



ALUMINIUM EXTRUSION



ABOUT US

Excellence Engimac Private Limited

Excellence Engimac Private Limited has established one of the most modern Aluminium extrusion line in Bhubaneswar, Odisha. This will guarantee clients the desired flexibility and constantly high quality and complex profiles and tubes. Precise high-performance sawing machines and the latest CNC aided machining centers will allow economic processing of semi-finished products. The most varied surface treatment methods preserve the value of the lightweight elements or give them an attractive and appealing appearance. Excellence Engimac is an Aluminium extrusion company with a vertically integrated value chain incorporating casting, extrusion, machining, surface treatment, kitting, and assembly of Aluminium profiles. The proper surface finish adds the finishing touch to your products, giving them an attractive appearance or improving their functionality

Applications for windows, doors, electronics, transportation and thousands of product areas in between. From customized extrusions to fully fabricated components, our experts help design, extrude and manufacture the parts that shape your world. But it's what we offer behind the scenes that enables us to go beyond expectation—And achieve "Excellence" Beyond Extrusion

AT EXCELLENCE ENGIMAC PRIVATE LIMITED, WE:

ACT WITH INTEGRITY.

We lead with respect, honesty, transparency and accountability.

SAFEGUARD OUR FUTURE.

We protect and improve the health and safety of our employees, communities and environment.

EARN CUSTOMER LOYALTY.

We build customer partnerships through best-in-class products and service.

DRIVE OPERATIONAL EXCELLENCE.

We pursue continuous improvement through innovation, agility, people development and collaboration.

QUALITY SERVICES

We provide comprehensive services for the development of your aluminum project, with quality control systems, certifications, and an ideal process, where the product is continuously improving.

GENERAL INFORMATION

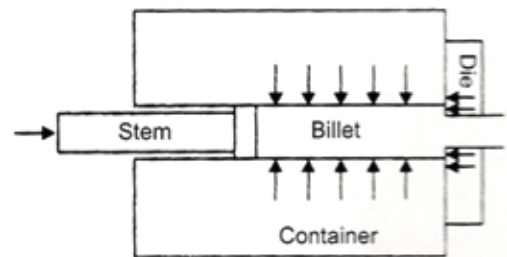
The sections shown in this Catalogue are regular profiles for which dies are available with us on the date of publication and are available to customers without die charges. We are continually adding to the range of extrusion dies. If the particular section, required by you, is not shown in the Catalogue, please write to our works at Vadodara to meet your specific needs. To avoid confusion and delay in the processing of enquiries and execution of orders, correct and detailed information about the desired sections is required.

All the standard sections given in the Catalogue are generally available in ALLOY 63400 & Temper WP (HE9WP) corresponding to IS-733 & IS-1285. Extrusions in alloys other than these would be subject to special enquiry.

ABOUT EXTRUSION

Extrusion is a plastic deformation process in which a block of metal (billet) is forced to flow by compression through the die opening of a smaller cross-sectional area than that of the original billet as shown in figure below. Extrusion is an indirect compression

process. Indirect compressive forces are developed by the reaction of the billet with the container and die; these forces reach high values, The reaction of the billet with the container and die results in high compressive stresses that are effective in reducing the cracking of the billet material during primary breakdown from the billet. Extrusion is the best method for breaking down the cast structure of the billet because the billet is subjected to compressive forces only



In hot extrusion, the billet is preheated to facilitate plastic deformation.

PHYSICAL PROPERTIES OF ALUMINIUM

Specific Gravity	2.70
Electrical Conductivity	-53 to 62% IACS
Co-efficient to liner expansion	- 22 X10 ⁻⁶ mm/mm/0 c
Thermal Conductivity (at 20 C)	- 0.53 Cal/Sq.cm/sec./cm ² c
Electrical Resistivity (at 20 C)	- 2.850 micro-ohm (for EC-o)
Modulus of Elastivity	-7 X10 ⁵ kg/cm ²

PRODUCT SPECIFICATION

ALLOY	INDIA = 63400; AMERICA = AA6063, BRITISH = BS HE9 (NOTE : Other alloys can be given against specific enquiries)
Tensile Strength	185 (Mpa); Elongation : 7% Hardness : 71 to 84 Rockwell E
EXTRUSIONS Width / (CCD)	Up to 120 mm for solid sections, Up to 100 mm for hollow sections
Lengths	As per customer's requirement
TOLERANCES	Generally as per British Standard BS 1474:1987 and as per Indian Standard a) IS 2673 : For Round Tubes b) IS 6477 : For Hollow Sections (Other than round tubes) c) Is 3965 : For solid Sections

ALUMINIUM ALLOY SPECIFICATION

(A) MECHANICAL PROPERTIES

Alloy specification		Temper		0.2% Proof Stress Mpa. min	Tensile Strength Mpa. Min.	Ultimate Elongation % on 50mm Gauge % Min.	Typical Brinell Hardness No BHN	Equivalents Alloy
Old	New	Old	New					
EIC	19000	M	F	-	(65)	(18)	20	-
EIB	19500	M	F	-	(65)	(23)	18	-
HE9	63400	M	F	-	(110)	(23)	-	AA6063
		W	T4	80	140	14	45	
		P	T5	140	170	7	-	
		WP	T6	150	185	7	60	
E91E	63401	W	T4	80	140	12	-	
		WP	T6	135	170	12	55	
HE30	64430	M	F	-	(110)	(14)	-	Equivalents AA6063
		W	T4	120	185	14	60	
HE20		WP	T6	270	310	7	95	ISO Al Si1 Mg Mn ASTM 6351
-	65032	M	F	-	(110)	(12)	-	
		W	T4	115	185	14	55	
		WP	T6	235	280	7	85	
-	AA6005	P	T5	240	260	8	80	ASTM B221M
-	AA6060		T4	60	120	16	-	BS 1474
			T5	100	145	8	-	ISO-Al Mg Si
			T6	150	190	8	60	
-	AA6061		T4	115	190	16	65	Equivalent ISO Al Mg 1 Si Cu
			T6 T6510	240	280	8	85	

Note : No Mechanical Properties are specified in F (or M) Condition

The bracketed values are given for information only

1 Mpa= 1 N/mm² = 0.102 kgf / mm²

Typical BHN values are given for information only and no guarantee is implied.

(B) CHEMICAL COMPOSITION IN PERCENTAGE

Designation	Copper	Magnesium	Silicon	Iron	Manganese	Zinc	Titanium	Chromium	Others	Aluminium	Remarks
	Cu	Mg	Si	Fe	Mn	Zn	Ti	Cr	Each Total	Al	
19000	0.1	0.2	0.5	0.7	0.1	0.1	-	-	0.05	-	99.0 Min T+V=0.07
19500	0.05	0.05	0.3	0.4	0.05	0.1	-	-	0.03	-	99.5 Min
63400	0.1	0.4-0.8	0.3-0.7	0.6	0.3	0.2	0.2	0.1	0.05	0.15	Remainder
63401	0.05	0.4-0.9	0.3-0.7	0.5	0.03	0.10	0.10	0.03	0.03	0.10	Remainder
64430	0.1	0.4-1.2	0.6-1.3	0.6	0.4-1.0	0.1	0.2	0.25	0.05	0.15	Remainder
65032	0.15-0.4	0.7-1.2	0.4-0.8	0.7	0.2-0.8	0.2	0.2	0.15-0.35	0.05	0.15	Remainder Either Mn or Cr shall be present
AA6005	0.10	0.40-0.60	0.60-0.90	0.35	0.10	0.10	0.10	0.10	0.05	0.15	Remainder
AA6060	0.10	0.35-0.60	0.35-0.60	0.10-0.30	0.10	0.15	0.10	0.05	0.05	0.15	Remainder
AA6061	0.15-0.40	0.8-1.20	0.8-1.20	0.7	0.15	0.25	0.15	0.04-0.35	0.05	0.15	Remainder

Note : Composition in Maximum unless shown as a range or a minimum



AVAILABLE DIES

In this catalogue you will find a large number of dies that is available for everyone. It gives you quick access to an economical range of profiles that will fully or partly meet your requirements.

Please remember that you can also create your own ideal profile. Whether you choose a standard profile, a profile from an available die or a tailor-made solution, you get benefits such as low weight, high strength and corrosion resistance.



STANDARD PROFILES (Page 01-05)

RECTANGULAR TUBE
SQUARE TUBE
CURTAIN WALL
CURTAIN WALL WITH GROOVE
CURTAIN WALL WITH GROOVE
ANGLES
ROUND PIPE
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BULP TEE
PLAIN TEE
DOUBLE GLASS CHANNEL
F SECTION
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G SECTION

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PARTITION PROFILES (Page 07-10)

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L PIPE (WITHOUT GROOVE)
50X32 CHOKHAT
MOULDING CHOKHAT

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DOOR TOP & BOTTOM
DOOR MIDDLE
DOOR MIDDLE (SINGLE)
SINTEX A (WITHOUT GROOVE)
SINTEX A (WITH GROOVE)
SINTEX H
JUMBO SECTION
Z OUTER (34 MM)

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HANDLE
TOP BOTTOM
INTERLOCK
BEARING TOP BOTTOM
MITTING SECTION
2 TRACK TOP
2 TRACK BOTTOM
3 TRACK TOP
3 TRACK BOTTOM

20 MM SLIDING SERIES (Page 18-20)

HANDLE
TOP BOTTOM
INTERLOCK
2 TRACK TOP
2 TRACK BOTTOM
3 TRACK TOP
3 TRACK BOTTOM

25 MM SLIDING SERIES (Page 21)

HANDLE SECTION
TOP BOTTOM
MIDDLE

SOLAR PROFILES (Page 22)

PANEL
CLIPS

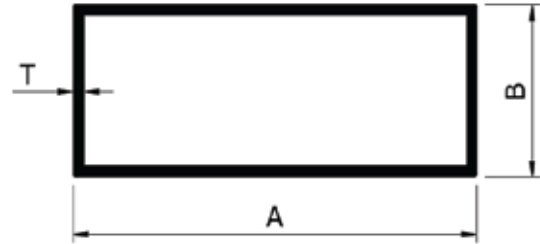
LADDER PROFILE (Page 23)

C LADDER
STEP LADDER

ARCHITECTURAL SECTION

Standard Profiles

RECTANGULAR TUBE

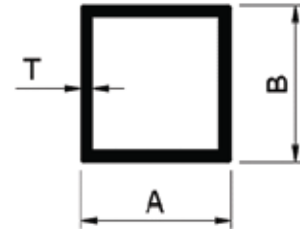


Sec No	C/L	A	B	T	WT. RANGE
X 101	12.00	36.00	24.00	0.80	0.90-1.00
X 102	12.00	36.00	24.00	1.00	1.10-1.30
X 103	12.00	36.00	24.00	1.20	1.40-1.50
X 104	12.00	36.00	24.00	1.50	1.70-1.90
X 105	12.00	48.00	24.00	0.80	0.80-0.90
X 106	12.00	48.00	24.00	0.90	1.00-1.20
X 107	12.00	48.00	24.00	1.20	1.50-1.70
X 108	12.00	48.00	24.00	1.50	2.00-2.20
X 109	12.00	63.00	38.00	0.80	1.30-1.50
X 110	12.00	63.00	38.00	0.95	1.80-2.00
X 111	12.00	63.00	38.00	1.20	2.40-2.60
X 112	12.00	63.00	38.00	1.50	2.80-3.00
X 113	12.00	63.00	38.00	2.00	3.80-4.00
X 114	12.00	63.00	38.00	3.00	5.80-6.00
X 115	12.00	75.00	25.00	0.80	1.40-1.60
X 116	12.00	75.00	25.00	1.00	1.90-2.10
X 117	12.00	75.00	25.00	1.20	2.40-2.60
X 118	12.00	75.00	25.00	1.50	2.80-3.00
X 119	12.00	75.00	25.00	2.00	3.80-4.00
X 120	12.00	100.00	25.00	0.90	2.10-2.40
X 121	12.00	100.00	25.00	1.00	2.40-2.60
X 122	12.00	100.00	25.00	1.20	2.80-3.00
X 123	12.00	100.00	25.00	1.50	3.80-4.00
X 124	12.00	100.00	44.00	1.30	3.70-3.90
X 125	12.00	100.00	44.00	1.50	4.00-4.30

ARCHITECTURAL SECTION

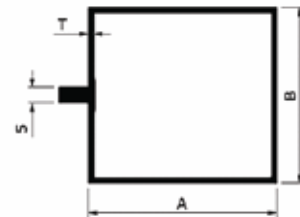
Standard Profiles

SQUARE TUBE



Sec No	C/L	A	B	T	WT. RANGE
X 140	12.00	24.00	24.00	1.00	0.90-1.00
X 141	12.00	24.00	24.00	1.20	1.10-1.20
X 142	12.00	24.00	24.00	1.50	1.30-1.50
X 143	12.00	38.00	38.00	0.80	1.50-1.60
X 144	12.00	38.00	38.00	1.20	1.80-2.00
X 145	12.00	38.00	38.00	1.50	2.20-2.40
X 146	12.00	50.00	50.00	0.95	1.80-2.00
X 147	12.00	50.00	50.00	1.20	2.40-2.60
X 148	12.00	50.00	50.00	1.50	2.80-3.00

CURTAIN WALL

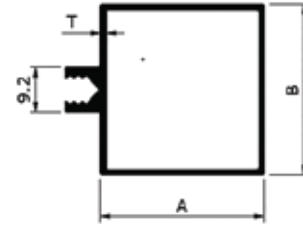


Sec No	C/L	A	B	T	WT. RANGE
X 160	12.00	50.00	50.00	1.00	2.00-2.20
X 161	12.00	50.00	50.00	1.50	3.20-3.40
X 162	12.00	115.00	57.00	2.00	8.00-8.40

ARCHITECTURAL SECTION

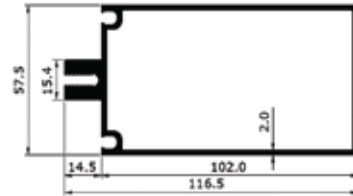
Standard Profiles

CURTAIN WALL WITH GROOVE



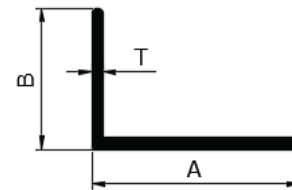
Sec No	C/L	A	B	T	WT. RANGE
X 166	12.00	50.00	50.00	1.00	2.00-2.50

CURTAIN WALL WITH GROOVE



Sec No	C/L	A	B	T	WT. RANGE
X 168	12.00	58.00	101.00	2.18	8.00-8.10

ANGLES



Sec No	C/L	A	B	T	WT. RANGE
X 170	12.00	25.00	25.00	0.90	.40-.45
X 171	12.00	25.00	25.00	2.00	.95-1.00
X 172	12.00	38.00	25.00	2.00	1.40-1.60
X 173	12.00	38.00	25.00	3.00	1.80-2.00

ARCHITECTURAL SECTION

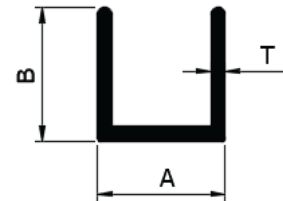
Standard Profiles

ROUND PIPE



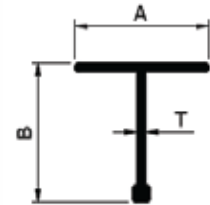
Sec No	C/L	Ø	T	WT. RANGE
X 180	12.00	19.00	0.60	0.40 - 0.50

U CHANNEL



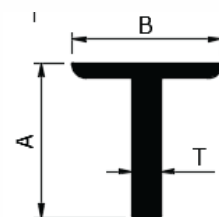
Sec No	C/L	A	B	T	WT. RANGE
X 190	12.00	9.00	9.00	0.60	.15-.19
X 191	12.00	12.00	12.00	0.70	.20-.25

BULB TEE



Sec No	C/L	A	B	T	WT. RANGE
X 200	12.00	25.00	25.00	0.90	.40-.50

PLAIN TEE



Sec No	C/L	A	B	T	WT. RANGE
X 205	12.00	25.00	25.00	0.90	.40-.50

ARCHITECTURAL SECTION

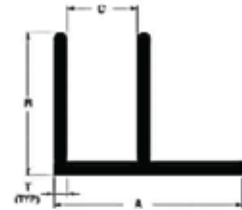
Standard Profiles

DOUBLE GLASS CHANNEL



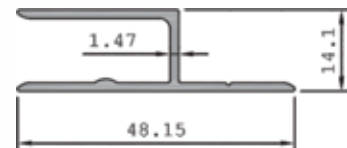
Sec No	C/L	A	B	T	WT. RANGE
X 210	12.00	22.00	11.00	0.60	.30-.40
X 211	12.00	22.00	11.00	0.90	.40-.50
X 212	12.00	22.00	11.00	1.00	.50-.60
X 213	12.00	25.00	11.00	0.70	.40-.50
X 214	12.00	25.00	11.00	0.90	.50-.55
X 215	12.00	25.00	11.00	1.15	.60-.70
X 216	12.00	25.00	11.00	1.20	.70-.80

F SECTION



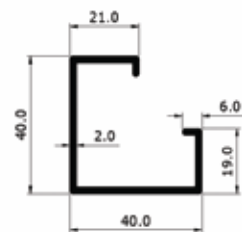
Sec No	C/L	A	B	T	WT. RANGE
X 220	12.00	21.00	16.00	1.00	.45-.55

Y SECTION



Sec No	C/L	A	B	T	WT. RANGE
X 225	12.00	33.00	12.70	0.80	.45-.55

G SECTION

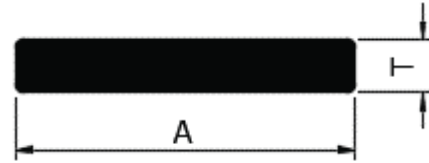


Sec No	C/L	A	B	T	WT. RANGE
X 230	12.00	40.00	20.00	1.75	2.00-2.20
X 231	12.00	40.00	2.00	2.00	2.30-2.50

ELECTRICAL SECTION

Standard Profiles

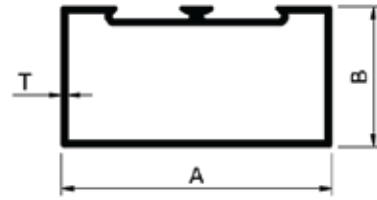
FLAT BAR



Sec No	C/L	A	T	WT. RANGE
X 240	12.00	25.00	1.70	.40-.50
X 241	12.00	25.00	3.00	.75-.95
X 242	12.00	25.00	6.00	1.40-1.60
X 243	12.00	25.00	10.00	2.40-2.60
X 244	12.00	30.00	10.00	2.90-3.10
X 245	12.00	30.00	20.00	6.00-6.20
X 246	12.00	40.00	6.00	2.30-2.50
X 247	12.00	40.00	10.00	3.90-4.10
X 248	12.00	50.00	2.00	1.00-1.20
X 249	12.00	50.00	6.00	3.00-3.20
X 250	12.00	50.00	10.00	4.90-5.10
X 251	12.00	50.00	12.00	5.90-6.10
X 252	12.00	60.00	10.00	5.90-6.10
X 253	12.00	70.00	10.00	6.90-7.10
X 254	12.00	75.00	10.00	7.40-7.60
X 255	12.00	75.00	12.00	8.90-9.10
X 256	12.00	80.00	10.00	7.90-8.10
X 257	12.00	100.00	10.00	9.90-10.10
X 258	12.00	100.00	12.00	11.90-12.10
X 259	12.00	100.00	20.00	19.80-20.00
X 260	12.00	120.00	10.00	11.90-12.10
X 261	12.00	150.00	10.00	14.80-15.00
X 262	12.00	150.00	12.00	17.80-18.00

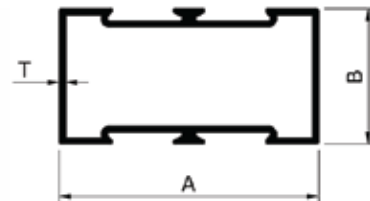
ARCHITECTURAL SECTION PARTITION SECTION

SINGLE PARTITION



Sec No	C/L	A	B	T	WT. RANGE
X 270	12.00	50.00	24.00	0.80	1.25-1.45
X 271	12.00	50.00	24.00	1.00	1.50-1.70
X 272	12.00	50.00	24.00	1.20	1.90-2.10
X 273	12.00	50.00	24.00	1.50	2.10-2.30
X 274	12.00	63.00	38.00	0.90	1.80-2.00
X 275	12.00	63.00	38.00	1.00	2.10-2.20
X 276	12.00	63.00	38.00	1.20	2.50-2.70
X 277	12.00	63.00	38.00	1.50	2.90-3.10
X 278	12.00	101.00	44.45	1.20	3.80-4.00
X 279	12.00	101.00	44.45	1.50	4.60-4.80

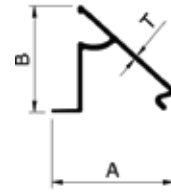
DOUBLE PARTITION



Sec No	C/L	A	B	T	WT. RANGE
X 290	12.00	63.00	38.00	0.90	1.80-2.00
X 291	12.00	63.00	38.00	1.00	2.10-2.30
X 292	12.00	63.00	38.00	1.20	2.50-2.70
X 293	12.00	63.00	38.00	1.50	2.90-3.10
X 294	12.00	101.00	44.45	1.20	3.80-4.00
X 295	12.00	101.00	44.45	1.50	4.60-4.80

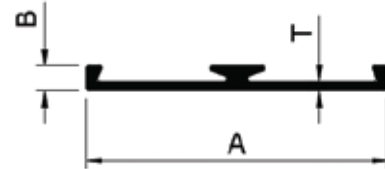
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G CLIP



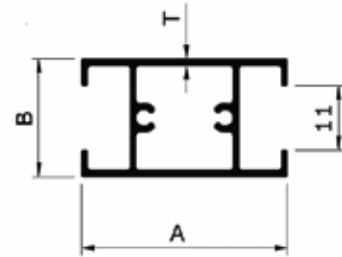
Sec No	C/L	A	B	T	WT. RANGE
X 300	12.00	19.00	17.00	0.45	0.20-0.22
X 301	12.00	19.00	17.00	0.50	0.24-0.28
X 302	12.00	19.00	17.00	0.70	0.30-0.35

GLAZING PLATE



Sec No	C/L	A	B	T	WT. RANGE
X 305	12.00	44.00	3.70	0.60	0.50-0.55
X 306	12.00	44.00	3.70	0.90	0.55-0.60

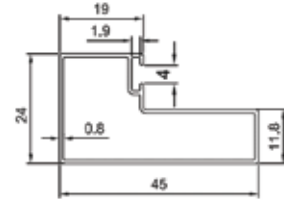
MATING



Sec No	C/L	A	B	T	WT. RANGE
X 310	12.00	75.00	25.00	1.00	1.90-2.10
X 311	12.00	75.00	25.00	1.20	2.30-2.50
X 312	12.00	75.00	25.00	1.50	2.90-3.20
X 313	12.00	80.00	18.00	1.00	1.90-2.10
X 314	12.00	80.00	18.00	1.20	2.30-2.50
X 315	12.00	80.00	18.00	1.50	2.90-3.20

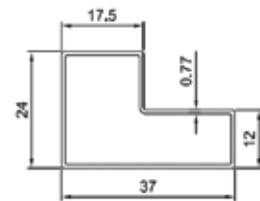
ARCHITECTURAL SECTION CHOKHAT PROFILES

L PIPE (WITH GROOVE)



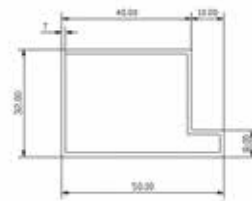
Sec No	C/L	A	B	T	WT. RANGE
X 320	12.00	63.50	38.10	1.60	4.00-4.20
X 321	12.00	45.00	24.00	0.70	1.00-1.20
X 322	12.00	45.00	24.00	1.00	1.30-1.50
X 323	12.00	45.00	24.00	1.20	1.60-1.80

L PIPE (WITHOUT GROOVE)



Sec No	C/L	A	B	T	WT. RANGE
X 330	12.00	37.00	24.30	0.80	.90-1.10
X 331	12.00	37.00	24.30	0.70	1.20-1.40
X 332	12.00	37.00	24.30	1.00	1.50-1.70

50X32 CHOKHAT



Sec No	C/L	A	B	T	WT. RANGE
X 340	12.00	50.00	32.00	0.90	1.40-1.60
X 341	12.00	50.00	32.00	1.10	1.70-1.90

ARCHITECTURAL SECTION

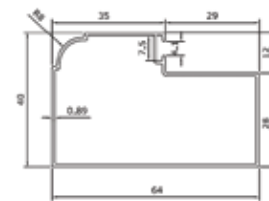
PARTITION SECTION

LEG PARTITION



Sec No	C/L	A	B	T	WT. RANGE
X 345	12.00	64.00	49.00	1.40	3.20-3.50
X 346	12.00	64.00	49.00	2.00	4.50-4.80

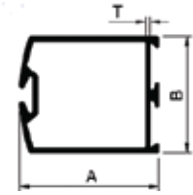
MOULDING CHOKHAT



Sec No	C/L	A	B	T	WT. RANGE
X 350	12.00	63.50	38.10	0.90	1.90-2.10
X 351	12.00	63.50	38.10	1.20	2.40-2.60
X 352	12.00	63.50	38.10	1.50	3.00-3.20

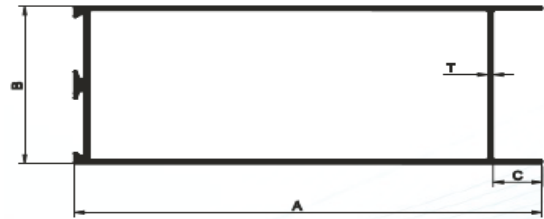
ARCHITECTURAL SECTION DOOR PROFILES

DOOR VERTICAL



Sec No	C/L	A	B	T	WT. RANGE
X 360	12.00	47.50	44.45	1.00	2.00-2.30
X 361	12.00	47.50	44.45	1.20	2.60-2.80
X 362	12.00	47.50	44.45	1.50	2.80-3.10
X 365	12.00	83.50	44.50	1.50	3.70-4.50
X 366	12.00	83.50	44.50	2.00	5.10-5.30

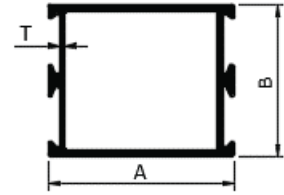
DOOR TOP & BOTTOM



Sec No	C/L	A	B	T	WT. RANGE
X 370	12.00	47.50	44.45	1.00	2.00-2.20
X 371	12.00	47.50	44.45	1.20	2.40-2.60
X 372	12.00	47.50	44.45	1.50	2.80-3.00
X 375	12.00	83.05	44.45	1.50	3.80-4.20
X 376	12.00	83.05	44.45	2.00	5.00-5.20
X 380	12.00	114.00	44.45	1.10	3.50-3.80
X 381	12.00	114.00	44.45	1.20	3.90-4.10
X 382	12.00	114.00	44.45	1.50	4.80-5.00

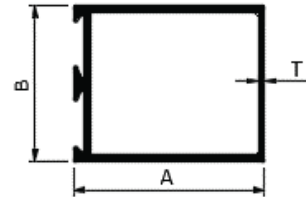
ARCHITECTURAL SECTION DOOR PROFILES

DOOR MIDDLE



Sec No	C/L	A	B	T	WT. RANGE
X 390	12.00	47.00	44.00	1.00	2.00-2.30
X 391	12.00	47.00	44.00	1.20	2.50-2.70
X 392	12.00	47.00	44.00	1.50	3.00-3.20
X 395	12.00	83.05	44.45	1.50	3.70-4.00
X 396	12.00	83.05	44.45	2.00	5.20-5.50

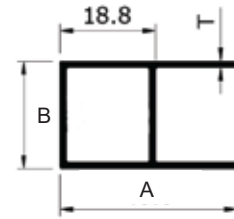
DOOR MIDDLE (SINGLE)



Sec No	C/L	A	B	T	WT. RANGE
X 400	12.00	47.00	44.00	1.00	1.80-2.10
X 401	12.00	47.00	44.00	1.20	2.50-2.70
X 402	12.00	47.00	44.00	1.50	3.00-3.20
X 405	12.00	83.05	44.45	1.50	3.70-4.00
X 406	12.00	83.05	44.45	2.00	5.20-5.50

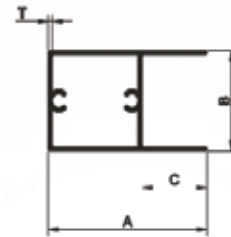
ARCHITECTURAL SECTION DOOR PROFILES

SINTEX A (WITHOUT GROOVE)



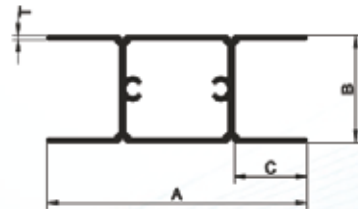
Sec No	C/L	A	B	T	WT. RANGE
X 410	12.00	40.00	24.00	0.60	.70-90
X 411	12.00	40.00	24.00	0.60	1.00-1.20

SINTEX A (WITH GROOVE)



Sec No	C/L	A	B	T	WT. RANGE
X 415	12.00	40.00	24.00	0.70	.90-1.20
X 416	12.00	40.00	24.00	1.20	1.50-1.70

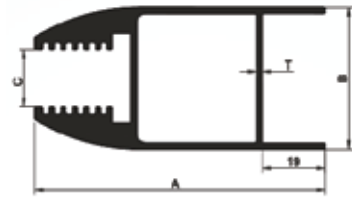
SINTEX H



Sec No	C/L	A	B	T	WT. RANGE
X 420	12.00	40.00	24.00	0.80	1.10-1.30
X 421	12.00	40.00	24.00	1.20	1.500-1.700

ARCHITECTURAL SECTION DOOR PROFILES

JUMBO SECTION



Sec No	C/L	A	B	T	WT. RANGE
X 425	12.00	88.00	40.00	2.00	8.00-8.500
X 426	12.00	88.00	40.00	2.50	9.500-10.00

Z OUTER (34 MM)

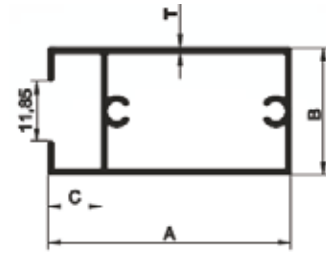


Sec No	C/L	A	B	T	WT. RANGE
X 430	12.00	45.00	35.00	0.90	1.300-1.500
X 431	12.00	45.00	35.00	1.20	1.600-1.800

ARCHITECTURAL SECTION

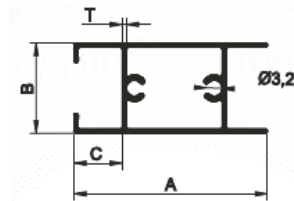
18 MM SLIDING SERIES

HANDLE



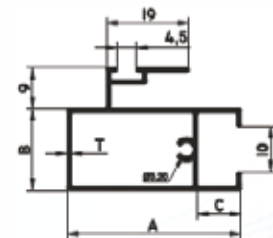
Sec No	C/L	A	B	T	WT. RANGE
X 500	12.00	40.00	18.00	0.70	.900-1.100
X 501	12.00	40.00	18.00	1.00	1.200-1.400
X 502	12.00	40.00	18.00	1.20	1.400-1.600
X 503	12.00	40.00	18.00	1.50	1.900-2.200

TOP BOTTOM



Sec No	C/L	A	B	T	WT. RANGE
X 510	12.00	40.00	18.00	0.70	.900-1.100
X 511	12.00	40.00	18.00	1.00	1.200-1.400
X 512	12.00	40.00	18.00	1.20	1.400-1.600
X 513	12.00	40.00	18.00	1.50	1.900-2.200

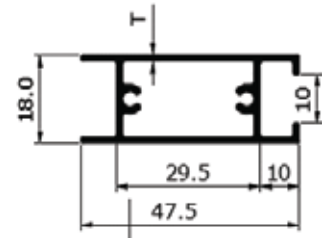
INTERLOCK



Sec No	C/L	A	B	T	WT. RANGE
X 520	12.00	40.00	18.00	0.70	1.100-1.300
X 521	12.00	40.00	18.00	1.00	1.300-1.500
X 522	12.00	40.00	18.00	1.20	1.700-1.900
X 523	12.00	40.00	18.00	1.50	1.900-2.300

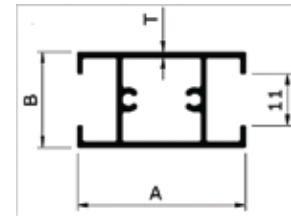
ARCHITECTURAL SECTION 18 MM SLIDING SERIES

BEARING TOP BOTTOM



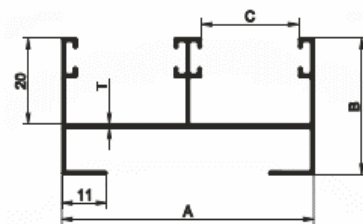
Sec No	C/L	A	B	T	WT. RANGE
X 530	12.00	51.00	18.00	0.70	1.00-1.300
X 531	12.00	51.00	18.00	1.20	1.600-1.800

MITTING SECTION



Sec No	C/L	A	B	T	WT. RANGE
X 540	12.00	42.00	18.00	0.70	1.00-1.300
X 541	12.00	42.00	18.00	1.20	1.400-1.600
X 542	12.00	42.00	18.00	1.50	1.900-2.200

2 TRACK TOP

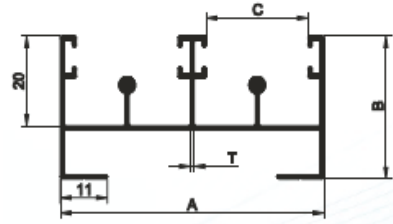


Sec No	C/L	A	B	T	WT. RANGE
X 550	12.00	62.00	32.00	0.75	1.400-1.600
X 551	12.00	62.00	32.00	1.00	1.700-1.900
X 552	12.00	62.00	32.00	1.20	2.300-2.500
X 553	12.00	62.00	32.00	1.50	2.800-3.00

ARCHITECTURAL SECTION

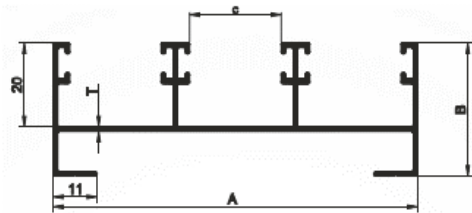
18 MM SLIDING SERIES

2 TRACK BOTTOM



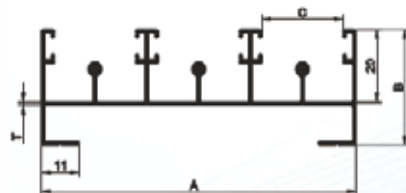
Sec No	C/L	A	B	T	WT. RANGE
X 560	12.00	62.00	32.00	0.75	1.500-1.700
X 561	12.00	62.00	32.00	1.00	1.900-2.100
X 562	12.00	62.00	32.00	1.20	2.400-2.600
X 563	12.00	62.00	32.00	1.50	3.00-3.200

3 TRACK TOP



Sec No	C/L	A	B	T	WT. RANGE
X 570	12.00	92.00	32.00	0.80	2.100-2.300
X 571	12.00	92.00	32.00	0.90	2.300-2.600
X 572	12.00	92.00	32.00	1.00	2.700-2.9
X 573	12.00	92.00	32.00	1.20	3.00-3.200
X 574	12.00	92.00	32.00	1.50	3.800-4.00

3 TRACK BOTTOM

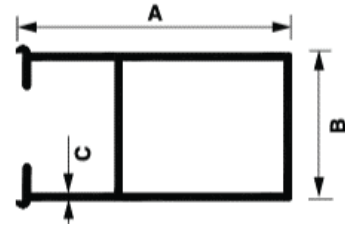


Sec No	C/L	A	B	T	WT. RANGE
X 580	12.00	92.00	32.00	0.80	2.300-2.500
X 581	12.00	92.00	32.00	0.90	2.500-2.800
X 582	12.00	92.00	32.00	1.00	2.800-3.00
X 583	12.00	92.00	32.00	1.20	3.100-3.300
X 584	12.00	92.00	32.00	1.50	4.100-4.400

ARCHITECTURAL SECTION

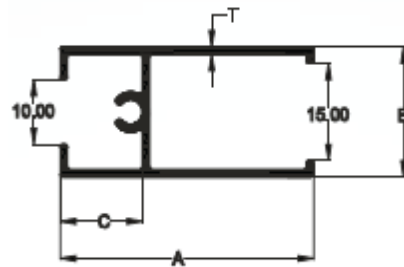
20 MM SLIDING SERIES

HANDLE



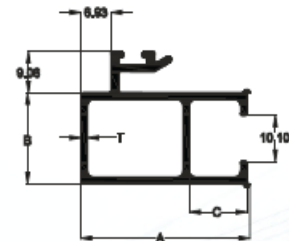
Sec No	C/L	A	B	T	WT. RANGE
X 600	12.00	38.00	20.00	0.80	.900-1.100
X 601	12.00	38.00	20.00	1.00	1.200-1.400
X 602	12.00	38.00	20.00	1.20	1.400-1.600
X 603	12.00	38.00	20.00	1.50	1.900-2.200

TOP BOTTOM



Sec No	C/L	A	B	T	WT. RANGE
X 610	12.00	41.00	20.00	0.70	.900-1.100
X 611	12.00	41.00	20.00	1.00	1.200-1.400
X 612	12.00	41.00	20.00	1.20	1.400-1.600
X 613	12.00	41.00	20.00	1.50	1.900-2.200

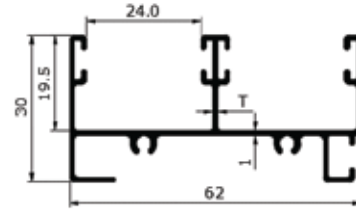
INTERLOCK



Sec No	C/L	A	B	T	WT. RANGE
X 620	12.00	38.00	20.00	0.70	1.100-1.300
X 621	12.00	38.00	20.00	1.00	1.300-1.500
X 622	12.00	38.00	20.00	1.20	1.700-1.900
X 623	12.00	38.00	20.00	1.50	1.900-2.300

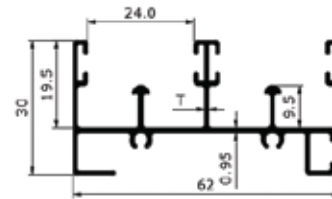
ARCHITECTURAL SECTION 20 MM SLIDING SERIES

2 TRACK TOP



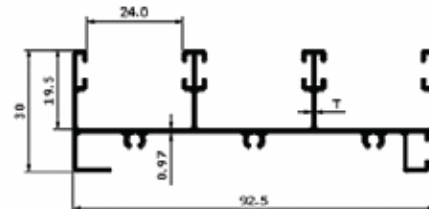
Sec No	C/L	A	B	T	WT. RANGE
X 630	12.00	62.00	20.00	0.75	1.400-1.600
X 631	12.00	62.00	20.00	1.00	1.700-1.900
X 632	12.00	62.00	20.00	1.20	2.300-2.500
X 633	12.00	62.00	20.00	1.50	2.800-3.00

2 TRACK BOTTOM



Sec No	C/L	A	B	T	WT. RANGE
X 640	12.00	62.00	32.00	0.80	1.600-1.880
X 641	12.00	62.00	32.00	1.00	1.900-2.100
X 642	12.00	62.00	32.00	1.20	2.400-2.600
X 643	12.00	62.00	32.00	1.50	3.00-3.200

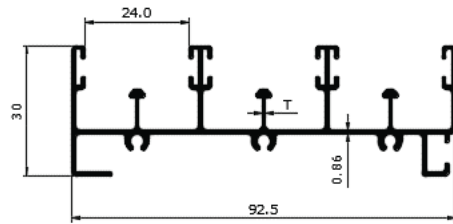
3 TRACK TOP



Sec No	C/L	A	B	T	WT. RANGE
X 650	12.00	92.00	32.00	0.80	2.100-2.300
X 651	12.00	92.00	32.00	0.90	2.300-2.600
X 652	12.00	92.00	32.00	1.00	2.700-2.9
X 653	12.00	92.00	32.00	1.20	3.00-3.200
X 654	12.00	92.00	32.00	1.50	3.800-4.00

ARCHITECTURAL SECTION 20 MM SLIDING SERIES

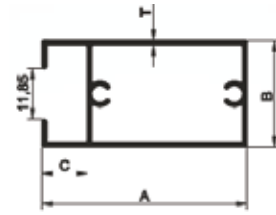
3 TRACK BOTTOM



Sec No	C/L	A	B	T	WT. RANGE
X 660	12.00	92.00	32.00	0.80	2.300-2.500
X 661	12.00	92.00	32.00	0.90	2.500-2.800
X 662	12.00	92.00	32.00	1.00	2.800-3.00
X 663	12.00	92.00	32.00	1.20	3.100-3.300
X 664	12.00	92.00	32.00	1.50	4.100-4.400

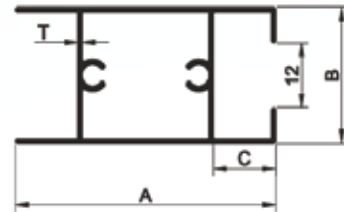
ARCHITECTURAL SECTION 25 MM SLIDING SERIES

HANDLE SECTION



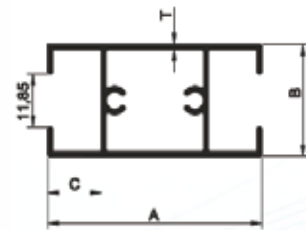
Sec No	C/L	A	B	T	WT. RANGE
X 800	12.00	50.00	25.00	0.80	1.200-1.480
X 801	12.00	50.00	25.00	1.00	1.50-1.70

TOP BOTTOM



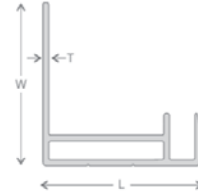
Sec No	C/L	A	B	T	WT. RANGE
X 810	12.00	50.00	25.00	0.70	1.200-1.480
X 811	12.00	50.00	25.00	1.00	1.50-1.70

MIDDLE



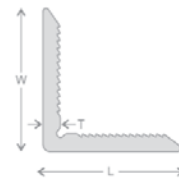
Sec No	C/L	A	B	T	WT. RANGE
X 820	12.00	50.00	25.00	0.70	1.200-1.480
X 821	12.00	50.00	25.00	1.00	1.50-1.70

PANEL



Sec No	C/L	W	L	T	WT. RANGE
X 900	12.00	24.00	22.00	1.30	1.00-1.200
X 901	12.00	34.00	30.00	1.50	1.60-1.80
X 902	12.00	35.00	30.00	1.30	1.30-1.50
X 903	12.00	35.00	30.00	1.35	1.40-1.60
X 904	12.00	35.00	30.00	1.35	1.50-1.70
X 905	12.00	40.00	35.00	1.50	1.80-2.00
X 906	12.00	42.00	35.00	1.50	1.80-2.00
X 907	12.00	34.00	22.00	1.20	1.00-1.200

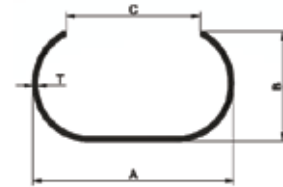
MIDDLE



Sec No	C/L	W	L	T	WT. RANGE
X 910	12.00	40.00	40.00	3.60	2.2-2.40

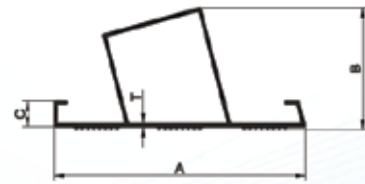
LADDER PROFILE

C LADDER



Sec No	C/L	A	B	T	WT. RANGE
L 101	12.00	66.00	32.00	1.50	1.80-1.95
L 102	12.00	66.00	32.00	1.80	2.10-2.300
L 103	12.00	66.00	32.00	2.00	2.40-2.600

STEP LADDER



Sec No	C/L	A	B	T	WT. RANGE
L 110	12.00	62.00	31.00	0.80	1.200-1.400
L 111	12.00	62.00	31.00	1.00	1.50-1.70
L 112	12.00	62.00	31.00	1.50	2.200-2.500



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