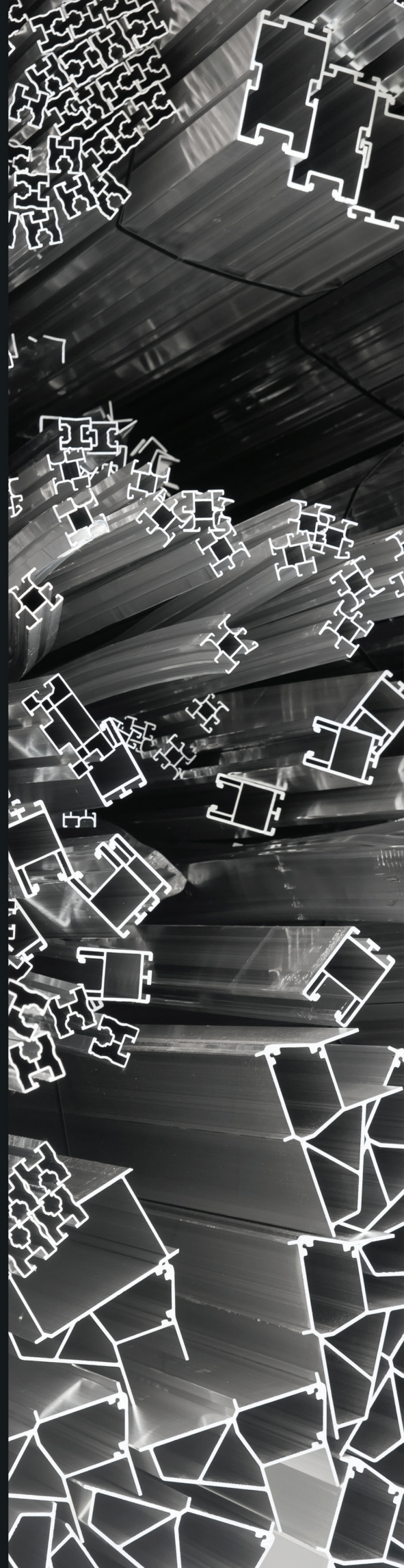


Firstmetal®



GENERAL CATALOGUE

ALUMINIUM EXTRUSION PROFILES
GENERAL CATALOGUE
2019/2020 ...



Mechanical Properties & Chemical Composition
of Alloy AA6063, AA6061 & AA6082 in temper T5 & T6

International Standard Compliance

Extrusion Dimension Tolerance: BS EN 755 Series, DIN 1748, DIN 17615, ASTM B221

	Alloy AA 6063	Alloy AA 6061	Alloy AA 6082
% Mg	0.45-0.90	0.80-1.20	0.62-0.70
% Si	0.20-0.60	0.40-0.80	0.95-1.05
% Cr	0.10	0.04-0.35	0.02
% Zn	0.10	0.25	0.02
% Fe	0.35	0.70	0.16-0.22
% Cu	0.10	0.15-0.40	0.03
% Mn	0.10	0.15	0.50-0.57
% Ti	0.10	0.15	0.02
Other impurities	0.05	0.05	0.02
Aluminium	REMAINDER	REMAINDER	REMAINDER

International Standard Compliance

		Alloy 6063		Alloy 6061		Alloy 6082	
		T5	T 6	T5	T6	T5	T6
Ult. Tensile Strength		150	18 5	190	2 8 0	290	3 1 0
0.2% Proof stress		110	1 6 0	115	2 4 0	270	2 8 5
Hardness (Brinel)		55	7 5	60	9 0	70	95
Ult. Shear Strength		155		205		211	
Elongation on 50mm		8		8		10	
Density		3		3		3	
Melting Range		600-650		580-650		580-650	
Coefficient on Linear Expansion		23		24		24	
Modules of Elasticity		67000		69000		69000	
Fatigue Strength (50x10 6)		75		95		101	

TEMPER

T4 : Solution heat treatment & naturally aged to a substantially stable condition
T5 : Cooled from an elevated temperature Shaping process and then artificially aged hardened.
T6 : Solution heat treatment and age hardened.

FIRE RATING :

Aluminium Alloys non “combustible” and rated AA (the highest possible under the classification system - BS 476: Part 6.

EXTRUSION PRESS SIZES

1. 20 MN Press Billet diameter 203 mm (8)inches

MAXIMUM SIZE OF PROFILE

Solid : 240 mm CCD (Circumscribing Circle diameter)
Hollow : 200 mm CCD (Circumscribing Circle diameter)

ALLOY CHARACTERISTIC

AA 6063 : The most popular extrusion alloy , takes a good surface finish, is corrosion resistant and can be heat treated or strength.

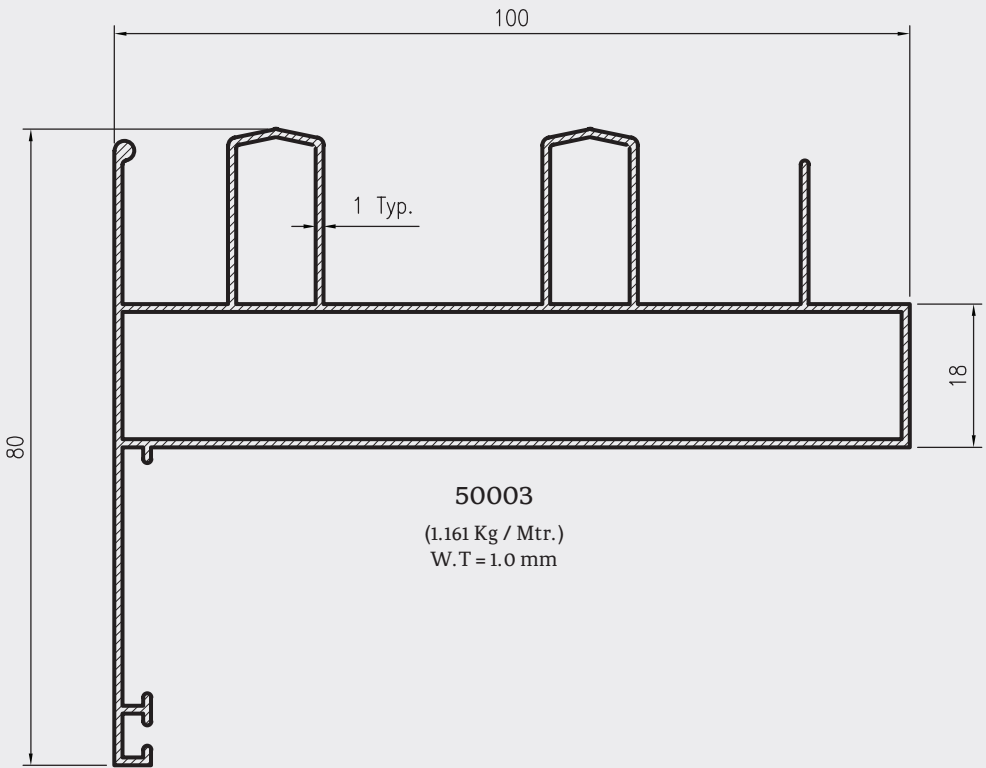
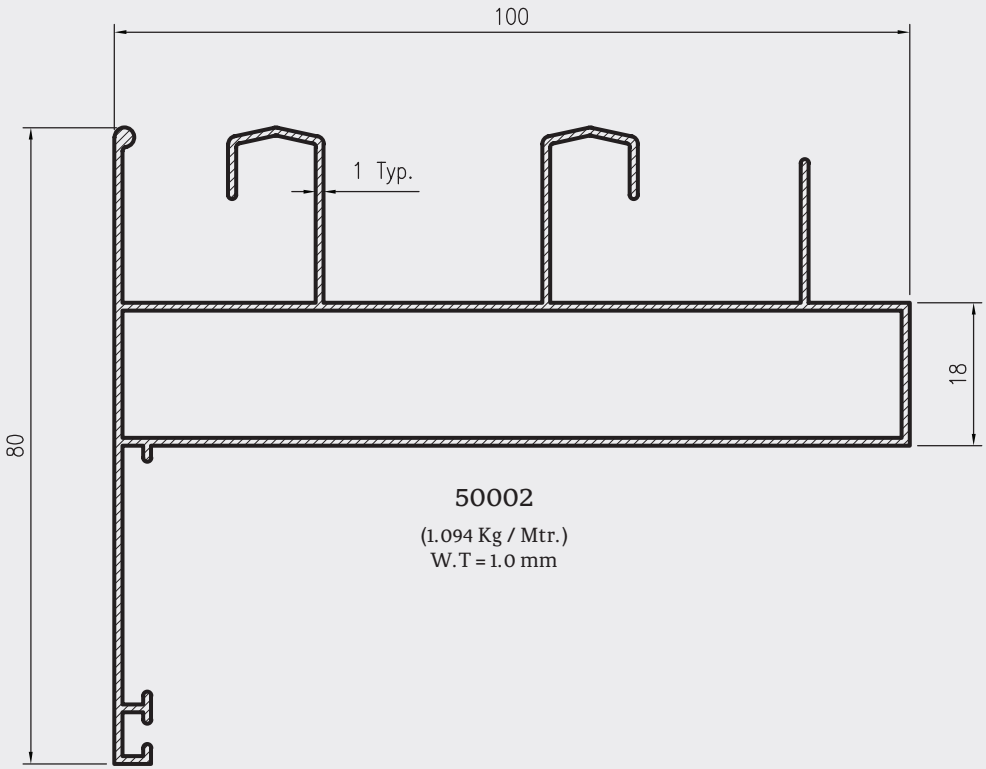
AA 6061: Most versatile alloy of heat treatable group is an improved magnesium silicide alloy with the ability to develop strength somewhat higher used in transportation & structural applications than 6063 alloy - good corrosion resistant –used in transportation and structural applications.

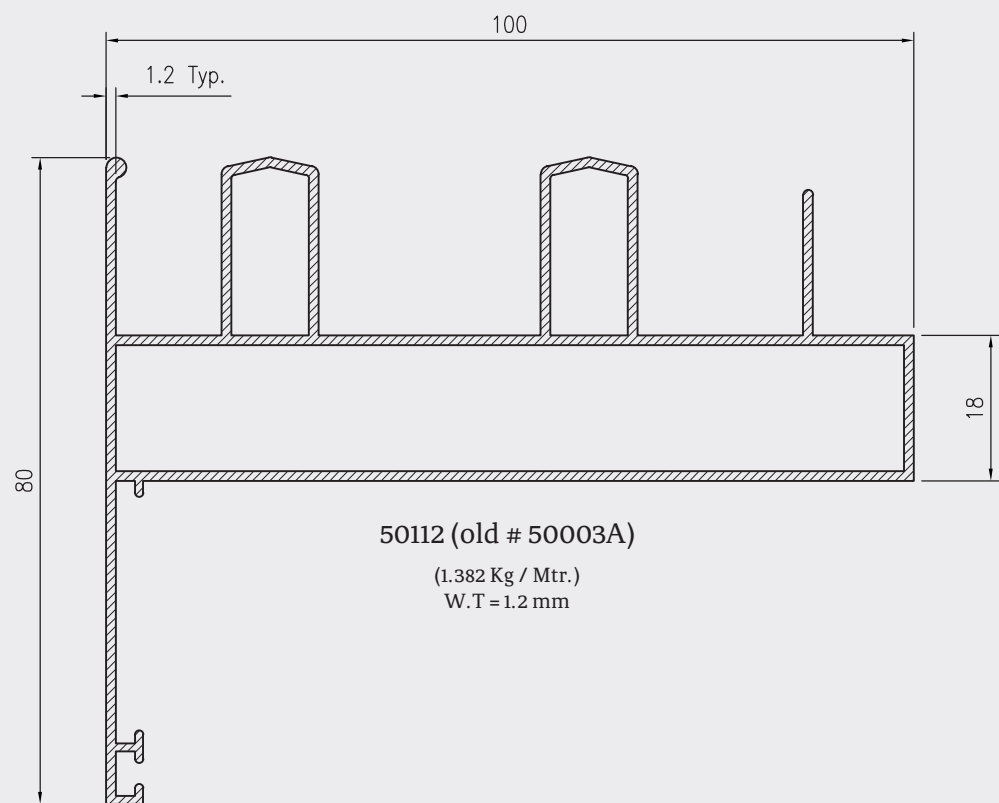
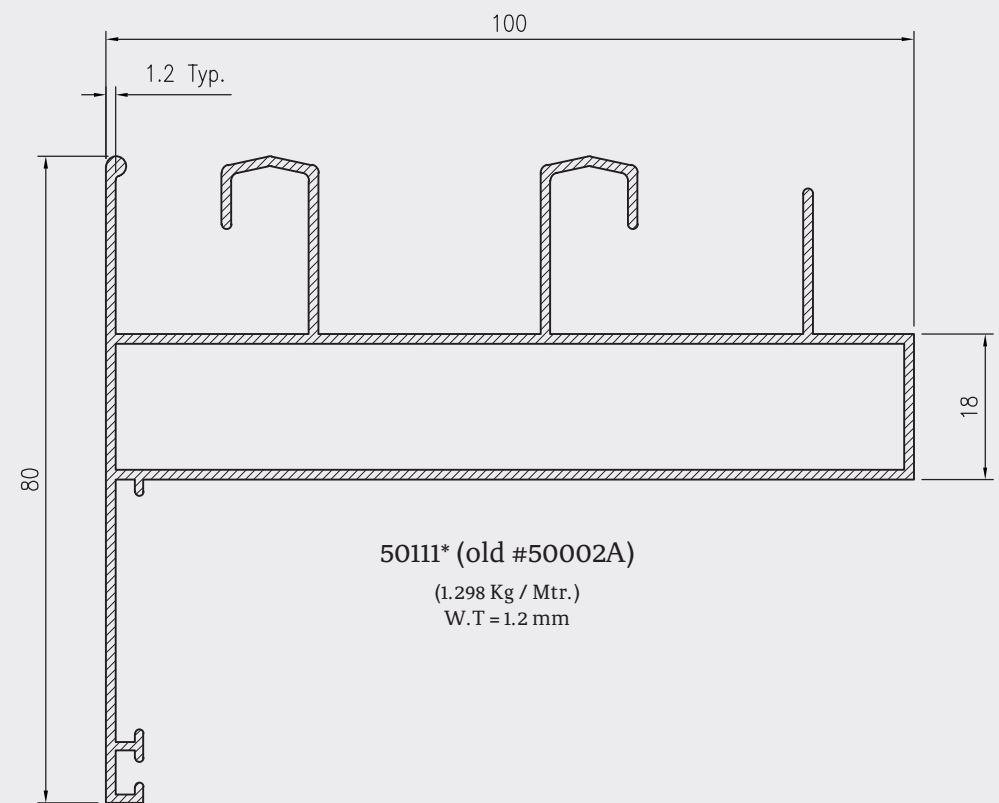
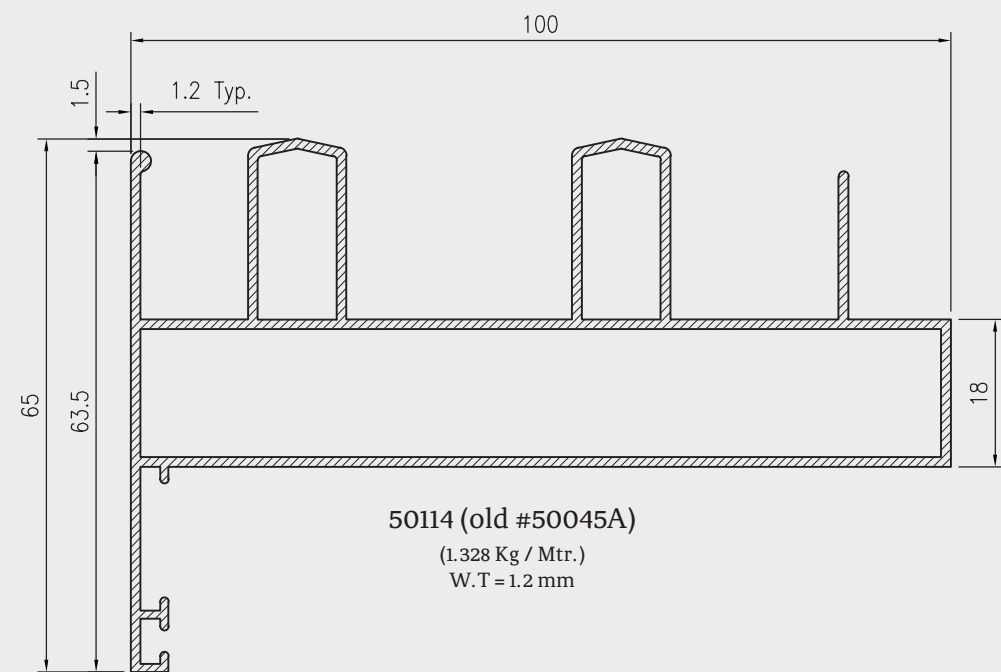
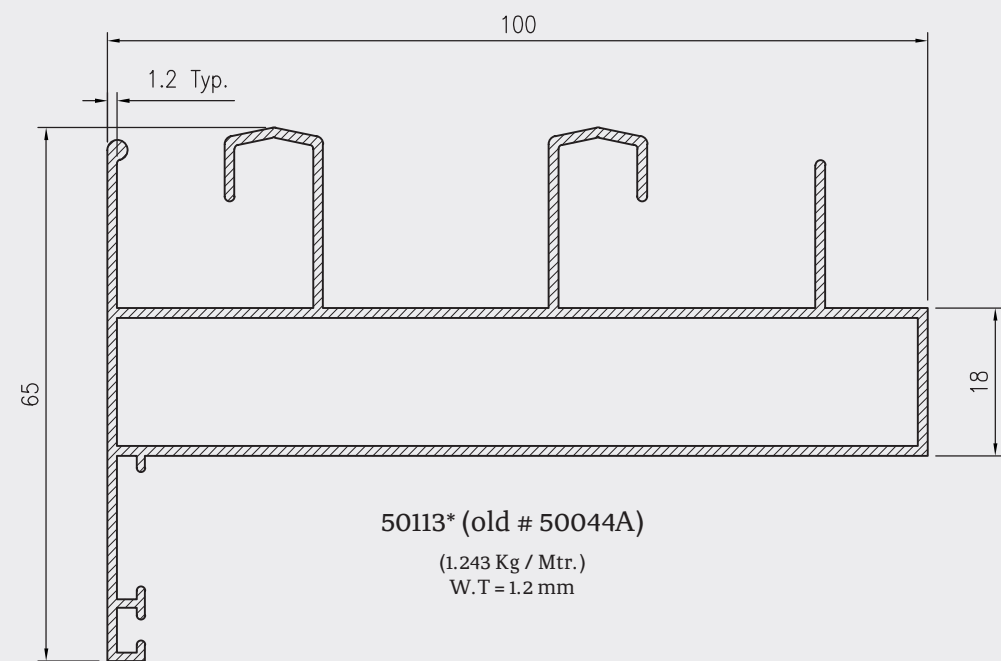
AA 6082: Similarly this alloy has good tensile strength having good ex trudability; widely chosen for Auto mobile profiles structures with complex sections,

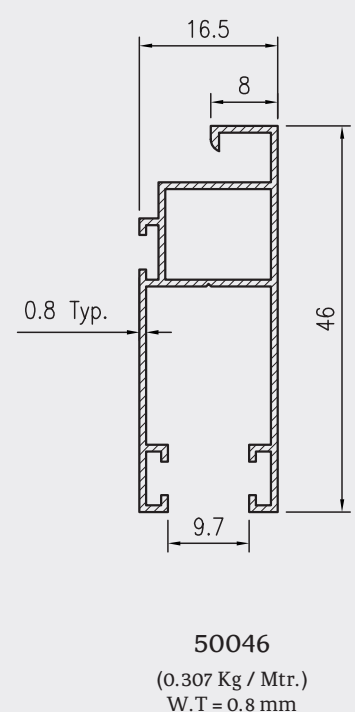
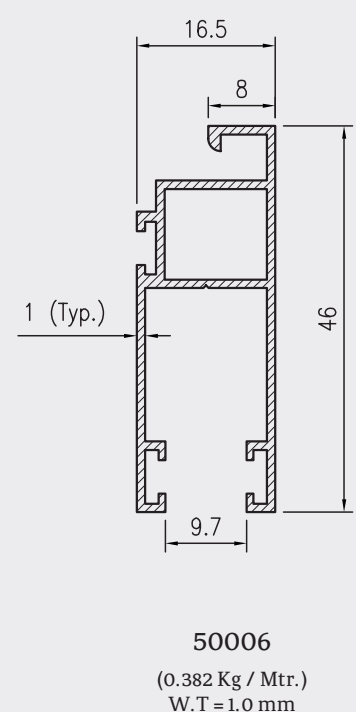
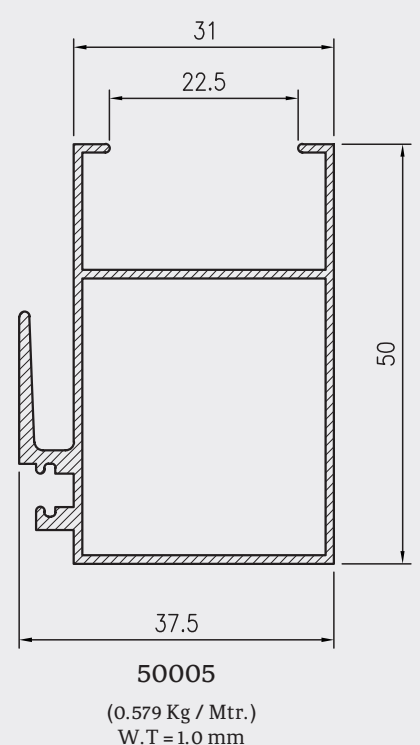
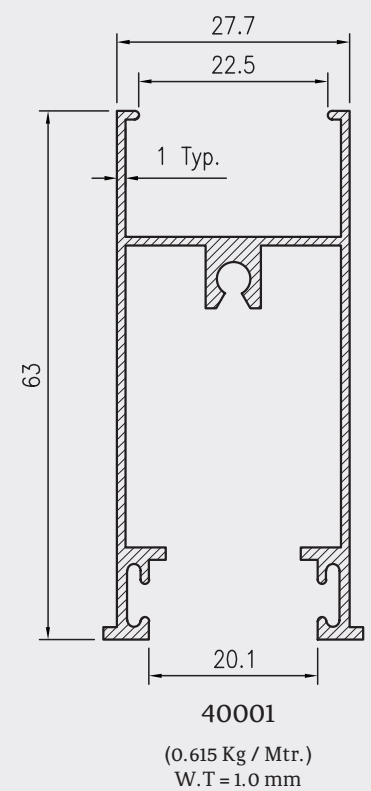
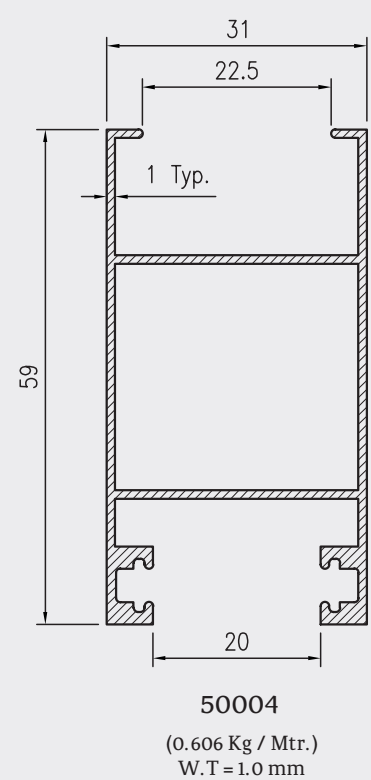
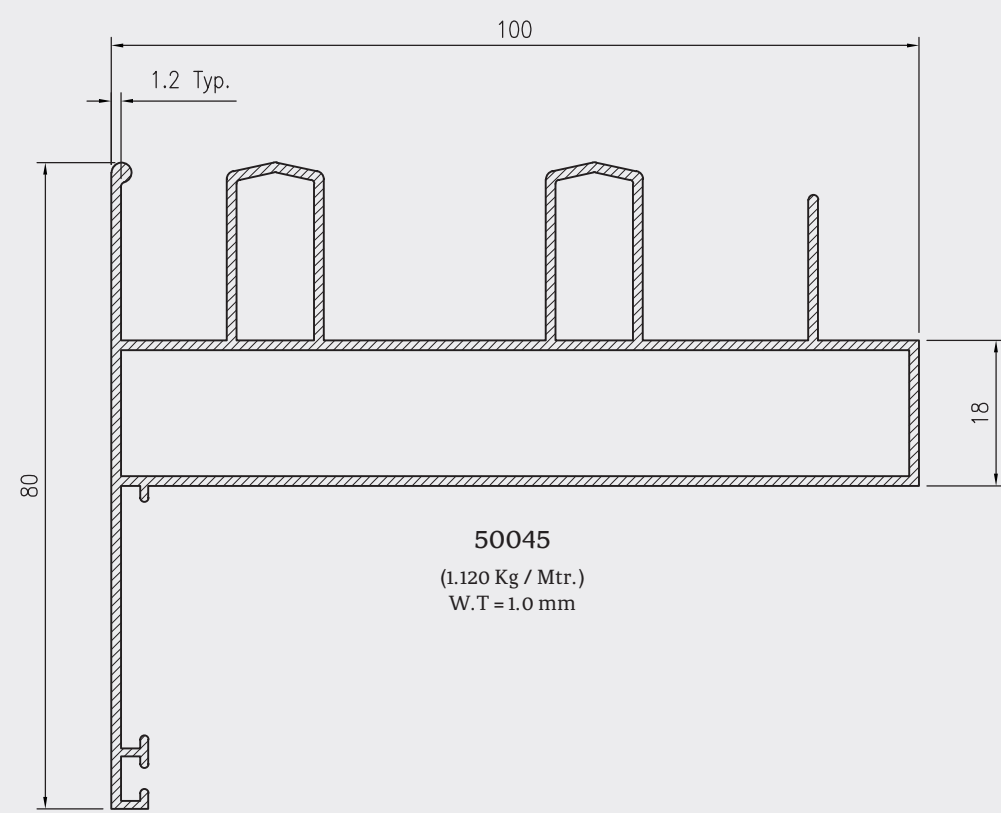
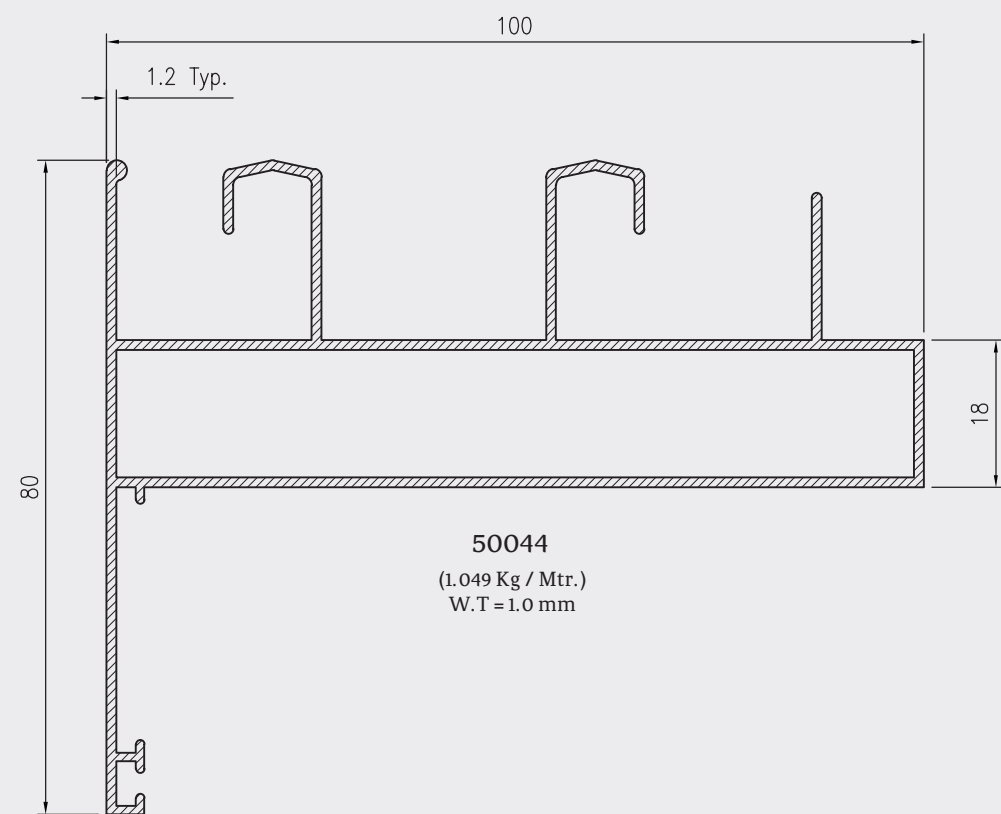
SARAYA SLIDING SERIES

1.0MM & 1.2MM WALL THICKNESS

Saraya 100mm Sliding System Light Weight





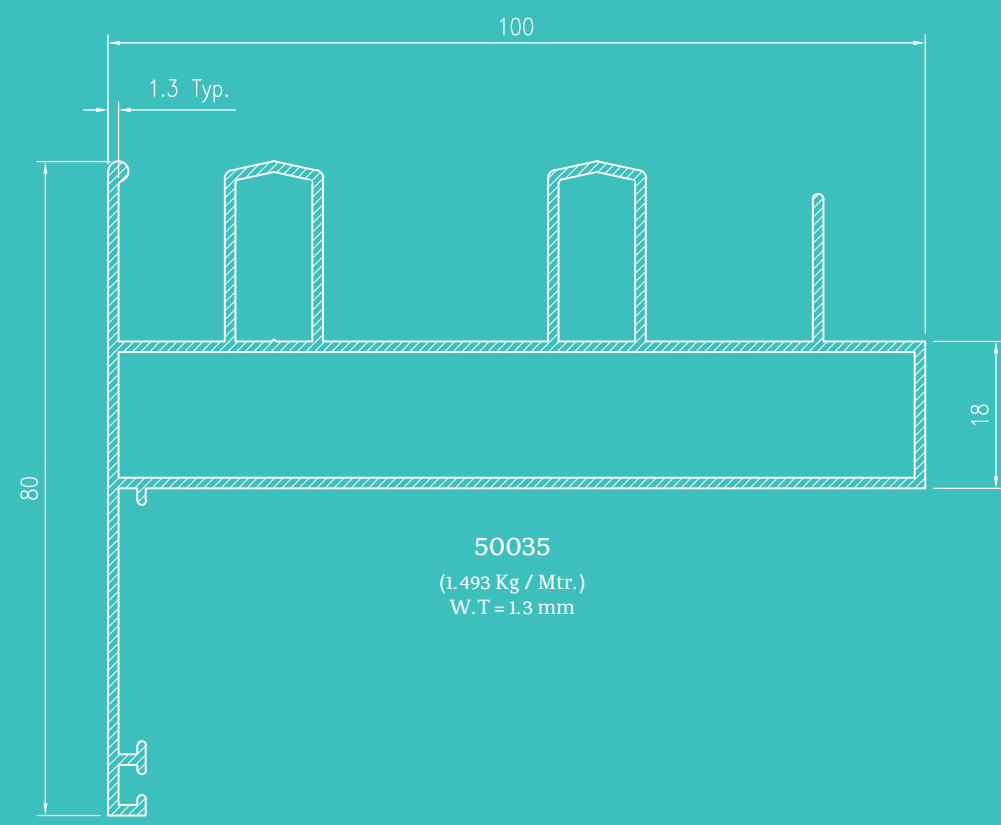
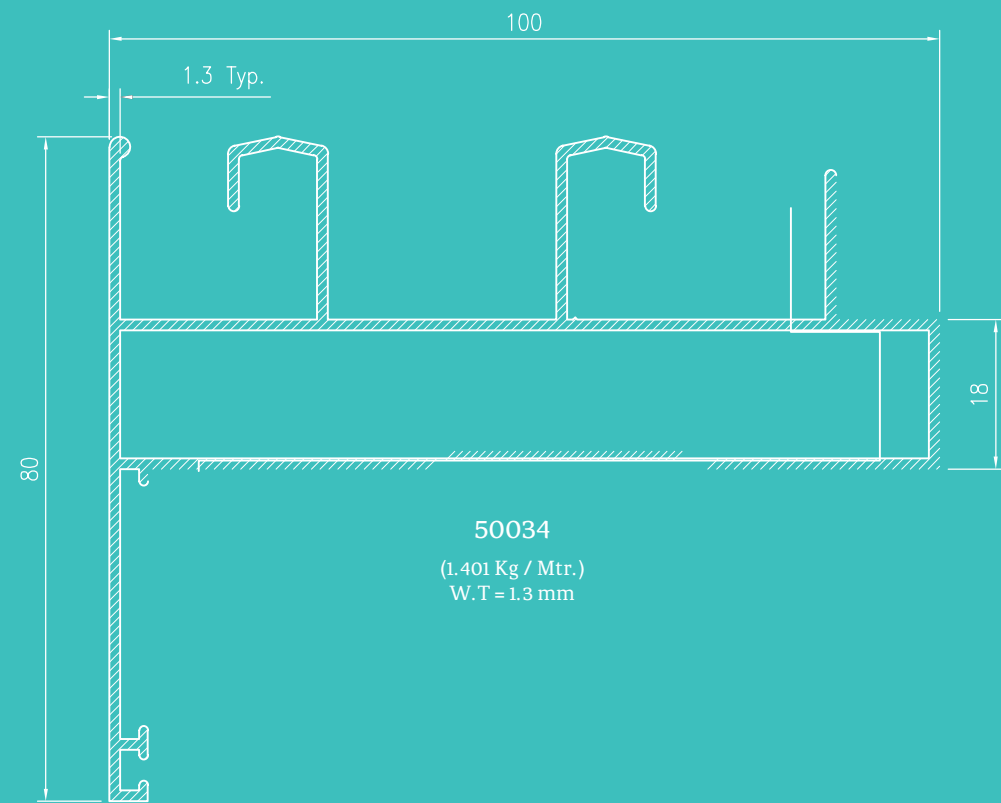


SARAYA SLIDING SERIES

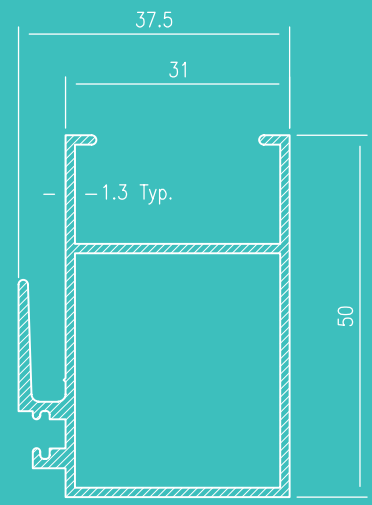
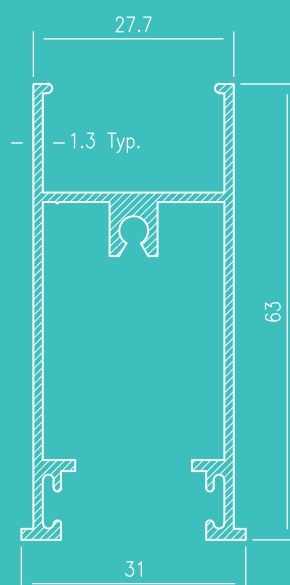
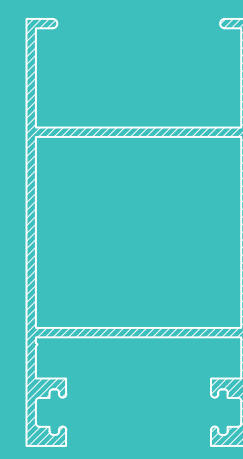
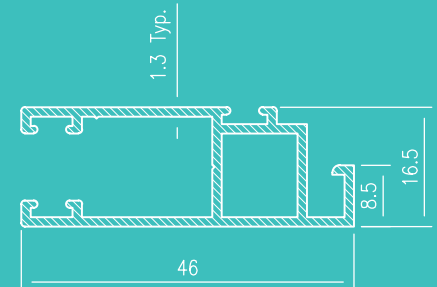
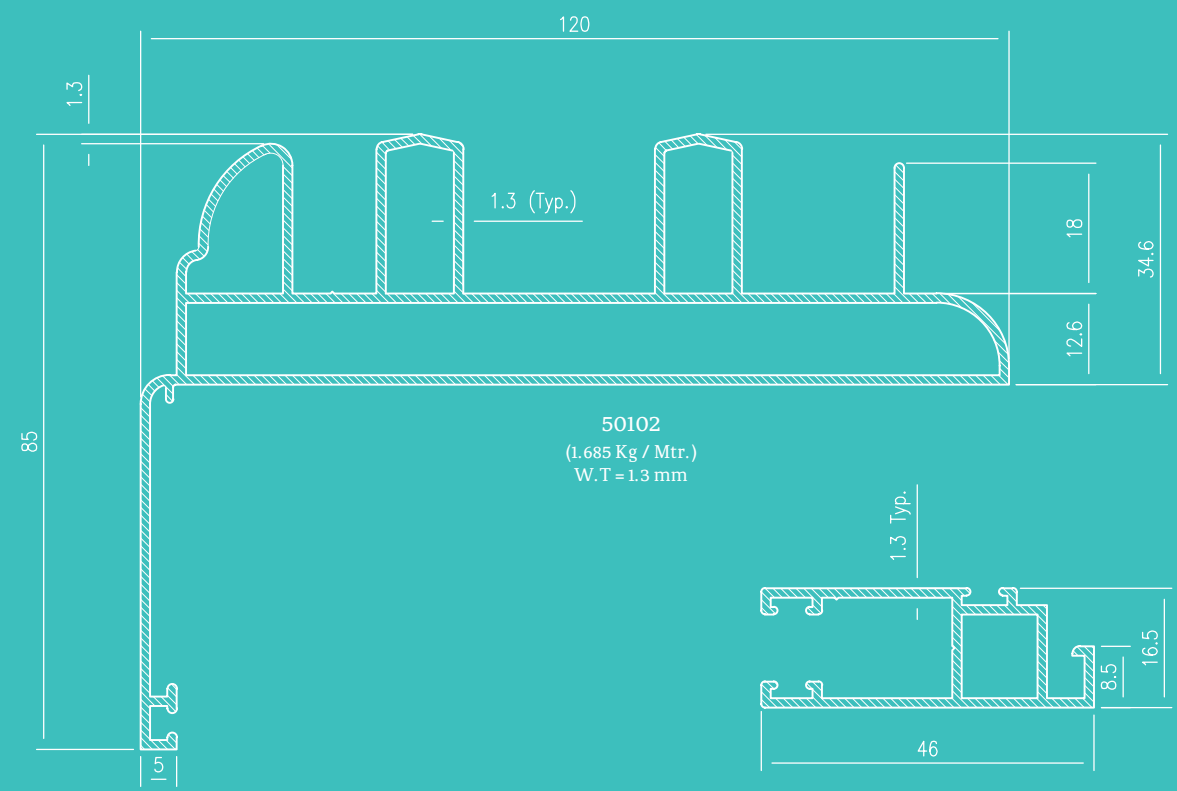
1.3MM WALL THICKNESS



Saraya 100mm Sliding System Medium Weight



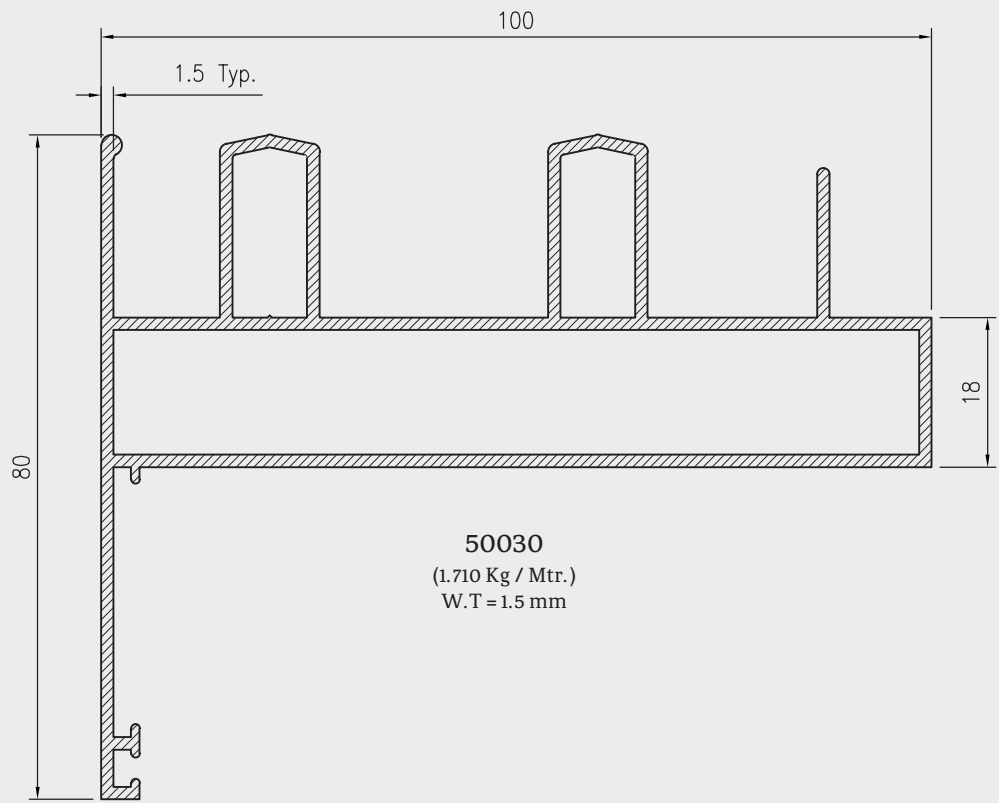
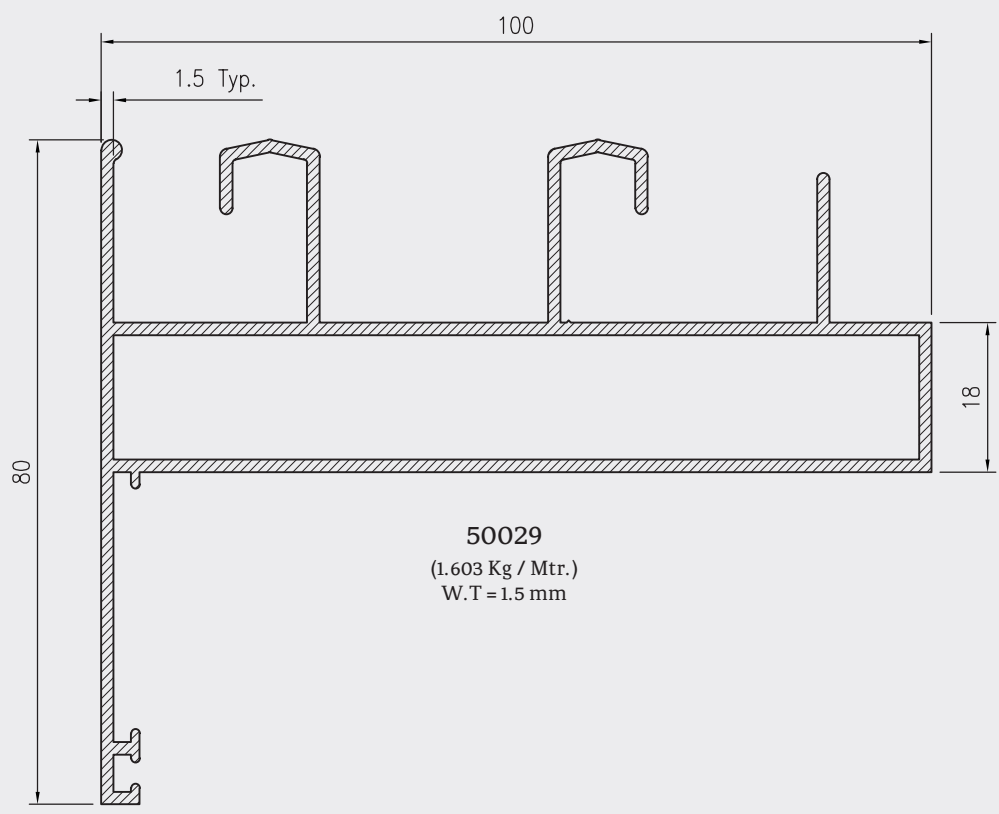
Saraya 120mm Sliding System Medium Weight

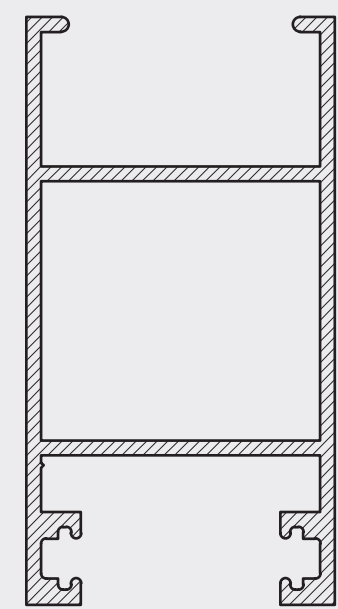


SARAYA SLIDING SERIES
1.5MM WALL THICKNESS

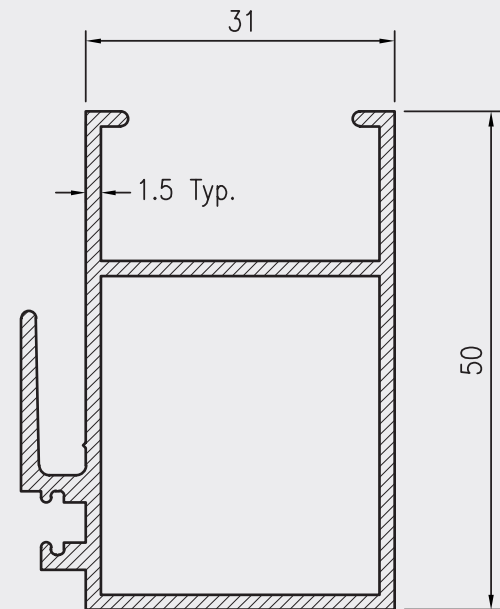


Saraya 100mm Sliding System Medium Weight

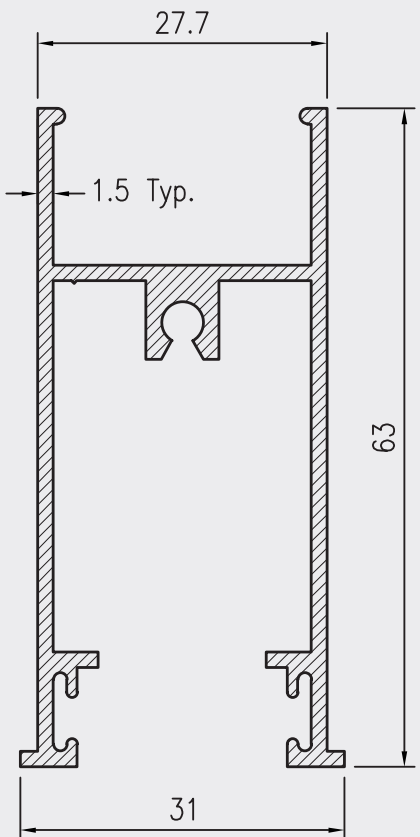




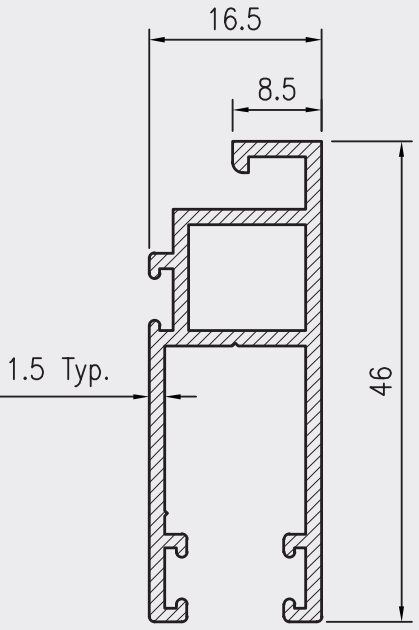
50031
(0.825 Kg / Mtr.)
W.T = 1.5 mm



50032
(0.794 Kg / Mtr.)
W.T = 1.5 mm

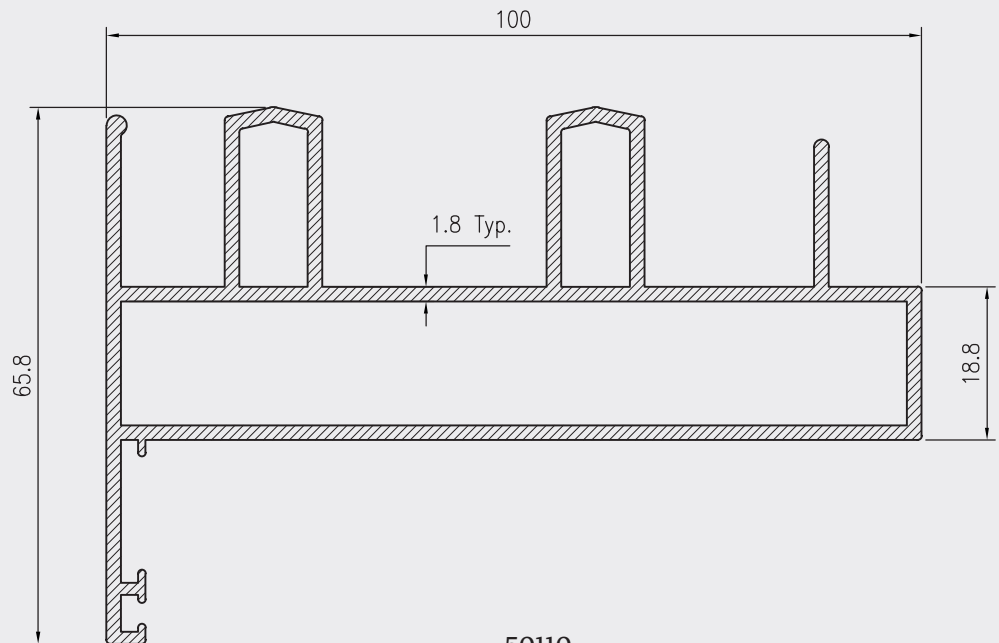


40007
(0.805 Kg / Mtr.)
W.T = 1.5 mm



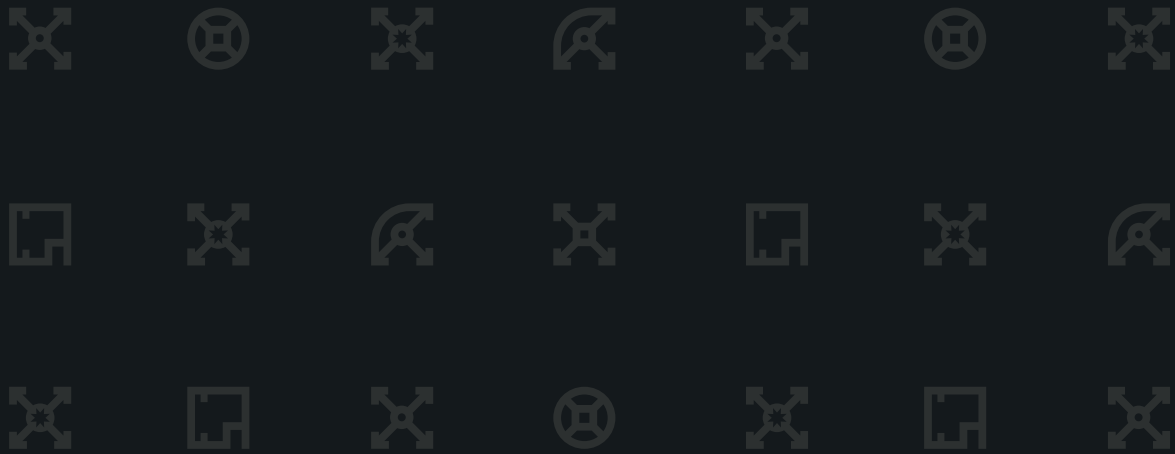
50033
(0.531 Kg / Mtr.)
W.T = 1.5 mm

Saraya 100mm Sliding System Heavy Weight

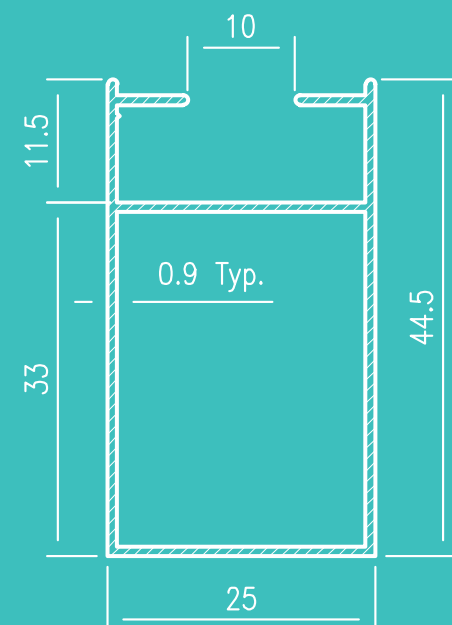
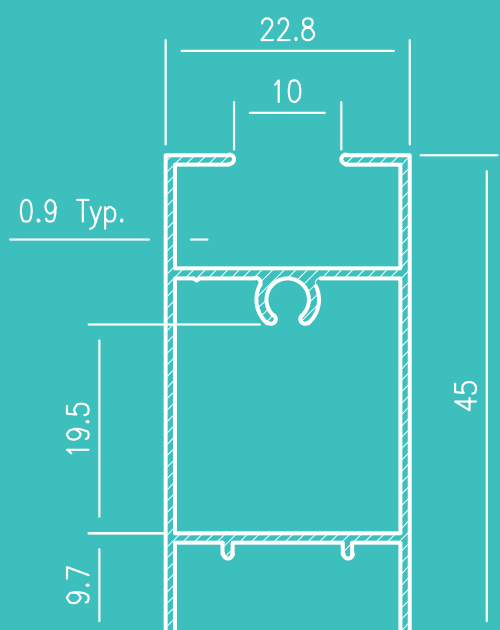
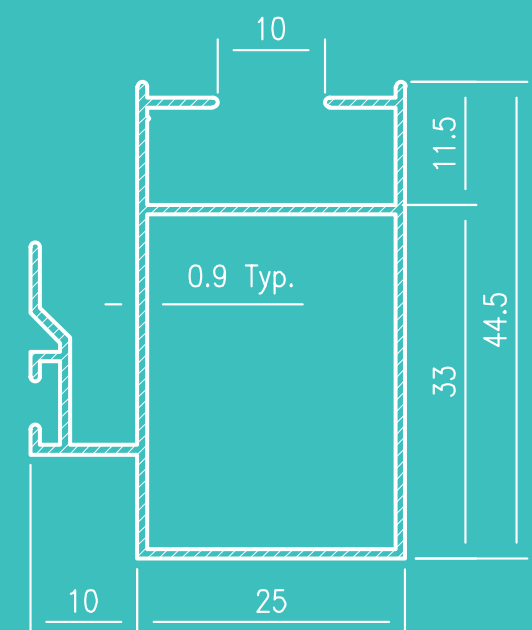
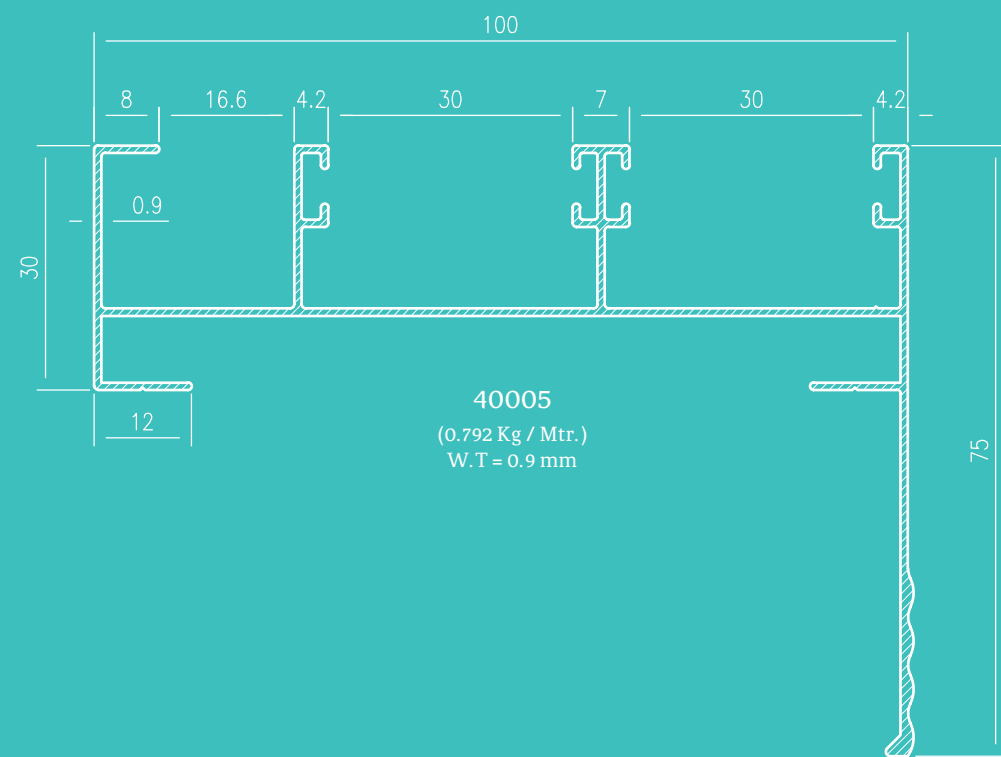
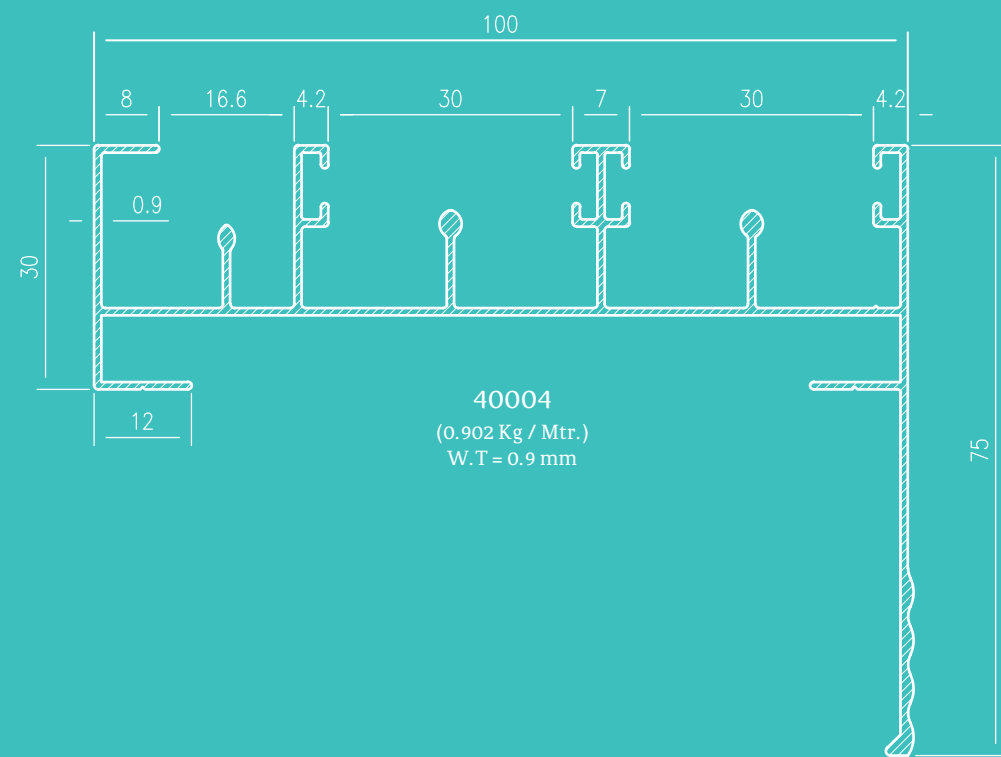


50110
(1.959 Kg / Mtr.)
W.T = 1.8 mm

COMMERCIAL DECORATIVE 100MM
CLOSEDSLIDING SERIES(TIJARI)



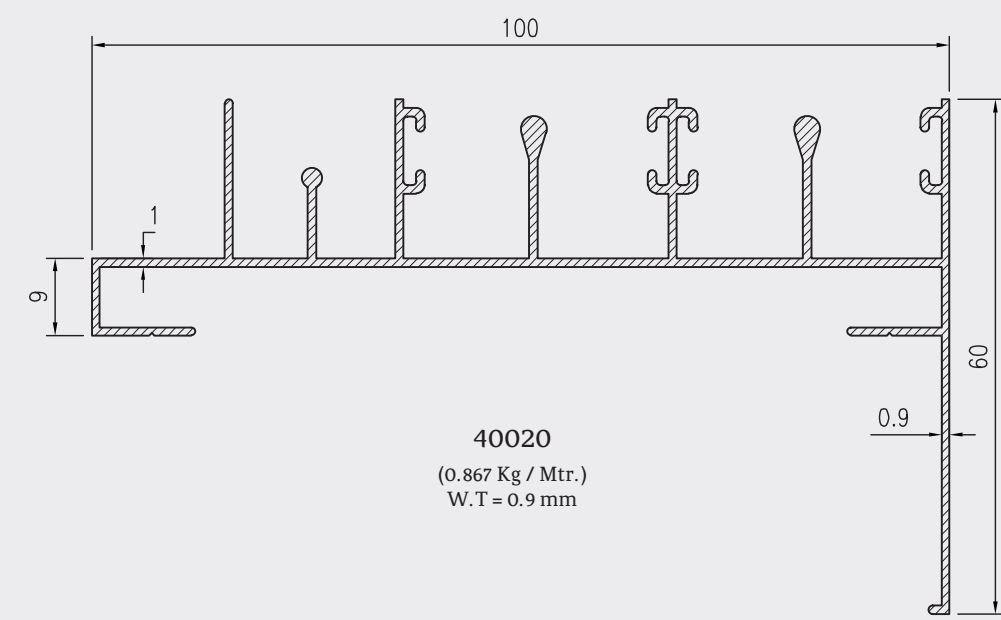
Commercial Decorative 100mm Sliding System



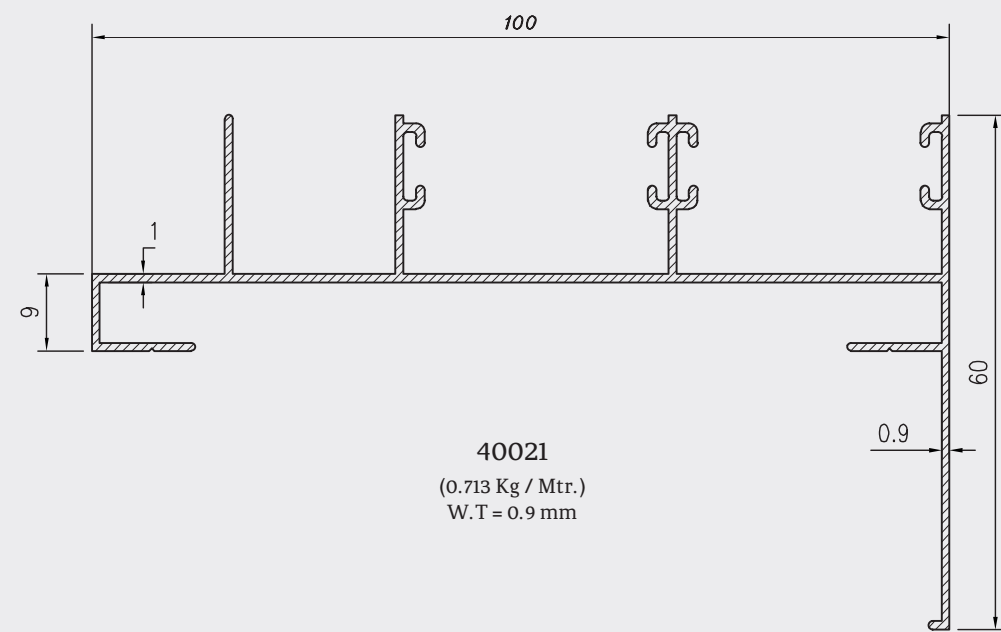
COMMERCIAL NON DECORATIVE 100MM
OPEN SLIDING SERIES(TIJARI)



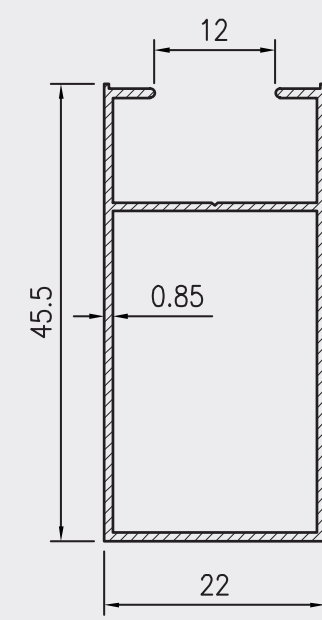
Commercial Non Decorative 100mm Sliding System



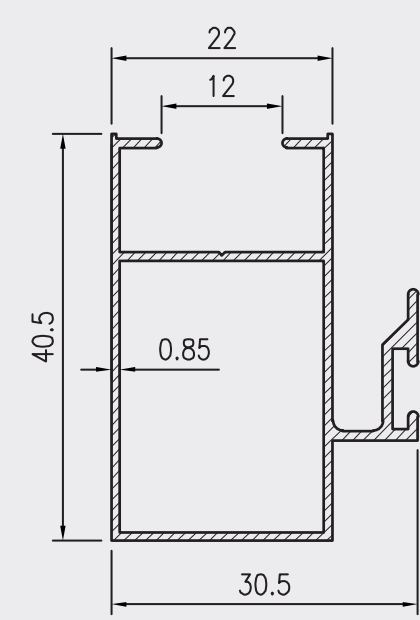
40020
(0.867 Kg / Mtr.)
W.T = 0.9 mm



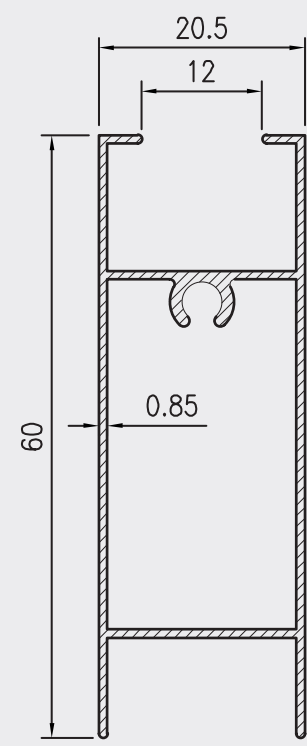
40021
(0.713 Kg / Mtr.)
W.T = 0.9 mm



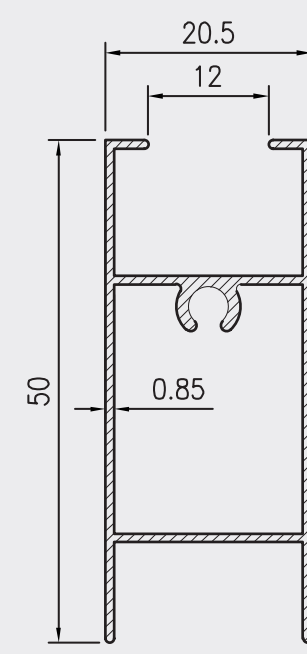
50062
(0.321 Kg / Mtr.)
W.T = 0.85 mm



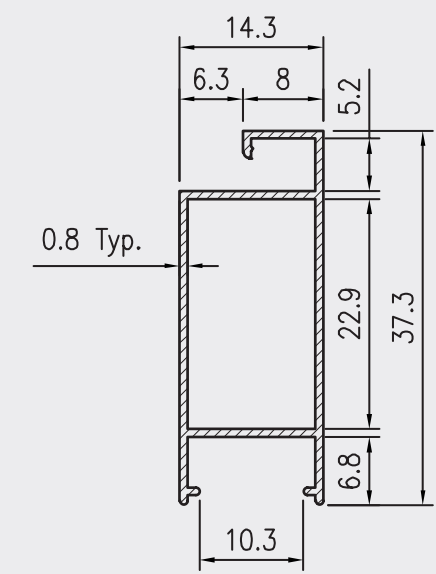
50063
(0.379 Kg / Mtr.)
W.T = 0.85 mm



50064
(0.413 Kg / Mtr.)
W.T = 0.85 mm



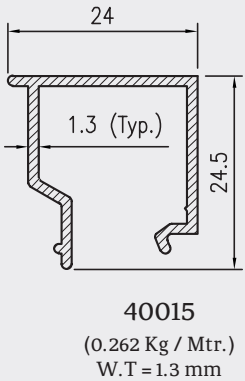
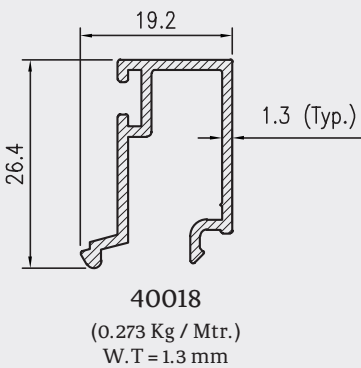
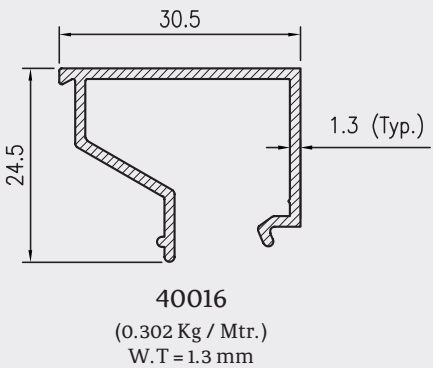
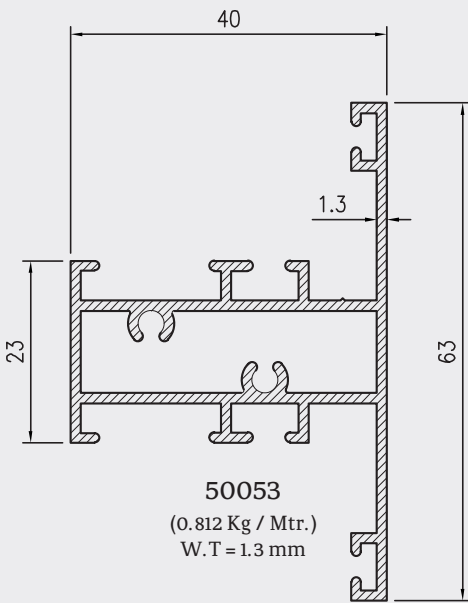
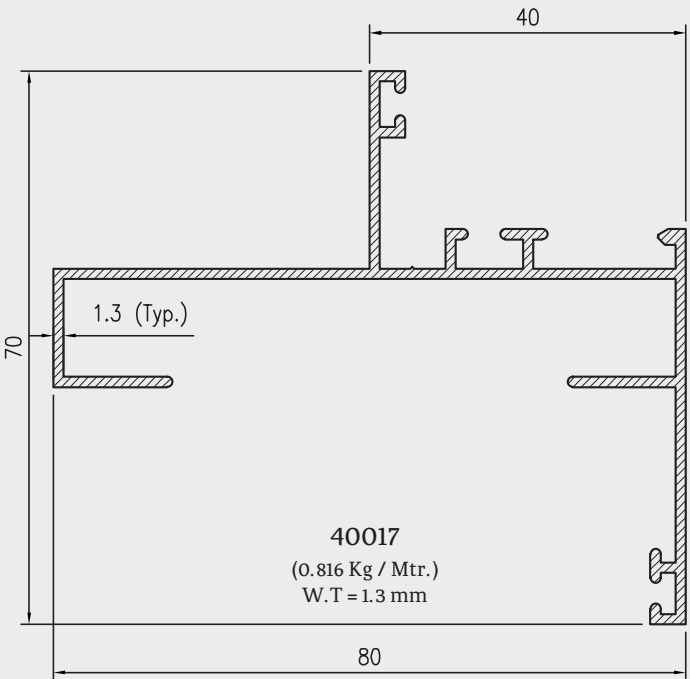
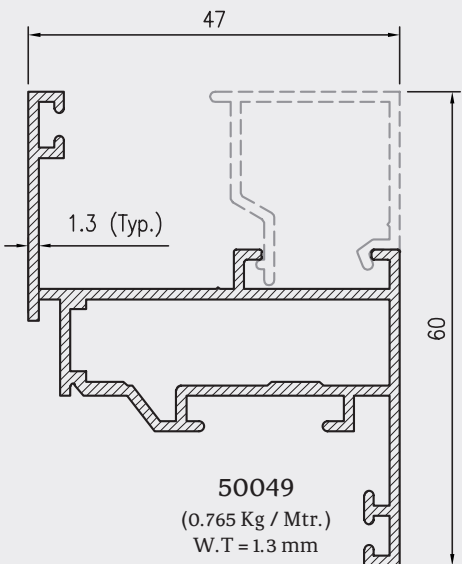
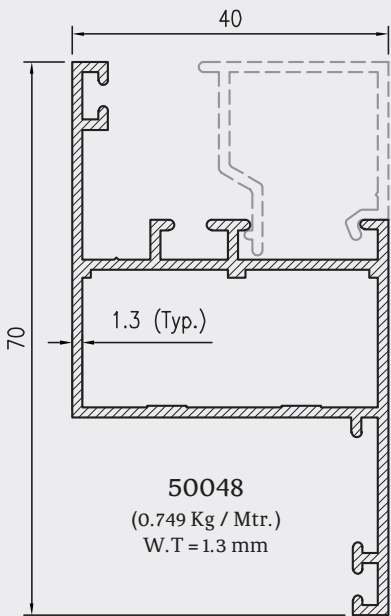
50065
(0.367 Kg / Mtr.)
W.T = 0.85 mm



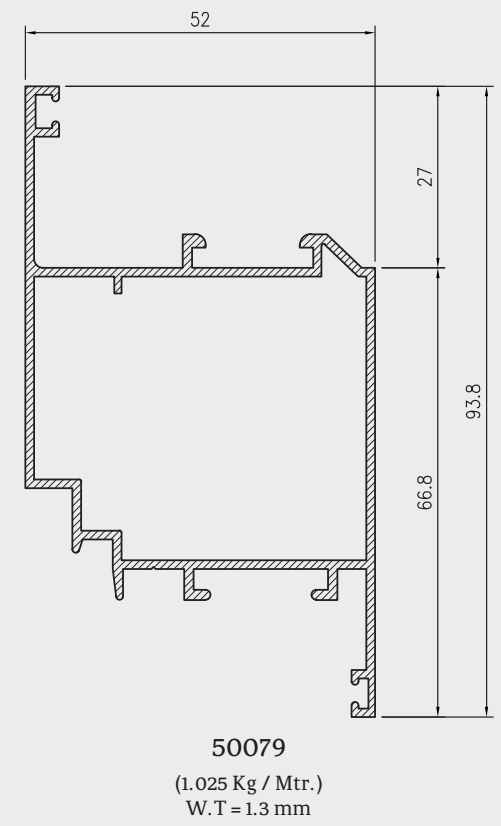
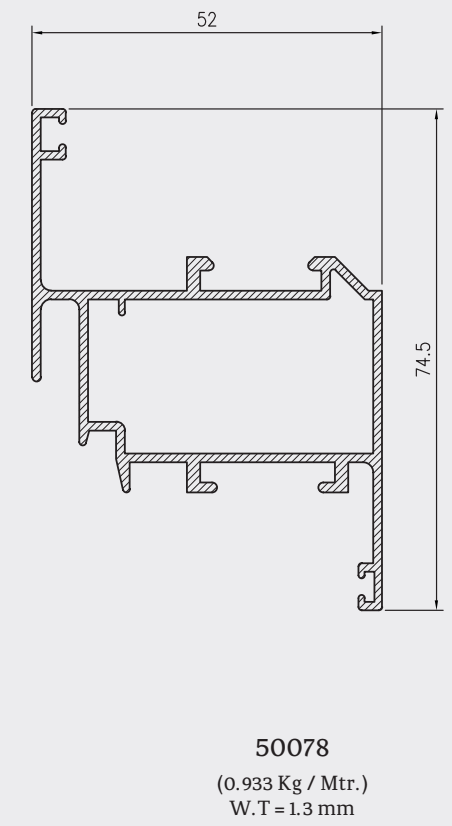
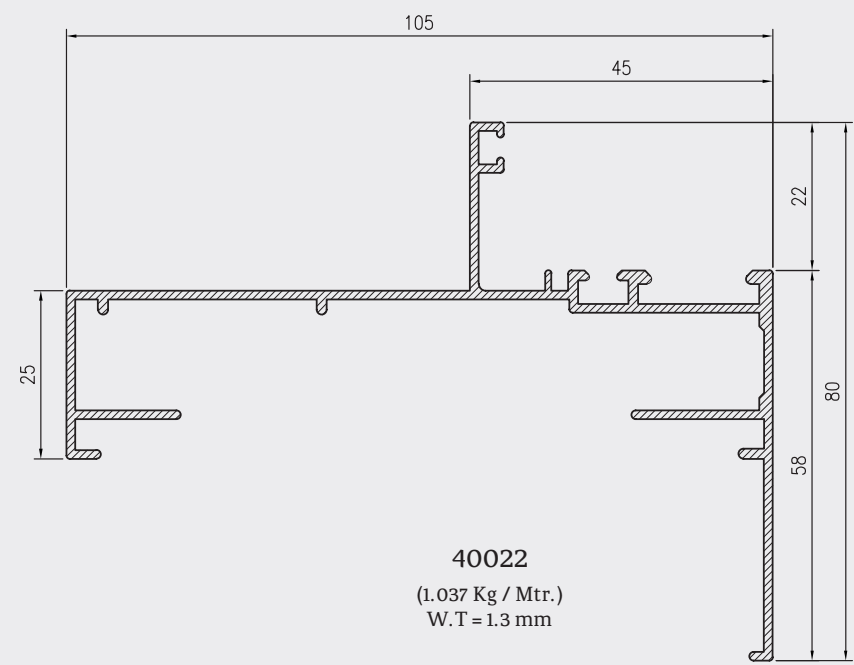
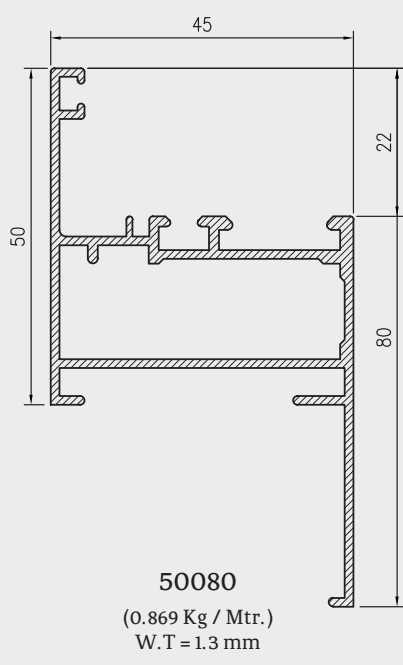
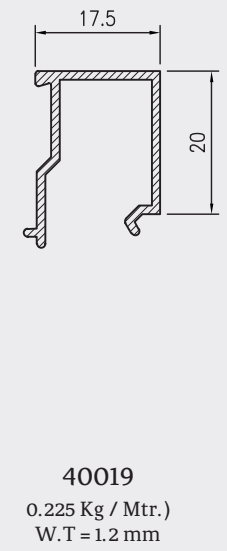
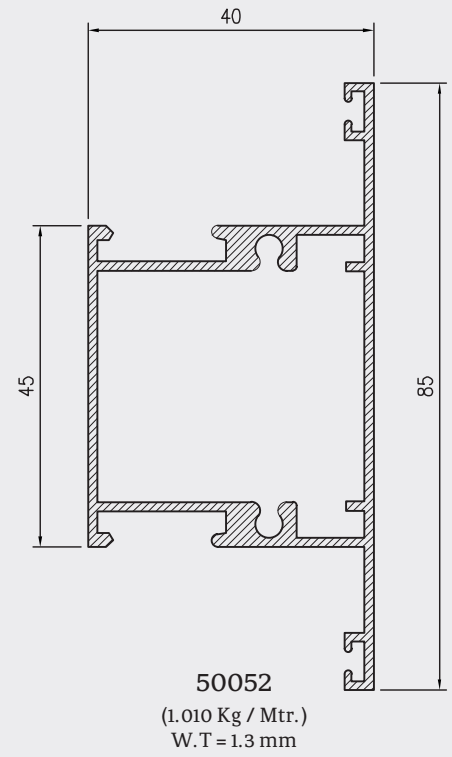
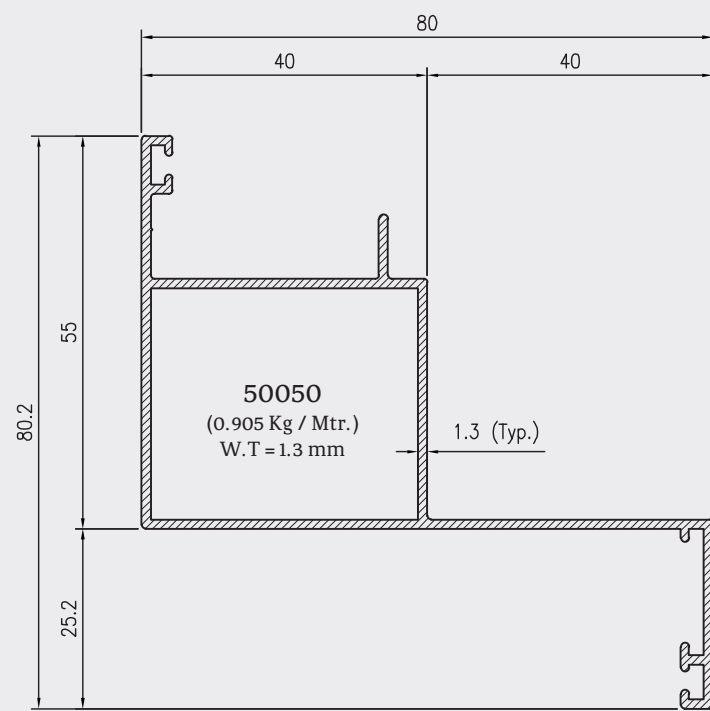
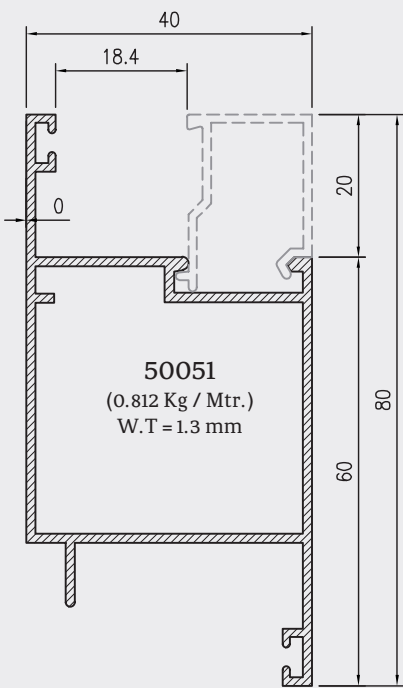
50023
(0.227 Kg / Mtr.)
W.T = 0.8 mm

SARAYA CASEMENT SERIES

Saraya Hinged Window 1.3mm Wall Thickness



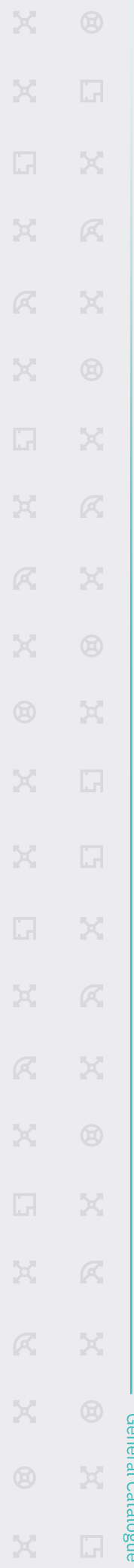
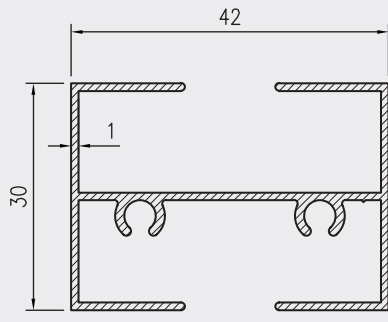
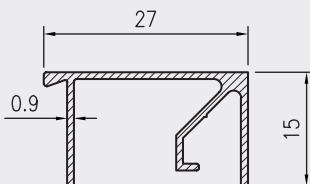
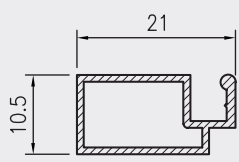
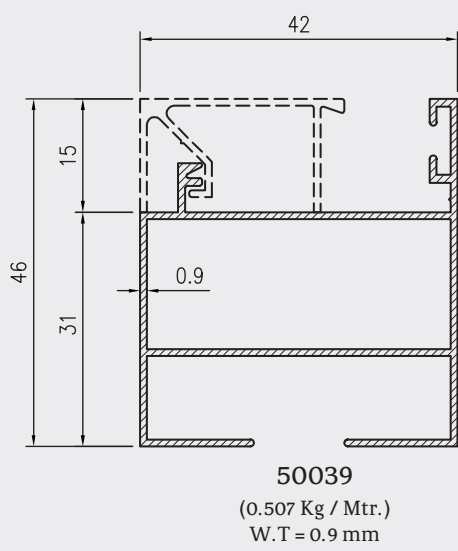
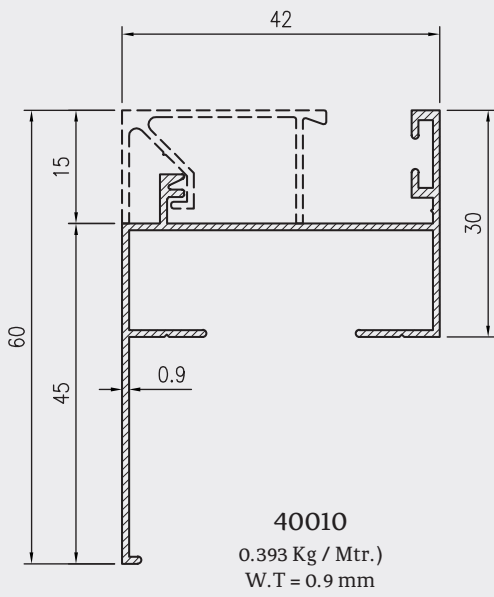
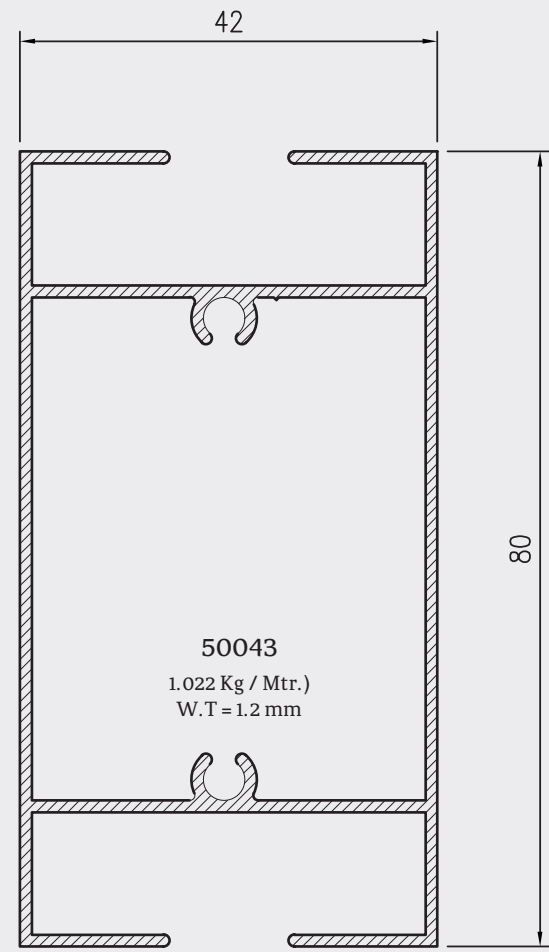
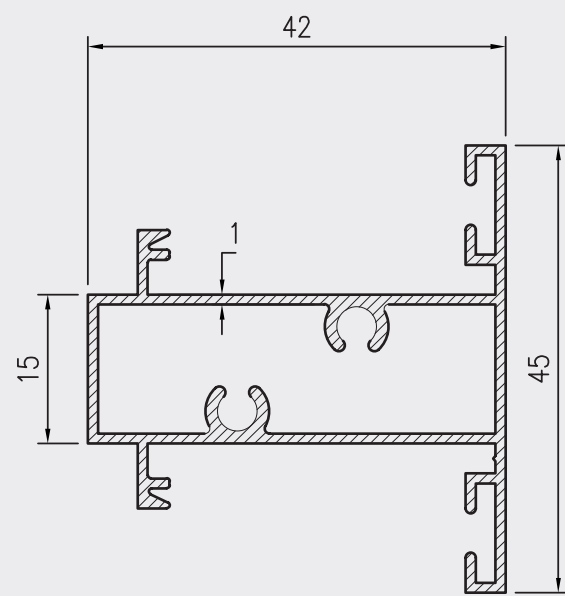
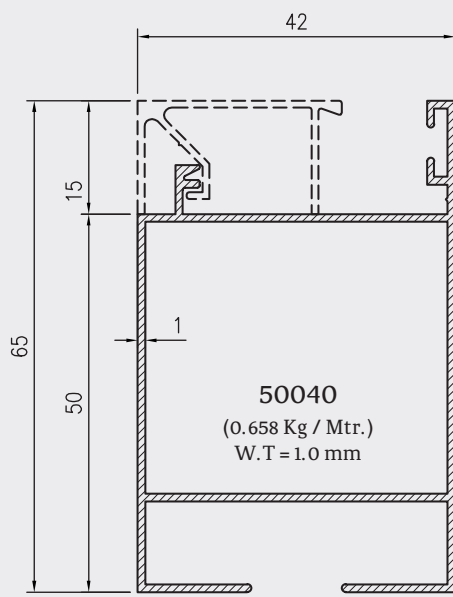
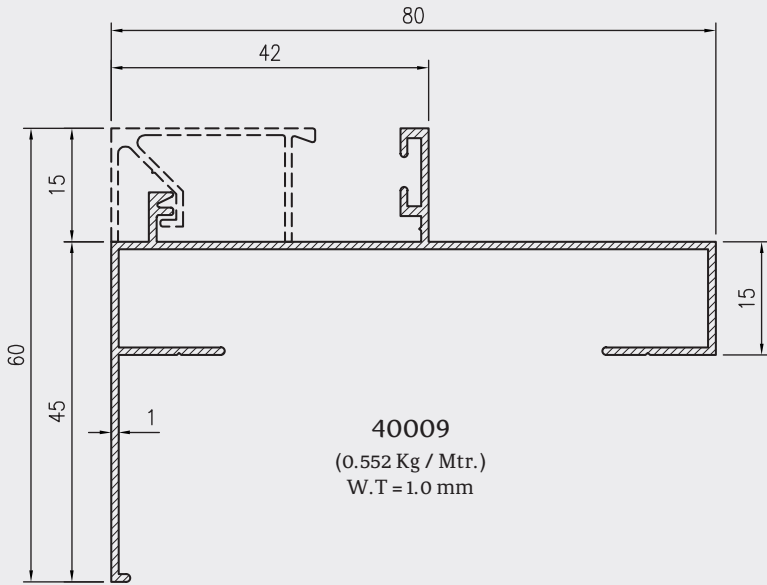
Saraya Hinged Door 1.3mm Wall Thickness



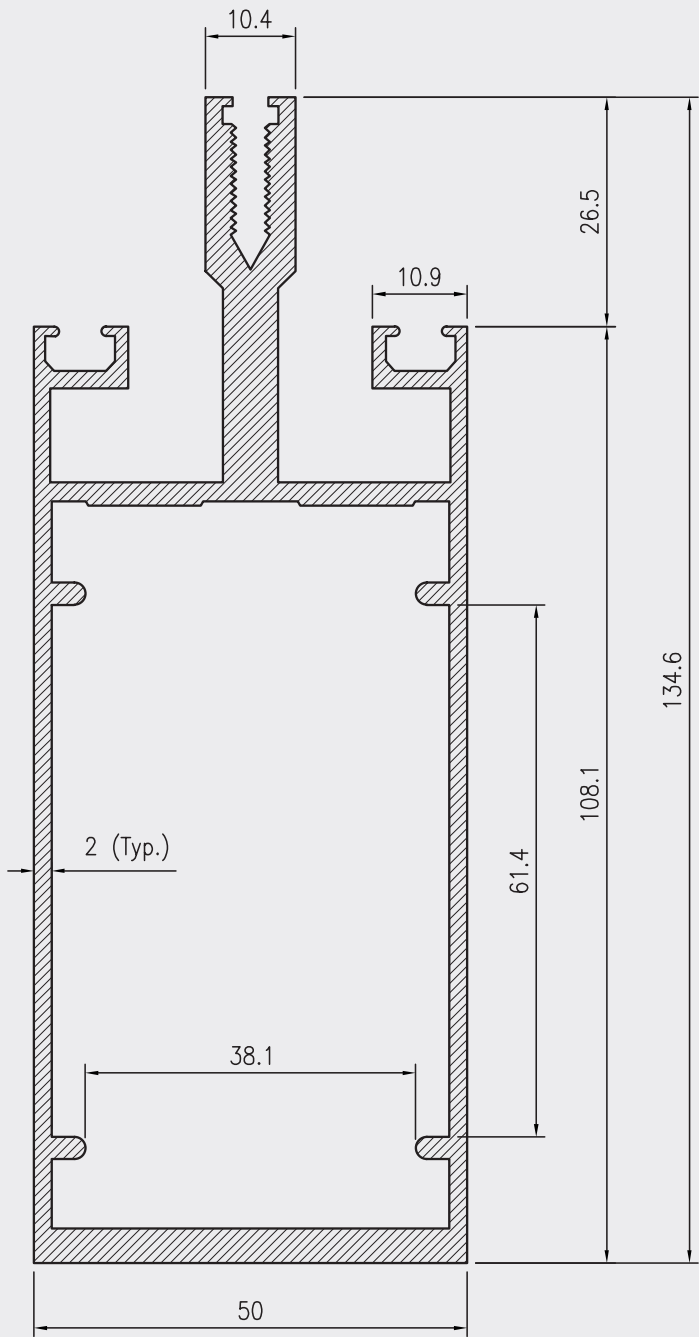
COMMERCIAL
CASEMENT 42MM SERIES(TIJARI)
0.9MM & 1.0MM THICKNESS



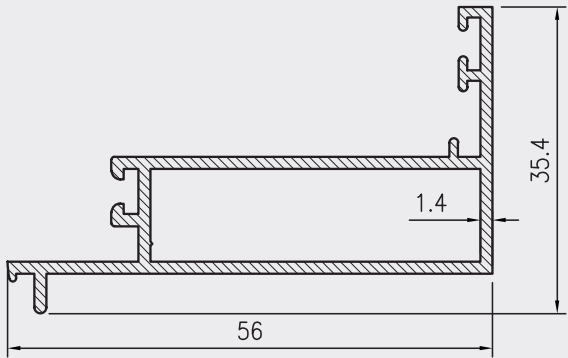
Commercial Hinged Windows & Doors



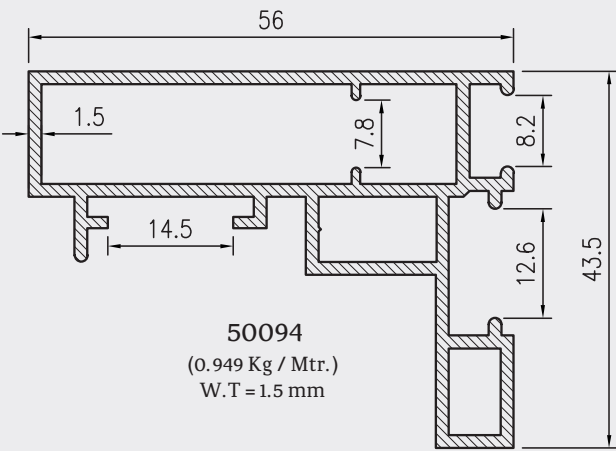
CURTAIN WALL



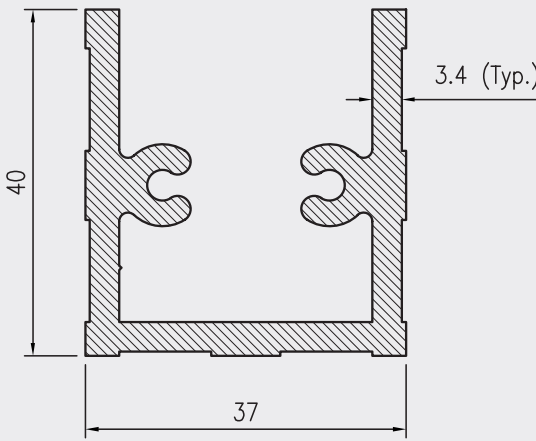
50092
(3.018 Kg / Mtr.)
W.T = 2.0 mm



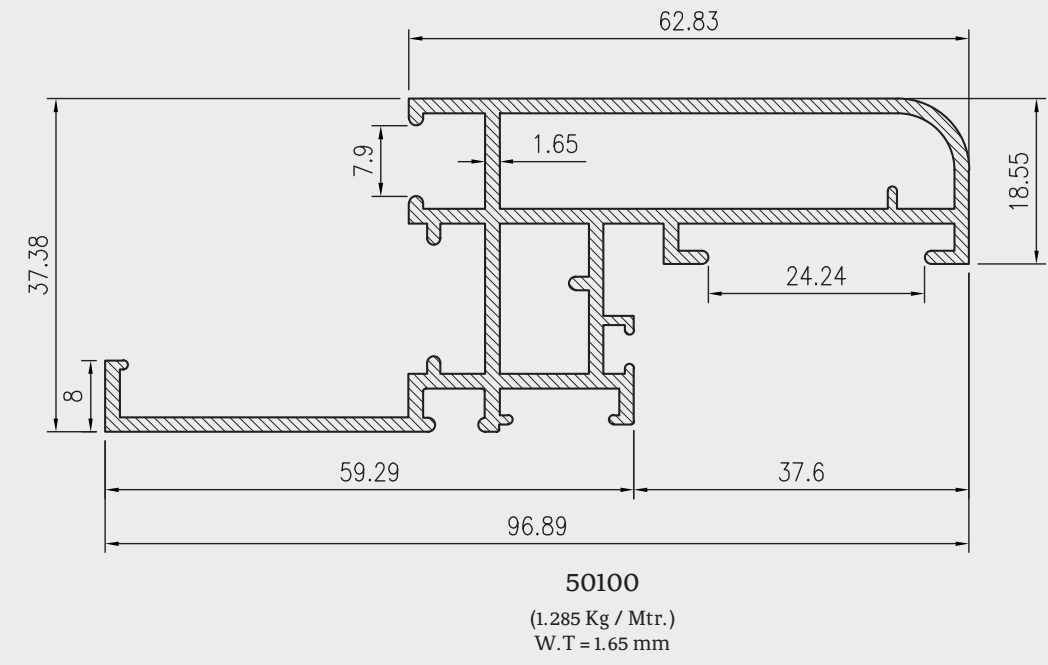
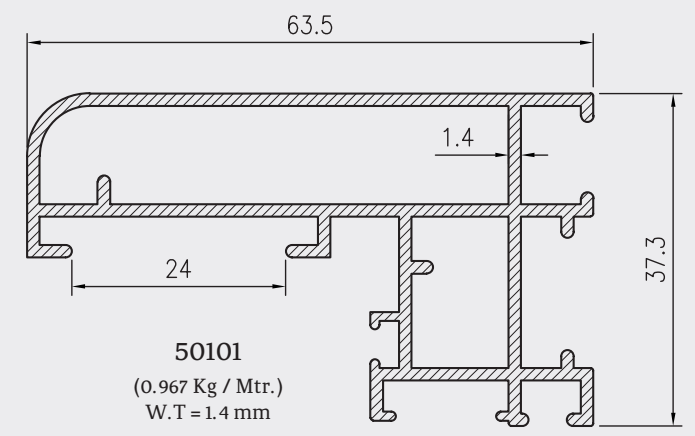
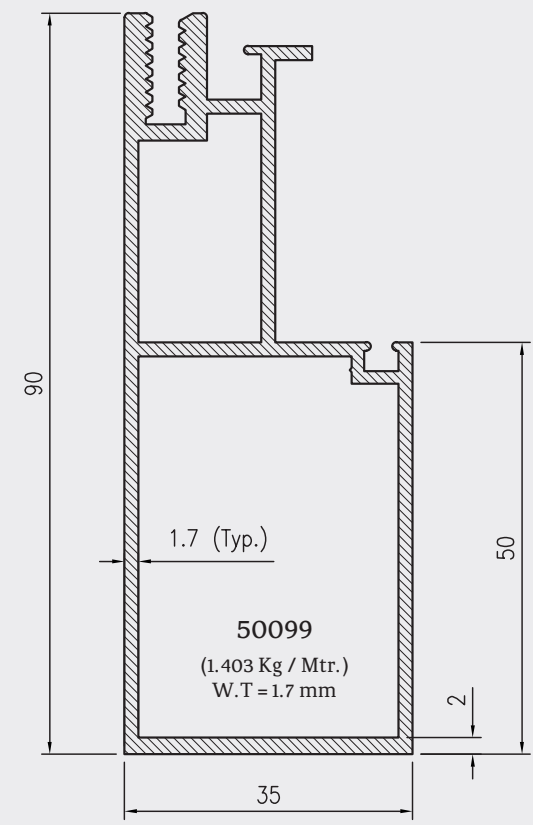
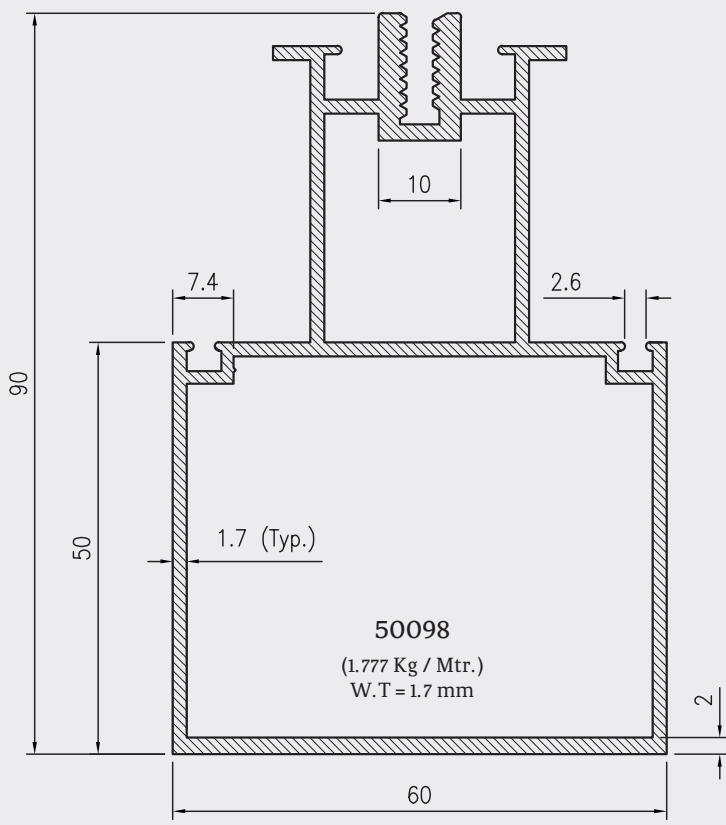
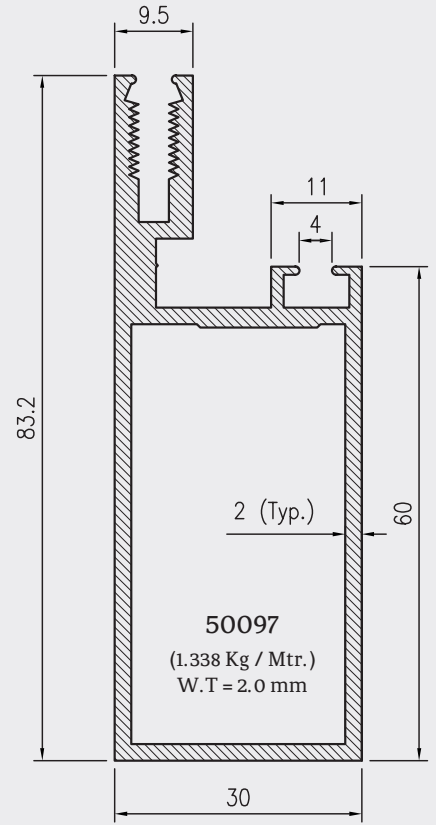
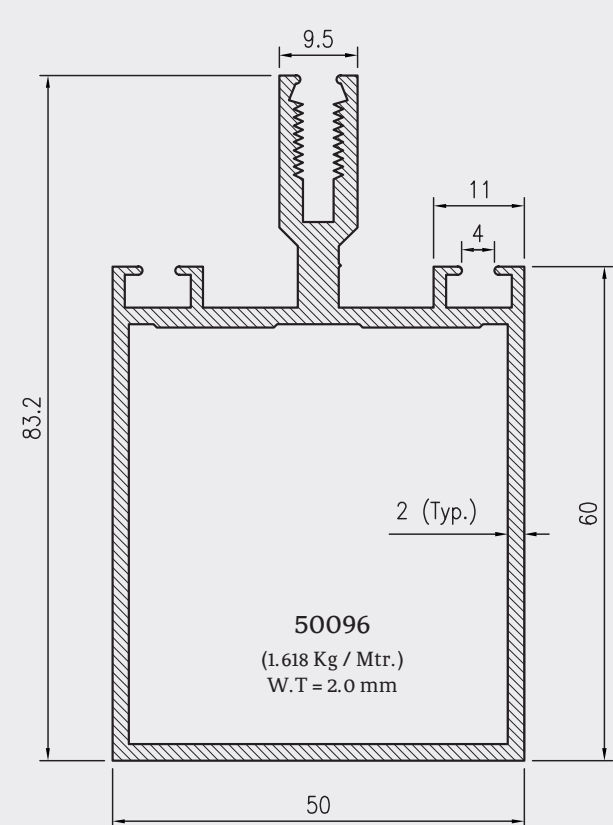
50095
(0.595 Kg / Mtr.)
W.T = 1.4 mm

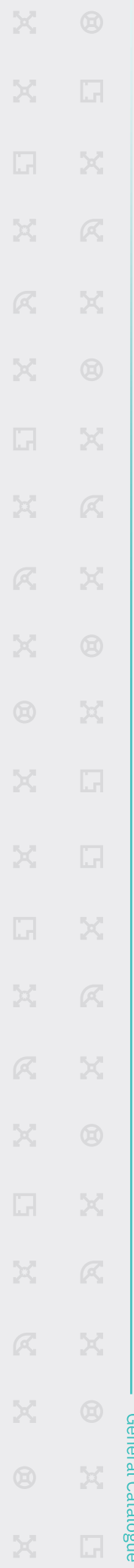
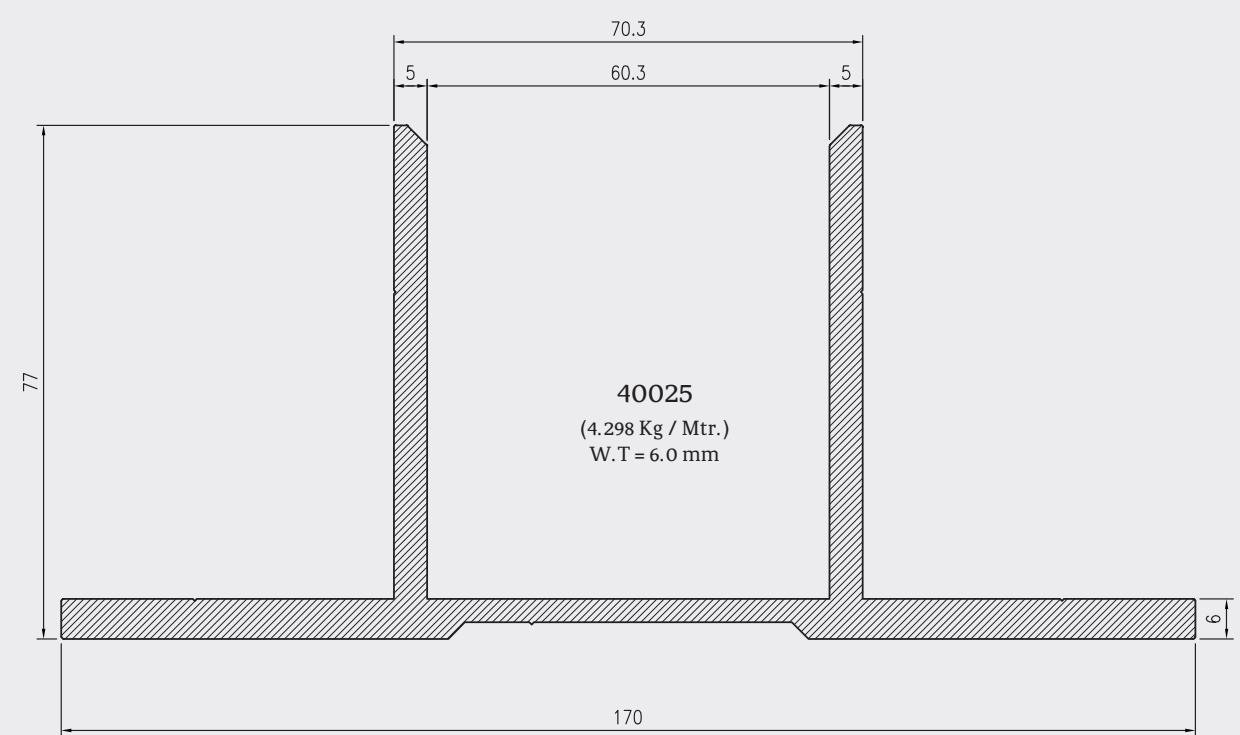
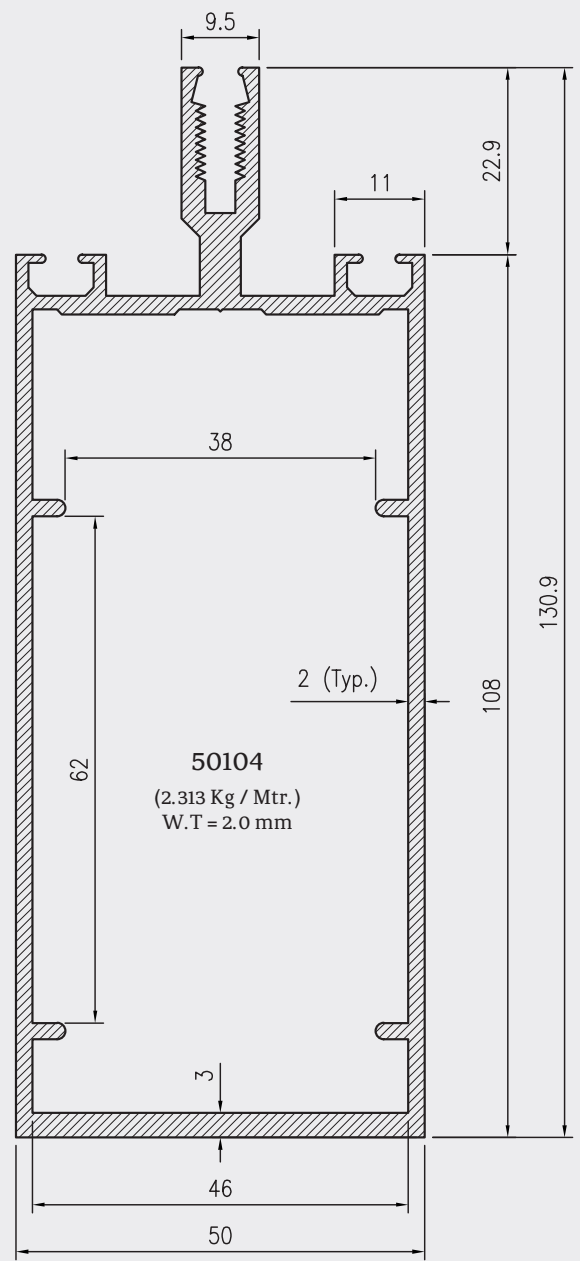
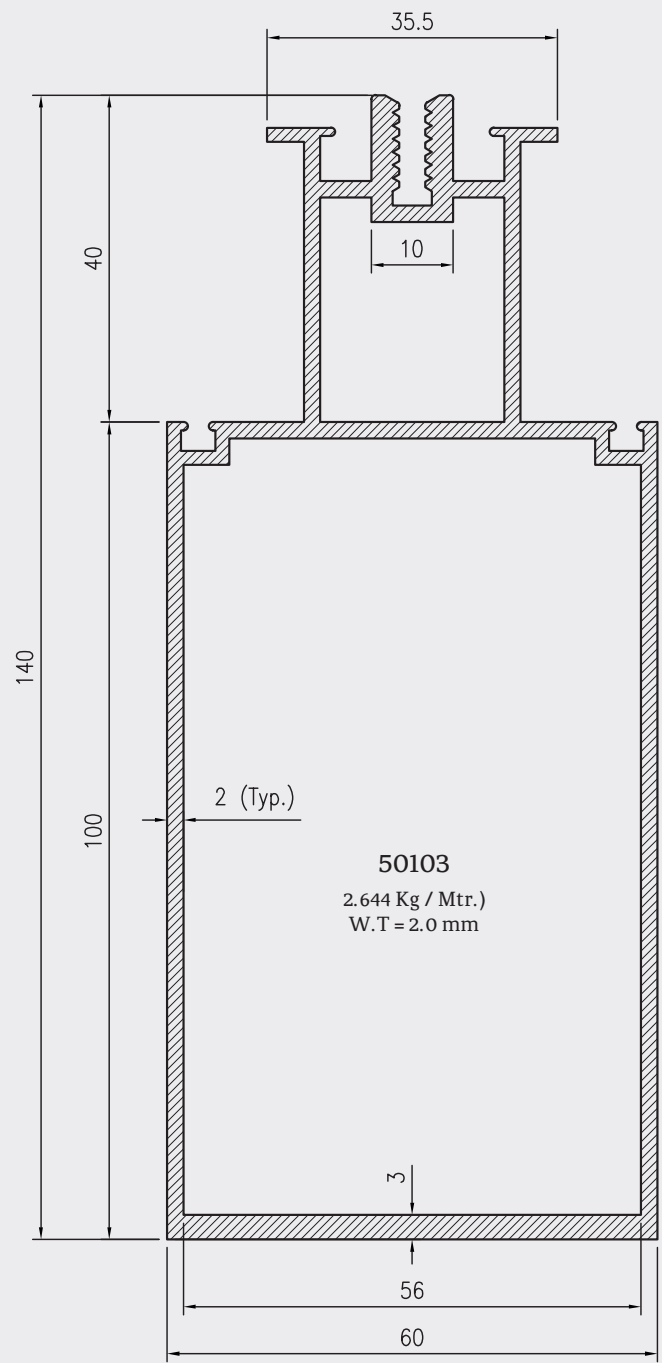


50094
(0.949 Kg / Mtr.)
W.T = 1.5 mm



40024
(1.344 Kg / Mtr.)
W.T = 3.4 mm

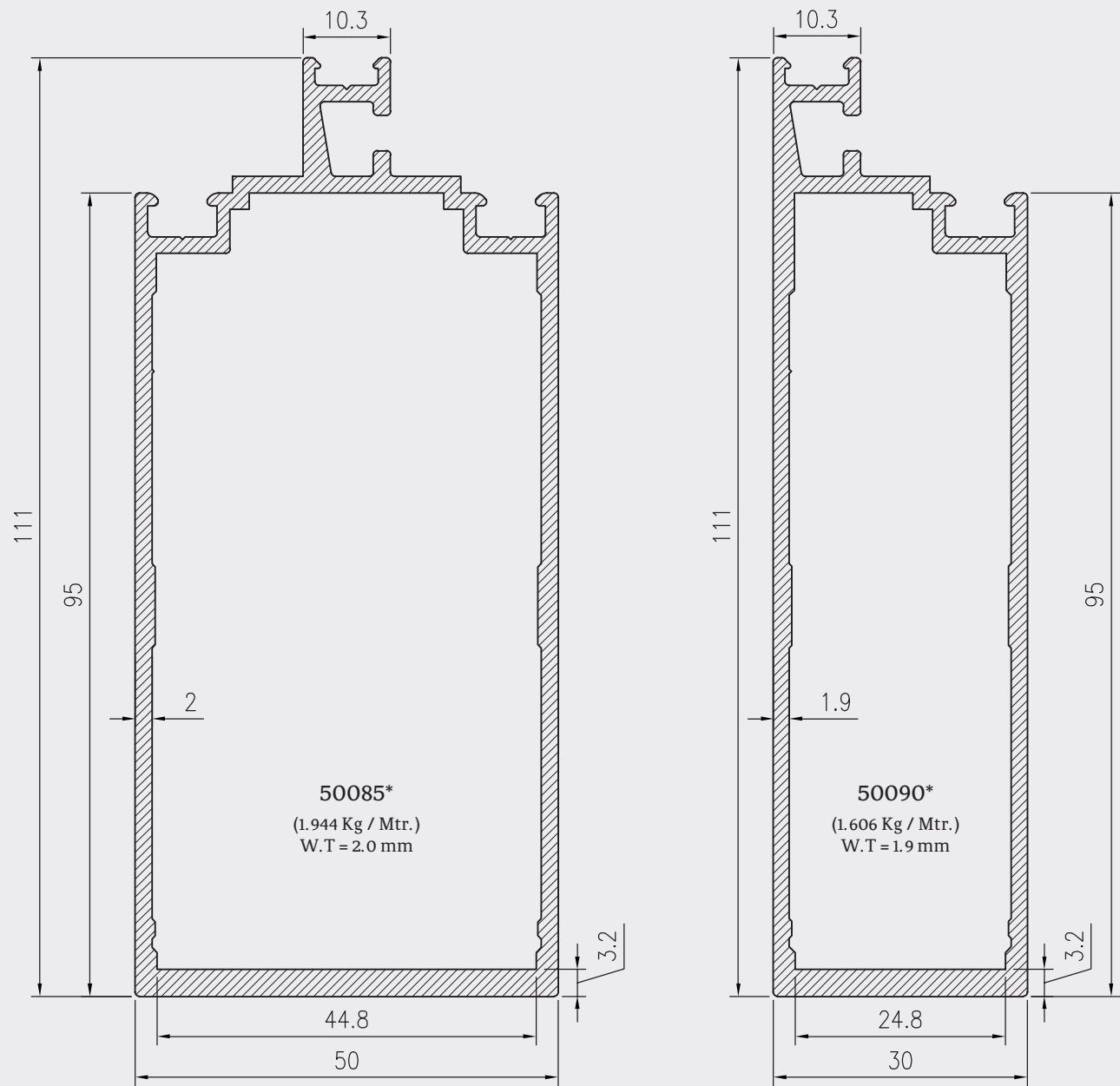
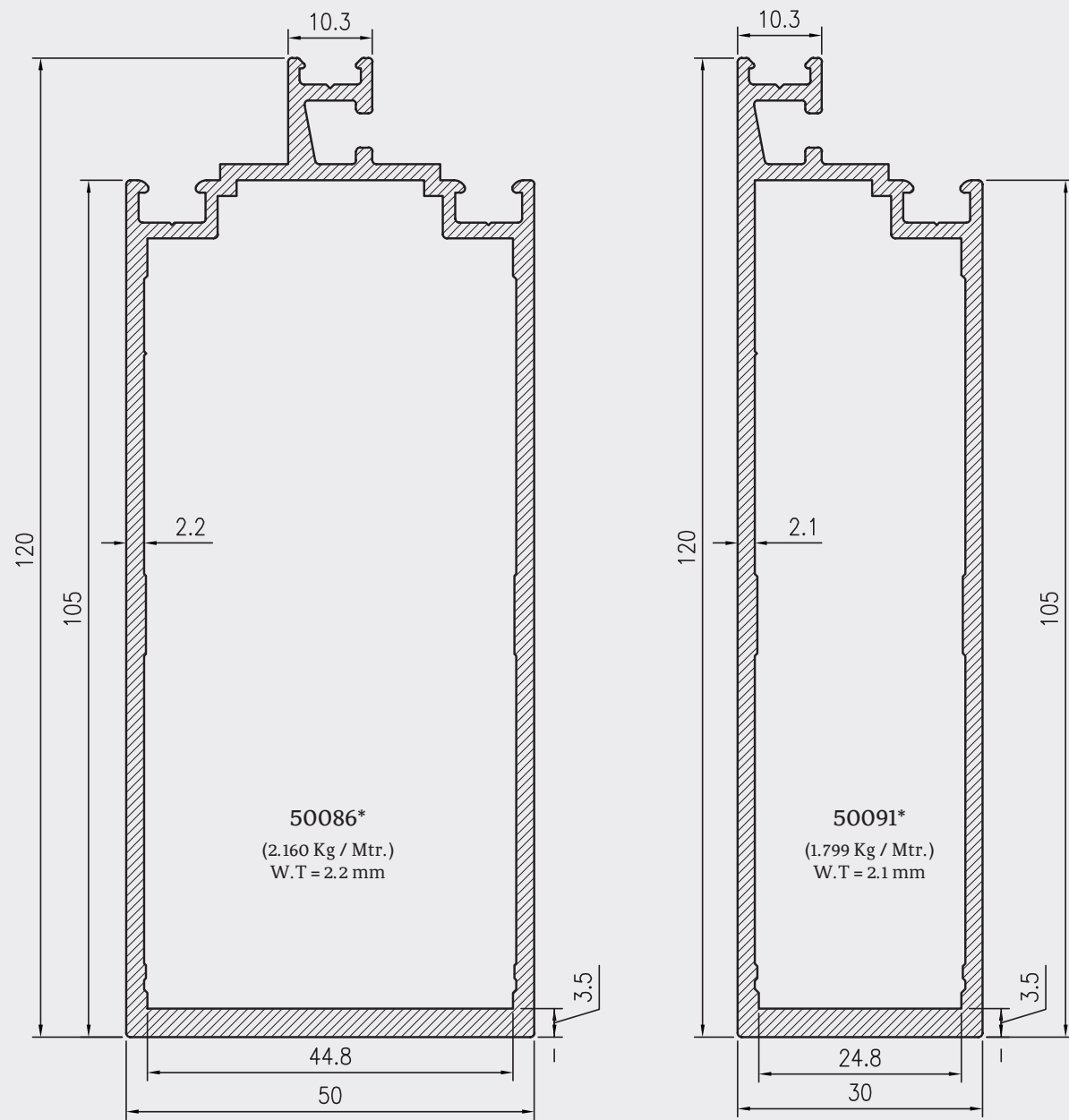


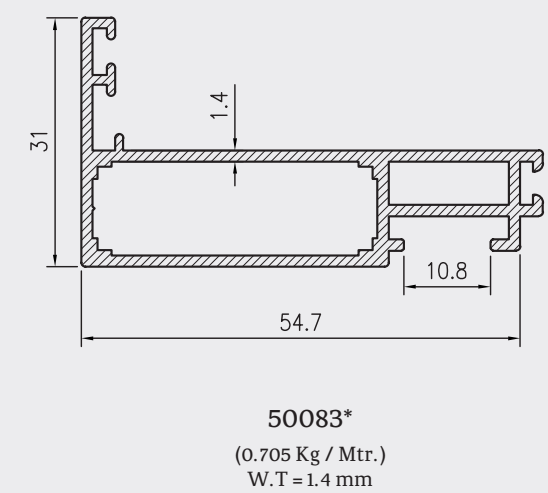
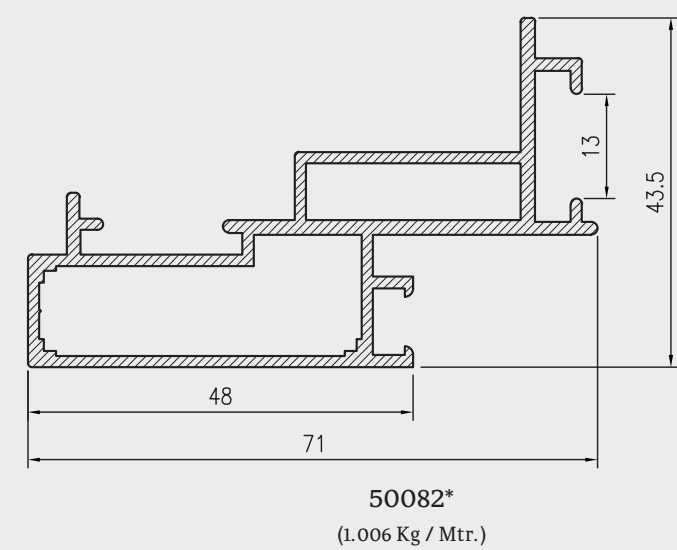
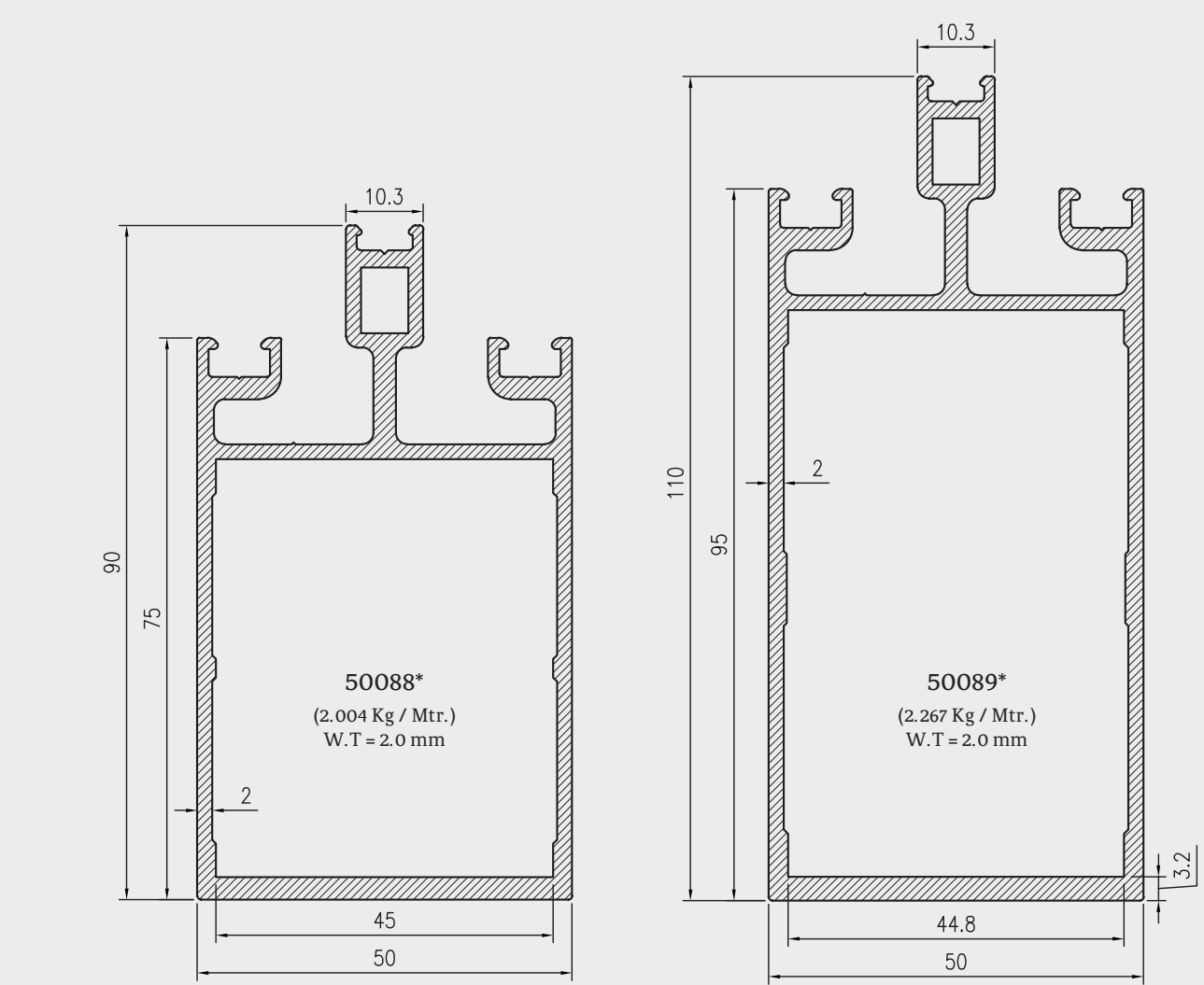
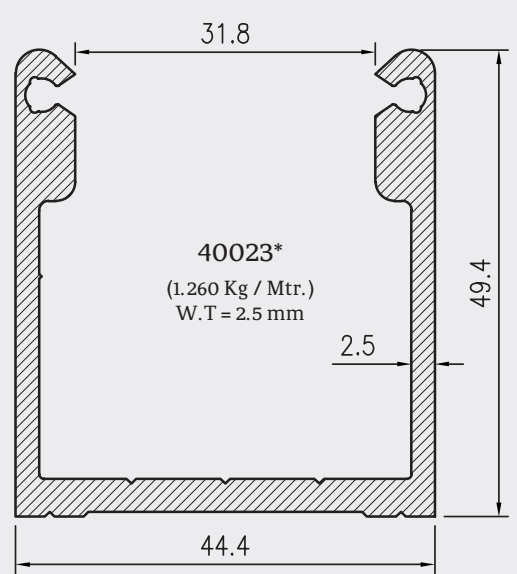
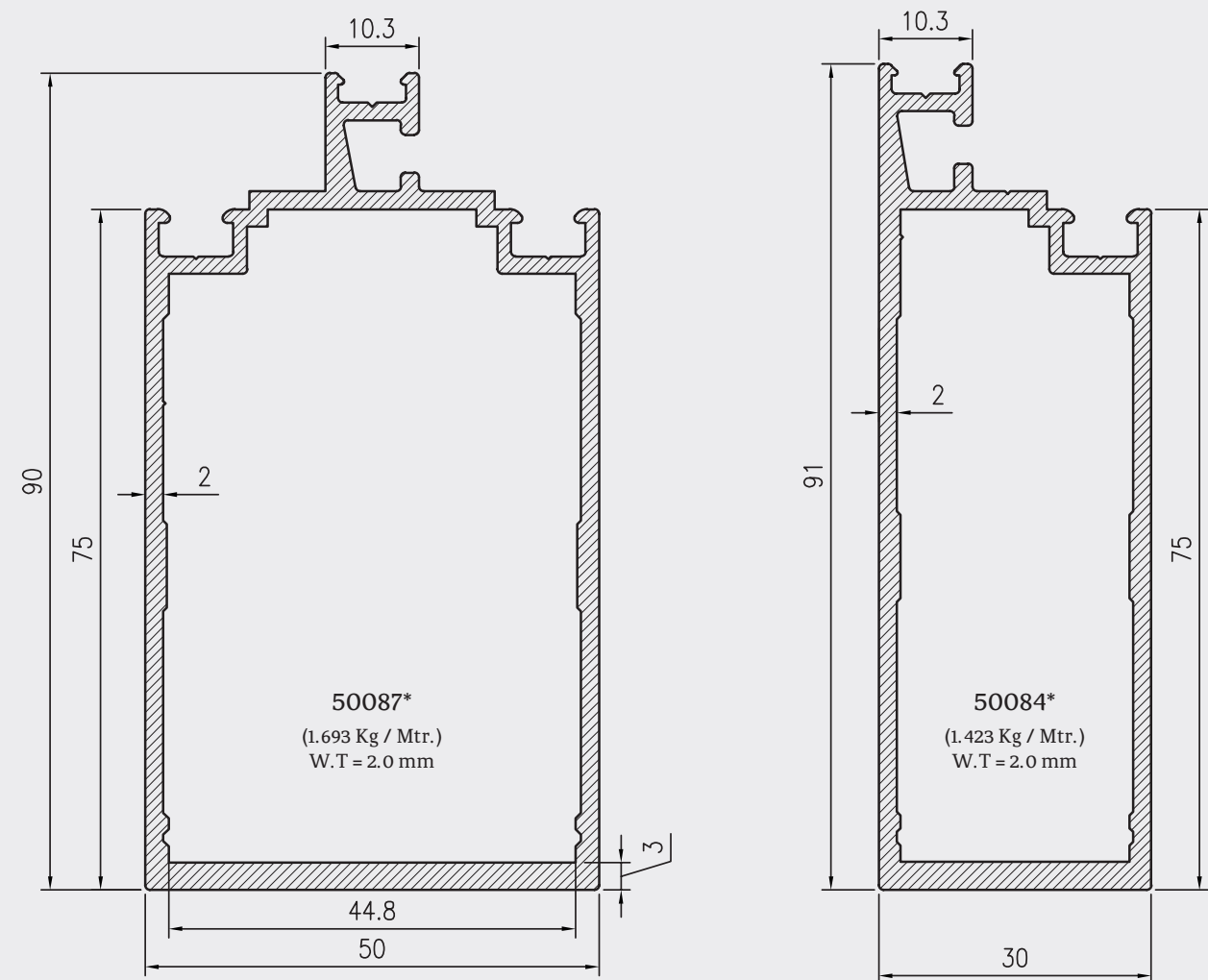


CURTAIN WALL
(SG50 Series)



Curtain Wall SG50 Series

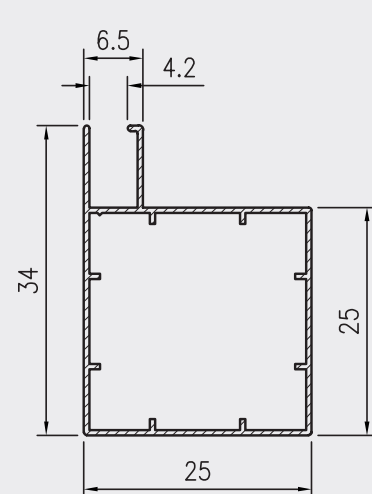




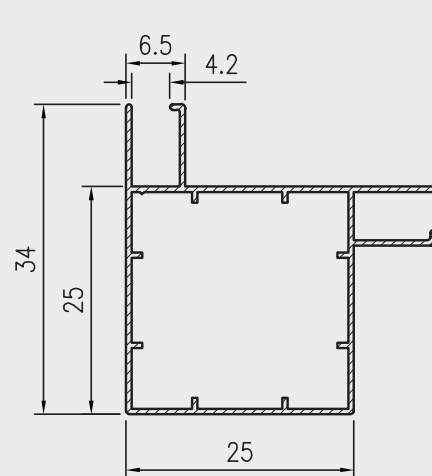
KITCHEN CABINETS(



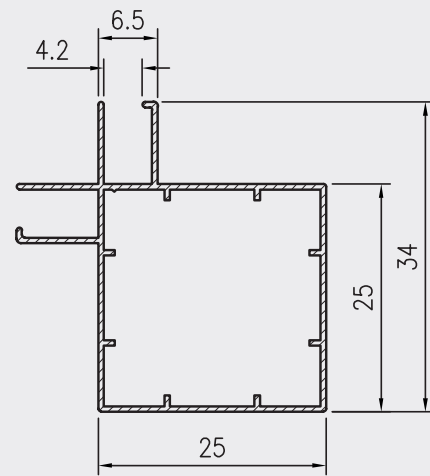
KITCHEN CABINETS



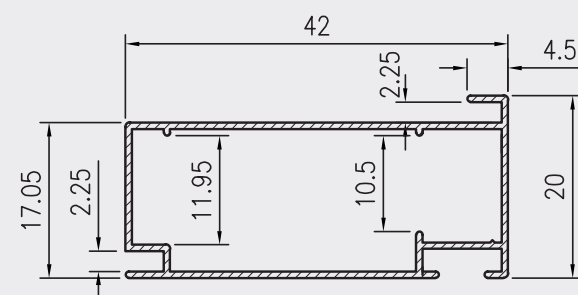
50015
(0.204 Kg / Mtr.)
W.T = 0.6 mm



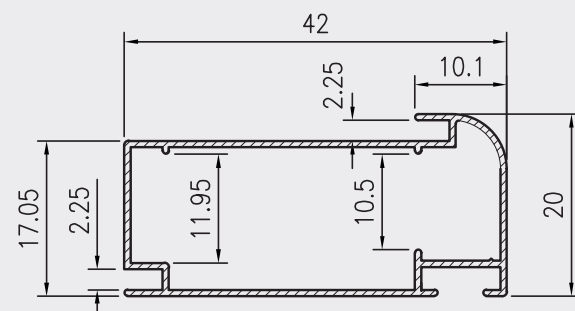
50016
(0.235 Kg / Mtr.)
W.T = 0.6 mm



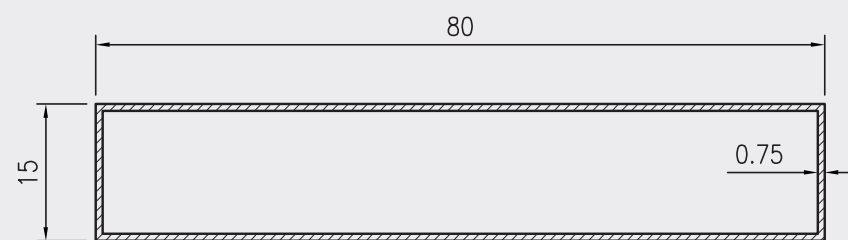
50017
(0.235 Kg / Mtr.)
W.T = 0.6 mm



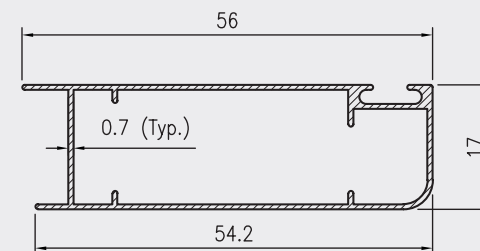
50018
(0.255 Kg / Mtr.)
W.T = 0.7 mm



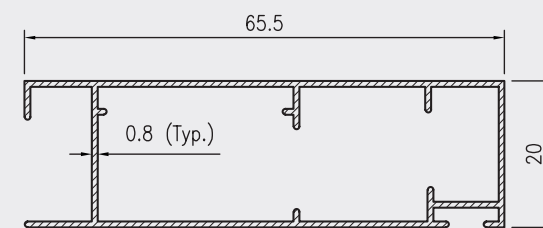
50019
(0.257 Kg / Mtr.)
W.T = 0.7 mm



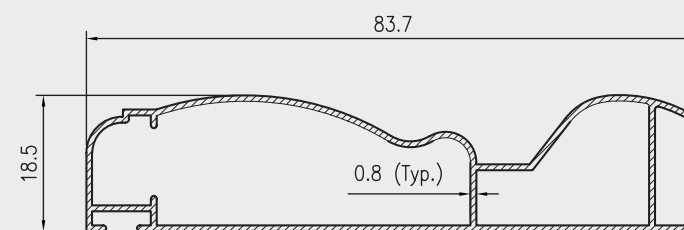
30303
(0.379 Kg / Mtr.)
W.T = 0.75 mm



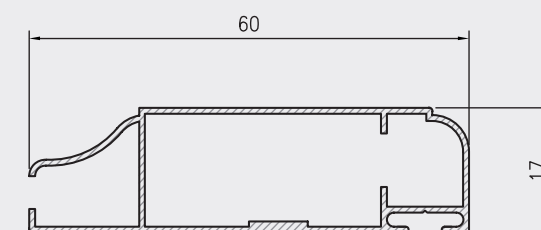
50054
(0.304 Kg / Mtr.)
W.T = 0.7 mm



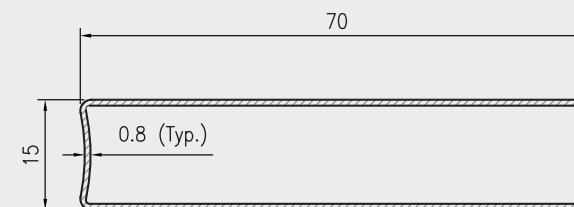
50059
(0.420 Kg / Mtr.)
W.T = 0.8 mm



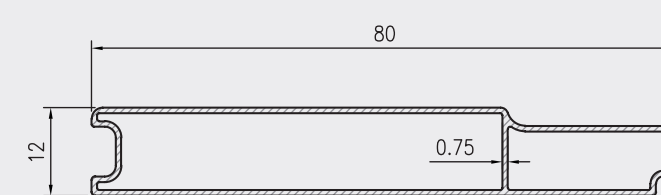
50060
(0.480 Kg / Mtr.)
W.T = 0.8 mm



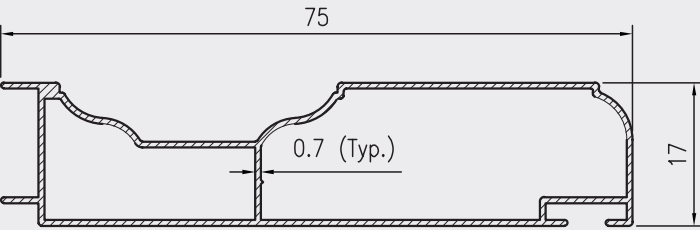
50058
(0.379 Kg / Mtr.)
W.T = 0.8 mm



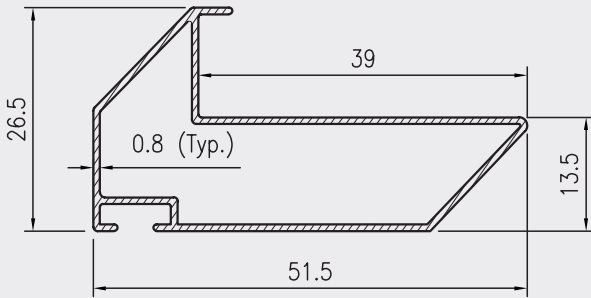
30319
(0.353 Kg / Mtr.)
W.T = 0.8 mm



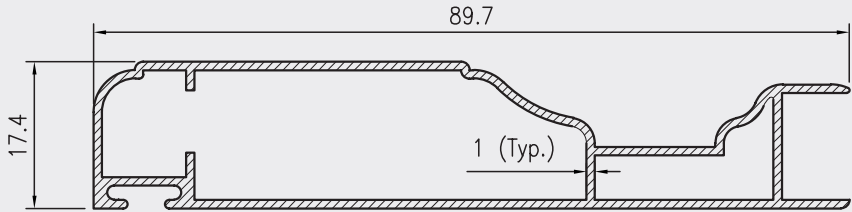
50061
(0.389 Kg / Mtr.)
W.T = 0.75 mm



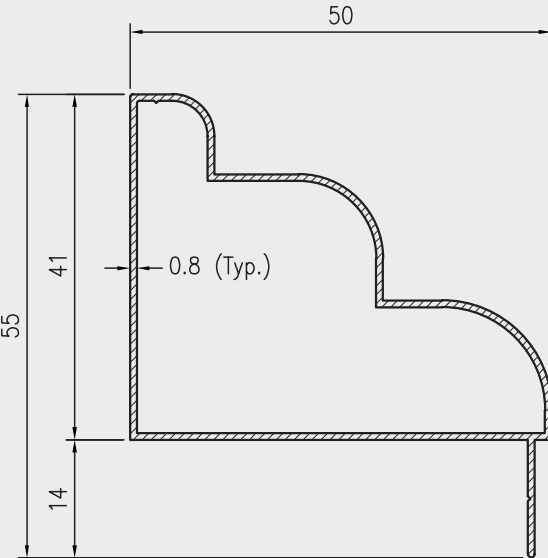
50093
(0.384 Kg / Mtr.)
W.T = 0.7 mm



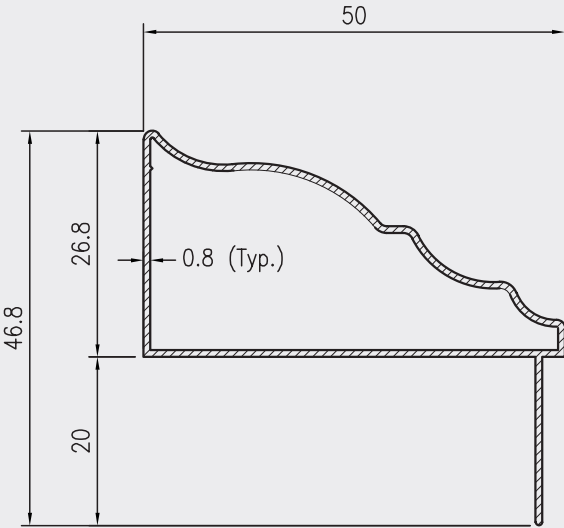
50055
(0.324 Kg / Mtr.)
W.T = 0.8 mm



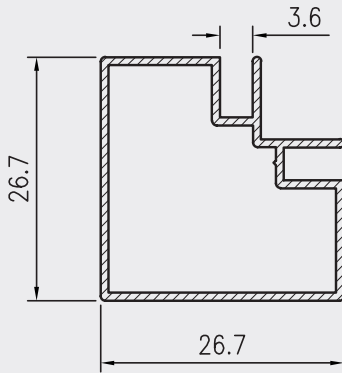
50056
(0.633 Kg / Mtr.)
W.T = 1.0 mm



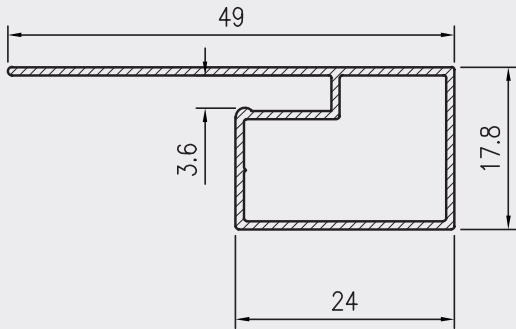
50057
(0.391 Kg / Mtr.)
W.T = 0.8 mm



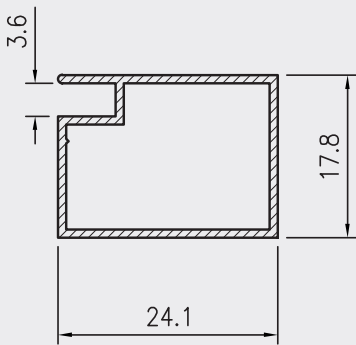
50081
(0.336 Kg / Mtr.)
W.T = 0.8 mm



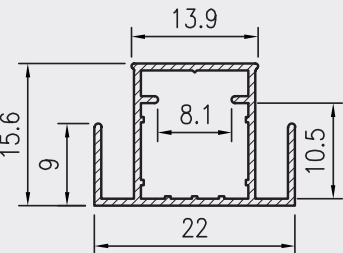
50108
(0.274 Kg / Mtr.)
W.T = 0.9 mm



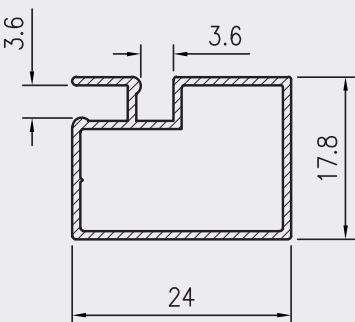
50106
(0.281 Kg / Mtr.)
W.T = 0.9 mm



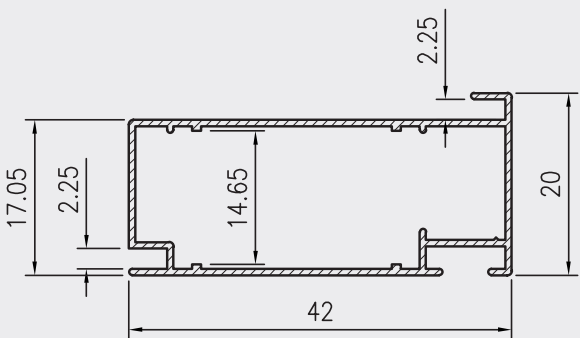
50107
(0.210 Kg / Mtr.)
W.T = 0.9 mm



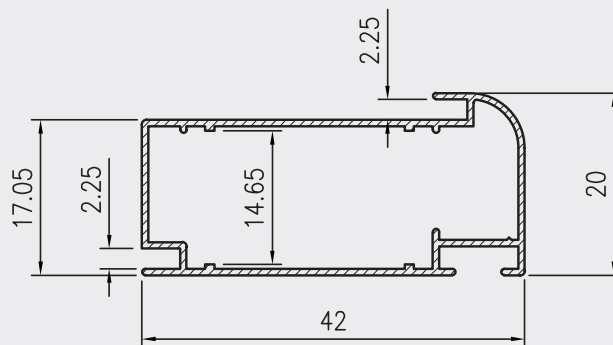
50109
(0.173 Kg / Mtr.)
W.T = 0.75 mm



50105
(0.223 Kg / Mtr.)
W.T = 0.9 mm



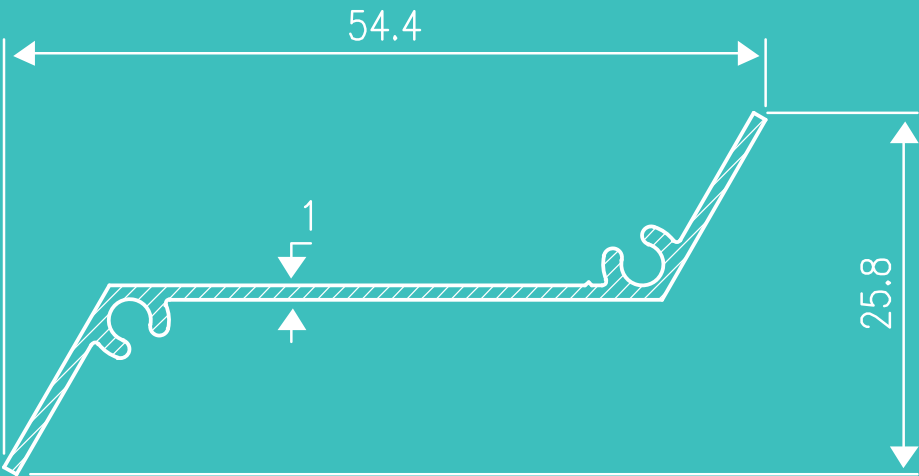
50055
(0.255 Kg / Mtr.)
W.T = 0.7 mm



50116
(0.257 Kg / Mtr.)
W.T = 0.7 mm

STANDARD
LOUVERS

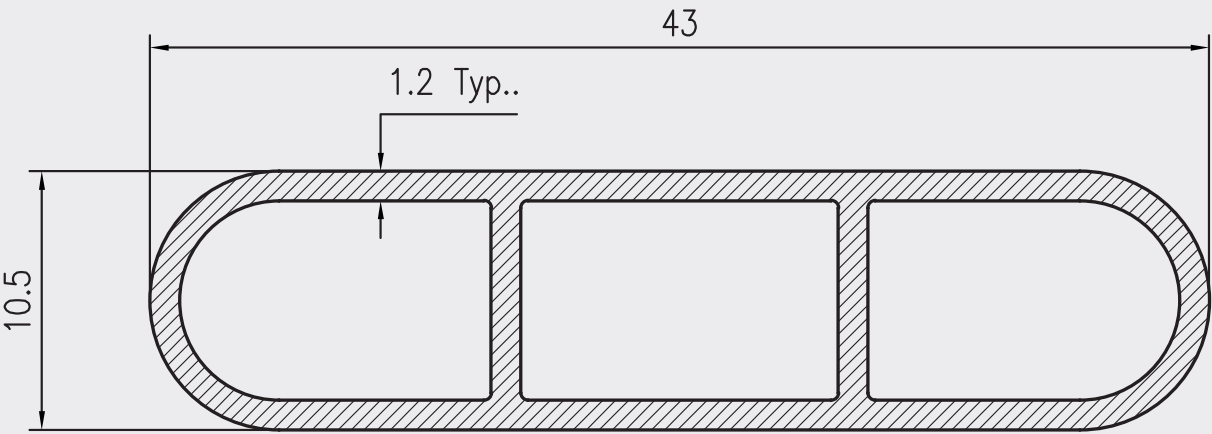
STANDARD LOUVERS



40013
(0.223 Kg / Mtr.)
W.T = 1.0 mm

GENERAL PROFILES
BASKET SPACER

BASKETS SPACER



50001

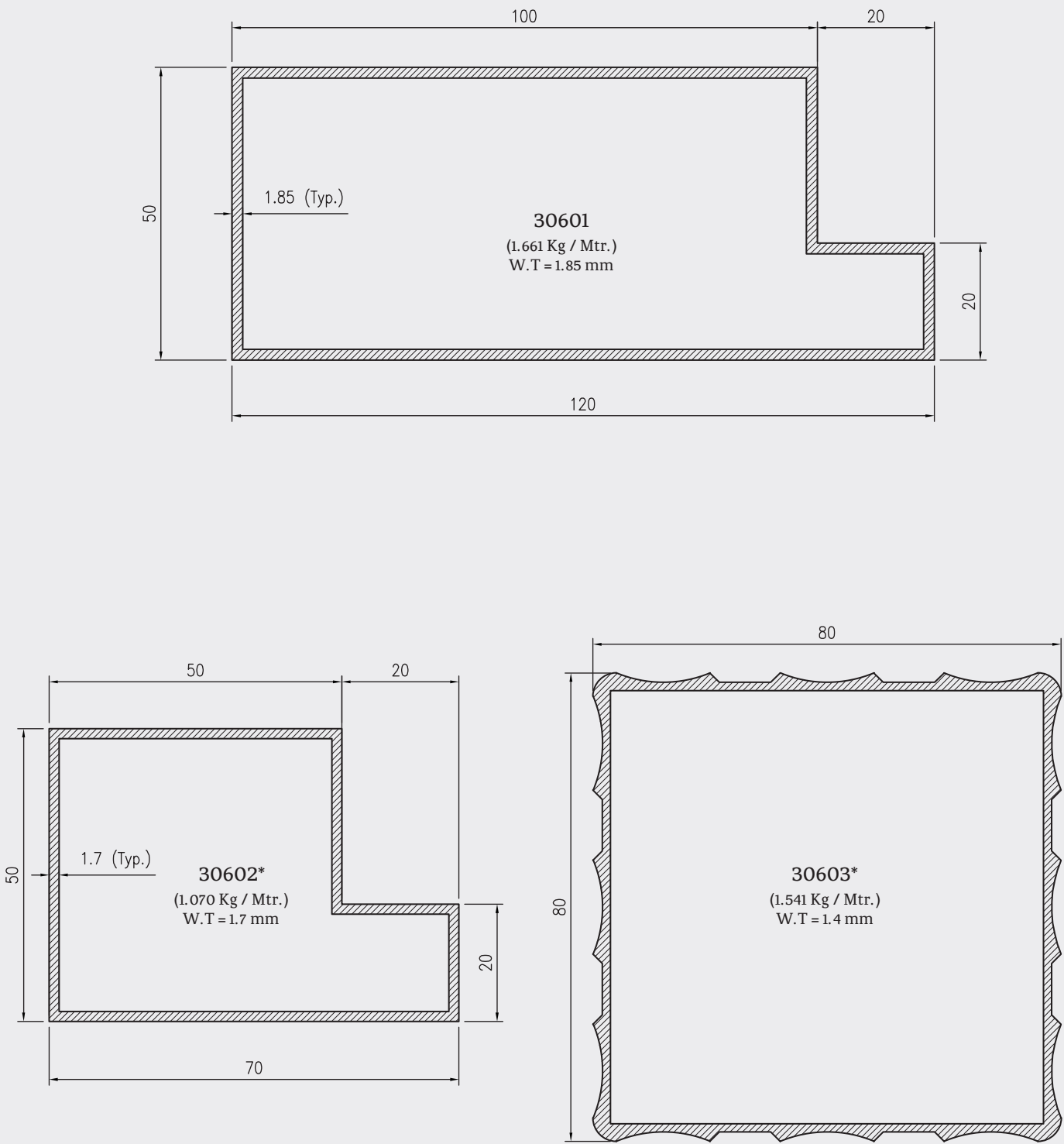
(0.358 Kg / Mtr.)

W.T = 1.2 mm



SPECIAL TUBES

SPECIAL TUBES

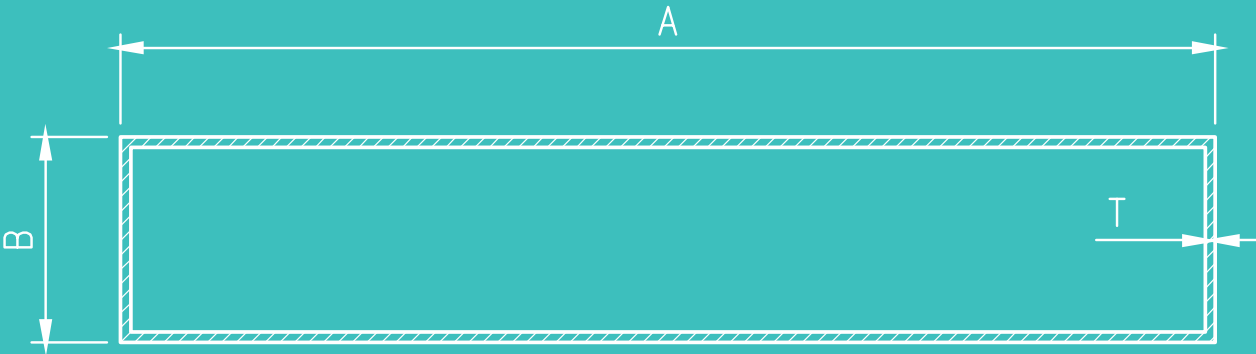


* = SUBJECT TO ENQUIRY
NOTE : NEW SECTIONS ARE ADDED DAY BY DAY. PLEASE CHECK & CONFIRM AVAILABILITY FOR SECTIONS OTHER THAN GIVEN ABOVE

STANDARD RECTANGULAR TUBES



STANDARD RECTANGULAR TUBE

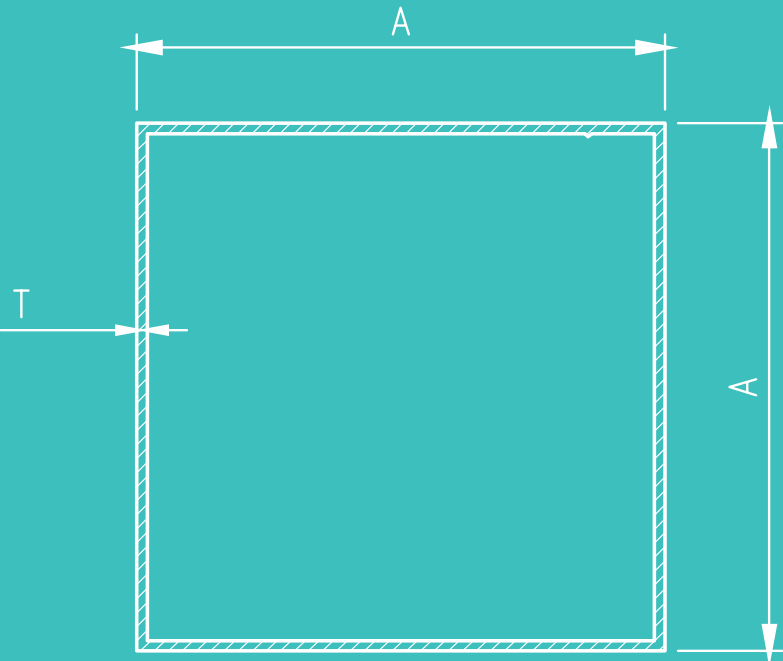


SL.NO	PROFILE NO.	A (mm)	B (mm)	T (mm)	Kg/mtr.
1	30305	220.0	50.0	1.9	2.873
2	30306	200.0	50.0	1.9	2.657
3	30301	100.0	40.0	2.0	1.469
4	30320	80.0	40.0	0.9	0.574
5	30303	80.0	15.0	0.75	0.379
6	30304	78.0	38.0	0.90	0.555

NOTE : NEW SECTIONS ARE ADDED DAY BY DAY. PLEASE CHECK & CONFIRM AVAILABILITY FOR SECTIONS OTHER THAN GIVEN ABOVE

STANDARD SQUARE TUBES

STANDARD SQUARE TUBES



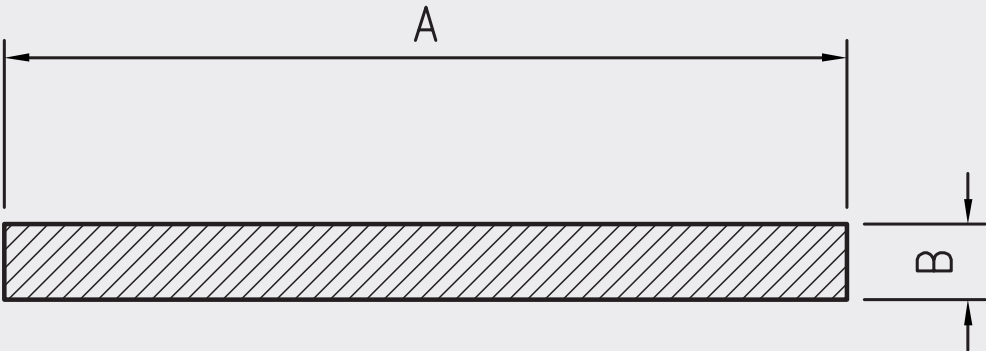
SL.NO	PROFILE NO.	A (mm)	T (mm)	Kg/mtr.
1	30003	50.0	1.8	0.937
2	30004	40.0	1.8	0.743
3	30001	40.0	0.8	0.339
4	30002	20.0	1.3	0.263



NOTE : NEW SECTIONS ARE ADDED DAY BY DAY. PLEASE CHECK & CONFIRM AVAILABILITY FOR SECTIONS OTHER THAN GIVEN ABOVE

STANDARD FLAT BAR

STANDARD FLAT

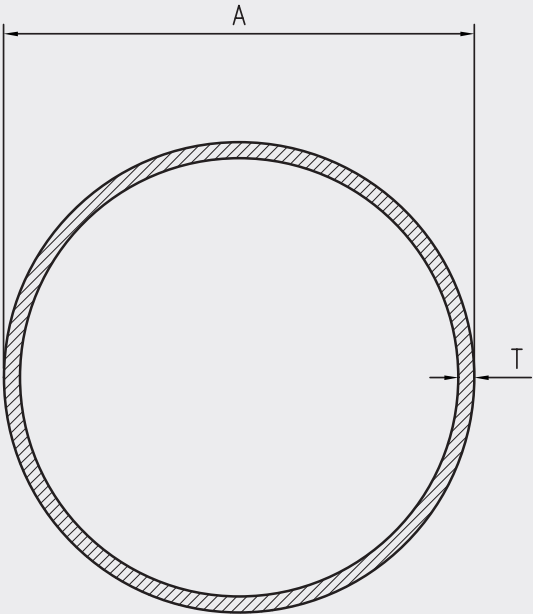


SL.NO	PROFILE NO.	A (mm)	B (mm)	Kg/mtr.
1	10301	150.0	6.0	2.430
2	10309	40.0	4.0	0.432
3	10302	25.0	3.0	0.203
4	10311	20.0	4.0	0.216
5	10303	20.0	3.0	0.162
6	10310	20.0	2.0	0.108

NOTE : NEW SECTIONS ARE ADDED DAY BY DAY. PLEASE CHECK & CONFIRM AVAILABILITY FOR SECTIONS OTHER THAN GIVEN ABOVE

STANDARD ROUND TUBES

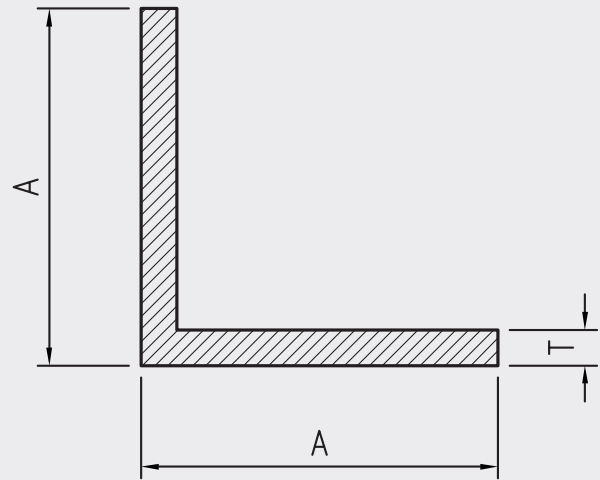
ROUND TUBES



SL.NO	PROFILE NO.	A (mm)	B (mm)	Kg/mtr.
1	20003	88	2.5	1.813
2	20002	60.0	2.5	1.219
2	20001	50.0	1.7	0.696

NOTE : NEW SECTIONS ARE ADDED DAY BY DAY. PLEASE CHECK & CONFIRM AVAILABILITY FOR SECTIONS OTHER THAN GIVEN ABOVE

STANDARD EQUAL ANGLES



SL.NO	PROFILE NO.	A (mm)	T (mm)	Kg/mtr.
1	10701	40.0	4.0	0.821
2	10702	40.0	3.0	0.624
3	10703	30.0	3.0	0.462
4	10704	30.0	2.5	0.388

NOTE : NEW SECTIONS ARE ADDED DAY BY DAY. PLEASE CHECK & CONFIRM AVAILABILITY FOR SECTIONS OTHER THAN GIVEN ABOVE

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