



**HINDALCO**  
***EXTRUSIONS***

EXPERTISE IS OUR STRENGTH

**Industrial - Alupuram**

*Printed Jan 2018*





**HINDALCO**  
***EXTRUSIONS***

EXPERTISE IS OUR STRENGTH



## VISION

To be a premium metals major, global in size and reach, excelling in everything we do, and creating value for our stakeholders.

## MISSION

To relentlessly pursue the creation of superior shareholder value, by exceeding customer expectation profitably, unleashing employee potential, while being a responsible corporate citizen adhering to our values.

## VALUES

**Integrity:** Honesty in every action

**Commitment:** Deliver on the promise

**Passion:** Energized action

**Seamlessness:** Boundaryless in letter and spirit

**Speed:** One step ahead always



# Hindalco Industrial Catalogue

Contents	Page No.
A. Hindalco - An Overview .....	06
B. Alupuram Plant Facilities .....	07
C. Specifications .....	08
<hr/>	
1. Actuator Body .....	13
2. Binding Machine Parts .....	16
3. Ferrule .....	17
4. Machine Components .....	18
5. Miscellaneous Industrial .....	22
6. Pneumatic Cylinders .....	30
7. Pump Body .....	31
8. Textile Machinery .....	33
9. Vulcanizing Machine Parts .....	36
10. Index .....	37
11. Contacts .....	38

## **HINDALCO - An Overview**

**Hindalco Industries Limited**, a USD 15 billion flagship company of the Aditya Birla Group, is a leading producer of aluminium and copper. Hindalco is present across the value chain of Aluminium & Copper. It has global footprint spanning across 13 countries in 5 continents

### **Copper**

- World's largest single-location copper smelting capacity.
- Copper mines in Australia.

### **Aluminium**

- Amongst top 5 aluminium majors worldwide.
- World's largest aluminium rolling company.
- Integrated operations - from mines to alumina to metal to value added products
  - ✦ Ingots & redraw rods (wire rods)
  - ✦ Flat Rolled products
  - ✦ Extrusions
  - ✦ Foils

Hindalco is a leader in Aluminium Extrusions industry in India with two manufacturing facilities. Both the plants are equipped with state of the art equipment, having well established manufacturing processes and quality systems honed over five decades.

- Manufacturing Facilities
  - ✦ Renukoot, U. P. (North India)
  - ✦ Alupuram, Kerala (South India)
- Capacity 60,000 MT per annum
- Expertise in customised alloys including hard alloys
- Catering to wide range of application segments such as Architectural, Electrical, Industrial, Transport, Defence and Consumer Durable.
- Extrusions manufactured from in-house virgin metal
- Quality Certification
  - ✦ ISO 9001-2008
  - ✦ ISO 14001-2004
  - ✦ OHSAS 18001-2007

This Catalogue covers the Industrial sections from the range manufactured in the Alupuram plant of Hindalco - India's first Extrusions plant started in the year 1955.

## Alupuram Plant



*1250 T Lowey Hydraulic Press with 6" container, automatic controls and puller*



*3300 T Farrel Watson Stillman Press with 9" container, automatic controls and puller*



*Ultramodern Makino Vertical Machining Centre in Die Shop*



*CNC Wire EDM Machine in Die Shop*



*Solution Heat Treatment Furnace*

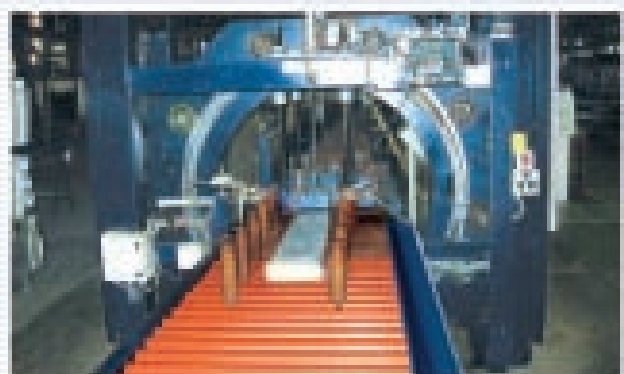


*Spectrometer for Quantometric Analysis*



*Branding Machine*

Alupuram



*Automated Packing Station*



TABLE - 1

### Wrought alloys: Near equivalent designations

INDIA		U.S.A. (A.A.)	BRITAIN (B.S.)	CANADA	GERMANY (DIN)	RUSSIA	I.S.O.	FRENCH ND
NEW I.S.	OLD I.S.							
19501	1E	1050(E.C)	1E	C 1S	E-Al 99.5	-	-	-
19500	1B	1050	1B	1S	A-99.5	-	Al-99.5	1050A
24345	H15	2014	H15	B26S	AL-CU-SI	AK	-	-
24534	H14	2017	H14	17S/16S	-	D1	Al-Cu-4Mg Si	-
-	-	2024	-	24S	Al-Cu.Mg2	-	Al-Cu-4Mg 1	2024
31000	N3	3003	N3	3S	Al-Mn	A-Mn	Al-Mn 1	3003
52000	N4	5052	N4	M57S	Al-Mg.2	A-Mg	Al-Mg-2.5	5051
53000	N5	5086	N5	54S	-	A-Mg-3	Al-Mg-4	-
54300	N8	5083	N8	D54S	Al-Mg-4.5 Mn	-	Al-Mg-4.5 Mn	5083
65032	H20	6061	H20	65S	Al-Mg-Si Cu	-	Al-Mg-1Si Cu	-
63400	H9	6063	H9	50S	Al-Mg-Si 0.5	-	Al-Mg Si	-
64430	H30	6351	H30	B51S	Al-Mg-Si 1	AV	Al-Si-1 Mg	6081
64423	H11	6066	H11	C62S	-	-	-	-
62400	-	6005	-	C51S	-	-	-	-
63401	91E	6101	91E	D50S	E.Al.Mg.Si 0.5	-	-	-
64401	-	6201	-	-	-	-	-	-
74530	-	7039	-	D74S	Al-Zn-Mg.1	-	-	3004
-	-	7075	DTD 5124	75S	Al-Zn-Mg Cu 1.5	-	Al-Zn 6 Mg Cu	7075





TABLE - 2

**Wrought alloys: Guide to selection**

Alloy	Temper	Resistance to Corrosion	Workability (Cold)	Machinability	Brazeability	Weldability	Commonly available forms	Indications of use
EC/1050, 1060 (1B) (19501) (19500) (19600)	F, O	A	A	D	A	A	Flats, Rods, Tubes & other section	Electrical conductors, cable sheathing, impact-extruded products, pressing utilities of anodizing quality, pen caps, piping etc.
1100 (1C) (19000)	F, O	A	A	D	A	A	Flats, Rods, Tubes & other section	Packaging lightly stresses and decorative assemblies in architecture and transport, equipment for chemical, food and brewing industries.
2014 (H 15) (24345)	T4 T6	C C	C D	B B	D D	C C	Rods & Bars Rods & Bars	Highly stressed component of all types in aircraft, ordnance and general engineering.
2017 (H 14) (24534)	T4	C	C	B	D	C	Rods & Bars	Highly stressed parts in aircraft and other structures, screw machine products.
2024	T4	C	C	B	D	C	Rods & Bars	Load Cell, Highly stressed component of all types in aircraft, ordnance and general engineering.
4043 (N 21) (43000)	F, O	A	A	D	A	A	Rods & other sections	Welding wire, architectural applications
5005 (52000A)	O, F	A	A	D	B	A	Flats, Rods, other sections	Structures exposed to marine attractive anodized finish, architectural, electrical conductors etc.
5052 (N 4)	O, F	A	A	D	C	A	Flats, Rods, Tubes & other sections	Structures exposed to marine atmosphere, aircraft parts, wire rope ferrules, rivet stock.
5086 (N 5) (53000)	O, F	A	A	D	D	A	Flats, Rods & other sections	Ship building and other marine applications, rivets, coinage etc.
5056 (N 6) (55000)	O, F	A	A	D	D	A	Rods	Zips, Welding Rods and Rivets.
6061 (H 20) (65032)	O, F T4 T6	A A A	A C D	D C C	A A A	A A A	Rods, Flats, Tubes & other sections	Heavy duty structures, building hardware, sections for bus body, truck and rail coach, furniture, rivets etc.
6063 (H9) (63400)	O, F T4 T6 T5	A A A A	A B C C	D C C C	A A A A	A A A A	Rods, Flats, Tubes & other sections	Building hardware, architectural section with good surface finish, medium strength furniture and anodized sections.



TABLE - 2

### Wrought alloys: Guide to selection

Alloy	Temper	Resistance to Corrosion	Workability (Cold)	Machinability	Brazeability	Weldability	Commonly available forms	Indications of use
6066 (64423)	O, F T4 T6	B B B	B C C	D B B	A A A	A A A	Rods and other solid sections	For welded structures, textile parts, heavy duty machine parts.
6101 (91 E) (63401)	T4 T6	A A	B B	C C	A A	A A	Rods, Flats, Tubes & other sections	High strength electrical busbar sections.
6201 (64401)	T4	A	A	C	A	A	Redraw Rod	Overhead conductors, ACAR and AAAC
6351 (H 30) (64430)	O, F T4 T6	A A A	A C D	D C C	A A A	A A A	Rods, Flats, Tubes & other sections	Structural and general engineering items such as rail & road transport vehicles, bridges, cranes, roof trusses, rivets etc.
7039 (D74S) (74530)	O, F T4 T6	A A A	A C D	D C C	A A A	A A A	Flats, Tubes, Rods & other sections	Defence structures like mobile bridges etc. Tread and chequered plates, Excellent welding property with no loss of strength in welded zone.
7075 (DTD5124)	O, F T4 T6	A A A	A A D	A A A	A A A	A A A	Rods	Highly stressed structural applications

#### Notes:

- Relative ratings for corrosion, workability and machinability in decreasing order of merit A, B, C and D.
- Weldability & brazeability ratings A, B, C and D are relative ratings defined as follows:
  - Generally weldable by the commercial procedure & methods.
  - Weldable with special technique.
  - Limited weldability due to crack sensitivity or loss in corrosion resistance and mechanical properties.
  - Generally not weldable.
- Availability of other forms subject to special enquiries and methods.



TABLE - 3

**Wrought alloys: Chemical composition limits (percent)**

Alloy (ISS) Old	New	Equivalent alloy (AA) U.S.A.	Copper		Magnesium		Silicon		Iron Max.	Manganese		*Others (Total) Max.	Remarks
			Min.	Max.	Min.	Max.	Min.	Max.		Min.	Max.		
1C	19000	1100	-	0.10	-	-	-	0.5	0.6	-	0.1	0.1	Aluminium 99.0% Min
1 B	19500	1050	-	0.05	-	-	-	0.25	0.4	-	0.05	0.1	Aluminium 99.5% Min
1 E	19501	-	-	0.04	-	-	-	0.15	0.35	-	0.03	0.1	Aluminium 99.5% Min
-	19600	1060	-	0.05	-	-	-	0.25	0.35	-	0.03	0.1	Aluminium 99.6% Min
H 15	24345	2014	3.8	5.0	0.2	0.8	0.5	1.2	0.7	0.3	1.2	0.5	-
H 14	24534	2017	3.5	4.7	0.4	1.2	0.2	0.7	0.7	0.4	1.2	0.5	-
		2024	3.8	4.9	1.2	1.8	-	0.5	0.5	0.3	0.9	0.15	Zn 0.25
N 3	91000	3003	-	0.1	-	0.1	-	0.6	0.7	1.0	1.5	0.4	-
		4032	0.8	1.3	0.8	1.3	-	13.5	0.6	-	0.2	0.15	Ni 0.8 - 1.3
N 4	52000	5052	-	0.1	1.7	2.6	-	0.6	0.5	-	0.5	0.4	Cr + Mn = 0.5
M 5	53000	5086	-	0.1	2.8	4.0	-	0.6	0.5	-	0.5	0.4	Cr + Mn = 0.5
N 8	54300	5083	-	0.1	4.0	4.9	-	0.4	0.7	0.5	1.0	0.4	Chromium up to 0.25
H 20	65032	-	0.15	0.4	0.7	1.2	0.4	0.8	0.7	0.2	0.8	0.4	**Cr = 0.15 - 0.35
-	-	6061	0.15	0.4	0.8	1.2	0.4	0.8	0.7	-	0.15	0.4	Chromium 0.04 to 0.35
H 9	63400	6063	-	0.1	0.4	0.9	0.3	0.7	0.6	-	0.3	0.4	-
-	-	6066	0.7	1.2	0.8	1.4	0.9	1.8	0.7	0.6	1.1	0.4	-
-	64423	-	0.5	1.0	0.5	1.3	0.7	1.3	0.8	-	1.0	-	-
9 1E	63401	6101	-	0.05	0.4	0.9	0.3	0.7	0.5	-	0.03	0.1	-
H 30	64430	6351	-	0.1	0.4	1.2	0.6	1.3	0.6	0.4	1.0	0.3	-
		6082	-	0.1	0.6	1.2	0.7	1.3	0.5	0.4	1.0	0.3	Chromium up to 0.25
-	74530	7039	-	0.2	1.0	1.5	-	0.4	0.7	0.2	0.7	0.4	Zinc 4.0 - 5.0 %
-	-	7075	1.2	2.0	2.1	2.9	-	0.5	0.5	-	0.3	0.2	Zinc (5.1 - 6.1) % & Chromium(0.18-0.28) %

\* Titanium and/or other grain refining elements

\*\* Either Mn or Cr shall be present



TABLE - 4

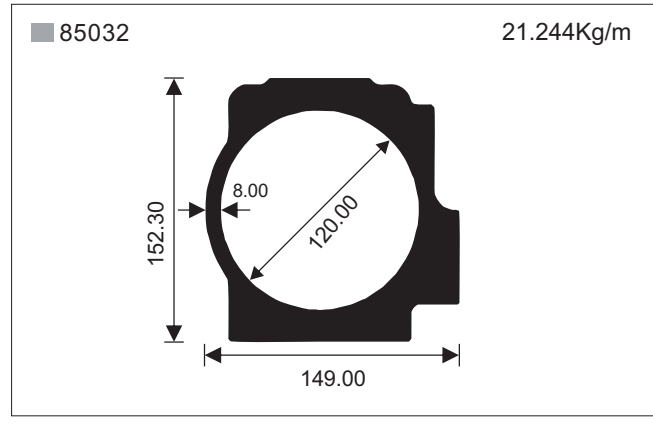
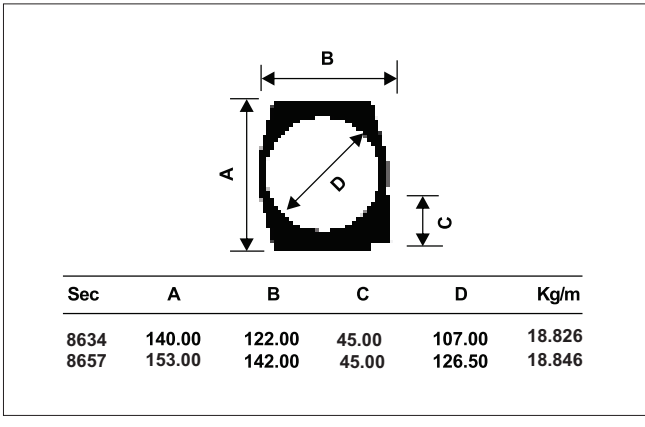
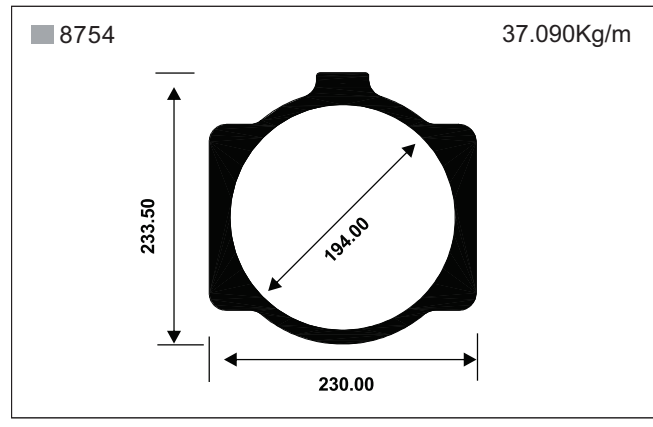
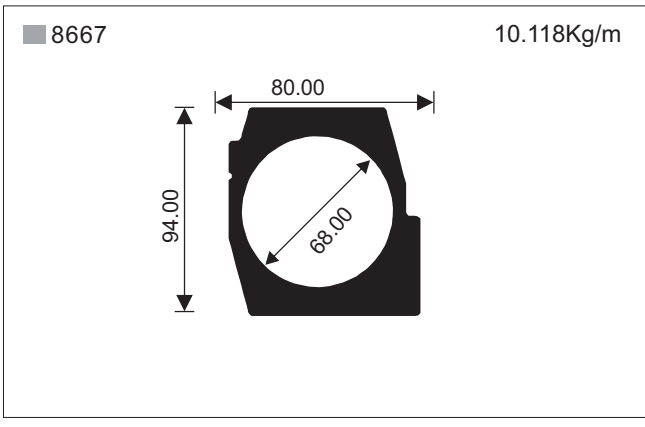
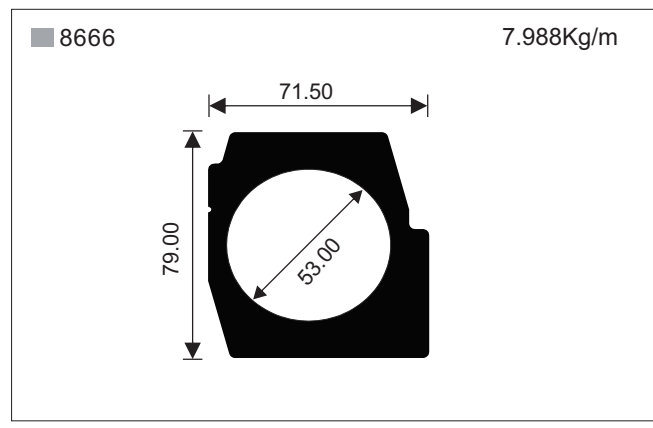
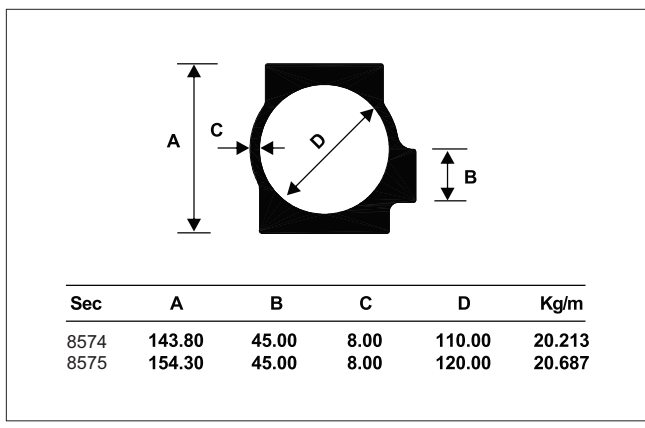
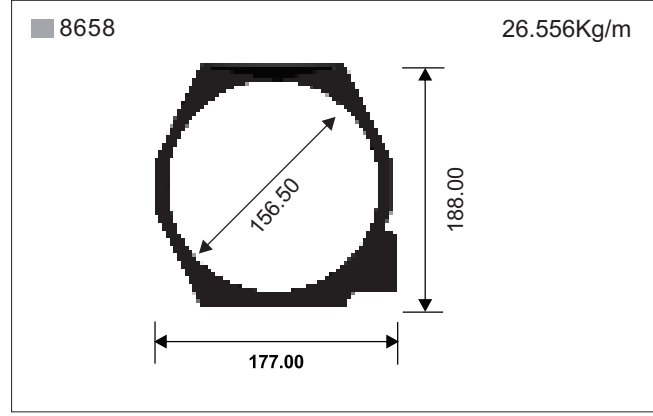
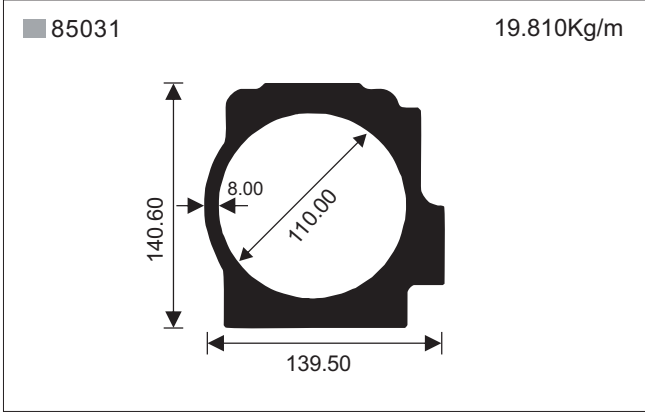
## Wrought alloys: Mechanical properties

Heat Treatable Alloys					
Alloy A A Old (ISS) New (ISS)	Temper	Ultimate Tensile Strength Kg/mm <sup>2</sup>		0.2% Proof Stress Kg/mm <sup>2</sup>	Elongation On 50mm GL
		Min.	Max.		
2014 [H15] [24345]	T4[W]	39	-	24.0	10
	T6 [WP]	49	-	43.0	6
2017 [H14] [24534]	T4[W]	39	-	24.0	10
2024 [H9]	T4	40.5	-	26.5	12
6063 [H9] [63400]	T4[W]	14	-	8.0	14
	T6 [WP]	19	-	15.5	7
6061 [H20] 65032]	M	11.2	-	5.1	12
	T4[W]	19	-	11.5	14
	T6 [WP]	28.5	-	24.0	7
6351[H30] [64430]	M	11.2	-	8.2	12
	T4[W]	19	-	12.0	14
	T6 [WP]	31.5	-	27.5	7
6066	M	11.0	-	-	12
	T4[W]	28	-	17.5	14
	T6 [WP]	35	-	31.5	7
6101[91E] [63401]	T4[W]	14	-	8.0	12
	T6 [WP]	20.5	-	17.0	10
6201 [64401]	T4[W]	16	-	7.0	14
	T8 [WDP]	32	-	-	3
7039 [74530]	T4[W]	28	-	23.5	9
	T6 [WP]	31.5	-	26.5	7
7075	T6 [WP]	54	-	46.5	6

Properties indicated herein are typical properties and are given for information only. However properties of all the profiles in specific alloy shall be as per I. S. Specification.



# ACTUATOR BODY

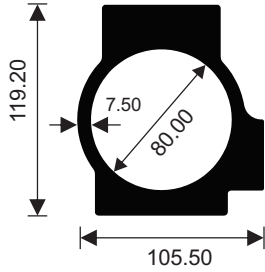




# ACTUATOR BODY

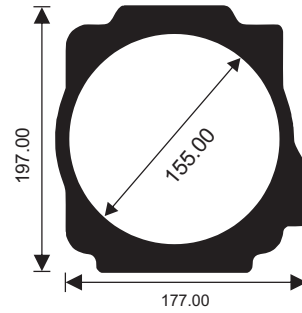
■ 8857

13.707Kg/m



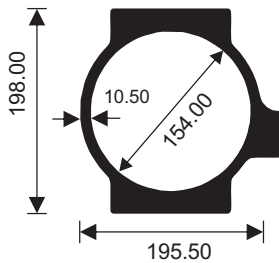
■ 85117

33.562Kg/m



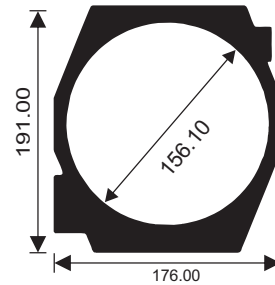
■ 8859

29.387Kg/m



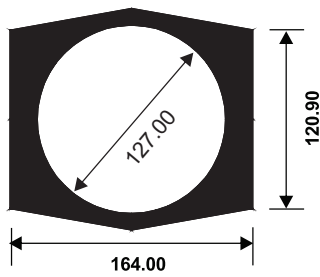
■ 85376

29.552Kg/m



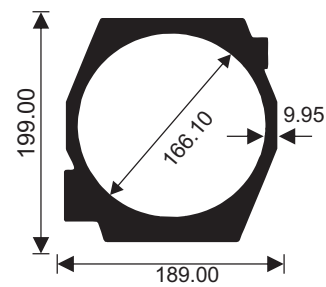
■ 9975

25.712Kg/m



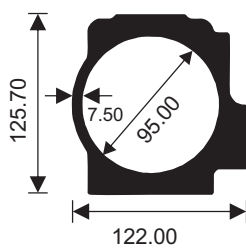
■ 85377

30.824Kg/m



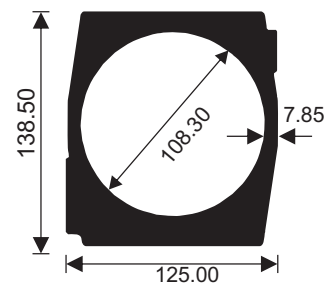
■ 85030

16.005Kg/m



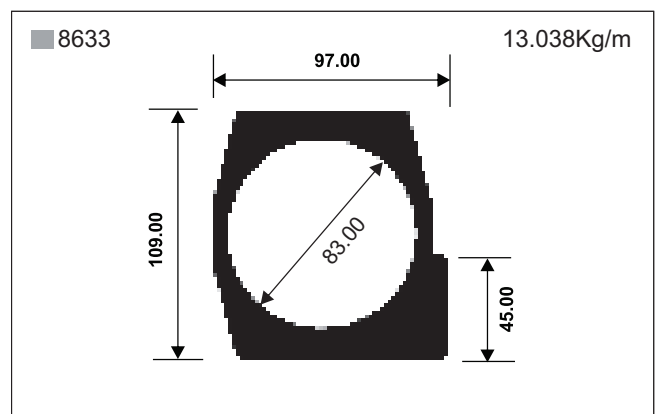
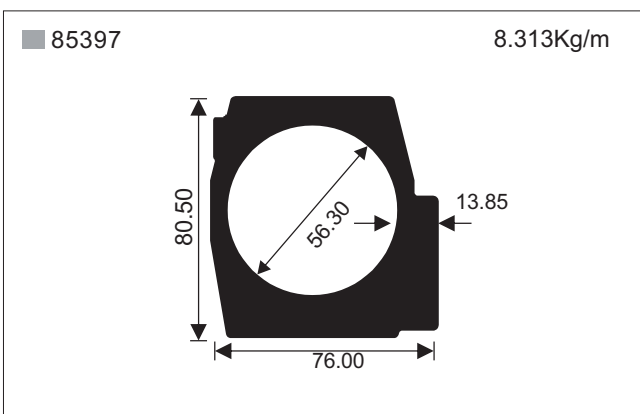
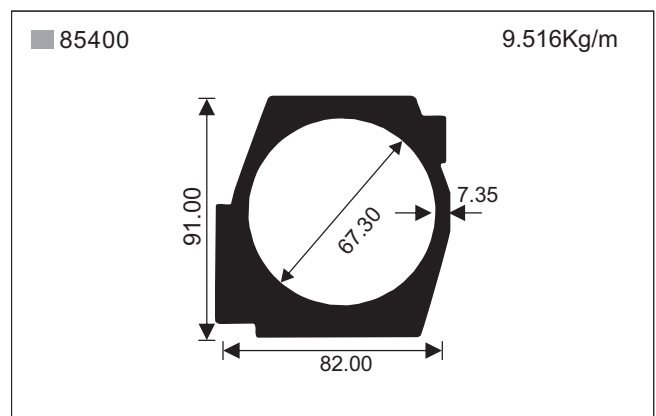
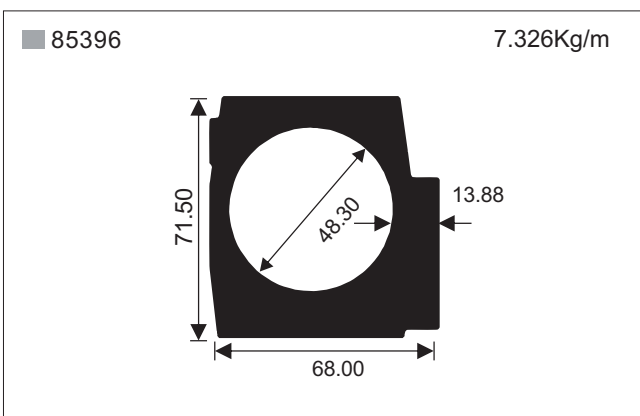
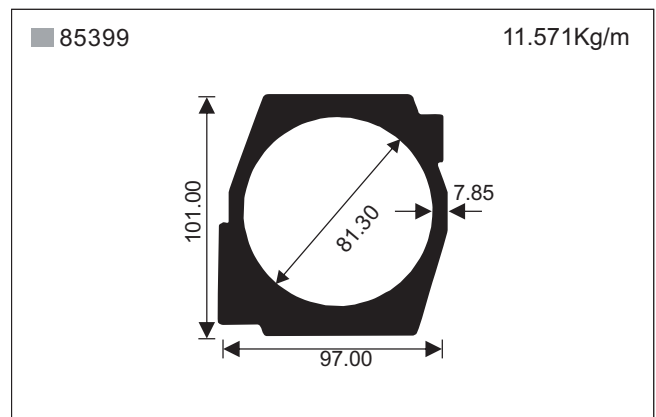
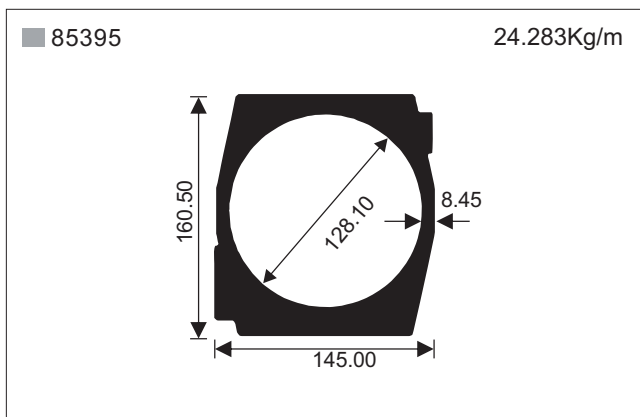
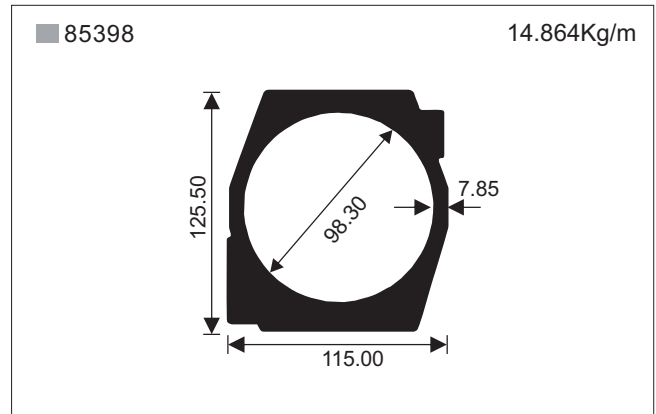
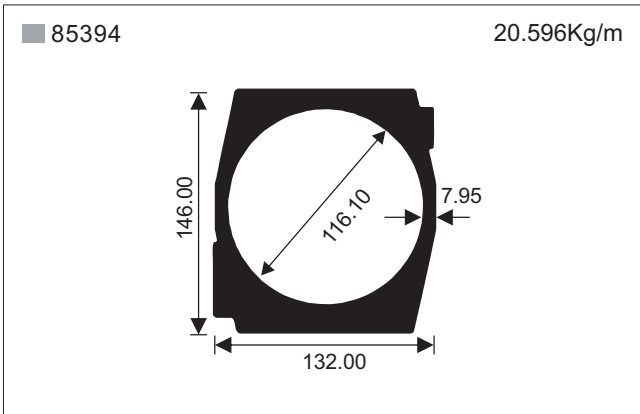
■ 85393

19.851Kg/m



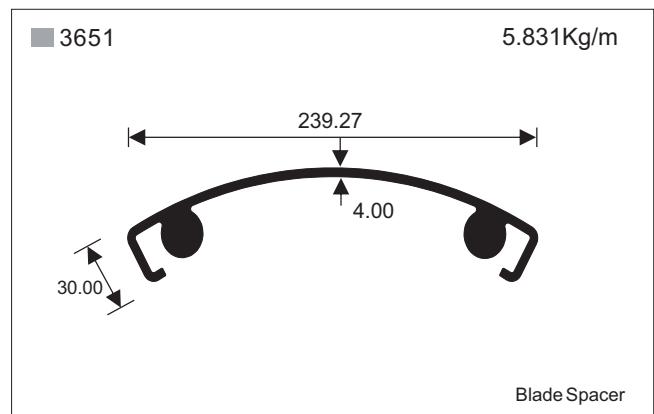
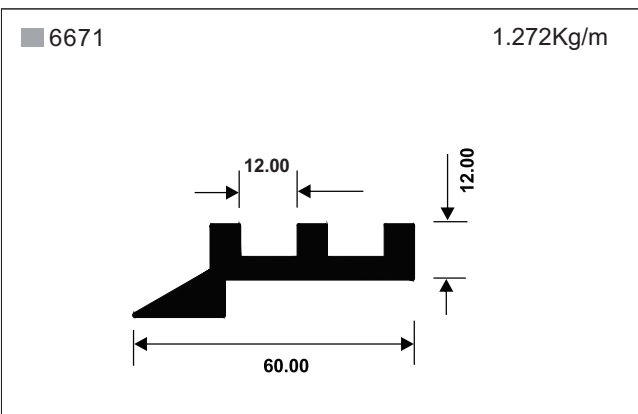
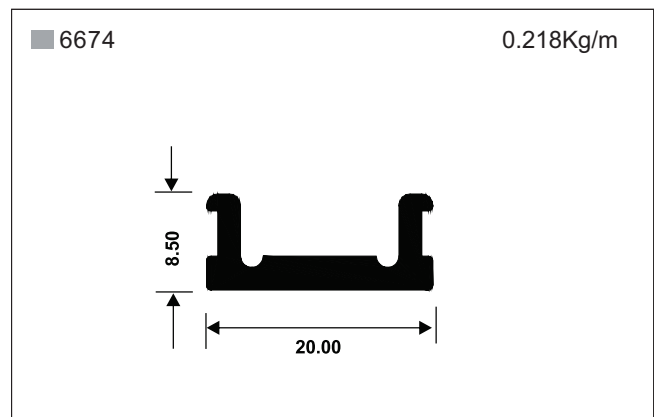
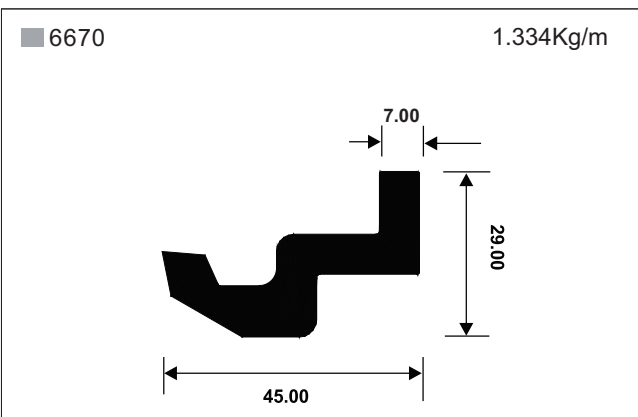
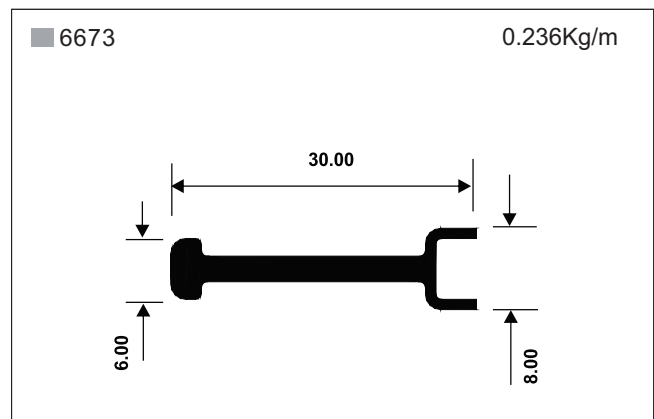
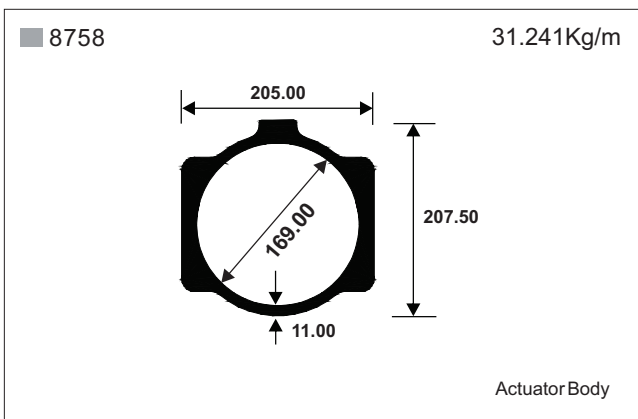
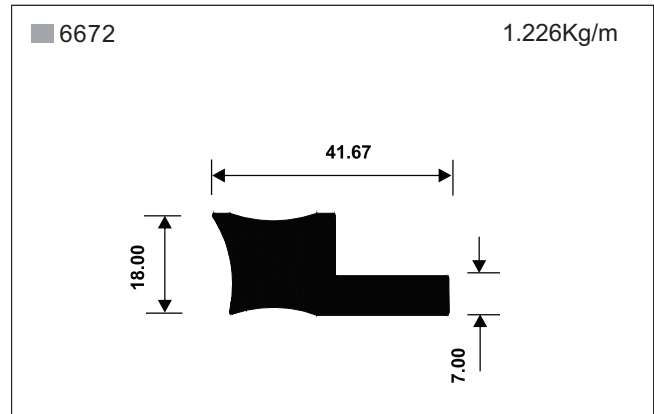
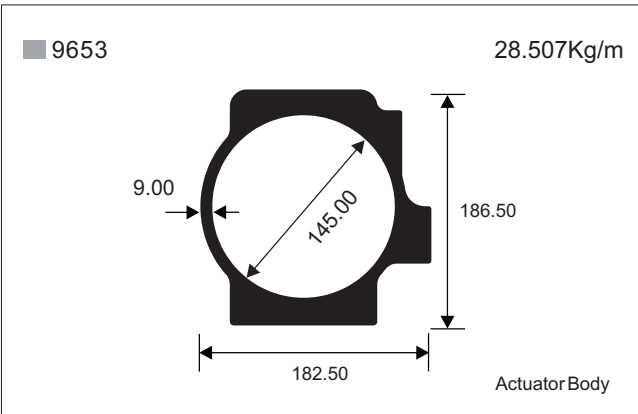


# ACTUATOR BODY





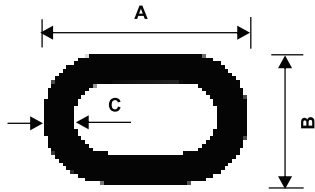
# BINDING MACHINE PARTS



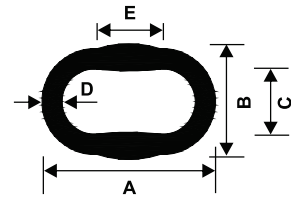




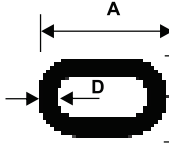
# FERRULE



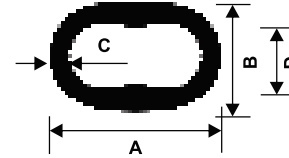
Sec	A	B	C	Kg/m
8639	26.50	17.00	4.00	0.931
9861	31.80	21.00	5.00	0.970
8948	32.00	18.00	1.00	0.220



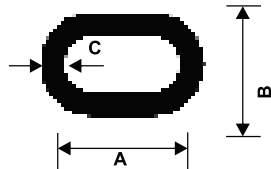
Sec	A	B	C	D	E	Kg/m
9812	49.50	33.00	16.50	6.00	19.00	2.014
9785	55.50	37.00	18.50	6.50	21.50	2.484
9821	73.00	49.00	25.00	9.00	27.00	4.427
9890	98.60	65.42	34.82	11.50	36.00	7.636



Sec	A	B	C	D	Kg/m
9566	78.20	50.20	25.52	11.10	5.450
9579	90.00	58.00	29.49	13.00	7.336
9567	96.00	62.00	31.14	14.00	8.430
9580	108.00	70.00	38.00	16.00	10.830
9891	108.00	70.00	37.06	15.00	10.261
9652	120.00	78.00	37.84	18.00	13.530
9818	132.00	86.00	41.24	20.00	16.519
9819	138.00	90.00	42.90	21.00	18.129
9802	138.00	90.00	52.00	16.00	14.630



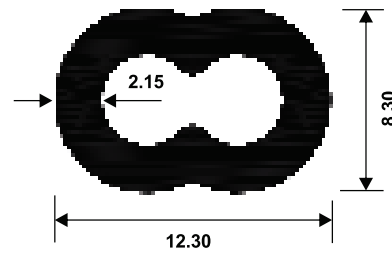
Sec	A	B	C	D	Kg/m
9790	49.00	32.50	6.00	16.50	1.974
9815	56.00	37.50	7.00	18.50	2.681
9848	62.00	40.50	7.00	21.50	2.990



Sec	A	B	C	Kg/m
9660	15.10	9.70	2.23	0.206
9577	19.30	12.40	2.84	0.336
9586	29.72	19.11	4.38	0.798
9574	35.40	22.69	5.13	1.116
9573	41.61	26.80	6.15	1.569

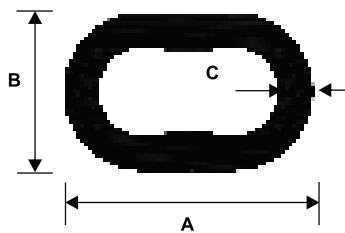
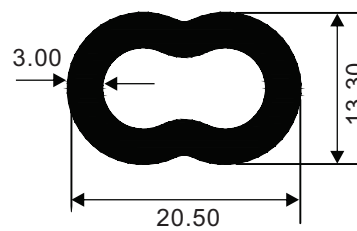
■ 9820

0.163Kg/m



■ 85526

0.353Kg/m



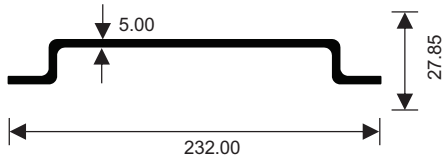
Sec	A	B	C	Kg/m
9578	72.40	46.40	10.20	4.660



# MACHINE COMPONENTS

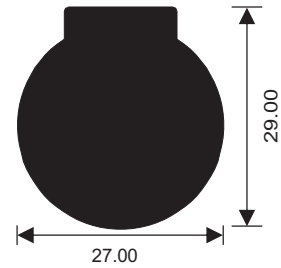
■ 2356

3.749Kg/m



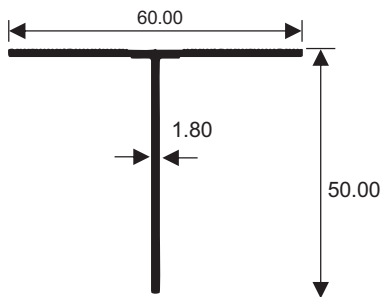
■ 4165

1.650Kg/m



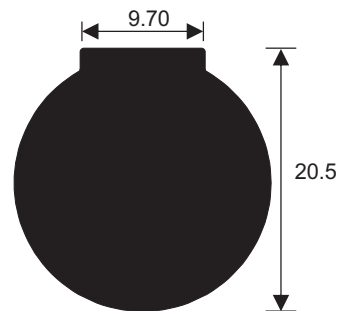
■ 3022

0.501Kg/m



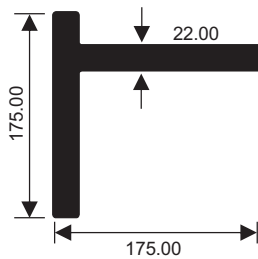
■ 4180

0.872Kg/m



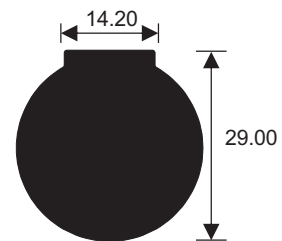
■ 3432

19.476Kg/m



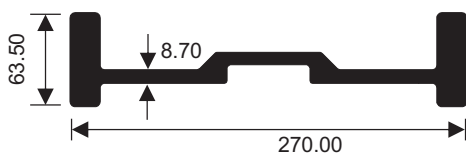
■ 4192

1.647Kg/m



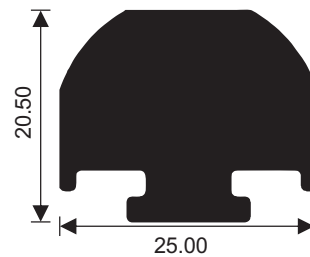
■ 3433

12.958Kg/m



■ 5424

1.101Kg/m





# MACHINE COMPONENTS

■ 5423

0.369Kg/m



■ 5714

3.673Kg/m



■ 5447

33.952Kg/m



■ 5716

10.163Kg/m



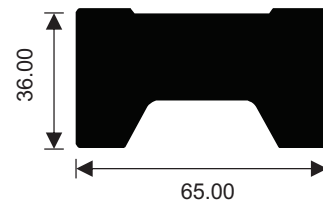
■ 5448

28.471Kg/m



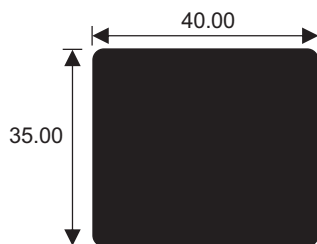
■ 6857

5.066Kg/m



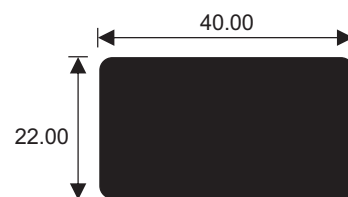
■ 5363

3.789Kg/m



■ 5364

2.380Kg/m

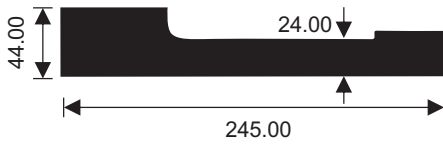




# MACHINE COMPONENTS

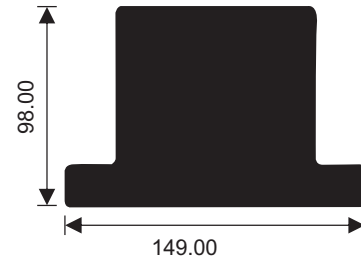
■ 7004

20.233Kg/m



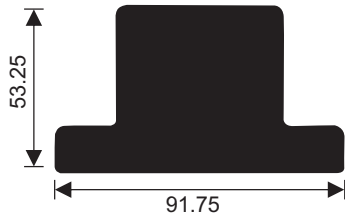
■ 7009

28.796Kg/m



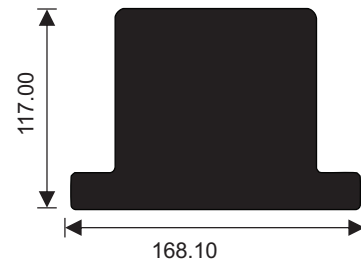
■ 7006

9.202Kg/m



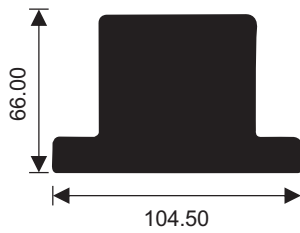
■ 7010

39.868Kg/m



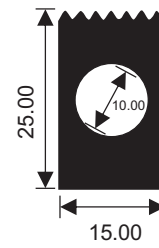
■ 7007

13.307Kg/m



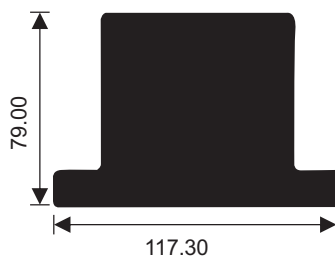
■ 9648

0.777Kg/m



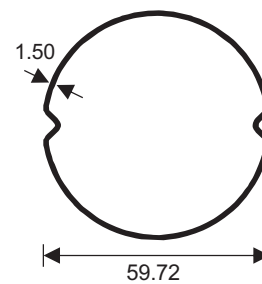
■ 7008

18.389Kg/m



■ 8847

0.769Kg/m

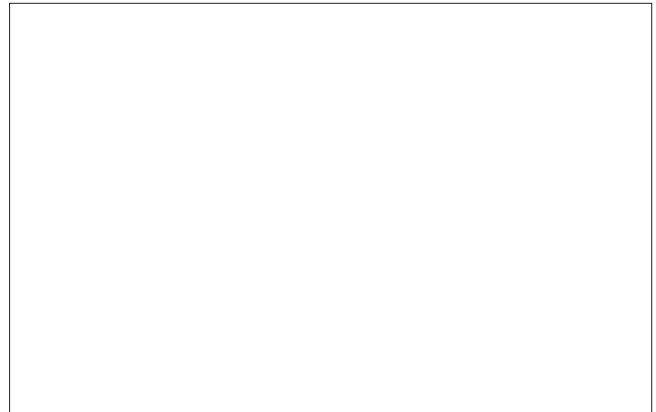
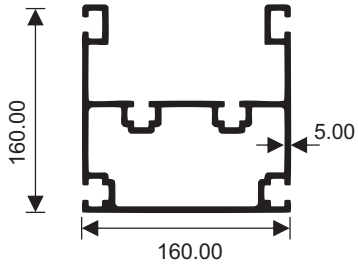




# MACHINE COMPONENTS

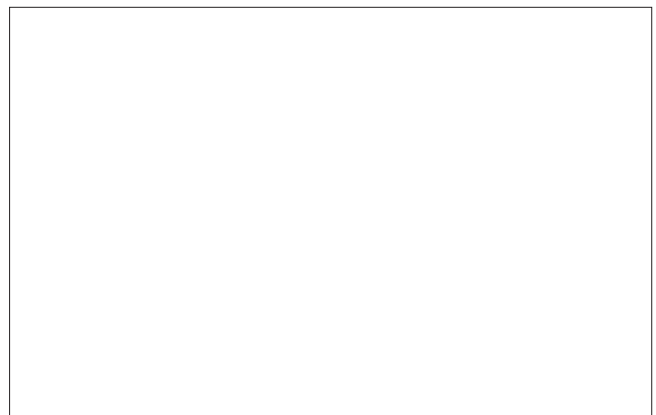
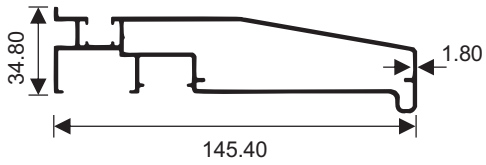
■ 85044

11.706Kg/m



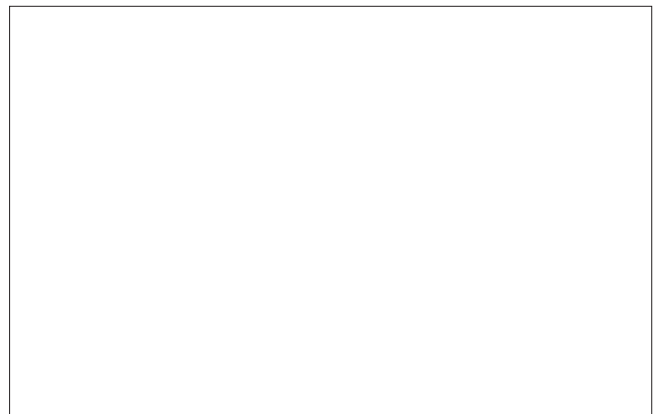
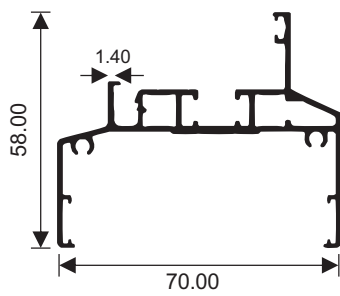
■ 85069

1.961Kg/m



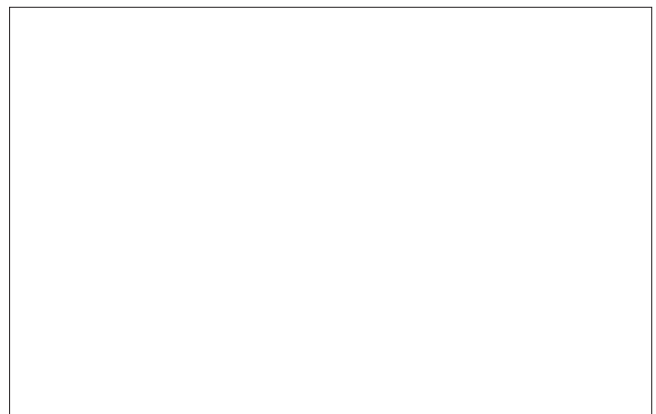
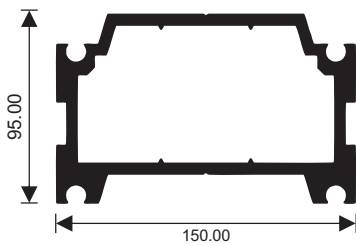
■ 85070

1.029Kg/m



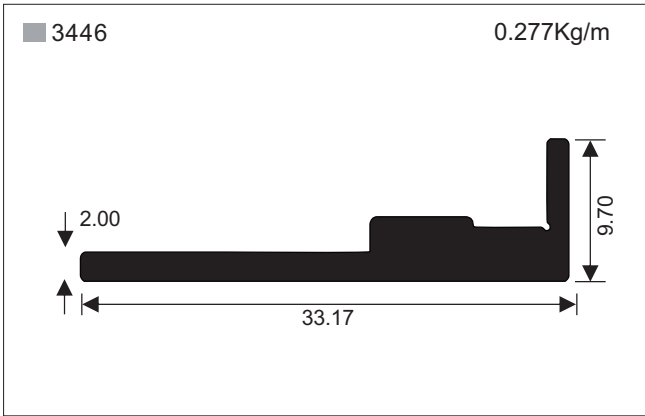
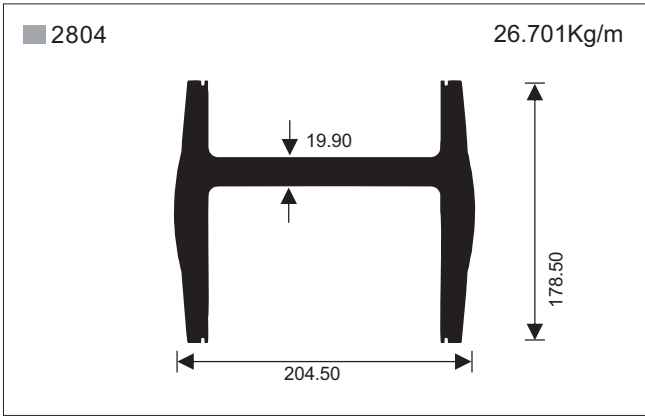
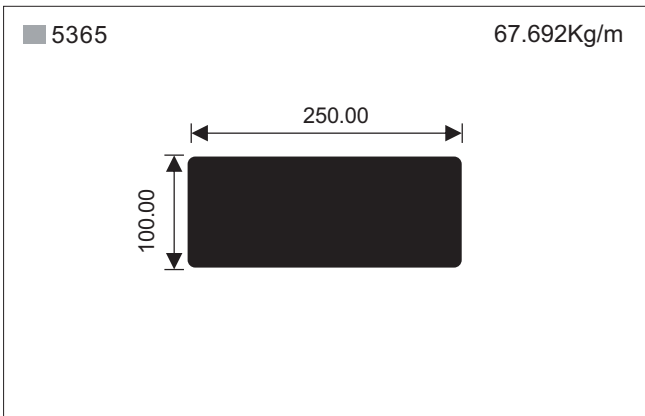
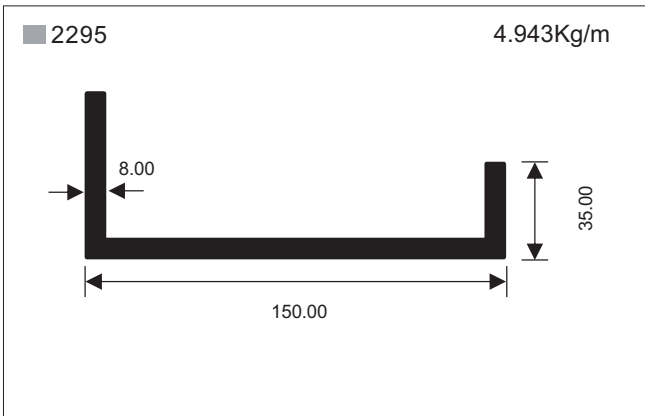
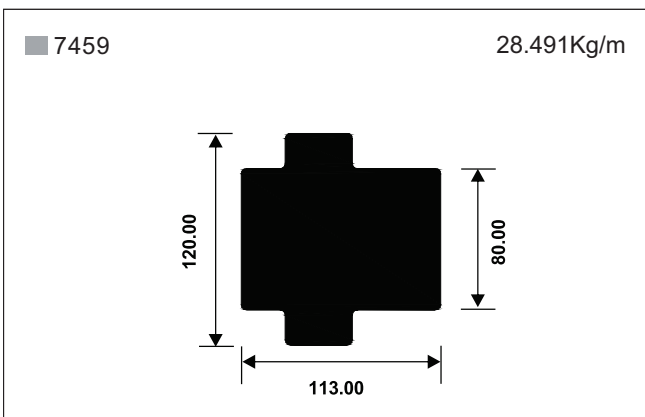
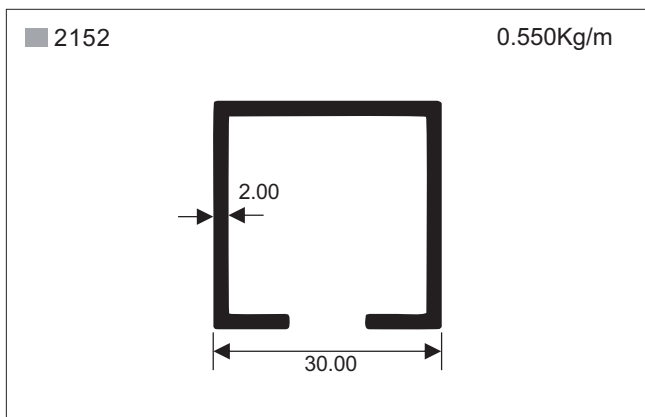
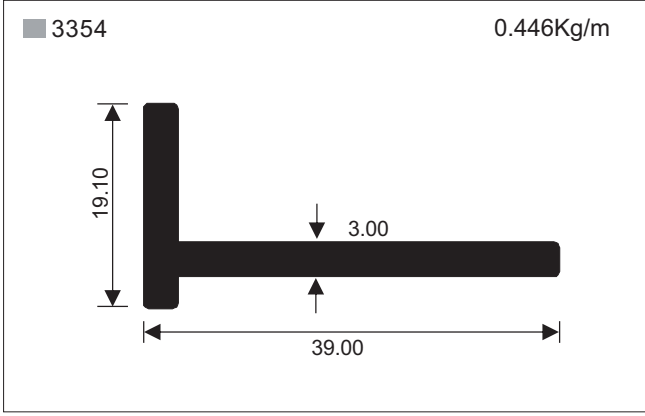
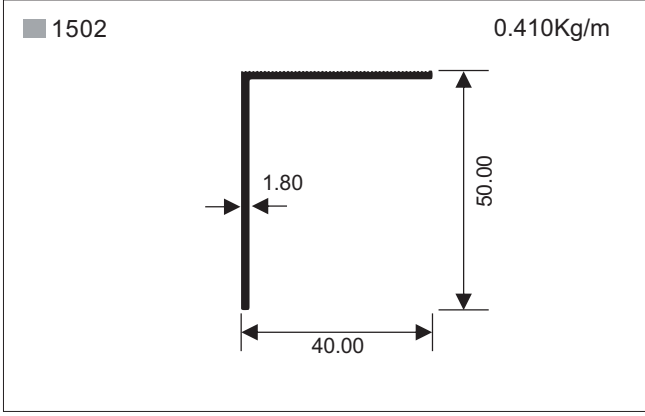
■ 85151

9.336Kg/m





# MISCELLANEOUS INDUSTRIAL

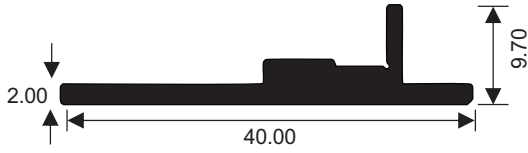




# MISCELLANEOUS INDUSTRIAL

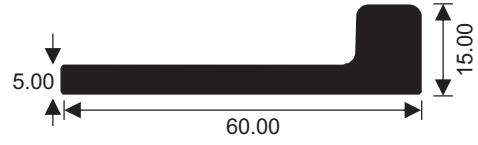
■ 3447

0.314Kg/m



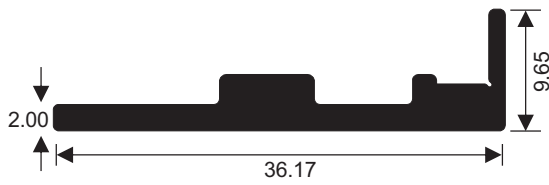
■ 6026

1.104Kg/m



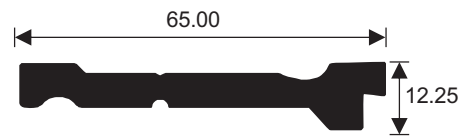
■ 3448

0.299Kg/m



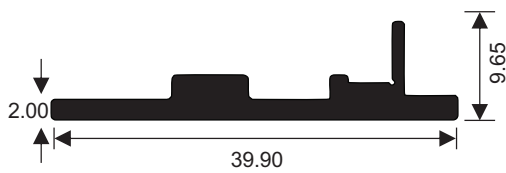
■ 6419

1.204Kg/m



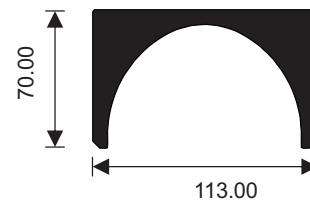
■ 3449

0.324Kg/m



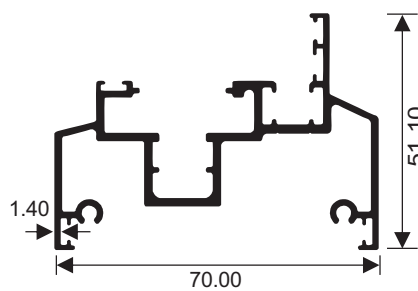
■ 5605

8.108Kg/m



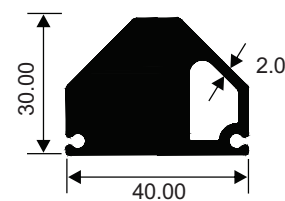
■ 4119

1.214Kg/m



■ 85524

2.14Kg/m



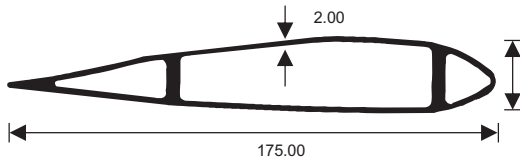
Pinned bar



# MISCELLANEOUS INDUSTRIAL

■ 85410

2.43Kg/m



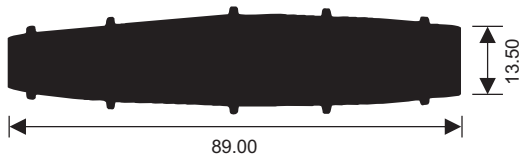
■ 5428

3.724Kg/m



■ 3634

3.899Kg/m



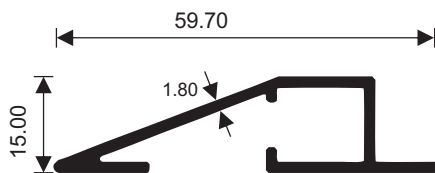
■ 5429

1.490Kg/m



■ 5407

0.517Kg/m



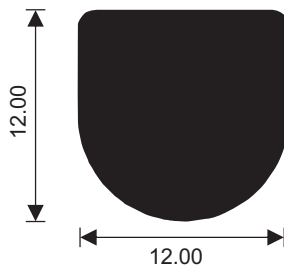
■ 5511

28.472Kg/m



■ 5427

0.346Kg/m



■ 5512

33.953Kg/m



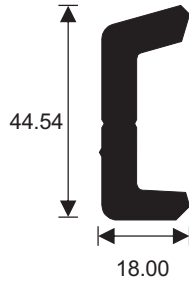




# MISCELLANEOUS INDUSTRIAL

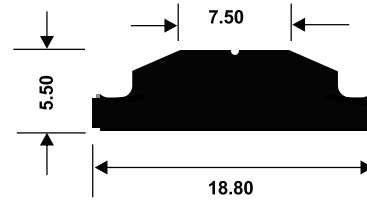
■ 6438

1.124Kg/m



■ 6572

0.224Kg/m



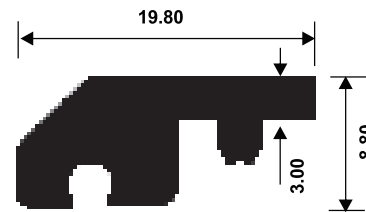
■ 85188

15.452Kg/m



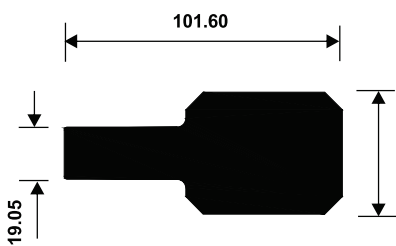
■ 6753

0.299Kg/m



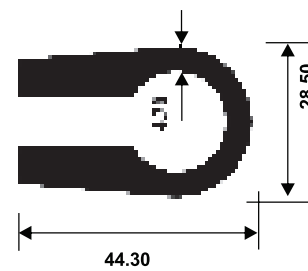
■ 6459

8.938Kg/m



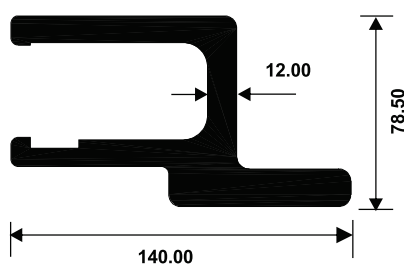
■ 6784

1.655Kg/m



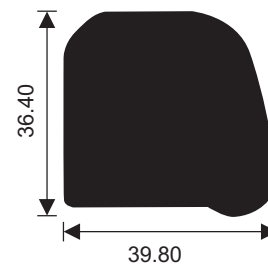
■ 6485

9.946Kg/m



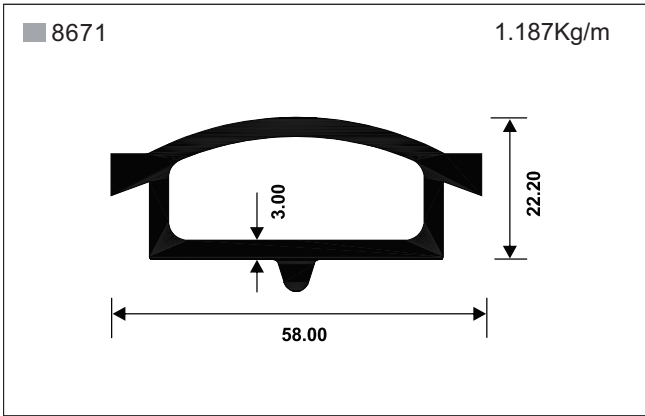
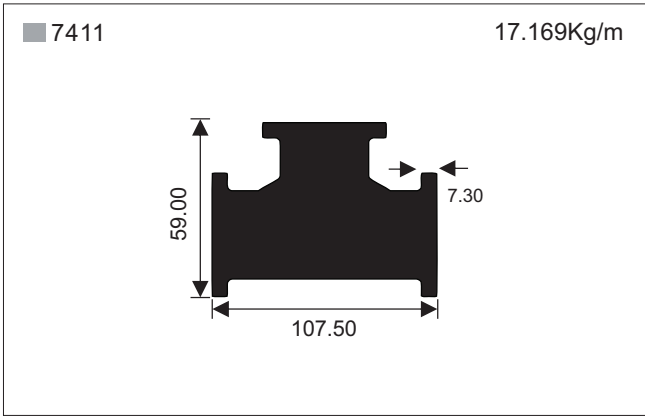
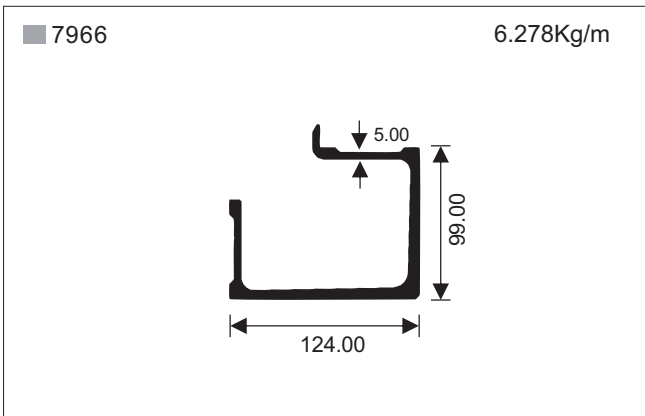
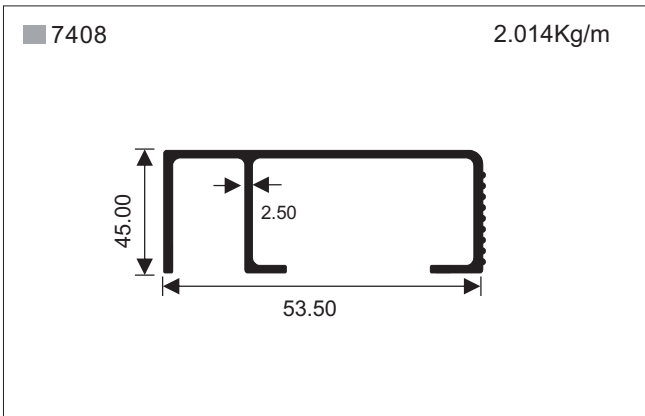
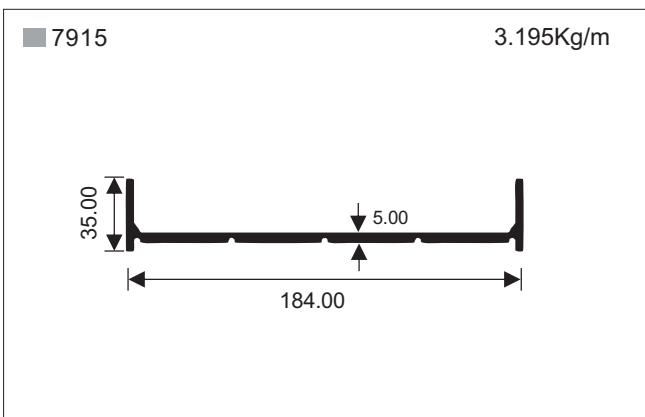
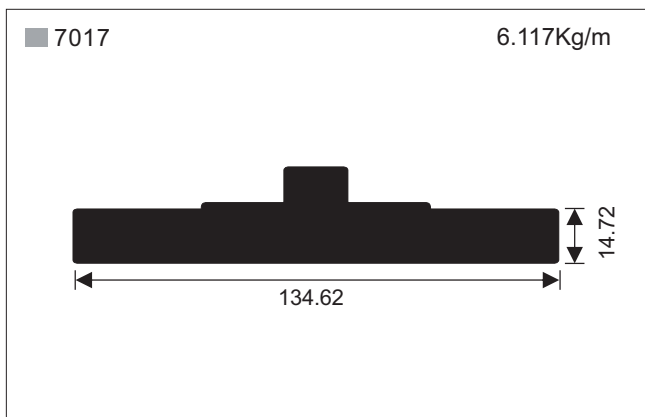
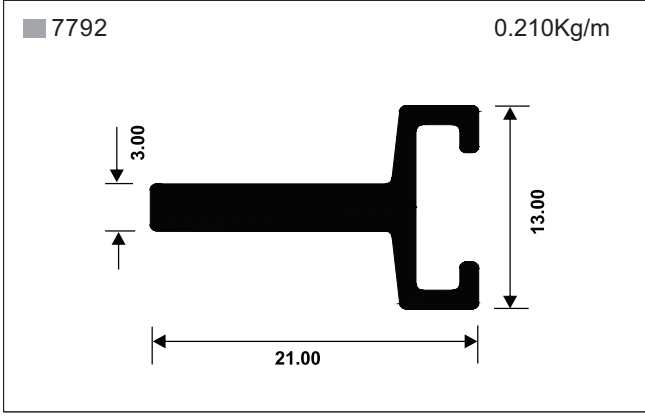
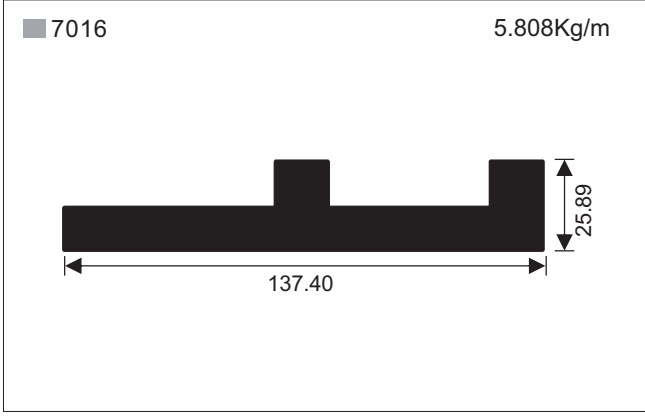
■ 7001

3.564Kg/m



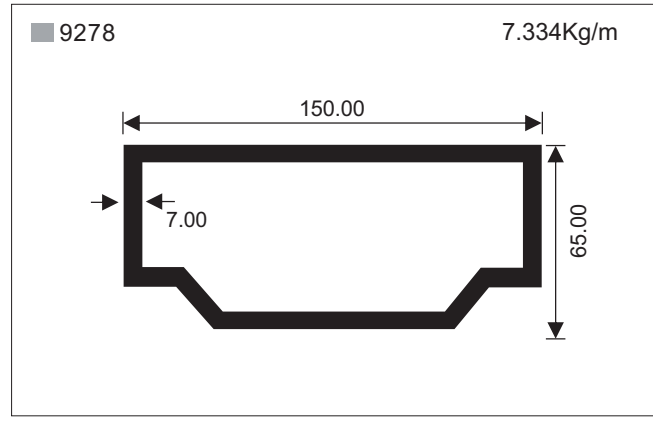
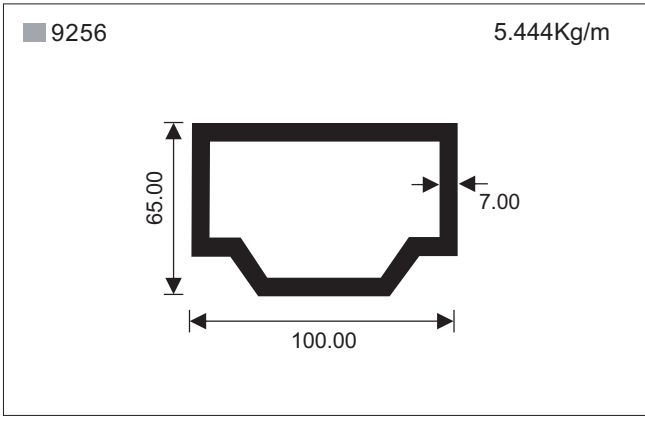
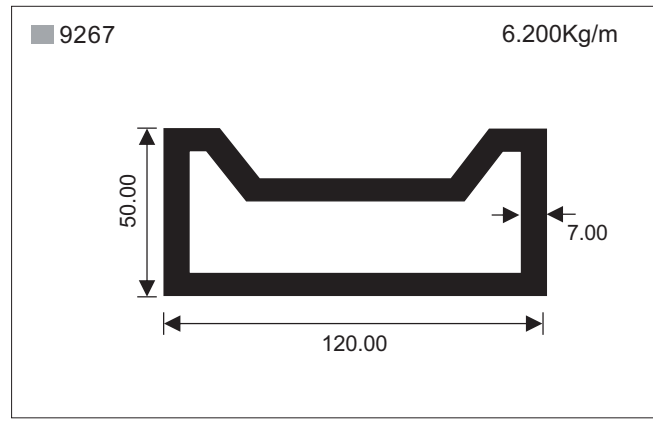
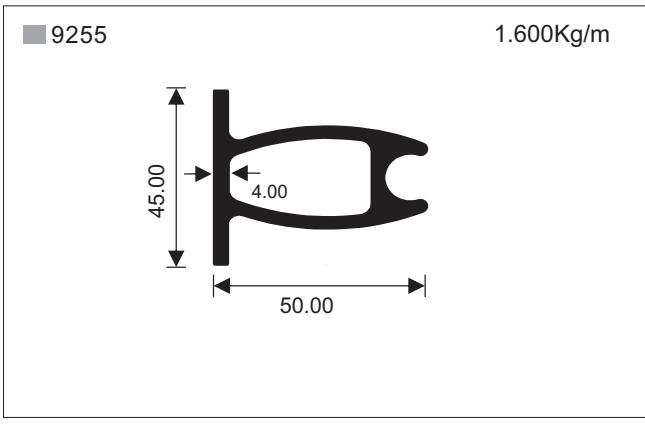
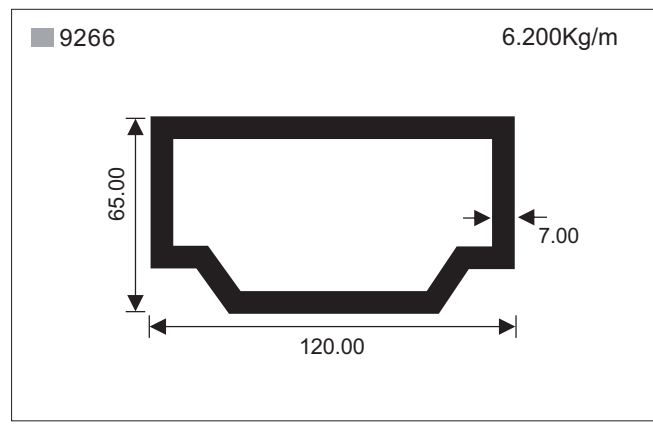
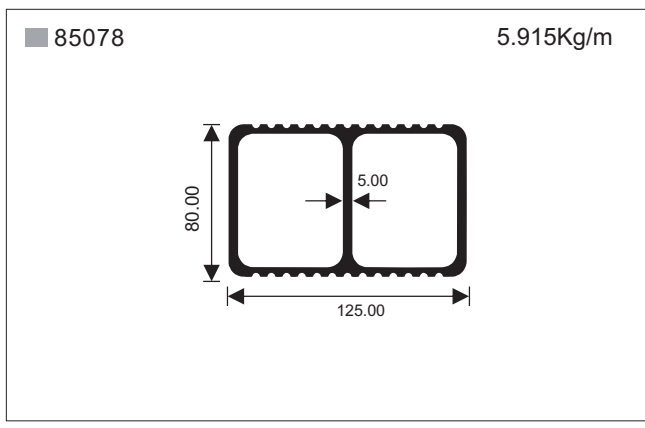
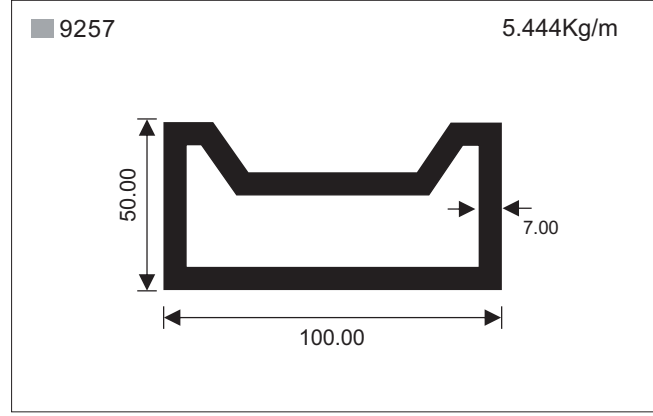
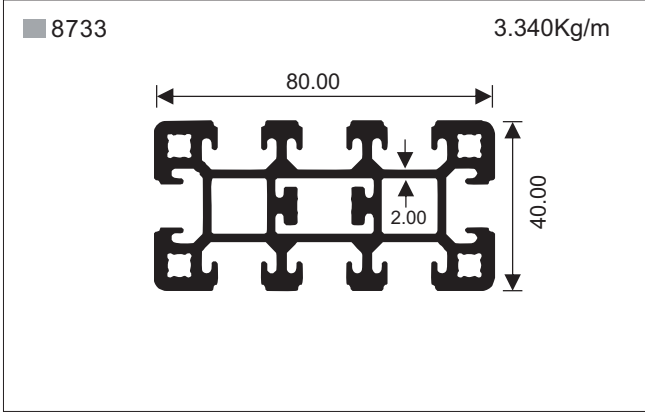


# MISCELLANEOUS INDUSTRIAL





# MISCELLANEOUS INDUSTRIAL

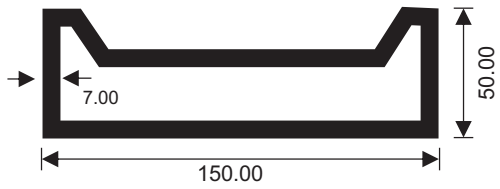




# MISCELLANEOUS INDUSTRIAL

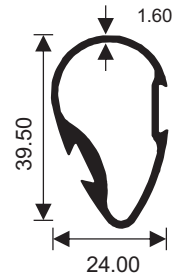
■ 9279

7.334Kg/m



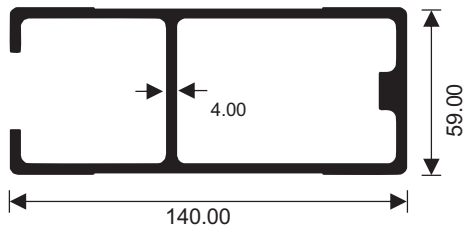
■ 9945

0.526Kg/m



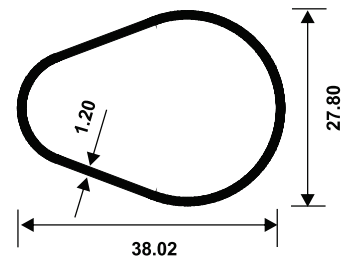
■ 9292

4.418Kg/m



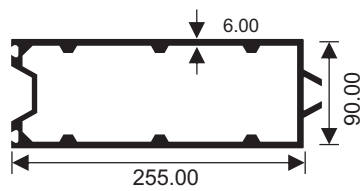
■ 9955

0.323Kg/m



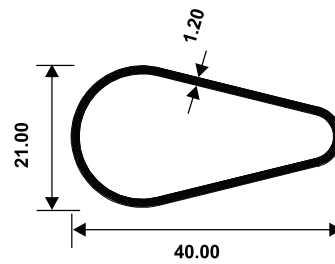
■ 9451

12.310Kg/m



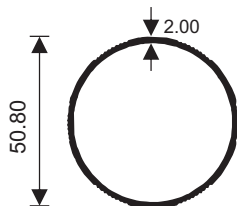
■ 9986

0.307Kg/m



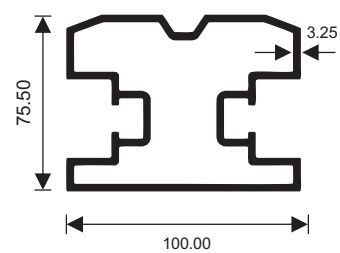
■ 8506

0.777Kg/m



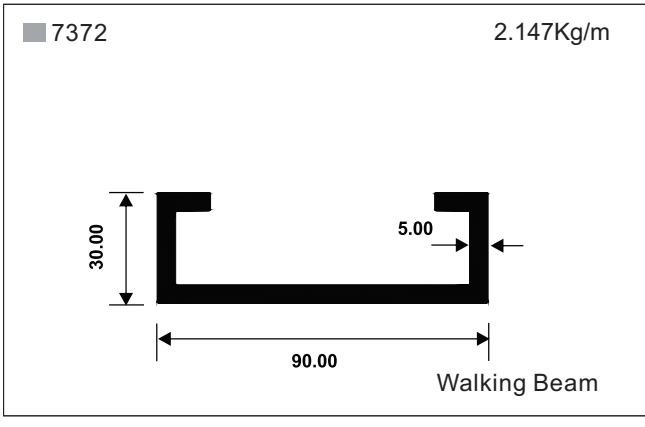
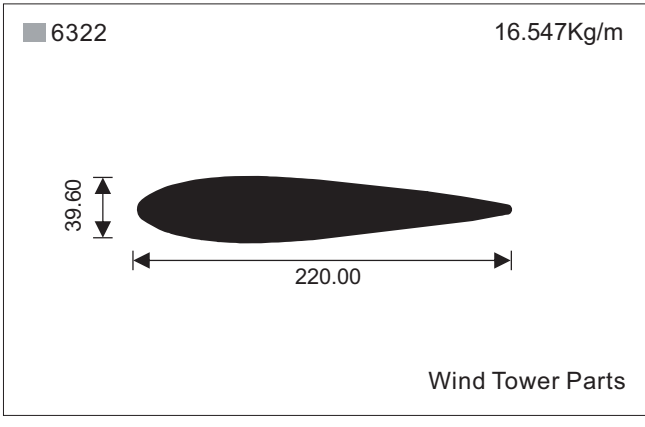
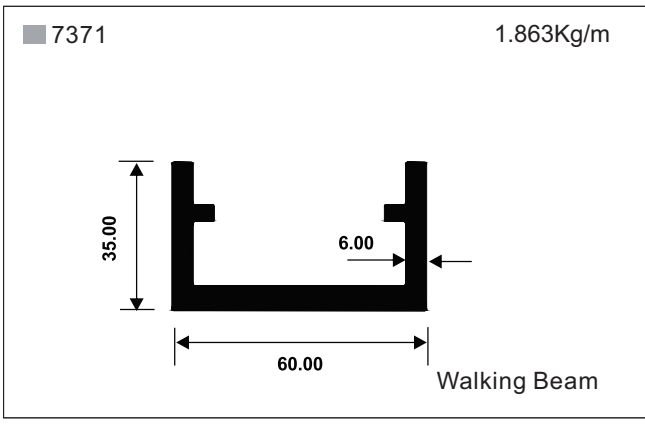
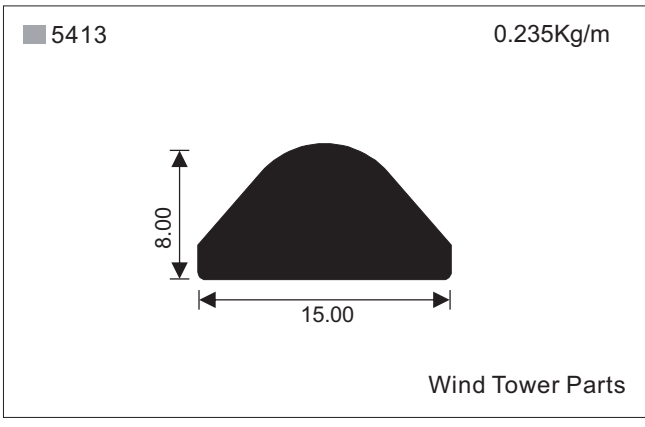
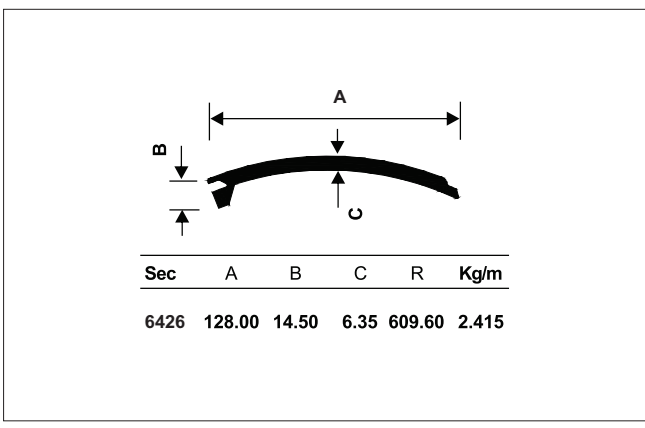
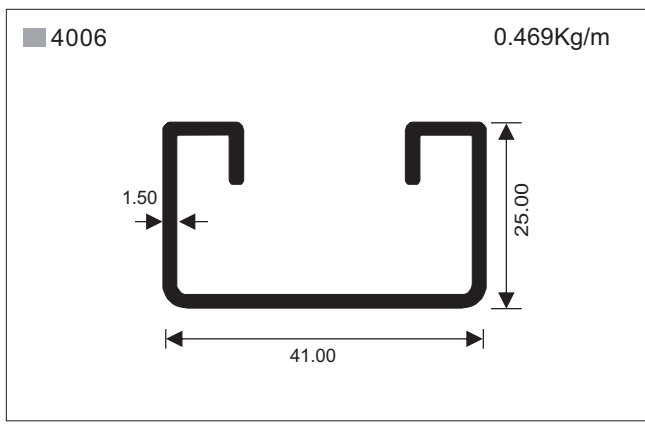
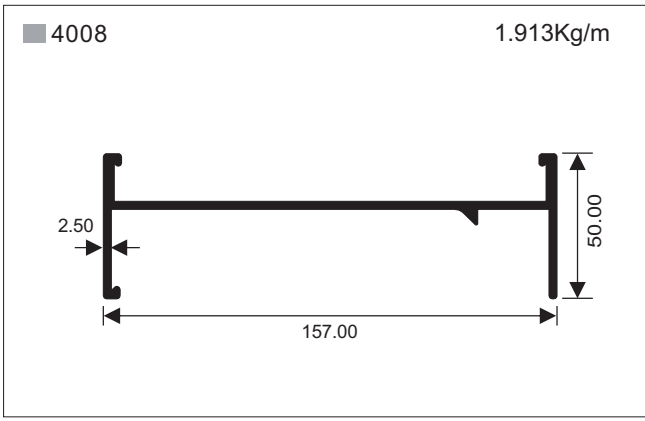
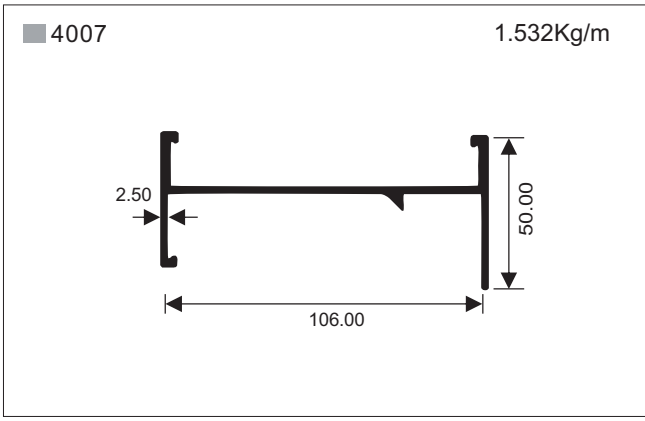
■ 85112

4.21Kg/m



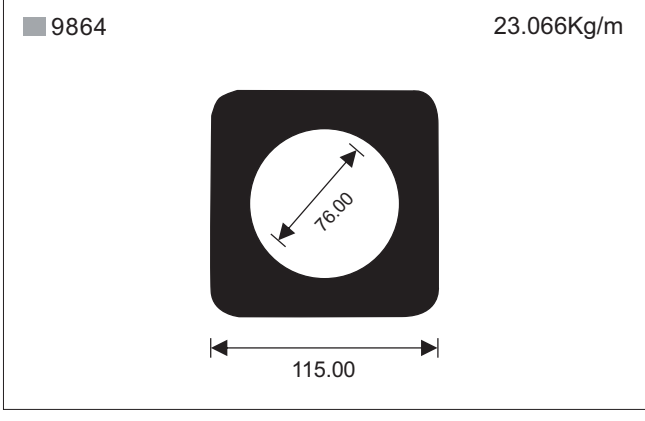
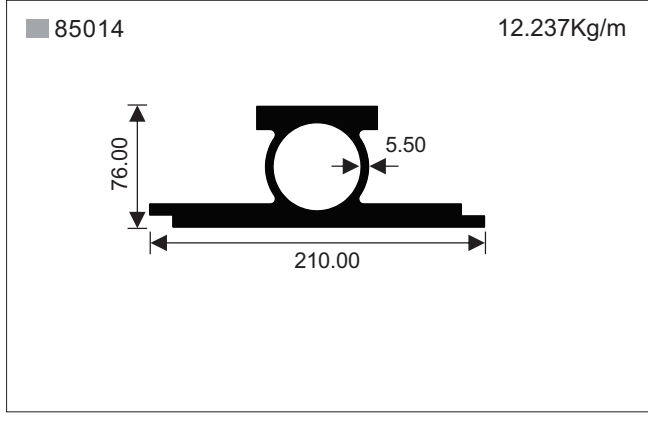
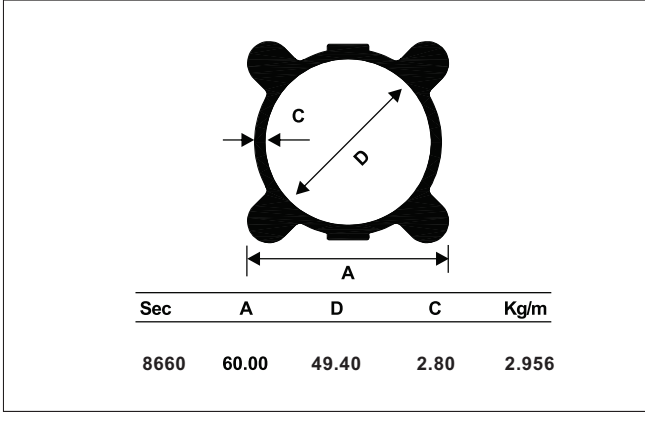
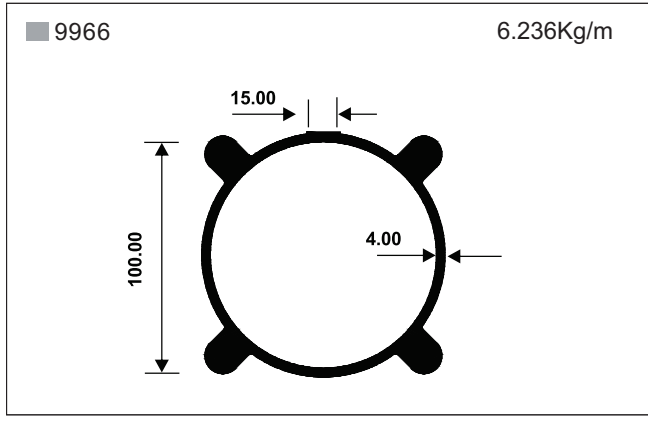
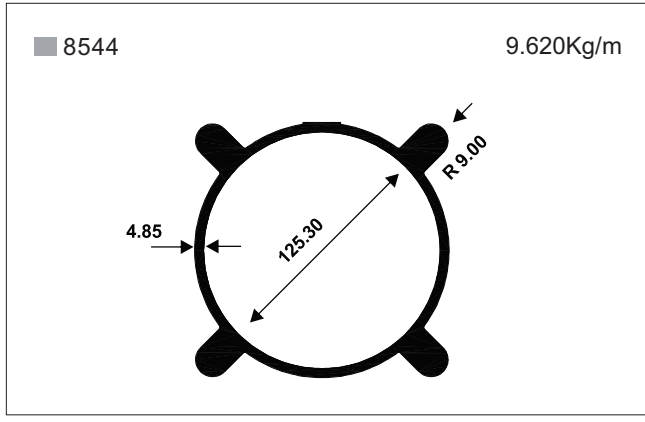
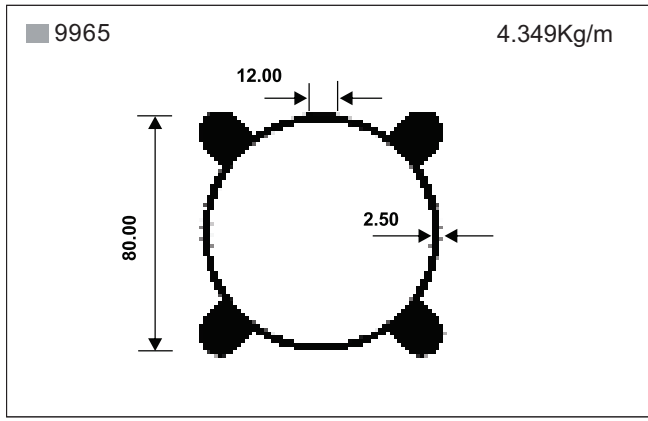
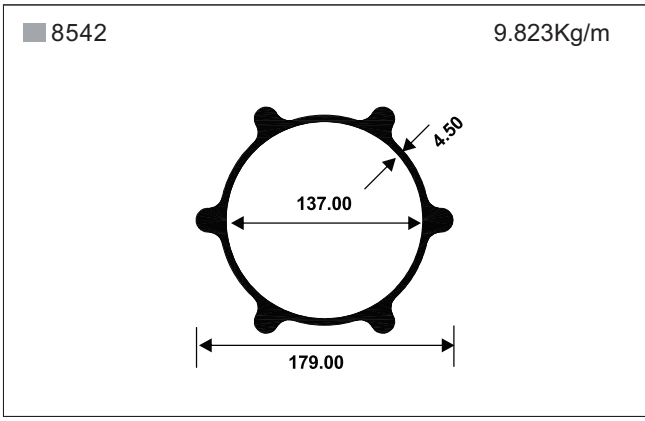


# MISCELLANEOUS INDUSTRIAL





# PNEUMATIC CYLINDERS

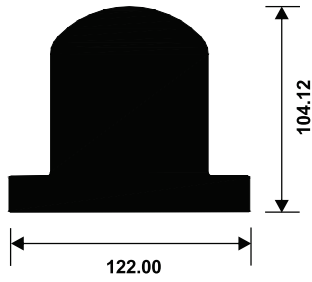




# PUMP BODY

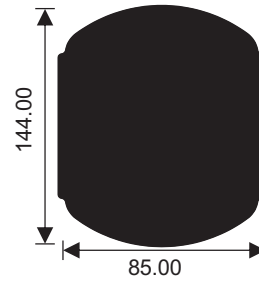
7005

23.26Kg/m



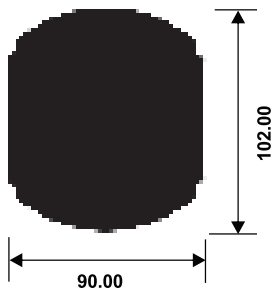
7226

42.341Kg/m



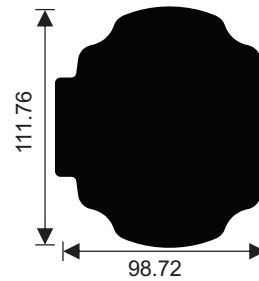
7223

21.658Kg/m



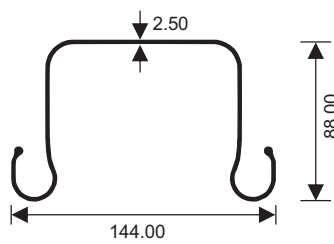
7342

23.712Kg/m



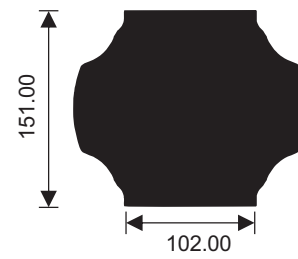
3716

2.409Kg/m



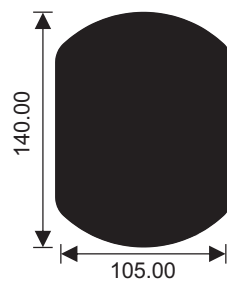
7567

59.169Kg/m



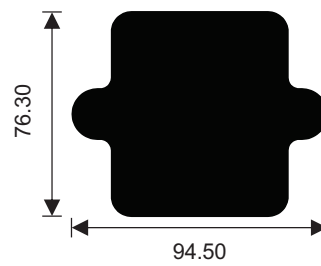
7224

35.514Kg/m



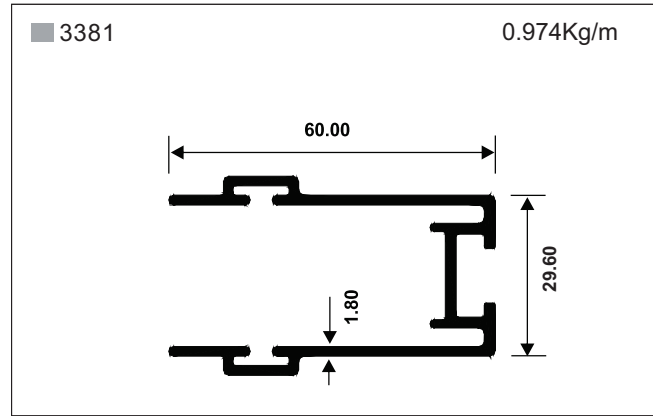
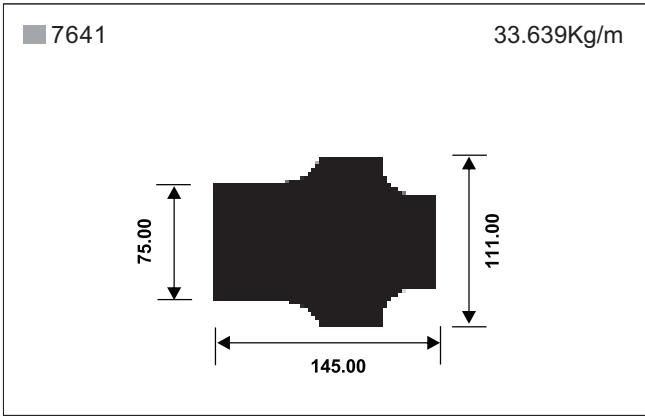
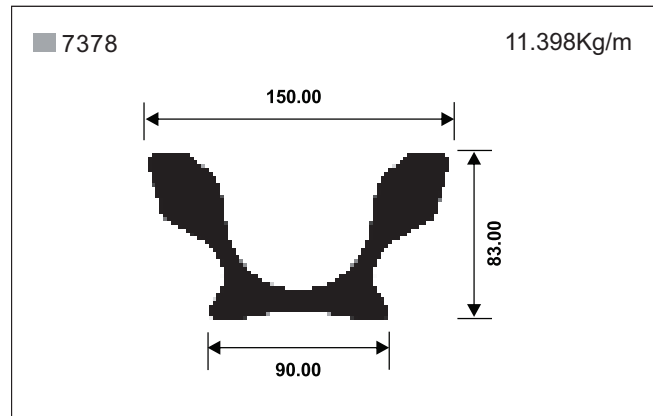
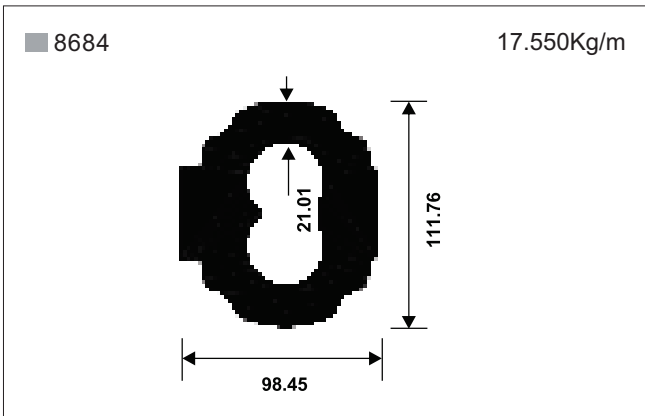
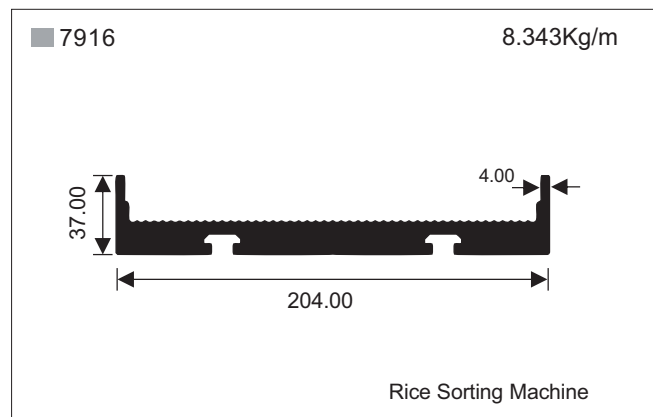
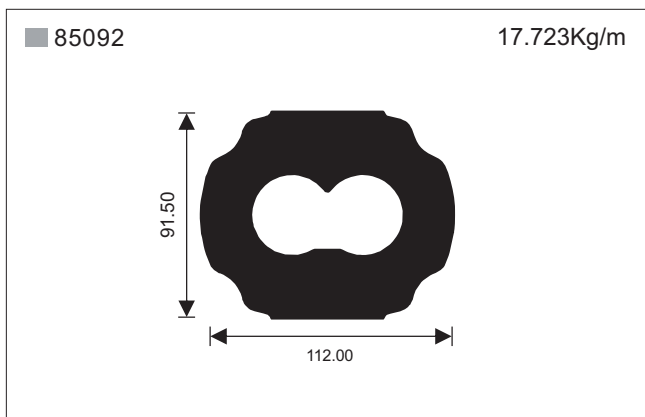
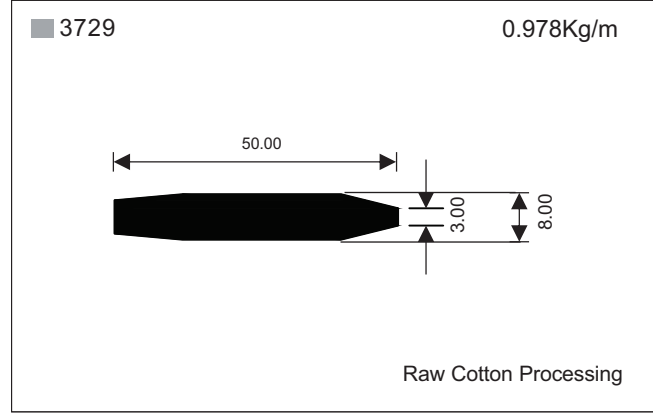
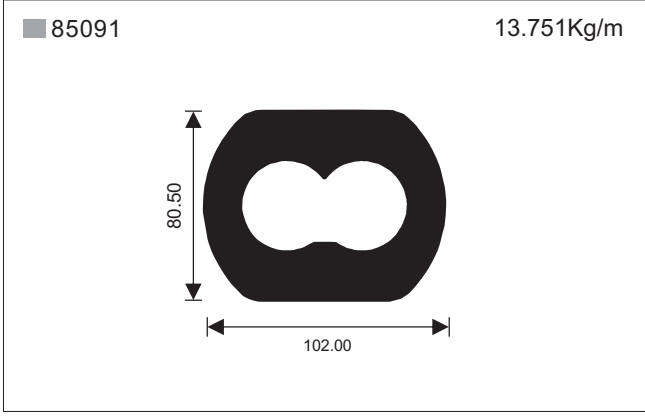
5450

14.733Kg/m





# PUMP BODY



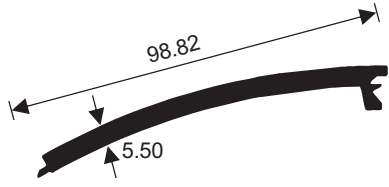




# TEXTILE MACHINERY

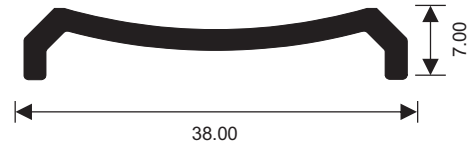
■ 6339

1.494Kg/m



■ 3587

0.252Kg/m



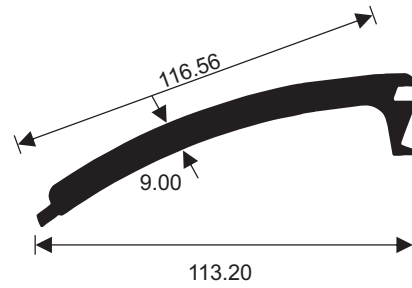
■ 3588

0.716Kg/m



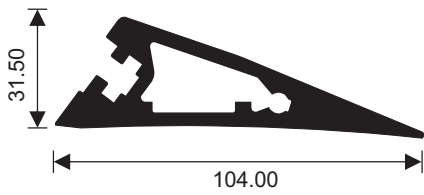
■ 6332

3.066Kg/m



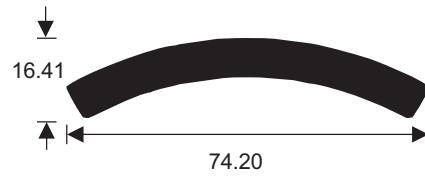
■ 8832

2.764Kg/m



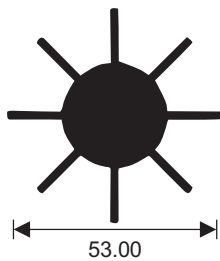
■ 6337

1.597Kg/m



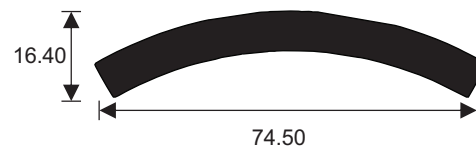
■ 7467

2.017Kg/m



■ 6338

1.511Kg/m

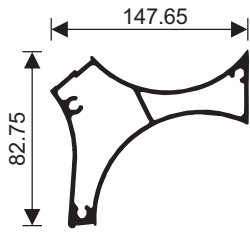




# TEXTILE MACHINERY

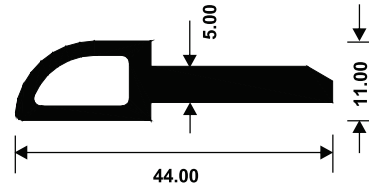
■ 8833

3.479Kg/m



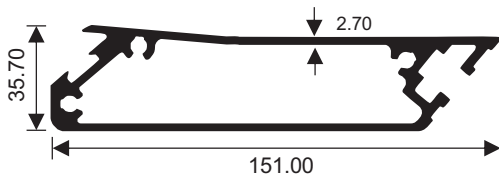
■ 9894

0.607Kg/m



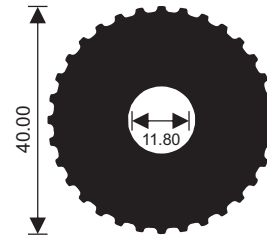
■ 8834

3.254Kg/m



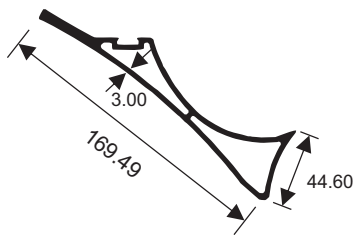
■ 85304

2.910Kg/m



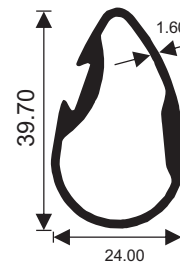
■ 8898

3.275Kg/m



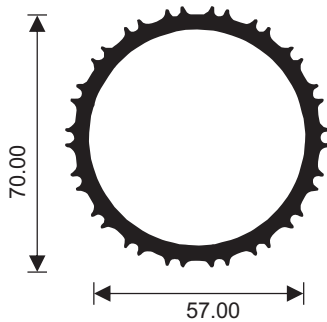
■ 85478

0.576Kg/m



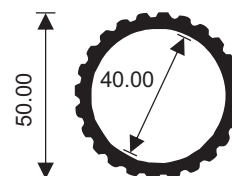
■ 9733

2.447Kg/m



■ 8540

1.650Kg/m

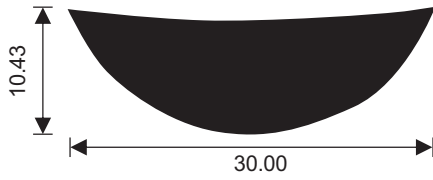




# TEXTILE MACHINERY

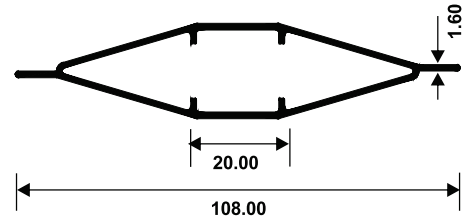
■ 5782

0.551Kg/m



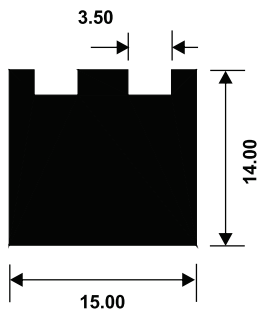
■ 8523

0.830Kg/m



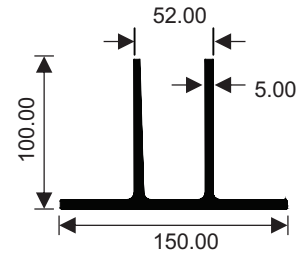
■ 5615

0.529Kg/m



■ 5452

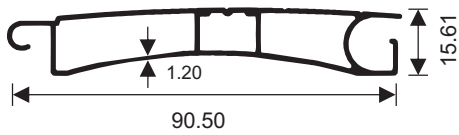
5.008Kg/m



Smoke Vent

■ 9615

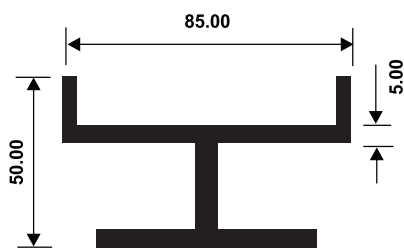
0.762Kg/m



Rolling shutter

■ 2797

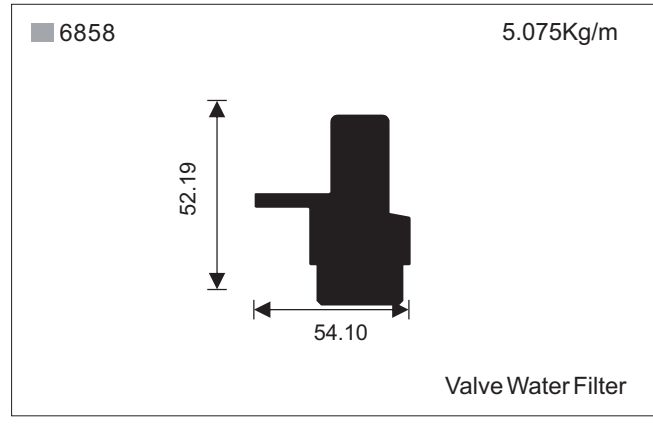
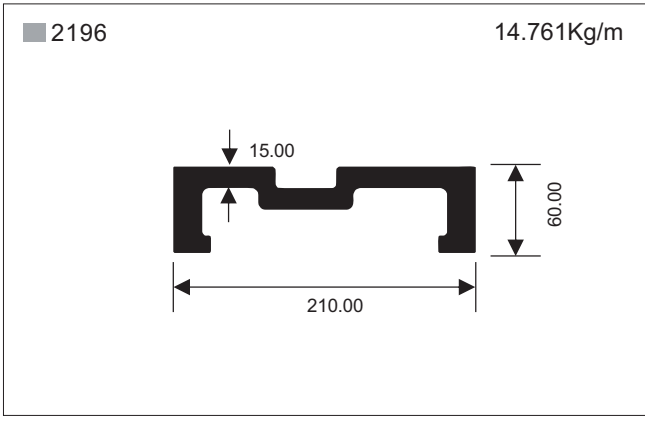
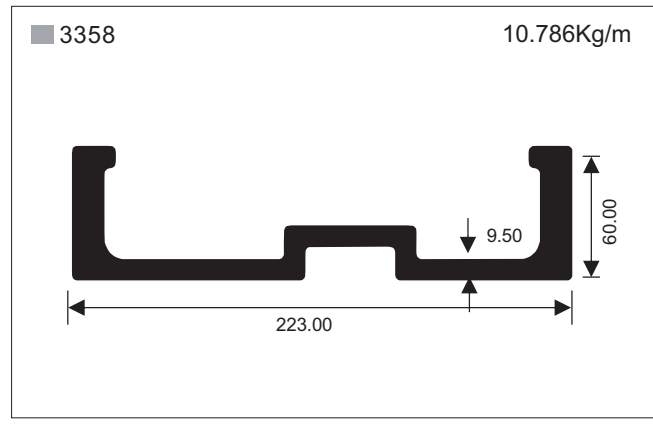
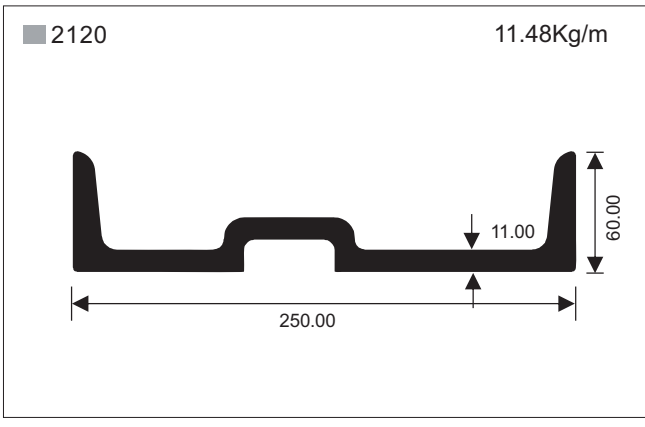
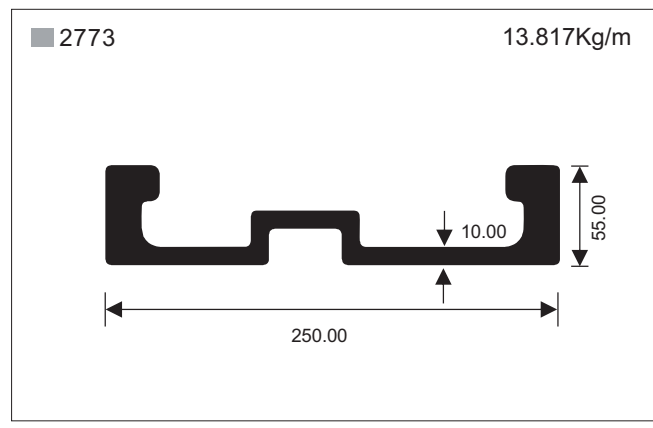
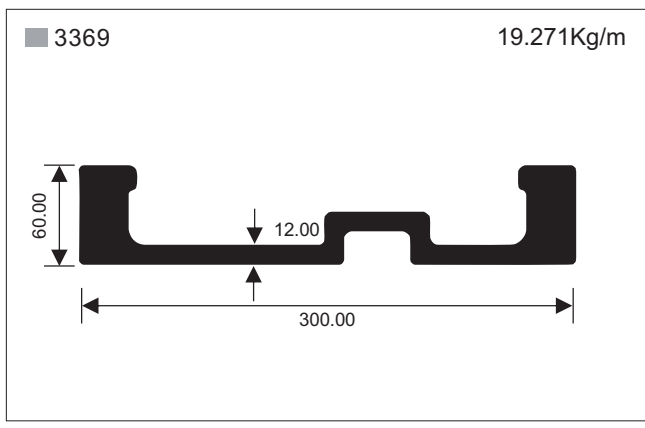
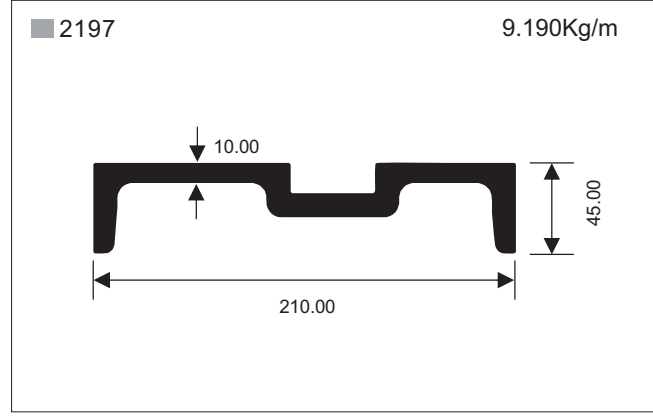
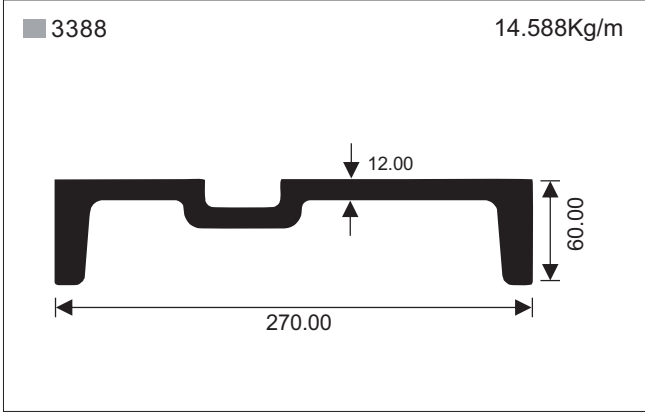
2.835Kg/m



Slat Conveyor



# VULCANIZING MACHINE



# Index



SI No	Sec	Page	SI No	Sec	Page	SI No	Sec	Page	SI No	Sec	Page
1	1502	22	51	5512	24	101	7792	26	151	9652	17
2	2120	36	52	5605	23	102	7915	26	152	9653	16
3	2152	22	53	5615	35	103	7916	32	153	9660	17
4	2196	36	54	5714	19	104	7966	26	154	9733	34
5	2197	36	55	5716	19	105	8255	27	155	9785	17
6	2295	22	56	5782	35	106	8506	28	156	9790	17
7	2356	18	57	6026	23	107	8523	35	157	9802	17
8	2773	36	58	6322	29	108	8540	34	158	9812	17
9	2797	35	59	6332	33	109	8542	30	159	9815	17
10	2804	22	60	6337	33	110	8544	30	160	9818	17
11	3022	18	61	6338	33	111	8574	13	161	9819	17
12	3354	22	62	6339	33	112	8575	13	162	9820	17
13	3358	36	63	6419	23	113	8633	15	163	9821	17
14	3369	36	64	6426	29	114	8634	13	164	9848	17
15	3381	32	65	6438	25	115	8639	17	165	9861	17
16	3388	36	66	6459	25	116	8657	13	166	9864	30
17	3432	18	67	6485	25	117	8658	13	167	9890	17
18	3433	18	68	6572	25	118	8660	30	168	9891	17
19	3446	22	69	6670	16	119	8666	13	169	9894	34
20	3447	23	70	6671	16	120	8667	13	170	9945	28
21	3448	23	71	6672	16	121	8671	26	171	9955	28
22	3449	23	72	6673	16	122	8684	32	172	9965	30
23	3587	33	73	6674	16	123	8733	27	173	9966	30
24	3588	33	74	6753	25	124	8754	13	174	9975	14
25	3634	24	75	6784	25	125	8758	16	175	9986	28
26	3651	16	76	6857	19	126	8832	33	176	85014	30
27	3716	31	77	6858	36	127	8833	34	177	85030	14
28	3729	32	78	7001	25	128	8834	34	178	85031	13
29	4006	29	79	7004	20	129	8847	20	179	85032	13
30	4007	29	80	7005	31	130	8857	14	180	85044	21
31	4008	29	81	7006	20	131	8859	14	181	85069	21
32	4119	23	82	7007	20	132	8898	34	182	85070	21
33	4165	18	83	7008	20	133	8948	17	183	85078	27
34	4180	18	84	7009	20	134	9256	27	184	85091	32
35	4192	18	85	7010	20	135	9257	27	185	85092	32
36	5363	19	86	7016	26	136	9266	27	186	85112	28
37	5364	19	87	7017	26	137	9267	27	187	85117	14
38	5365	22	88	7223	31	138	9278	27	188	85151	21
39	5407	24	89	7224	31	139	9279	28	189	85188	25
40	5413	29	90	7226	31	140	9451	28	190	85304	34
41	5423	19	91	7342	31	141	9566	17	191	85376	14
42	5424	18	92	7371	29	142	9567	17	192	85377	14
43	5427	24	93	7372	29	143	9574	17	193	85393	14
44	5428	24	94	7378	32	144	9577	17	194	85394	15
45	5429	24	95	7408	26	145	9578	17	195	85395	15
46	5447	19	96	7411	26	146	9579	17	196	85396	15
47	5448	19	97	7459	22	147	9580	17	197	85397	15
48	5450	31	98	7467	33	148	9586	17	198	85398	15
49	5452	35	99	7567	31	149	9615	35	200	85399	15
50	5511	24	100	7641	32	150	9648	20	201.	85400	15
									202	85410	24
									203	85478	34
									204	85524	23
									205	85526	17



### MARKETING HEAD OFFICE

7th floor Birla Centurion,  
Pandurang Budhkar Marg, Worli  
Mumbai - 400 030  
Tel : +91 22 6662 6666, 6261 0555  
Fax: +91 22 2422 7586, 2436 2516  
Email : rajendra.pareek@adityabirla.com

### EXPORTS OFFICE

7th floor Birla Centurion,  
Pandurang Budhkar Marg, Worli  
Mumbai - 400 030  
Tel : +91 22 6662 6666, 6261 0555  
Fax: +91 22 2422 7586, 2436 2516  
Email : manoj.randive@adityabirla.com

### WORKS

P.O. Renukoot, Dist. Sonbhadra,  
Uttar Pradesh - 231 217, India  
Tel: +91-5446-252 079 / 78  
Fax: +91-5446-252 107 / 252 427  
Email: sanjeev.singh@adityabirla.com

P.B. No. 21 Alupuram, Kalamassery,  
Kerala - 683 104, India  
Tel: +91-484-293 2446  
Fax: +91-484-254 1887  
Email: r.sivaramakrishan@adityabirla.com

### REGIONAL OFFICES

#### North

Mindmill Corporate Tower  
24a, Film City  
Sec-16 A,  
Noida- 201301.up.  
Ph. + 91120 6692100  
Fax.91120 6692105  
Email: nutan.singh@adityabirla.com

#### East

Jeevan Deep Building, 1,  
Prafulla Chandra Sen Sarani,  
Kolkata - 700 071, West Bengal  
Tel: +91-33-2280 9710, 2288 6135  
Fax: +91-33-2288 6139  
Email: abhijit.chakraborty@adityabirla.com

#### West

1st floor, Ahura centre,  
82, Mahakali caves road, Andheri (East),  
Mumbai - 400 093, Maharashtra  
Tel: +91-22-6691 7000 / 7031  
Fax: +91-22-6691 7070/7050  
Email: ashish.nema@adityabirla.com

#### South

7th floor, Industry house,  
45 Race Course road,  
Bengaluru - 560 001, Karnataka  
Tel: +91-80-4041 6000  
Fax: +91-80-4041 6060  
Email: ashok.k.kumar@adityabirla.com

### AREA OFFICES

#### Kochi

P.B. No. 21 Alupuram, Kalamassery,  
Kerala - 683 104, India  
Tel: +91 484 293 2445, Fax: +91-484-254 1887  
Email: vivek.jacob@adityabirla.com

#### Chennai

Flat 2A, 2nd Floor, Appex Plaza, 3,  
Nungambakkam High Road, Chennai 600 034  
Tel: 91-44-2827 2333 / 2343  
Fax: 91-44-2827 4756  
Email: s.sugunaraj@adityabirla.com



[www.hindalco.com](http://www.hindalco.com)