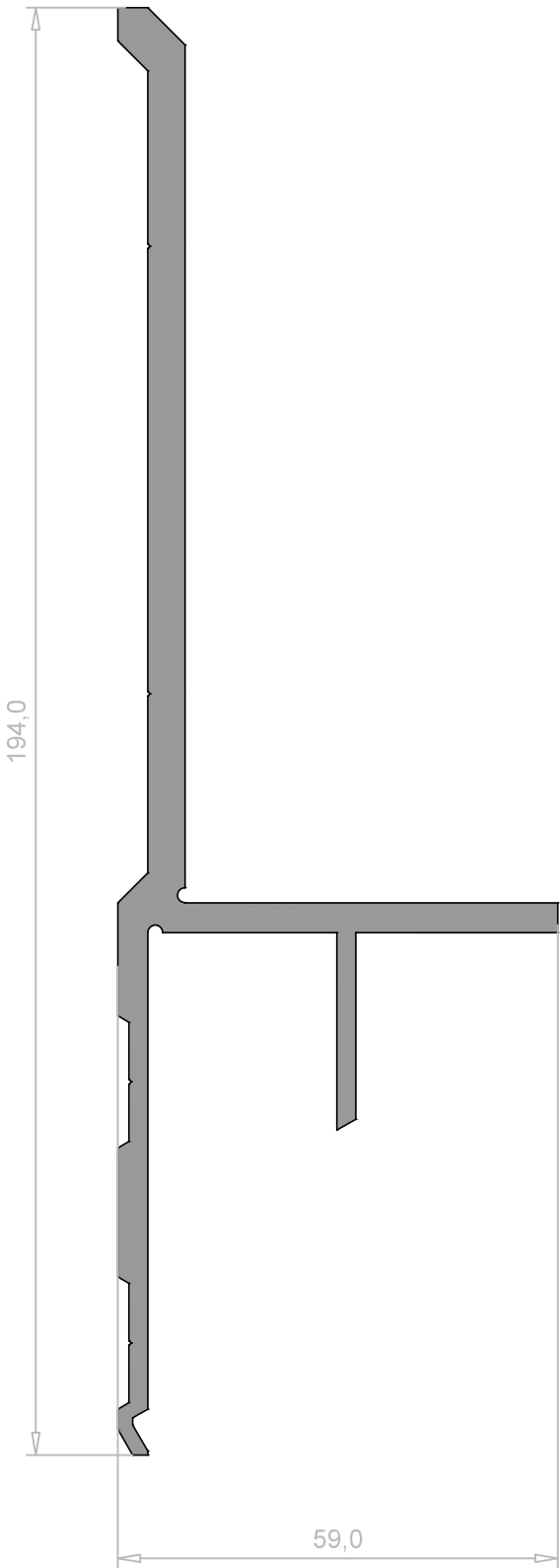
E-60077					CA3512				
Esquinero de 85,5x45	Espes.	Sup. Ext.	Sup. Total	Peso	Esquinero de 75x75	Espes.	Sup. Ext.	Sup. Total	Peso
	23/43 mm	275 dm ² /m	275 dm ² /m	1.056 Kg/m		25/35 mm	266 dm ² /m	266 dm ² /m	1.155 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	AVINTES
									
CP5526					CB2707				
Esquinero de 80x80	Espes.	Sup. Ext.	Sup. Total	Peso	Esquinero de 90x50	Espes.	Sup. Ext.	Sup. Total	Peso
	22/32 mm	323 dm ² /m	323 dm ² /m	1.014 Kg/m		4.0 mm	266 dm ² /m	266 dm ² /m	1.358 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	AVINTES		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	AVINTES
									
					7.2.3				

CP5525	Espes.	Sup. Ext.	Sup. Total	Peso	2057559	Espes.	Sup. Ext.	Sup. Total	Peso
Esquinero de 120x45	2,2/3,2 mm	334 dm ² /m	334 dm ² /m	1.058 Kg/m	Esquinero de 140x60	2,2/2,5 mm	404 dm ² /m	404 dm ² /m	1.297 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	AVINTES		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA

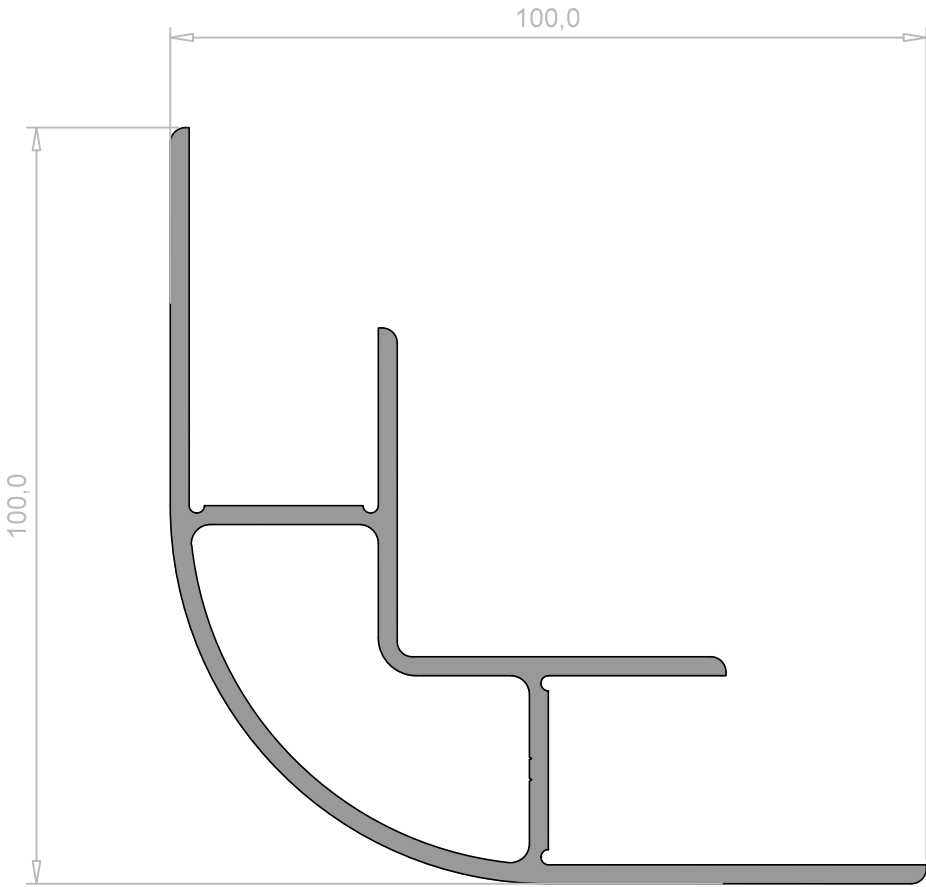


2055801	Espes.	Sup. Ext.	Sup. Total	Peso	PP55066	Espes.	Sup. Ext.	Sup. Total	Peso
Esquinero de 200x40	2.3 mm	492 dm ² /m	492 dm ² /m	1.562 Kg/m	Esquinero de 260x53	2.5/4.0 mm	625 dm ² /m	625 dm ² /m	3.090 Kg/m
	Momento Inercia	Ix: .cm ⁴ Iy: .cm ⁴	NAVARRA			Momento Inercia	Ix: .cm ⁴ Iy: .cm ⁴	NAVARRA	
									

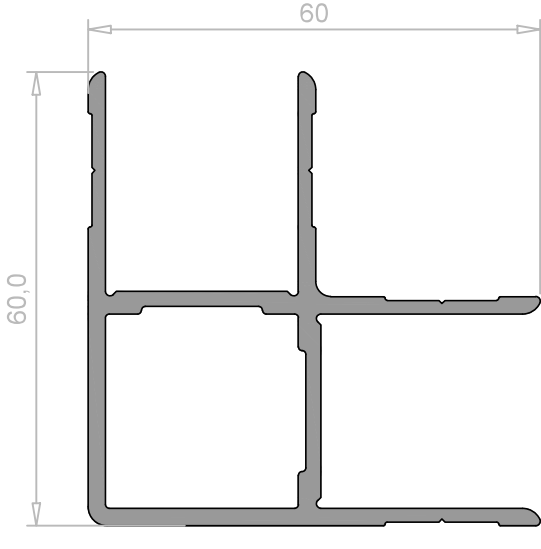
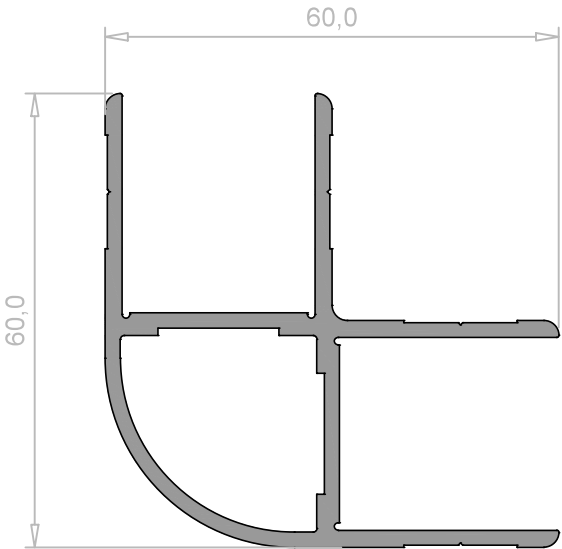
2061387	Espes.	Sup. Ext.	Sup. Total	Peso
Faldón Lateral de 194x59	4,0/5,0 mm	565 dm ² /m	565 dm ² /m	3.072 Kg/m
	Momento Inercia	Ix: 278 cm ⁴	Iy: 20,6 cm ⁴	NAVARRA



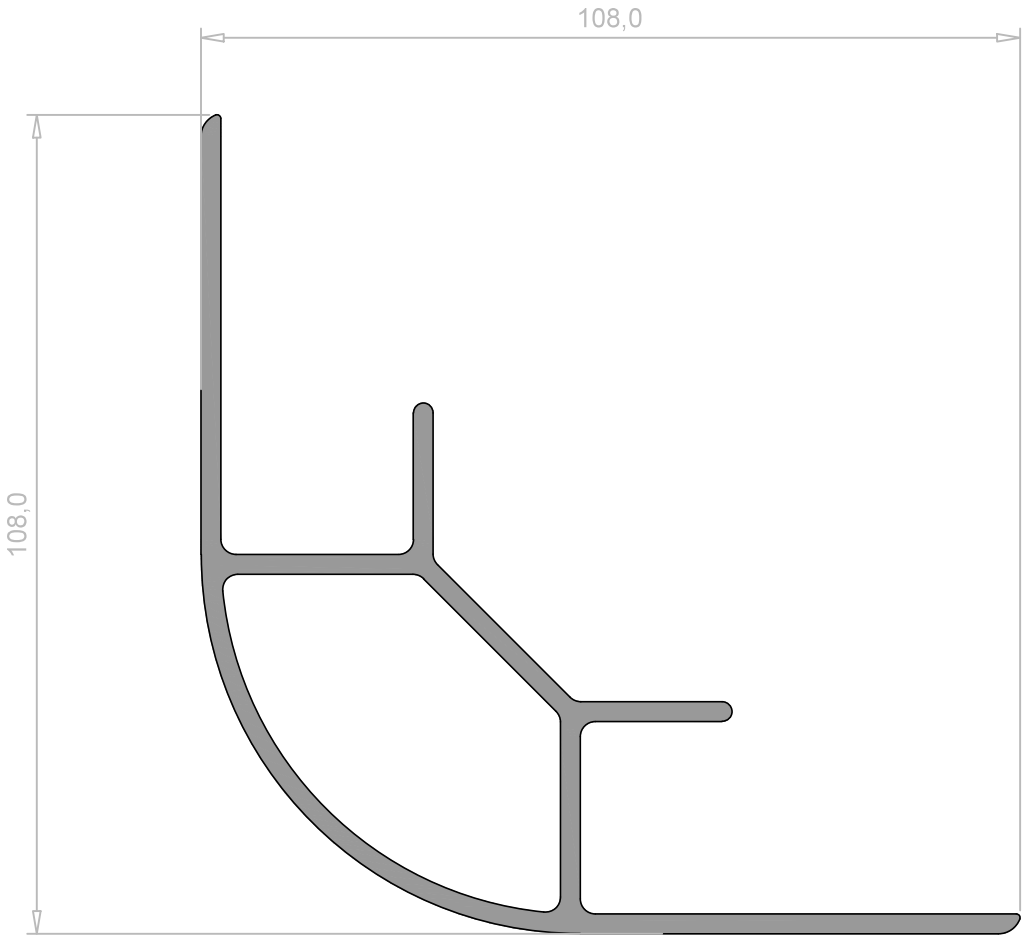
E-60050	Espes.	Sup. Ext.	Sup. Total	Peso	E-7504	Espes.	Sup. Ext.	Sup. Total	Peso
Esquinero para lamas 100x100	2,5 mm	473 dm ² /m	626 dm ² /m	2.111 Kg/m	Lama Superior 208x25	1.8 mm	486 dm ² /m	951 dm ² /m	2.395 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA		Momento Inercia	Ix: 365 cm ⁴	Iy: 10.7 cm ⁴	LA ROCA



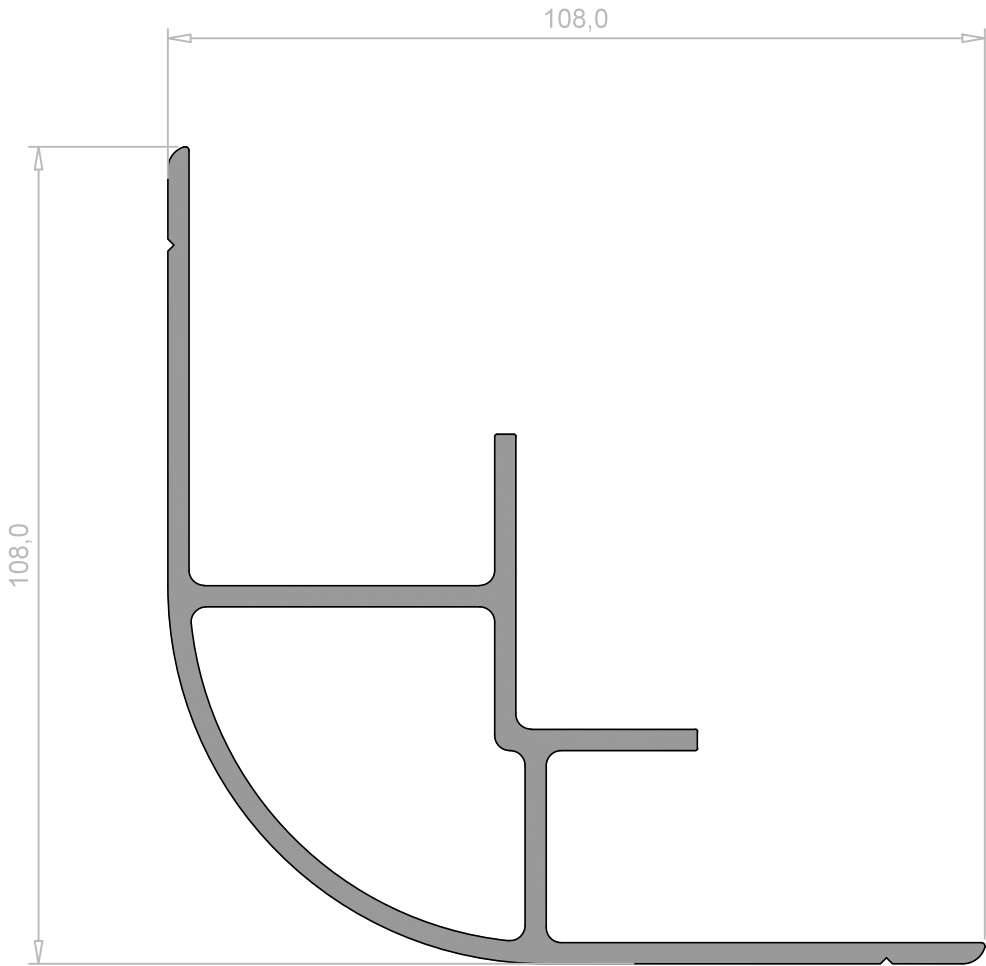
2062276	Espes.	Sup. Ext.	Sup. Total	Peso	2057573	Espes.	Sup. Ext.	Sup. Total	Peso
Esquinero para lamas 60x60	2.3 mm	348 dm ² /m	445 dm ² /m	1.267 Kg/m	Esquinero para lamas 60x60	2.3 mm	357 dm ² /m	463 dm ² /m	1.339 Kg/m
	Momento Inercia	Ix: 13.2 cm ⁴	Iy: 13.2 cm ⁴	NAVARRA		Momento Inercia	Ix: 14.5 cm ⁴	Iy: 14.5 cm ⁴	NAVARRA



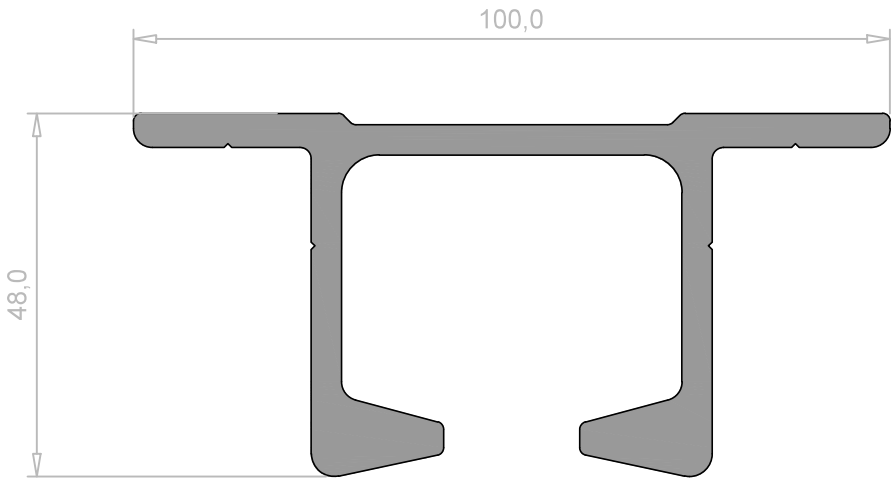
E558419	Espes.	Sup. Ext.	Sup. Total	Peso
Esquinero 108x108	2.6 mm	471 dm ² /m	617 dm ² /m	2.203 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA

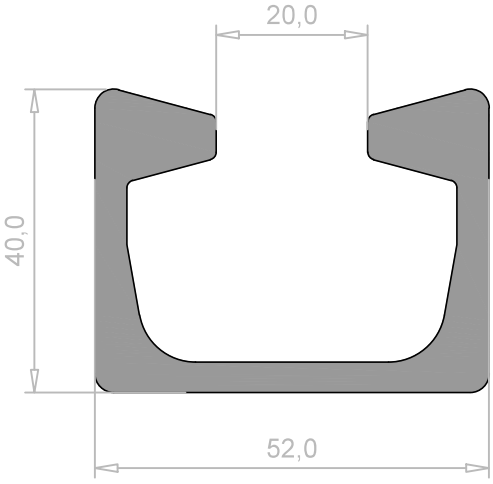
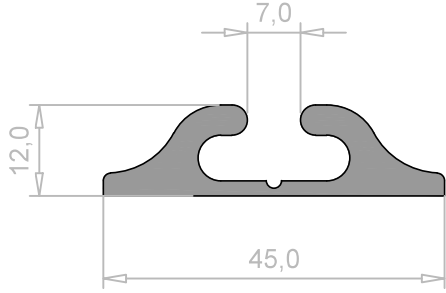
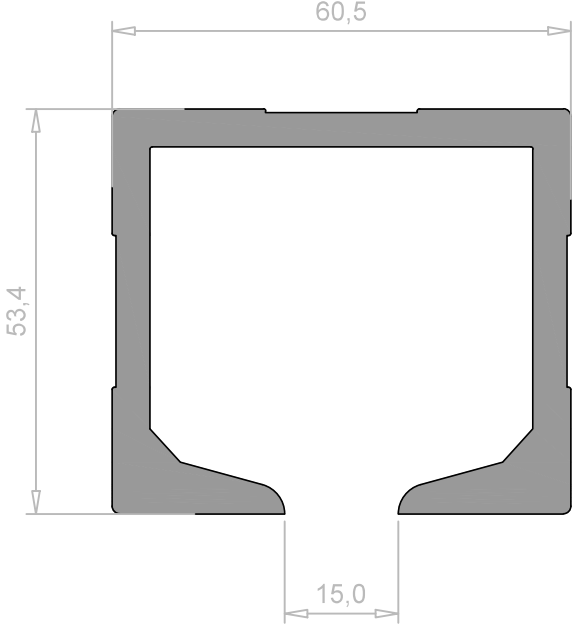
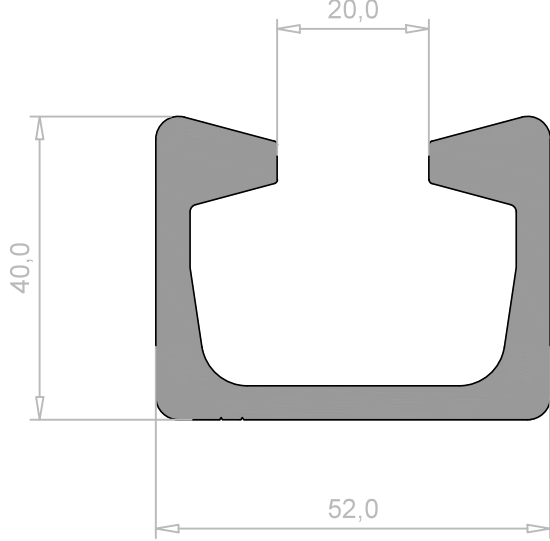


2058606	Espes.	Sup. Ext.	Sup. Total	Peso
Esquinero 108x108	2.8 mm	485 dm ² /m	638 dm ² /m	2.455 Kg/m
	Momento Inercia	Ix: 72.8 cm ⁴	Iy: 72.8 cm ⁴	NAVARRA



2059675	Espes.	Sup. Ext.	Sup. Total	Peso
Colgador / Guia Paso de 18	4 mm	413 dm ² /m	413 dm ² /m	2.640 Kg/m
	Momento Inercia	Ix: . cm ⁴	Iy: . cm ⁴	NAVARRA

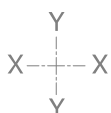
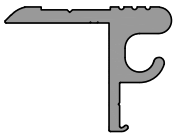
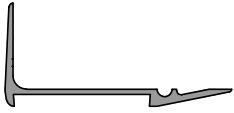
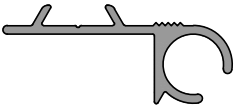


M-3907 Colgador / Guia Paso de 20	Espes.	Sup. Ext.	Sup. Total	Peso	E100336 Colgador / Guia Paso de 7	Espes.	Sup. Ext.	Sup. Total	Peso
	4 mm	276 dm ² /m	276 dm ² /m	2.081 Kg/m		2 mm	140 dm ² /m	140 dm ² /m	0.648 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA
									
CP-55-22 Colgador / Guia Paso de 15	Espes.	Sup. Ext.	Sup. Total	Peso	E-60029 Colgador / Guia Paso de 20	Espes.	Sup. Ext.	Sup. Total	Peso
	5 mm	383 dm ² /m	383 dm ² /m	2.591 Kg/m		4.5 mm	276 dm ² /m	276 dm ² /m	2.124 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	AVINTES		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA
									
					7.2.10				

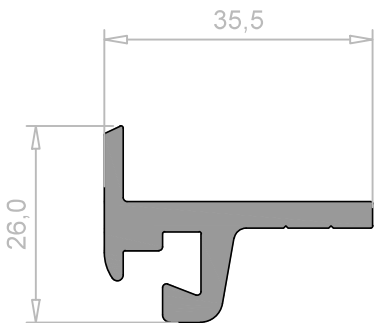
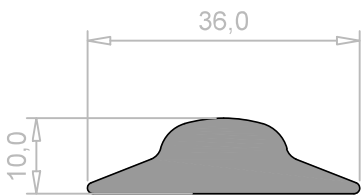
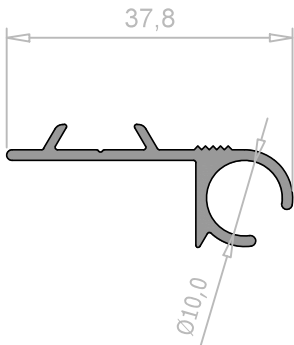
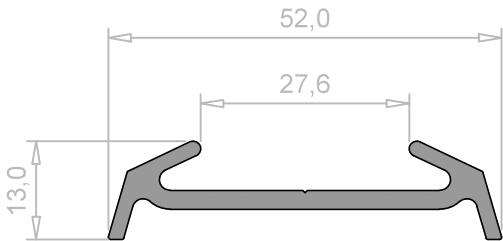
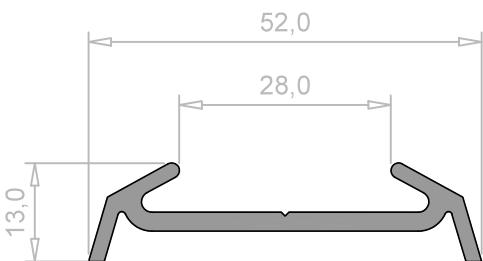
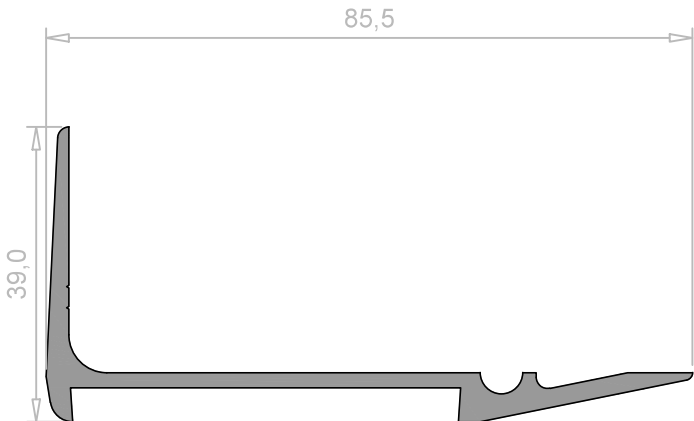
8. AUTOBUSES

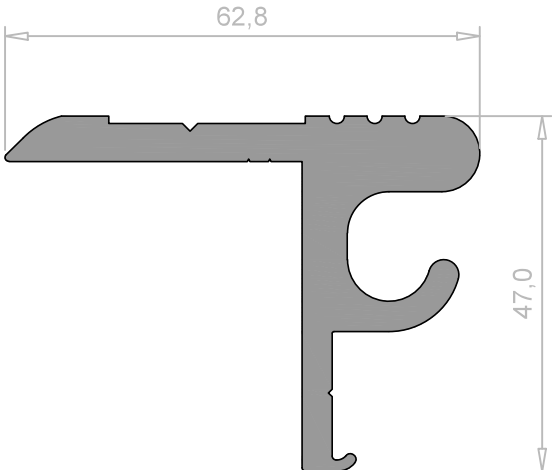
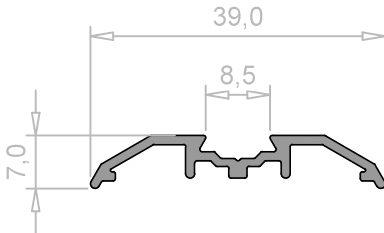
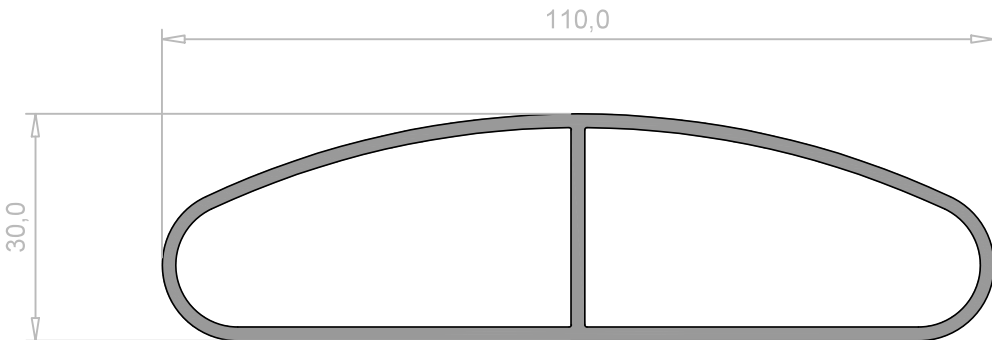
8.1- LISTADO

Listado

Perfil	Sección 	Descripción	Peso Kg./m	Superficie Exterior (dm ² /m) Total (dm ² /m)	Momento Inercia Ix (cm ⁴) Iy (cm ⁴)	Pág.
E-1305 LA ROCA			0,578	80 80	- -	8.2.1
E-1700 LA ROCA			0,507	156 156	- -	8.2.1
E-5036 LA ROCA		Bisagra Complementaria E-5037	0,666	141 141	- -	8.2.1
E-11243 LA ROCA			1,841	252 252	- -	8.2.2
2060046 LA SELVA			0,785	253 253	- -	8.2.1
E600997 NAVARRA			0,488	157 157	- -	8.2.1
CA3502 AVINTES			0,270	133 133	- -	8.2.1
CA3508 AVINTES			0,204	114 114	- -	8.2.2
CP5551 AVINTES			1,295	246 529	- -	8.2.2

8.2- PERFILES 1:1

E-5036	Espes.	Sup. Ext.	Sup. Total	Peso	E-1305	Espes.	Sup. Ext.	Sup. Total	Peso
Bisagra Complementaria E-5037	3,5 mm	141 dm ² /m	141 dm ² /m	0.666 Kg/m	.	. mm	80 dm ² /m	80 dm ² /m	0.578 Kg/m
	Momento Inercia	Ix: . cm ⁴	Iy: . cm ⁴	LA ROCA		Momento Inercia	Ix: . cm ⁴	Iy: . cm ⁴	LA ROCA
									
CA3502	Espes.	Sup. Ext.	Sup. Total	Peso	E-1700	Espes.	Sup. Ext.	Sup. Total	Peso
.	1.4 mm	133 dm ² /m	133 dm ² /m	0.270 Kg/m	.	2.5 mm	156 dm ² /m	156 dm ² /m	0.507 Kg/m
	Momento Inercia	Ix: . cm ⁴	Iy: . cm ⁴	AVINTES		Momento Inercia	Ix: . cm ⁴	Iy: . cm ⁴	LA ROCA
									
E600997	Espes.	Sup. Ext.	Sup. Total	Peso	2060046	Espes.	Sup. Ext.	Sup. Total	Peso
.	2.5 mm	157 dm ² /m	157 dm ² /m	0.488 Kg/m	.	2 mm	253 dm ² /m	253 dm ² /m	0.785 Kg/m
	Momento Inercia	Ix: . cm ⁴	Iy: . cm ⁴	NAVARRA		Momento Inercia	Ix: . cm ⁴	Iy: . cm ⁴	LA SELVA
									
					8.2.1				

E-11243	Espes.	Sup. Ext.	Sup. Total	Peso	CA3508	Espes.	Sup. Ext.	Sup. Total	Peso
.	4 mm	252 dm ² /m	252 dm ² /m	1.841 Kg/m	.	1.2 mm	114 dm ² /m	114 dm ² /m	0.204 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	AVINTES
									
CP5551	Espes.	Sup. Ext.	Sup. Total	Peso					
.	1.8 mm	246 dm ² /m	529 dm ² /m	1.295 Kg/m					
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	AVINTES					
									

extruded by

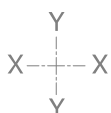
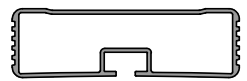
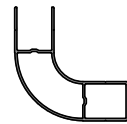
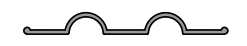
 Hydro

8.2.2

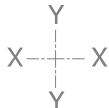
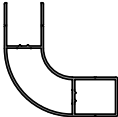
9. SISTEMAS AUXILIARES

9.1- LISTADO

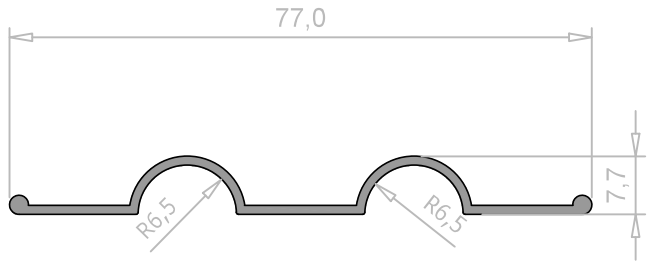
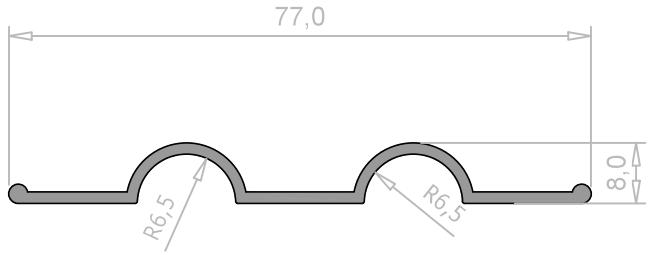
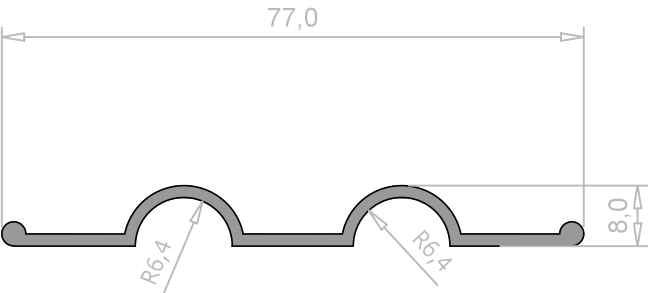
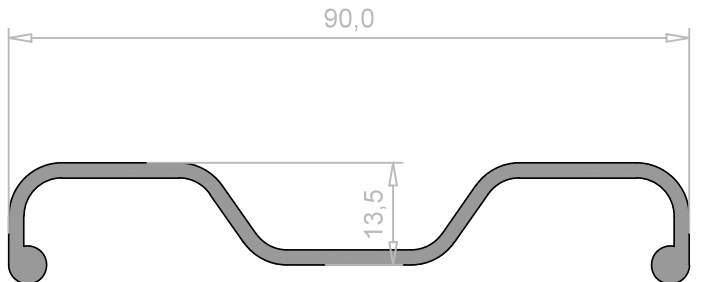
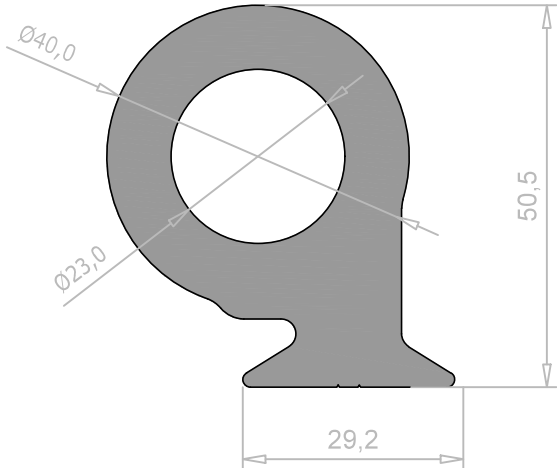
Listado

Perfil	Sección 	Descripción	Peso Kg./m	Superficie Exterior (dm ² /m) Total (dm ² /m)	Momento Inercia Ix (cm ⁴) Iy (cm ⁴)	Pág.
2065307 NAVARRA		Brida Superior Tubo de 27	1,104	499 499	- -	9.2.6
2065308 NAVARRA		Brida Superior Tubo de 27	1,319	313 313	- -	9.2.5
2066784 NAVARRA		Salva Bicicletas de 100x30	1,375	317 576	7,1 55,1	9.2.3
2066785 NAVARRA		Soporte Protector Curvo 100X100	2,055	439 767	- -	9.2.4
5003275 NAVARRA		Aislador 130x20	1,939	298 592	- -	9.2.3
E-1502 LA ROCA		Yugo Alza 77	0,376	185 185	- -	9.2.1
E-1724 LA ROCA		Yugo Alza 90	0,723	255 255	- -	9.2.1
E-5327 LA ROCA		Yugo Alza 77	0,308	186 186	- -	9.2.1
E-60016 LA ROCA		Bisagra de 50,5	3,040	174 246	- -	9.2.1
E-60017 LA ROCA		Bisagra de 131	4,452	313 385	- -	9.2.2
E-60036 LA ROCA		Salva Bicicletas	1,879	478 478	- -	9.2.5

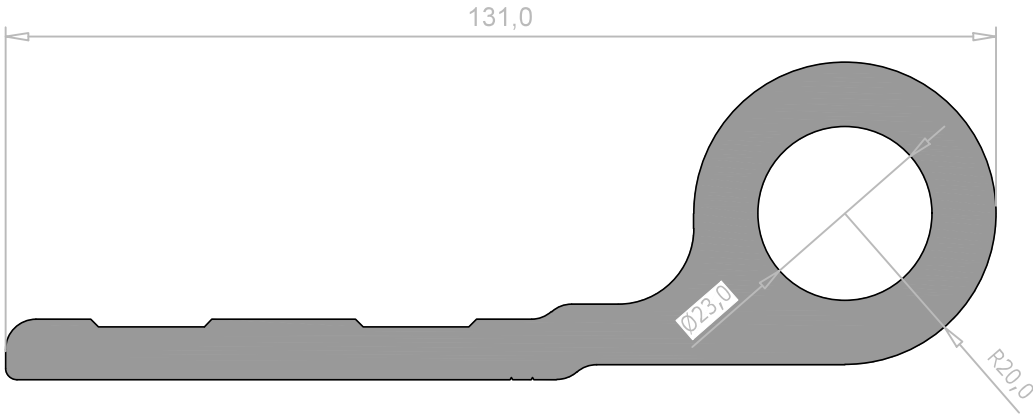
Listado

Perfil	Sección 	Descripción	Peso Kg./m	Superficie Exterior (dm ² /m) Total (dm ² /m)	Momento Inercia Ix (cm ⁴) Iy (cm ⁴)	Pág.
E-60083 LA ROCA		Brida Superior Tubo de 40	4,001	499 499	- -	9.2.6
E-60103 LA ROCA		Salva Bicicletas de 120x30	1,624	414 763	8,1 85,4	9.2.2
E200087 NAVARRA		Yugo Alza 77	0,410	187 187	- -	9.2.1
E554467 NAVARRA		Lama para ventilación	0,435	138 269	- -	9.2.5
E556425 NAVARRA		Bisagra de 129	3,167	295 347	- -	9.2.2
CP5534 AVINTES		Salva Bicicletas de 100x30	1,333	308 567	6,8 55,3	9.2.3
CP5535 AVINTES		Soporte Protector Curvo 100X100	2,090	439 768	- -	9.2.4

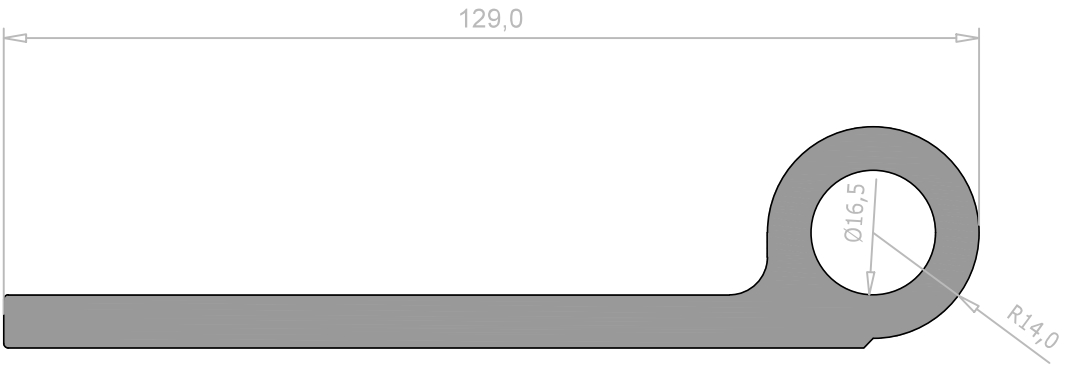
9.2- PERFILES 1:1

E-5327	Espes.	Sup. Ext.	Sup. Total	Peso	E-1502	Espes.	Sup. Ext.	Sup. Total	Peso
Yugo Alza 77	1.2 mm	186 dm ² /m	186 dm ² /m	0.308 Kg/m	Yugo Alza 77	1.5 mm	185 dm ² /m	185 dm ² /m	0.376 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA
									
E200087	Espes.	Sup. Ext.	Sup. Total	Peso	E-1724	Espes.	Sup. Ext.	Sup. Total	Peso
Yugo Alza 77	1.8 mm	187 dm ² /m	187 dm ² /m	0.410 Kg/m	Yugo Alza 90	2 mm	255 dm ² /m	255 dm ² /m	0.723 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA		Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA
									
E-60016	Espes.	Sup. Ext.	Sup. Total	Peso					
Bisagra de 50,5	8.5 mm	174 dm ² /m	246 dm ² /m	3.040 Kg/m					
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA					

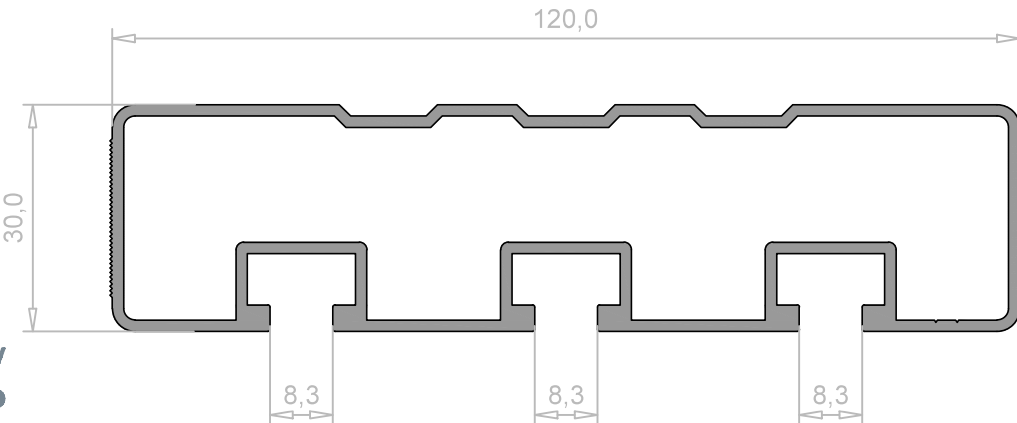
E-60017	Espes.	Sup. Ext.	Sup. Total	Peso
Bisagra de 131	7 mm	313 dm ² /m	385 dm ² /m	4.452 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA



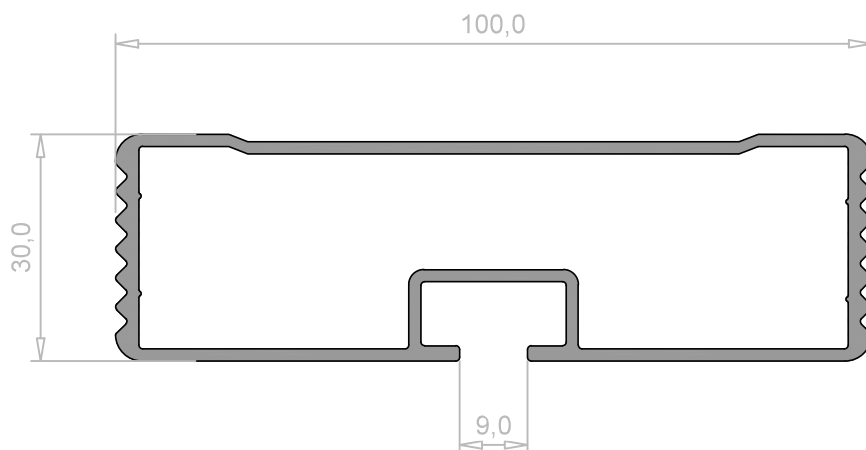
E556425	Espes.	Sup. Ext.	Sup. Total	Peso
Bisagra de 129	7 mm	295 dm ² /m	347 dm ² /m	3.167 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA



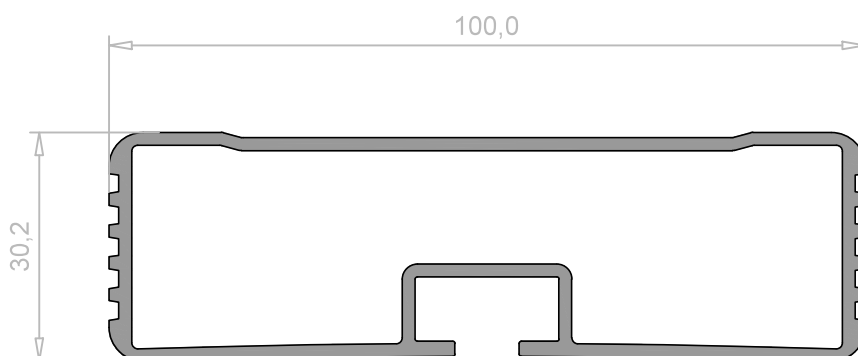
E-60103	Espes.	Sup. Ext.	Sup. Total	Peso
Salva Bicicletas de 120x30	1.5 mm	414 dm ² /m	763 dm ² /m	1.624 Kg/m
	Momento Inercia	Ix: 8.1 cm ⁴	Iy: 85.4 cm ⁴	LA ROCA



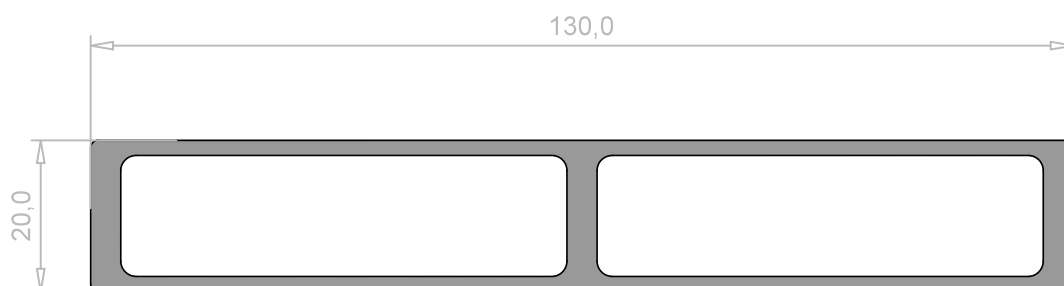
CP5534	Espes.	Sup. Ext.	Sup. Total	Peso
Salva Bicicletas de 100x30	1.6 mm	308 dm ² /m	567 dm ² /m	1.333 Kg/m
	Momento Inercia	Ix: 6.8 cm ⁴	Iy: 55.3 cm ⁴	AVINTES



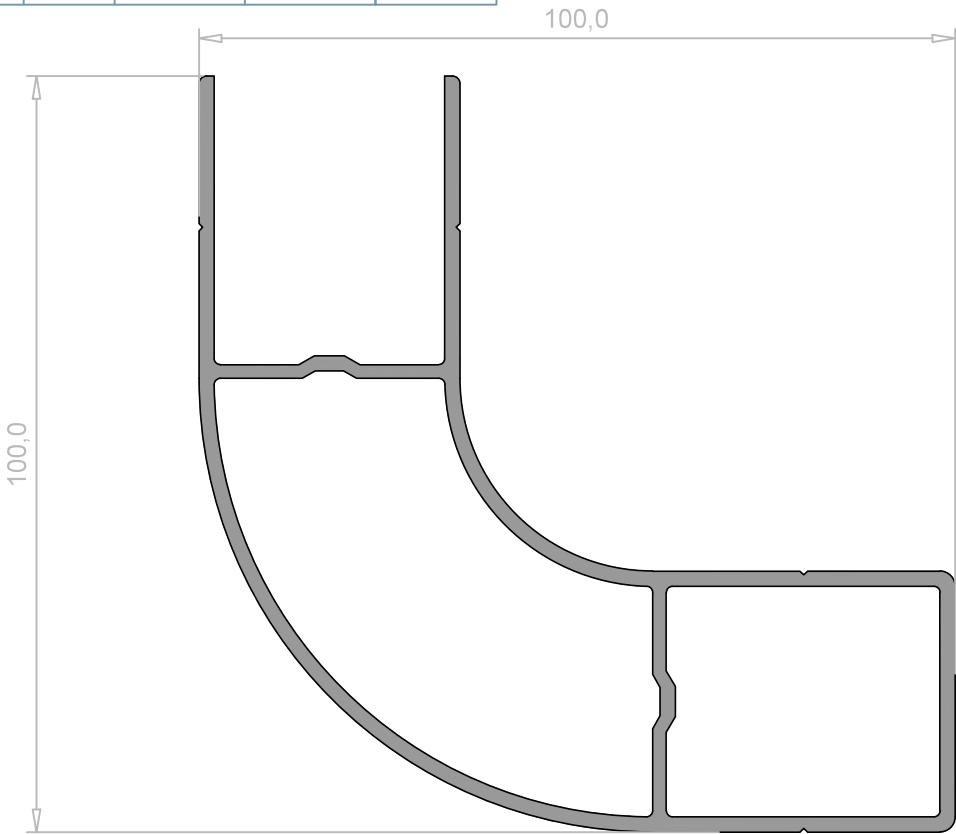
2066784	Espes.	Sup. Ext.	Sup. Total	Peso
Salva Bicicletas de 100x30	1.7 mm	317 dm ² /m	576 dm ² /m	1.375 Kg/m
	Momento Inercia	Ix: 7.1 cm ⁴	Iy: 55.1 cm ⁴	NAVARRA



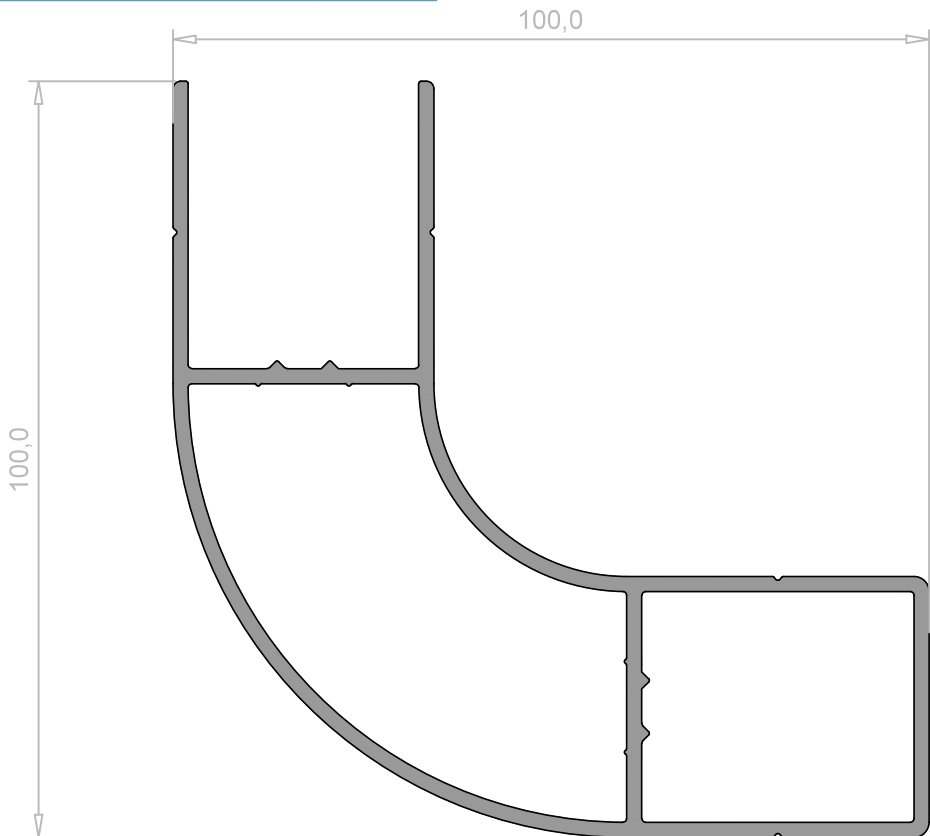
5003275	Espes.	Sup. Ext.	Sup. Total	Peso
Aislador 130x20	2/4 mm	298 dm ² /m	592 dm ² /m	1.939 Kg/m
	Momento Inercia	Ix: . cm ⁴	Iy: . cm ⁴	NAVARRA



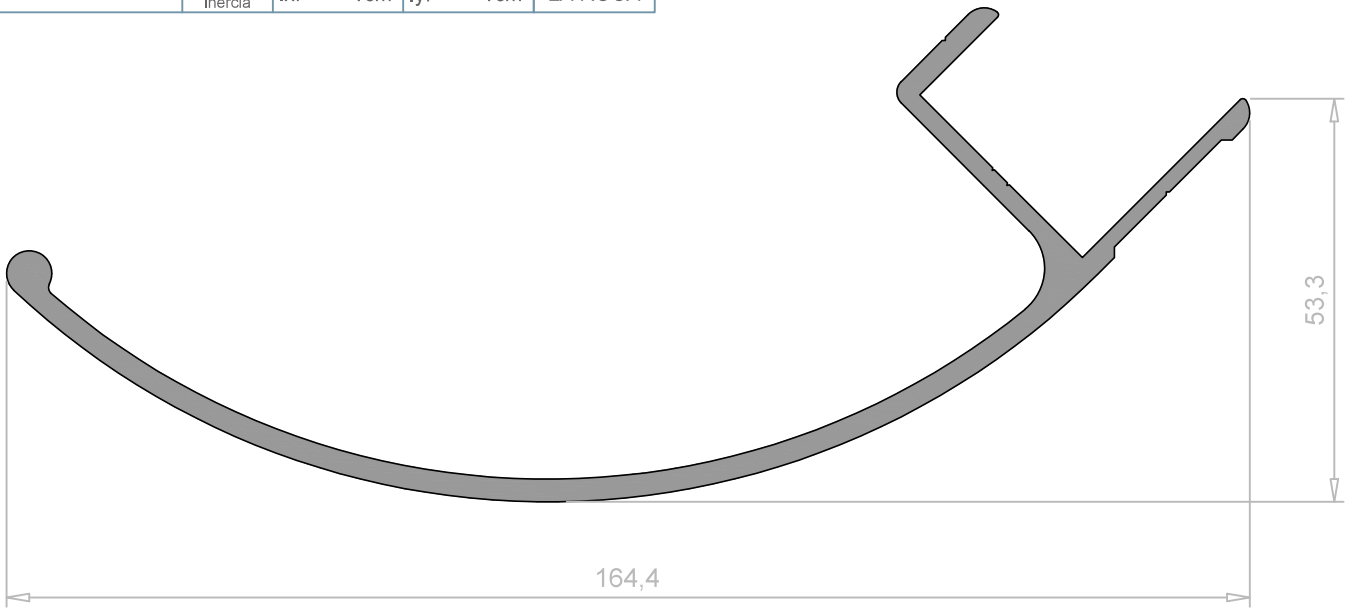
2066785	Espes.	Sup. Ext.	Sup. Total	Peso
Soporte Protector Curvo 100X100	2 mm	439 dm ² /m	767 dm ² /m	2.055 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA



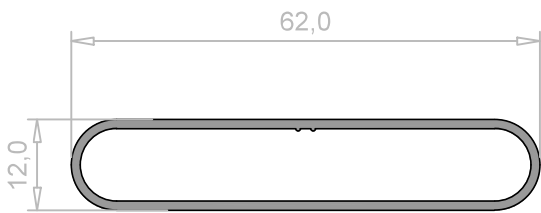
CP5535	Espes.	Sup. Ext.	Sup. Total	Peso
Soporte Protector Curvo 100X100	2 mm	439 dm ² /m	768 dm ² /m	2.090 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	AVINTES



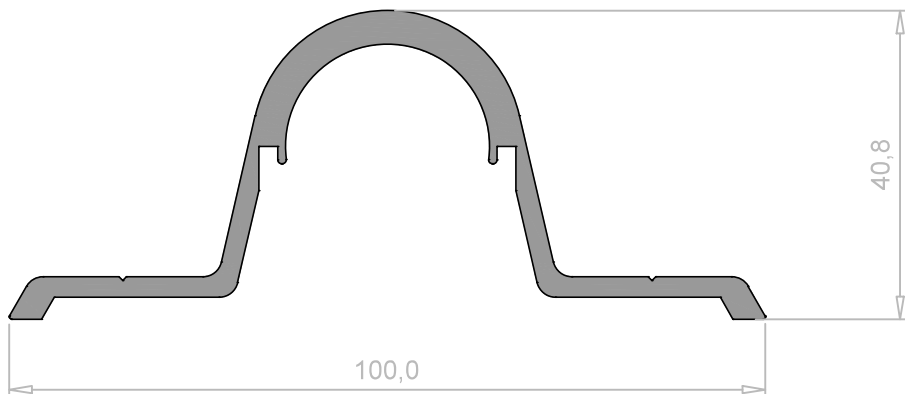
E-60036	Espes.	Sup. Ext.	Sup. Total	Peso
Salva Bicicletas	3 mm	478 dm ² /m	478 dm ² /m	1.879 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA



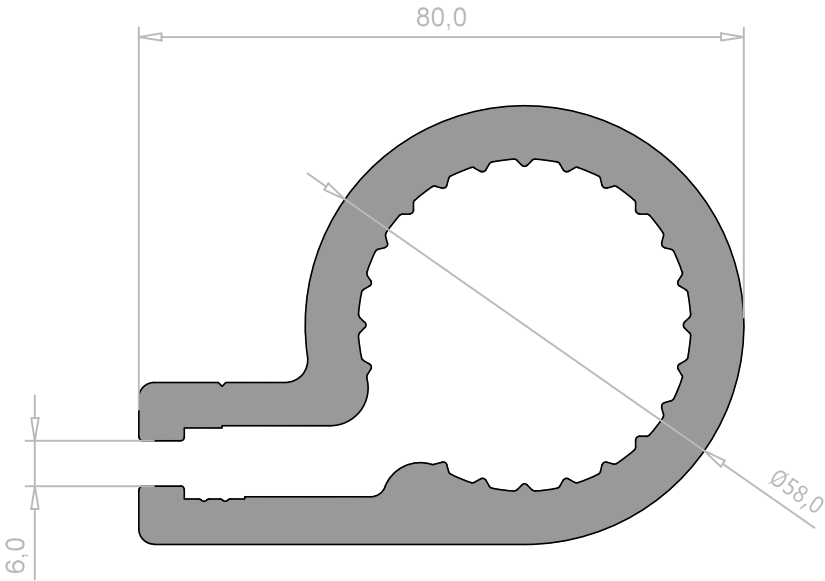
E554467	Espes.	Sup. Ext.	Sup. Total	Peso
Auxiliar de Paragolpes	1.2 mm	138 dm ² /m	269 dm ² /m	0.435 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA



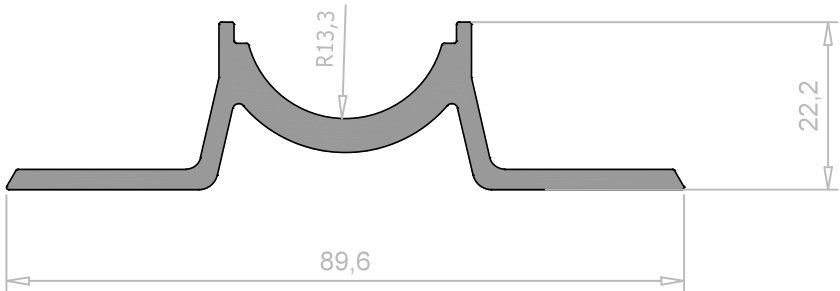
2065308	Espes.	Sup. Ext.	Sup. Total	Peso
Brida Superior Tubo de 27	2,7/4,5 mm	313 dm ² /m	313 dm ² /m	1.319 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA



E-60083	Espes.	Sup. Ext.	Sup. Total	Peso
Brida Superior Tubo de 40	7 mm	499 dm ² /m	499 dm ² /m	4.001 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA



2065307	Espes.	Sup. Ext.	Sup. Total	Peso
Brida Superior Tubo de 27	2,7/4,5 mm	251 dm ² /m	251 dm ² /m	1.104 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	NAVARRA



10. OTROS PERFILES NORMALIZADOS

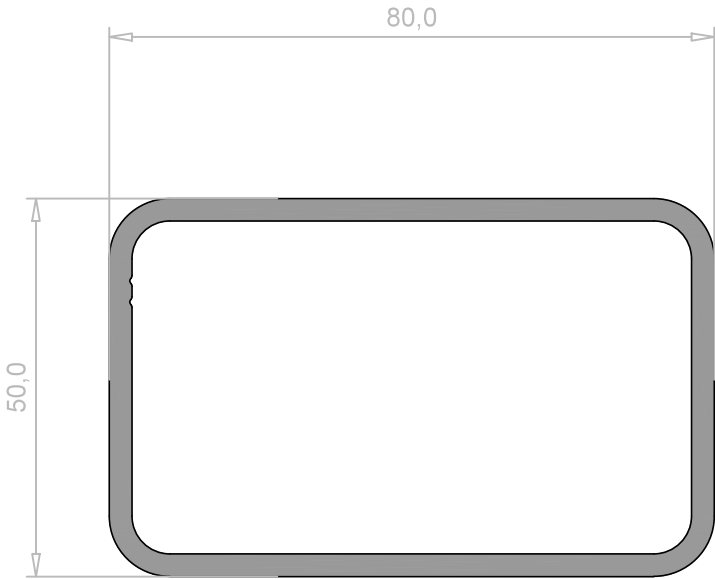
10.1- LISTADO

Listado

[illegible]

10.2- PERFILES 1:1

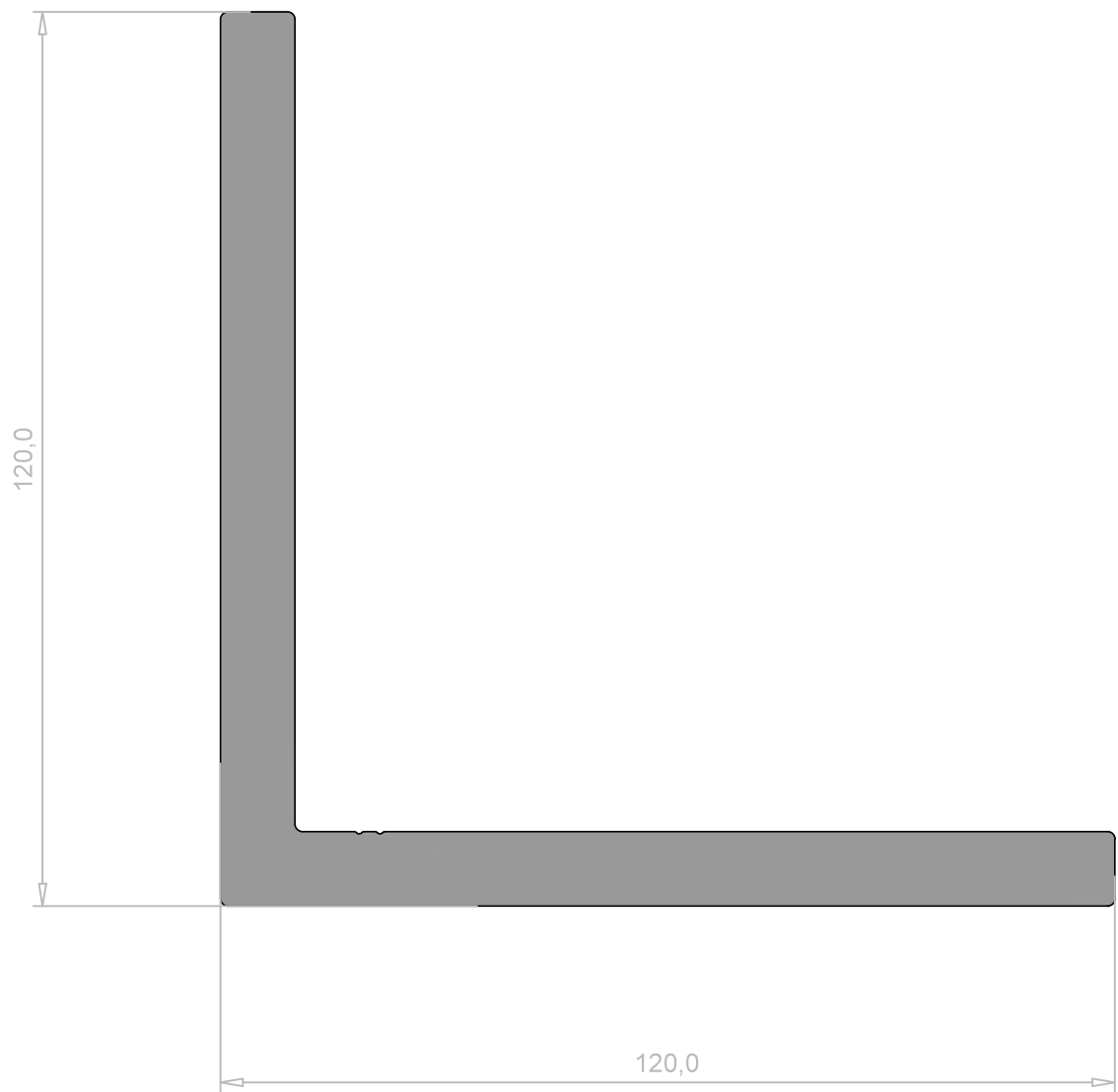
HST0110	Espes.	Sup. Ext.	Sup. Total	Peso
Tubo 80x50x3	3 mm	246 dm ² /m	474 dm ² /m	1.924 Kg/m
	Momento Inercia	Ix: . cm ⁴	Iy: . cm ⁴	LA ROCA



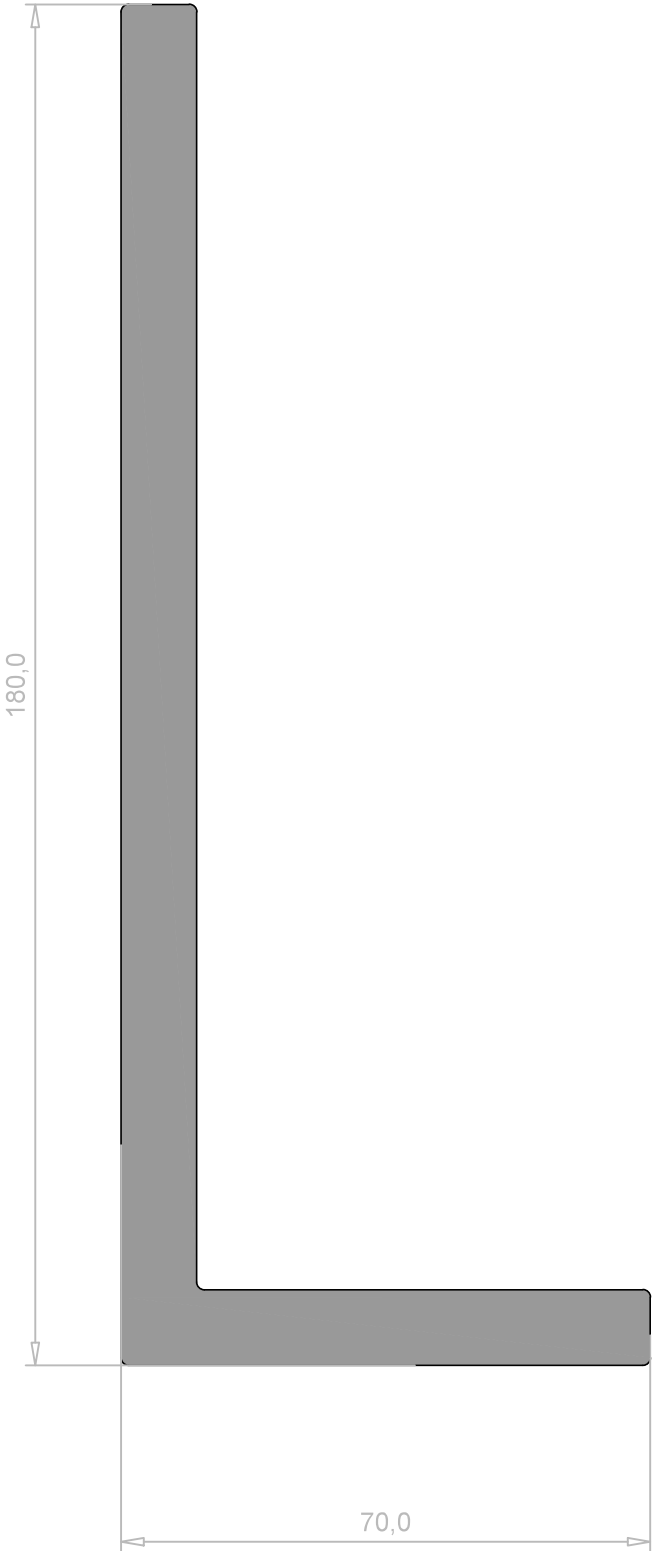
TR-44060	Espes.	Sup. Ext.	Sup. Total	Peso
Tubo 160x80x10	10 mm	478 dm ² /m	879 dm ² /m	11.920 Kg/m
	Momento Inercia	Ix: . cm ⁴	Iy: . cm ⁴	LA ROCA



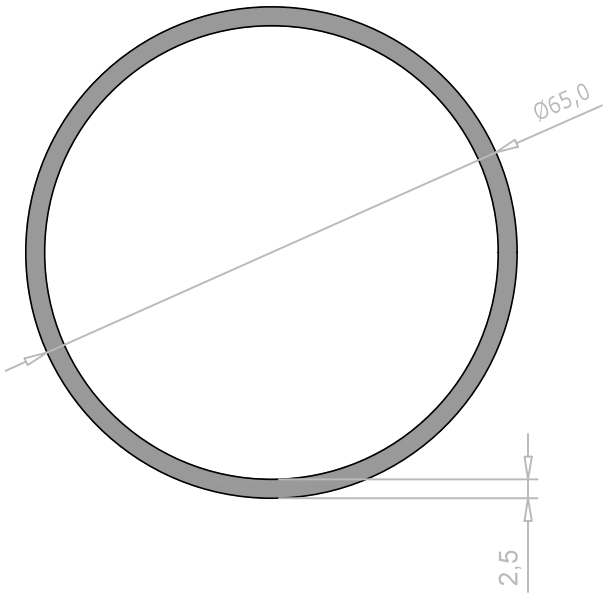
L-40094	Espes.	Sup. Ext.	Sup. Total	Peso
Angular 120x120x10	10 mm	478 dm ² /m	478 dm ² /m	6.230 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA



L-40097	Espes.	Sup. Ext.	Sup. Total	Peso
Angular 180x70x10	10 mm	497 dm ² /m	497 dm ² /m	6.502 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA



45089	Espes.	Sup. Ext.	Sup. Total	Peso
Tubo 65x2.5	2.5 mm	204 dm ² /m	393 dm ² /m	1.325 Kg/m
	Momento Inercia	Ix: .cm ⁴	Iy: .cm ⁴	LA ROCA





Hydro cuenta con más de 50 años de ciencia y experiencia aplicada en soluciones de aluminio extruido.

Ofrecemos todo tipo de servicios, desde la formación en aluminio hasta el diseño, la producción, la fabricación y el tratamiento y acabado de superficies. Nuestro negocio se divide en cinco áreas de trabajo que une y completa todo el ciclo del aluminio, desde la extracción de minerales (Bauxita), hasta la elaboración de soluciones por laminación y extrusión, pasando por la obtención del aluminio primario y la disponibilidad de plantas de producción de energía. Disponemos de más de 150 localizaciones y 35.000 trabajadores distribuidos en 40 países.

En Iberia, Hydro Extrusion, basa su modelo de negocio en la estrecha colaboración con los clientes para el desarrollo de soluciones más innovadoras y efectivas basadas en los perfiles de aluminio extruido, producidos en cualquiera de nuestras cuatro plantas de extrusión en la península ibérica. Desde nuestra extensa cartera de productos, contamos con una gama de soluciones de perfiles normalizados: barras, pletinas, tubos... servidos con la garantía de calidad y servicio de Hydro, y las ventajas del aluminio extruido.

- **Hydro Extrusion Spain S.A.U.**

- **Fábrica Irurtzun:**

- C/Aralar, 9,
31860 Irurtzun (Navarra)
Tel. **+34 948 507 125** Fax. **+34 948 507 136**

- **Fábrica La Roca:**

- PI Can Font de la Parrera, s/n. St. Agnès de Malanyanes
E-08430 La Roca del Valles (Barcelona)
Tel. **+34 937 078 200** Fax. **+34 938 422 027**.

- **Fábrica La Selva:**

- PI Milenium. Avda. Aluminio s/n.
43470 La Selva del Camp (Tarragona)
Tel. **+34 977 307 000** Fax. **+34 977 307 001**.

- **Hydro Aluminium Extrusion Portugal HAEP S.A.**

- **Fábrica Avintes:**

- Travessa Nova das Alheiras, 216
4415-272 Pedroso
Tel. **+351 22 786 59 00** Fax. **+351 22 786 59 47**

Web www.hydro.com **Mail** info.profiles.es@hydro.com