

















PRODUCT CATALOGUE



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OUR VISION

To be the Leading Premium Aluminium Products manufacturer in North East India.

OUR MISSION

To relentlessly pursue excellence in our product quality, never compromise on our standards and spread awareness on the diverse use of Aluminium as a green building material.

OUR VALUES Quality is Our Priority

QUALITY POLICY

We, at HALCO ALUMINIUM, shall aim to achieve and sustain excellence in all our activities.

We are committed to Total Customer Satisfaction by providing products and services which meet or exceed the Customers expectations.

Modernization of the manufacturing facilities, stress on technological innovation and training of employees at all levels shall be a continuous process in HALCO ALUMINIUM.

A motivated workforce with a sense of pride in the organization shall lead us towards Total Quality.

ISO 9001 2008 CERTIFIED



HALCO ALUMINIUM EXTRUSIONS



HALCO Aluminium Extrusions a state of the art manufacturing facility located in the outskirts of Guwahati at Sonapur, Assam has been set up with Imported best in class machineries of its kind, inline with modern manufacturing process. It has a 1000MT Fully automated PLC Controlled Hydraulic Press and semi-automatic material handling line We have a team of experienced and dedicated technical personals to look into every aspect of manufacturing process. Our Units are ISO 9001 2008 certified.

HALCO Aluminium is manufactured from high-quality billets, made out of virgin Aluminium Ingots sourced from internationally reputed companies such as NALCO and HINDALCO only, in a wide range of alloys and shapes. They are used in a wide range of applications in segments like Building & Construction, Electrical & Electronics, Industrial Machinery, Defence & Aerospace, Transportation & Marine and Consumer Durable.

HALCO Aluminium is promoted and managed by the Sureka Group who have an extensive background in Building Materials and Construction Industry, being co-partners in DELTA Cement one of the most popular cement brands in the region and many prestigious real estate projects in North East India.











Synopsis: This HALCO Extrusions Architectural Profile Catalogue lists the range of profiles manufactured in our plant which are available at the time of printing this catalogue.

Range: The range of extrusions available is constantly changing and enquiries for shapes not listed can be made through any of our sales offices.

Shape :All dimensions are expressed in millimeters (mm). Fully dimensioned die drawings are available from any one of our sales offices which can provide complete details of any section required.

Weight: All profile weights are expressed in kilograms per meter (kg/m).

The Properties of Aluminium: Aluminium has a unique and unbeatable combination of properties that make it a versatile, highly usable and an attractive construction material.

Weight: Aluminium is a light metal with a density of 2,700 kg/m3, one third that of steel. (8,400 kg/m)

Strength: Aluminium is strong with a tensile strength between 70 and 700 MPa, depending on the alloy and design can be as strong as structural steel

Elasticity: The Young's modulus for aluminium (E=69 000 MPa) is a third that of steel. This means that the moment of inertia has to be three times as great for an aluminium extrusion to achieve the same deflection as a steel profile.

and cold condition, a characteristic that is used in full in the extrusion process. Aluminium can also be cast. drawn and rolled.

Machining: Aluminium is very easy to machine. Ordinary fabrication equipment (saws and drills) and machining equipment (lathes and milling machines) can be used

Joining: Aluminium can be joined using all the normal methods available such as welding, brazing, adhesive bonding and riveting.

Corrosion resistance: A thin layer of oxide is formed

when exposed to air. This provides very good protection against corrosion even in corrosive environments. This layer can be further strengthened by surface treatments such as anodising or powder coating.

manufacturing process. Extrusions of the right alloy and Conductivity: The thermal and electrical conductivities are excellent, even when compared with copper Furthermore, an aluminium conductor has only half the weight of an equivalent copper conductor.

Thermal Conductivity: Aluminium thermal conductivity is half that of the equivalent 3 sized copper element (8 900 kg/m3), but has a density (2 700 (kg/m) of less Formability: Aluminium has good formability in both hot than a third of that of the copper element. The equivalent aluminium element therefore comes at less than half the price and is much easier to handle because of the light weight

> Linear expansion: Aluminium has a relatively high coefficient of linear expansion compared to other metals. This should be taken into account at the design stage to compensate for differences in expansion.

Non-toxic : Aluminium is non-toxic and is therefore highly suitable for the preparation and storage of food.

Reflectivity: Aluminium is a good reflector of both light

Aluminium's physical properties compared to other common construction materials.						
	Aluminium 6063	Copper	Steel 371	Plastic		
Strength / Breaking strength (MPa)	225	250	400	50		
Ductility / Expansion (%)	10 to 24	25	20	25		
Elasticity E, Young's modulus (MPa)	69000	125000	210000	3000		
Density (kg/m³)	2700	8900	7800	1400		
Melting point (°C)	600 to 655	1080	1500	80		
Working temperature range (x $10^6/\Omega$ m)	-250 to 150	-200 to 300	-50 to 500	-50 to 80		
Electrical conductivity m/Ohm-mm ²	35	55	7	-		
Heat conductivity (W/mK)	200	400	76	0.15		
Coefficient of linear expansion x 10 ⁻⁶ / ⁰ C	23	17	12	60 to 100		
Non - Magnetic	Yes	Yes	No	Yes		
Weldable	Yes	Yes	Yes	Yes		



Chemical Composition

Alloy (ISS)		Alloy (ISS)		Equivalent alloy (AA)	Co	pper	Magn	esium	Sil	icon	Iron	Mang	anese	Others (Total)	Remarks
Old	New	U.S.A.	Min.	Max.	Min.	Max.	Min.	Max.	Max	Min.	Max.	Max			
1 C	19000	1100	-	0.10	-	-		0.50	0.60	-	0.10	0.10	Aluminium 99.0% Min		
		1200	-	0.05	-	-		Si+Fe	1.0	-	0.05	0.10	Aluminium 99.0% Min		
1 B	19500	1050	-	0.05		-		0.25	0.40	-	0.05	0.10	Aluminium 99.5% Min		
-	19600	1060	-	0.05			-	0.25	0.35	-	0.03	0.10	Aluminium 99.6% Min		
-	19700	1070	-	0.03	-	-		0.20	0.25	-	0.03	0.10	Aluminium 99.7% Min		
H 20	65032	-	0.15	0.40	0.70	1.20	0.40	0.80	0.70	0.20	0.80	0.40	**Cr =0.15-0.35 %		
		6060		0.10	0.35	0.60	0.30	0.60	0.1 to 0.3		0.10	0.40			
	11	6061	0.15	0.40	0.80	1.20	0.40	0.80	0.70	-	0.15	0.40	Chromium 0.04 to 0.3		
H 9	63400	6063	-	0.10	0.40	0.90	0.30	0.70	0.60	-	0.30	0.40	-		
		6082	-	0.10	0.60	1.20	0.70	1.30	0.50	0.40	1.00	0.30	Chromium upto 0.25		
91E	63401	6101	-	0.05	0.40	0.90	0.30	0.70	0.50	-	0.03	0.10	-		
H 30	64430	6351		0.10	0.40	1.20	0.60	1.30	0.60	0.40	1.00	0.30			

^{*} Titanium and/or other grain refining elements
** Either Mn or Cr shall be present

Non- Heat Treatable Alloys							
Alloy AA Old (ISS)	Temper	Ultimate Tensile emper Strength Kg/mm ²		0.2% Proof Stress	Elongation On		
New (ISS)		Min.	Max.	Kg/mm ²	50 mm GL		
100[1C][19000]	0	-	11.0	-	25		
1050[1B][19500]	0	-	10.0	-	25		
1060[19600]	0	-	9.5	-	25		
1070[19700]	0	-	9.5	-	25		
		Heat	Treatable Allo	ys			
	T4[W]	13.3	-	9.2	20		
6060	T6 [WP]	24.9	-	21.9	12		
6063 [H9]	T4[W]	14.0	-	8.0	14		
[63400]	T6 [WP]	19.0	-	15.5	7		
6061 [H20]	M or O		15.0	-	16		
[65032]	T4[W]	19.0	-	11.5	14		
	T6 [WP]	28.5	-	24.0	7		
6351[H30]	M or O	-	15		16		
[64430]	T4[W]	19.0	(2)	12.0	14		
	T6 [WP]	31.5	-	27.5	7		
6101[91E]	T4[W]	14.0		8.0	12		
[63401]	T6 [WP]	20.5		17.0	10		

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.



ANODISED ALUMINIUM

Recommendations for oxide layer thickness by intended use

necommendations for order tayer uncuress by interface use						
MICRON	Use					
25 μm	The surface is subjected to strong influence of corrosion and abrasion					
20 μm	Strong or normal influence outside buildings, e.g. in transport or building industry. Strong chemical influence inside buildings, e.g. in food industry.					
15 μm	Strong influence of abrasion inside and outside buildings in dry and clean atmosphere.					
10 µm	Normal influence inside buildings.					
3-5 μm	Protective anodizing before fabrication, short pickling time.					

SPECIFICATIONS

Finish: All exposed surfaces of aluminium shall receive an architectural anodized finish of 10-25 Microns depending on use (unless a commercial finish is specified). Processing shall be sulfuric acid anodizing with electrolytic deposition of inorganic pigmentation in the coating

Cold Sealing: All aluminium profiles shall be Cold Sealed to make









Etching: Standard etch - medium matte unless specified.

Buffing/Polishing: Buffing is recommended on large surface area profiles to give a better finish, will be done if specified.



DARK BRONZE -AC 5

BLACK - AC 6





Powder coating is easily the most dominant surface treatment method for aluminium profiles and is suitable for both indoor and outdoor use.

Characteristic properties of powder coating

- good weathering resistance
- good adhesive and machinability (in some cases permit product forming after powder coating)
- □excellent UV and corrosion resistance

high colour repeatability

Popular Colours



Custom Colours Available

A part from the above popular colour, we also have a whole range of RAL colours according to the colour scale below:

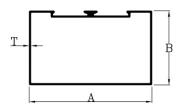


DIE CATALOGUE 2014



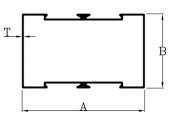


Single Partition



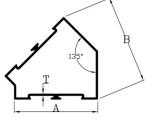
Sec	Α	В	Т	KG/16'
20101	50	25	.75	1.70-1.80
20112	63	38	.95	2.70-3.00
20113	63	38	1.15	3.20-3.30
20114	63	38	1.28	3.40-3.70
20115	63	38	1.40	3.80-4.10
20116	63	38	1.65	4.50-4.80
20117	63	38	3.18	8.50-8.80
20130	101	44	1.21	4.80-5.00
20131	101	44	1.34	5.30-5.50
20132	101	44	1.67	6.50-6.70
20133	101	44	2.10	7.70-7.90
20134	101	44	2.62	10.00-10.20
20135	101	44	3.00	11.30-12.70

Double Partition



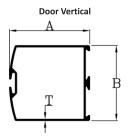
Sec	Α	В	Т	KG/16'
21000	50	25	0.73	1.70-1.80
21112	63	38	0.92	2.70-3.00
21113	63	38	1.10	3.20-3.30
21114	63	38	1.28	3.40-3.70
21115	63	38	1.40	3.80-4.10
21116	63	38	1.73	4.50-4.80
21117	63	38	3.18	8.50-8.80
21131	101	44	1.14	4.80-5.00
21132	101	44	1.26	5.30-5.50
21133	101	44	1.67	6.50-6.70
21134	101	44	2.10	7.70-7.90
21135	101	44	2.52	10.0-10.20
21136	101	44	3.00	11.3-12.70

Samosa Partition

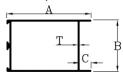


Sec	Α	В	Т	KG/16'
57101	-	-	1.28	5.10-5.30

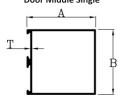




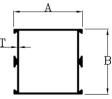
Door Top & Door Bottom



Door Middle Single



Door Middle Double



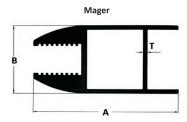
Sec	Α	В	Т	KG/14'
22101	47.60	44.45	1.10	2.70-2.90
22102	47.60	44.45	1.35	3.20-3.40
22103	47.60	44.45	1.50	3.50-3.70
22104	47.60	44.45	1.82	4.10-4.20
22111	85.00	44.45	1.25	4.10-4.30
22112	85.00	44.45	1.40	4.50-4.70
22113	85.00	44.45	1.65	5.20-5.50
22114	85.00	44.45	2.54	7.60-7.80

Sec	Α	В	Т	KG/16'
23101	47.60	44.45	1.02	2.70-3.00
23102	47.60	44.45	1.55	3.90-4.10
23103	47.60	44.45	2.15	5.10-5.30
23111	85.25	44.45	1.35	4.70-5.00
23112	85.25	44.45	1.70	5.70-6.00
23130	95.25	44.45	2.00	7.10-7.30
23131	101.60	44.45	1.25	4.80-5.30
23132	114.30	44.45	1.02	4.50-5.00
23133	114.30	44.45	2.15	8.80-9.20

Sec	Α	В	Т	KG/16'
27101	47.60	44.45	1.03	2.70-3.00
27102	85.00	44.45	1.50	4.50-4.70

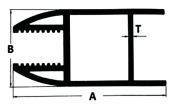
Sec	Α	В	Т	KG/16'
28101	47.60	44.45	1.50	3.20-3.50
28111	85.00	44.45	1.18	4.50-4.90
28121	101.00	44.45	1.95	7.70-8.00





Sec	Α	В	Т	WT.(kg)/16'	
36202	88.00	40.00	2.50	10.40-11.40	

Mager Hollow

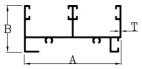


Sec	Α	В	Т	WT.(kg)/16'
36201	88.00	40.00	2.65	10.00-10.80



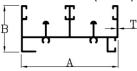


Two Track Top (Window)



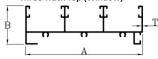
Sec	Α	В	Т	KG/16'
29101	62.00	30.00	0.85	2.30-2.50
29102	62.00	30.00	1.12	2.70-2.90
29103	62.00	30.00	1.30	3.00-3.50
29104	62.00	30.00	1.50	3.50-3.70

Two Track Bottom (Window)



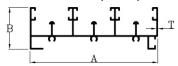
Sec	Α	В	Т	KG/16'
30101	62.00	30.00	0.85	2.70-3.00
30102	62.00	30.00	1.30	3.00-3.20
30103	62.00	30.00	1.50	3.30-3.50

Three Track Top (Window)



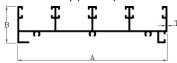
Sec	Α	В	Т	KG/16'	
31101	92.00	30.00	0.85	3.00-3.20	
31102	92.00	30.00	0.90	3.30-3.50	
31103	92.00	30.00	1.00	3.70-3.90	
31104	92.00	30.00	1.20	4.10-4.30	
31105	92.00	30.00	1.50	5.20-5.35	

Three Track Bottom (Window)



Sec	Α	В	Т	KG/16'
32100	92.00	30.00	0.84	3.40-3.60
32101	92.00	30.00	0.92	4.00-4.40
32102	92.00	30.00	1.20	4.50-4.70
32103	92.00	30.00	1.50	5.90-6.20

Four Track Top (Window)



Sec	Α	В	Т	KG/16'
33101	123.00	30.00	1.27	5.90-6.10

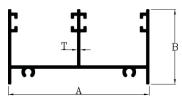
Four Track Bottom (Window)



Sec	Α	В	Т	KG/16'
33121	123.00	30.00	1.27	6.60-7.00

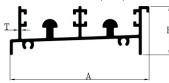


Two Track Top (Door)



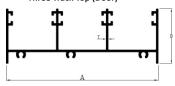
Sec	Α	В	т	KG/16'	
29121	82.80	44.00	1.80	6.00-6.30	

Two Track Bottom (Door)



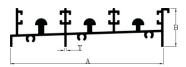
Sec	Α	В	Т	KG/16'
30121	92.60	32.00	1.90	7.50-7.70

Three Track Top (Door)



Sec	Α	В	Т	KG/16'
31121	123.20	44.00	1.75	8.40-8.60

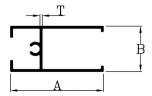
Three Track Bottom (Door)



Sec	Α	В	Т	KG/16'
32121	128.00	32.00	1.75	10.60-10.90

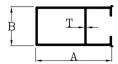


Shutter Window



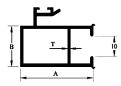
Sec	Α	В	Т	KG/16'
26101	41.00	20.00	0.90	1.40-1.60
26102	41.00	20.00	1.01	1.60-1.80
26103	41.00	20.00	1.50	2.20-2.30

Handle Window



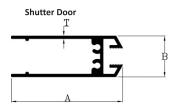
Sec	Α	В	Т	KG/16'
24101	39.00	20.00	1.00	1.60-1.70
24102	39.00	20.00	1.11	1.70-1.80
24103	39.00	20.00	1.21	1.90-2.00
24104	39.00	20.00	1.48	2.30-2.40

Interlock Window



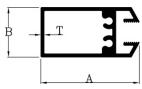
Sec	Α	В	Т	WT.(kg)/16'
25101	39.00	20.00	0.85	1.70-1.90
25102	39.00	20.00	1.00	2.00-2.20
25103	39.00	20.00	1.20	2.30-2.50
25104	39.00	20.00	1.50	2.90-3.10





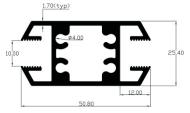
Sec	Α	В	Т	KG/16'
34101	69.00	25.40	1.78	4.90-5.10

Door Handle



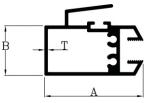
Sec	Α	В	Т	KG/16'
35101	50.80	25.40	1.68	4.30-4.50

Door Handle Double



Sec	Α	В	Т	KG/16'	
35201	50.80	25.40	2.00	5.40-5.70	

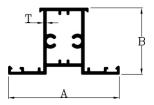
Door Interlock



Sec	Α	В	Т	KG/16'
36101	50.80	25.40	1.45	4.80-5.00

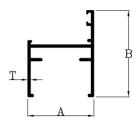


Mullion 34 Series



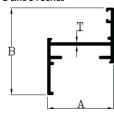
Sec	Α	В	Т	KG/16'
42101	57.00	34.00	1.25	3.30-3.50
42102	57.00	34.00	1.45	3.75-4.00

H-Line (Outer) 34 Series



Sec	Α	В	Т	KG/16'	
43101	34.00	44.50	1.15	2.00-2.20	
43102	34.00	44.50	1.30	2.40-2.60	

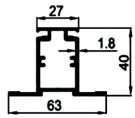
Z-Line 34 Series



Sec	Α	В	Т	KG/16'	
44101	34.00	44.50	1.50	2.10-2.40	

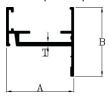


Mullion 40 Series



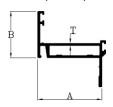
Sec	Α	В	Т	KG/16'
45101	63.00	40.00	1.50	4.30-4.60
45102	63.00	40.00	1.90	5.10-5.30

H-Section (40 Series)



Sec	Α	В	Т	KG/16'
47101	40.00	40.60	1.40	3.00-3.20
47102	40.00	40.60	2.50	4.00-4.30

Z-Hollow (40 Series)



Sec	Α	В	Т	WT.(kg)/16'
47201	47.20	40.00	1.40	3.00-3.20
47202	47.20	40.00	2.00	4.00-4.20

Mazda



Sec	Α	В	Т	KG/16'
49101	40	17	3.00	2.60-2.90



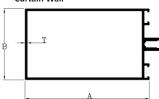




Sec	W	Т	KG/12'
56101	20.00	5.00	0.95
56102	25.00	5.00	1.20
56103	30.00	5.00	1.45
56104	25.00	6.00	1.50
56105	38.00	6.00	2.20
56106	50.00	6.00	3.00
56107	25.00	10.00	2.45
56108	30.00	10.00	2.90
56109	40.00	10.00	3.90
56110	60.00	10.00	5.80
56111	80.00	10.00	7.90

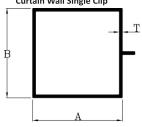


Curtain Wall



Sec	Α	В	Т	KG/16'
38101	50.80	50.80	1.30	5.00-5.30
38102	50.80	50.80	1.91	6.30-6.60
38103	96.00	55.00	1.70	7.60-7.80

Curtain Wall Single Clip



Sec	Α	В	Т	KG/16'
37101	50.00	50.00	1.71	4.50-4.70

Cover Plate



Sec	Α	В	Т	KG/16'
40101	55.00	15.00	1.60	1.70-1.90

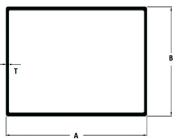
Pressure Plate



Sec	Α	В	Т	KG/16'
39101	53.00	8.00	1.50	2.00-2.20

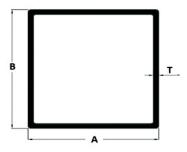


Rectangular Tube



Sec	Α	В	Т	KG/12'
41101	36.00	23.00	0.68	0.75-0.85
41102	38.10	25.40	2.00	3.10-3.30
41103	50.00	25.00	0.88	1.20-1.30
41104	50.80	25.40	1.18	2.20-2.40
41105	63.00	38.10	1.20	2.60-2.80
41106	63.00	38.10	0.90	1.70-1.90

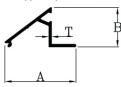
Square Tube



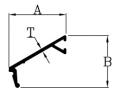
SEC	Α	В	Т	KG/12'
55101	19.00	19.00	0.80	0.500-0.600
55102	19.00	19.00	1.15	0.800-0.900
55103	25.00	25.00	0.67	0.600-0.700
55104	25.00	25.00	0.85	0.800-0.900
55105	25.00	25.00	1.30	1.200-1.300



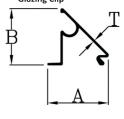
Tapper Clip 34 Series



Clip 40 Series



Glazing Clip

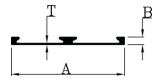


Sec	Α	В	Т	KG/12'
46101	32.00	17.60	1.15	0.63-0.70

Sec	Α	В	Т	KG/16'
48101	25.25	23.00	1.20	0.450-0.550

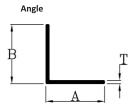
Sec	Α	В	Т	KG/12'
50101	19.00	17.30	0.50	0.250-0.270
50102	19.00	17.30	0.53	0.280-0.300
50103	19.00	17.30	0.63	0.310-0.350
50104	19.00	17.30	0.73	0.360-0.400
50105	19.00	17.30	0.78	0.410-0.440
50106	19.00	17.30	0.91	0.450-0.480

Glazing Plate

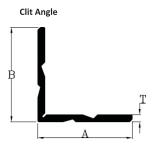


Sec	Α	В	Т	KG/12'
51101	44.00	3.20	0.60	0.520-0.580

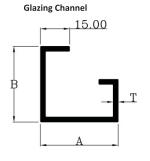




SEC	Α	В	Т	KG/12'
54101	25.40	25.40	1.10	0.530-0.560
54102	25.40	25.40	1.20	0.600-0.640
54103	25.00	25.00	1.50	0.670-0.720
54104	25.00	25.00	2.00	0.900-1.200
54105	38.10	25.40	2.40	1.400-1.600
54106	38.10	25.40	3.10	1.800-2.000

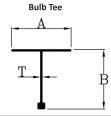


Sec	Α	В	Т	KG/16'
53101	50.00	50.00	3.75	4.40-4.70
53102	50.00	50.00	4.85	5.70-6.00

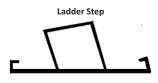


Sec	Α	В	Т	WT.(kg)/16'
58101	40.00	39.00	2.60	3.90-4.100





Sec	Α	В	Т	KG/12'
52101	25.00	25.00	0.80	0.40-0.42
52102	25.00	25.00	1.27	0.68-0.70
52103	35.00	24.40	1.42	0.85-0.87



Se	C	Α	В	T	WT.(kg)/Mtr
55	001	65.40	29.00	1.10	0.50



Pg. No.	Section	
14 14 15 13	angle clit angle bulb tee clip 40 series	angle bulb Clip
13 13 11 11	glazing clip tapper clip 34 series curtain wall single clip curtain wall	curtain Wall
14 7 7 7	glazzing channel door interlock door handle door handle double	channel door
2 2 7 2 5	door middle single door middle double door shutter door top & bottom two track top door	
5 5 5 2	two track bottom door three track top door three track bottom door door vertical	
10 8 9 15 3	flat bar h-line outer 34 series h-section 40 series ladder Step mager	flat bar h-line h-section ladder mager
3 9 8 9	mager hollow mazda haddi mullion 34 series mullion 40 series	mazda mullion
1 1 1	single partition double partition samosa partition-a	partition
11 11 13	cover plate pressure plate glazing plate	plate
12 12 4	rectangular tube square tube two track top window	tube window
4 4 4 4 4 6 6 6	two track bottom window three track top window three track bottom window four track top window four track top window four track bottom window shutter window handle window interlock window	William
9 8	z-hollow 40 series z-line 34 series	z-hollow z-line





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