



BARAKAAT STEELS PVT. LTD.

ALUMINIUM DIVISION

Aluminium Profiles / Spacers - Plastic Corners - Steel Connectors for Insulating Glass

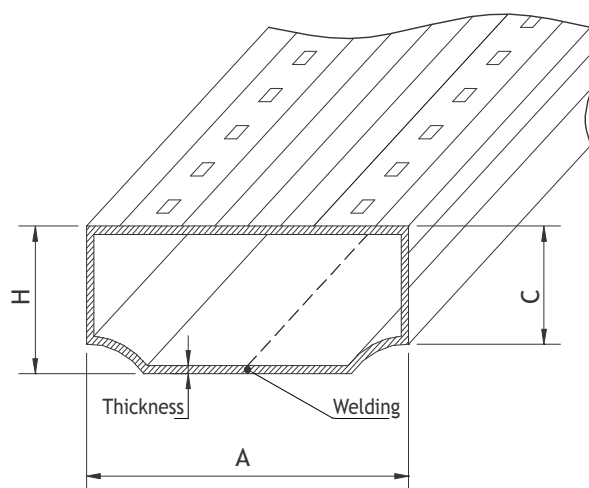
ABOUT US

Barakaat Steels Pvt. Ltd., is the first Company in India to start production of Aluminium Profiles/Spacer, used in the manufacture of Insulating Glass. The Company has been pioneers in the manufacture of Insulating Glass and of trading in Insulating Glass Components for more than two Decades. Keeping in pace with the latest technologies at worldwide scenario, Barakaat Steels has been diversifying from time to time, by bringing products at par with International Standards. Barakaat Steels have created a new dimension, by combining customer requirements as prime objectives in offering the right product mix, a broad knowledge of products & their applications, good business relationships, logistics & financials expertise, proximity to the customer, and last but not the least, the appropriate range of support service. We are also suppliers to almost all major insulating glass manufacturers in India.

ALUMINIUM SPACER BAR

A spacer bar, sometimes known as a profile, is the continuous hollow Aluminium frame that separates the two glass panes in a double glazed insulating window.

The spacer bar is bonded to the glass panes via a primary and secondary seal, creating an airtight cavity, which is filled with air or gas. The spacer bar itself is filled with a dessicant to adsorb any residual moisture within the cavity and thus prevent condensation within the double glazed window. Spacer bars are an important contributor to a double glazed window's energy ratings and are currently the most commonly used therein. Light but strong, their flexibility means that they can be formed into a wide variety of shapes and sizes.



CORNERS AND CONNECTORS

Plastic corners and steel connectors are important and essential joinery in manufacturing of Insulating Glass.



STEEL CONNECTORS



PLASTIC CORNER KEYS



BENDABLE SPACER

TECHNICAL & OTHER DETAILS

DIMENSIONS & TOLERANCES

Profile	A (Width) ± 0.1 mm	H (Height) ± 0.1 mm	C ± 0.2 mm	Thickness ± 0.01 mm (Standard)	Thickness ± 0.01 mm (Bendable)	Mtrs Per Box
A055	5.50	6.50	4.60	0.25	0.33	2860
A075	7.50	6.50	5.10	0.25	0.33	2090
A095	9.50	6.50	5.10	0.25	0.33	1650
A115	11.50	6.50	5.10	0.25	0.33	2210
A135	13.50	6.50	5.10	0.25	0.33	1820
A145	14.50	6.50	5.10	0.25	0.33	1690
A155	15.50	6.50	5.10	0.25	0.33	1560
A175	17.50	6.50	5.10	0.30	0.33	1430
A195	19.50	6.50	5.10	0.33	0.33	1300
A235	23.50	6.50	5.10	0.34	0.34	960
A265	26.50	6.50	5.10	0.34	0.34	840

* Tolerance : A = -0 + 0.1 mm

Corner Keys Per Box	Steel Connectors Per Box
2000	2000
2000	2000
2000	2000
2000	2000
2000	2000
2000	2000
2000	2000
2000	2000
2000	1000
NA	1000
NA	1000

* Tolerance: A = -0 + 0.1 mm

ANALYSIS

INSULATING GLASS ALUMINUM SPACER BAR

Item	Specification	Notes
Alloy	3003 (Bendable) 1100 (Standard)	
Temper	H 26 H 18	
Thickness (t)	0.21-0.35 mm (Special requirements can be made)	±0.025 mm
Height (h)	6.5 mm	±0.1 mm
Width (w)	5.5mm -26.5 mm	±0.1 mm
Length	5 Mtrs.	±2 mm
Welder	High frequency induction welding	
Welding	Bottom	
Color	Silver Mill Finish	
Packing	Standard carton box with inter leaving paper & shrink wrapped	
Others	At equal intervals of 0.3 Mtr., Customer Logo can be printed for bulk orders	

COMPOSITION OF RAW MATERIALS

ALLOY 3003									
Si	Fe	Cu	Mn	Mg	Zn	Ti	Cr	Others	Al
0.08	0.4~0.7	0.05~0.2	1.0~1.5	≤0.005	≤0.005	0.01~0.02	--	0.15	the rest

ALLOY 3003 H 26 MECHANICAL PROPERTIES

Rm=Breakage Point ≥ 170 | Rp = Yield Load ≥ 140 | A = Elongation Percent ≥ 10

ALLOY 1100									
Si	Fe	Cu	Mn	Mg	Zn	Ti	Cr	Others	Al
0.05~0.1	0.4~0.5	0.04~0.08	0.001	0.001	≤0.1	0.01~0.02	--	0.15	the rest

ALLOY 1100 H 18 MECHANICAL PROPERTIES

Rm=Breakage Point ≥ 210/255 | Rp = Yield Load ≥ 190 | A = Elongation Percent ≥ 2



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