

From the
House of

ALCOI

Premium
Fenestration
Solutions



ALCOI India Private Limited

Plot No 427-430, Industrial Area 1, Panchkula, Haryana - 134113

For more information, visit our website: **www.alcoi.in**

For feedback or complaints, write to us at

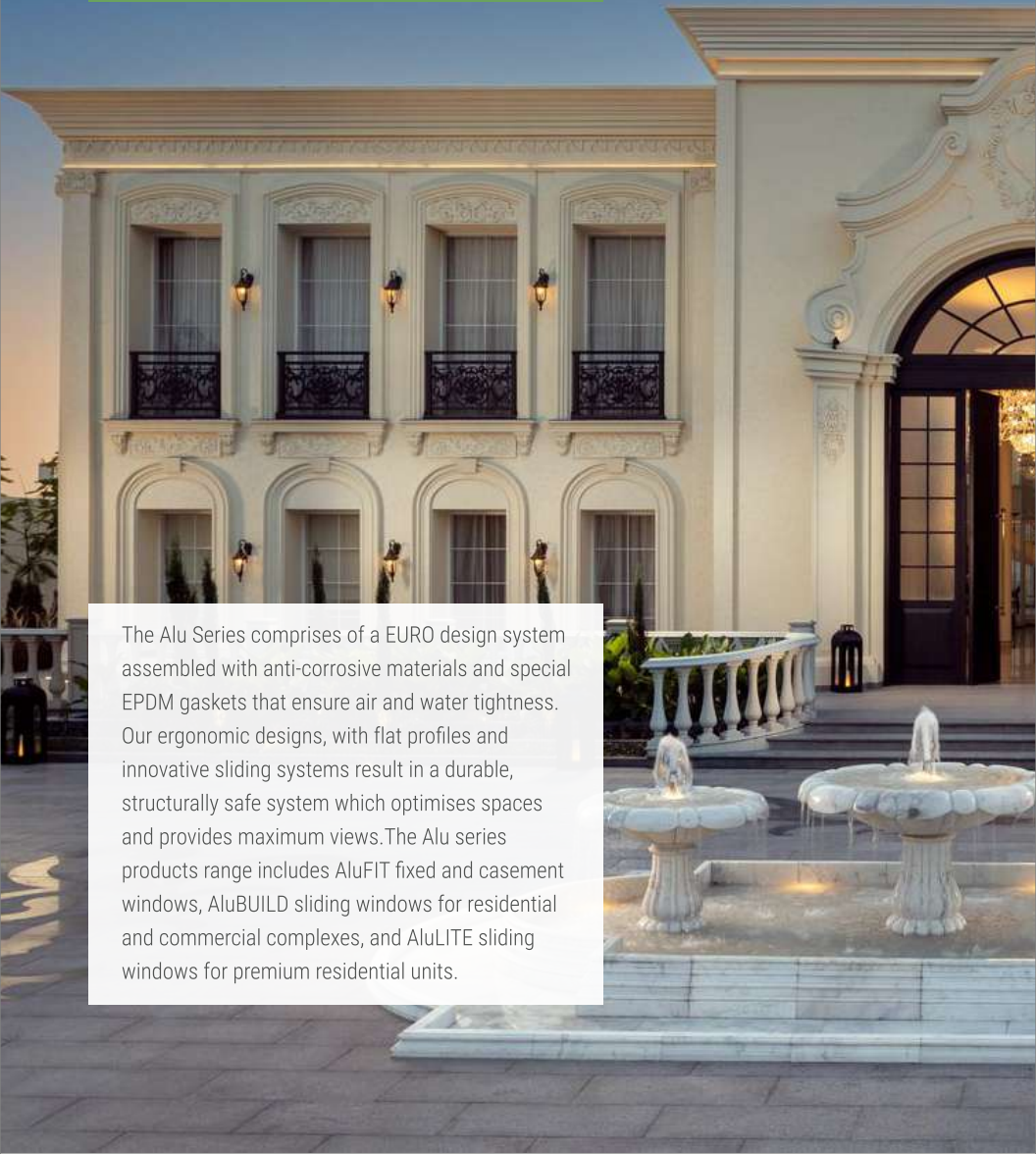
mktg.sup@alcoi.in or call **+91 9878750055, +91 172 2567650.**

Disclaimer: *The shades displayed in the images are indicative and may differ from actual representation.*



ALU SERIES

The Alu Series comprises of a EURO design system assembled with anti-corrosive materials and special EPDM gaskets that ensure air and water tightness. Our ergonomic designs, with flat profiles and innovative sliding systems result in a durable, structurally safe system which optimises spaces and provides maximum views. The Alu series products range includes AluFIT fixed and casement windows, AluBUILD sliding windows for residential and commercial complexes, and AluLITE sliding windows for premium residential units.





AluFIT

FIXED AND
CASEMENT SERIES

The AluFIT fixed and casement windows are designed for sustainable habitats. It is an ergonomic design with flat profiles available in classic and contemporary designs. There is a wide range of typologies such as inside, outside swings and tilt & turn. It is an EURO design system with accessories and hardware of anti-corrosive materials. With multiple colour options in handles and accessories, these windows have a multipoint locking mechanism with cylinder key locking operation.

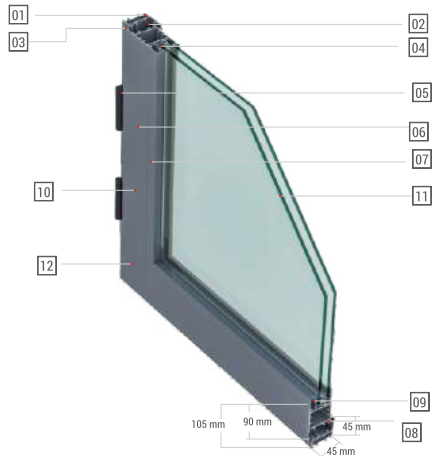
OPENING FRAME

Maximum Shutter Height	2745 mm *
Maximum Shutter Size	3 sqm
Maximum Glass Infill	30 mm
Maximum Shutter Weight	90 kg
Surface Finish	Powder Coating, Anodising, Sublimation

**Please contact us on maximum weight & opening dimensions for customised window opening sizes.*

AluFIT 3D MODEL

01. Frame (45 mm | 140 mm)
02. Weep Seal Gasket
03. Bubble Gasket
04. Frame Gasket
05. Hinge (180°)
06. Sash (45°)
07. Beading
08. Inconspicuous Weep Holes
09. Inside Gasket
10. Sightline (38 mm | 67 mm | 90 mm)
11. Glass Leaf (max infill 30mm)
12. Section Corner Joint (Aluminium Cleat)



PRODUCT FEATURES

- 45 mm Single and 140 mm Double (Glass + Mesh Shutter) outer frame width.
- 81 mm Slide & Fold jamb.
- Fixed system single glass panel of 5-meter height.
- Wider vent profile of 90 mm for doors.
- 100% mechanical cleat joints.
- Profile coloured handles.
- Logo stamped profiles.





B 558

AluBUILD

SLIDING SERIES

The AluBUILD sliding window systems provide sleek fenestration solutions for your facade envelopes. It comprises a EURO design system assembled with accessories & hardware of anti-corrosive materials. Wraparound glazing gaskets guarantee the protection of glazing edges, and minimal use of plastic parts results in better aesthetics and maintenance. Specially designed for residences, commercial buildings, and housing complexes, the AluBUILD range boasts longevity and elegance.

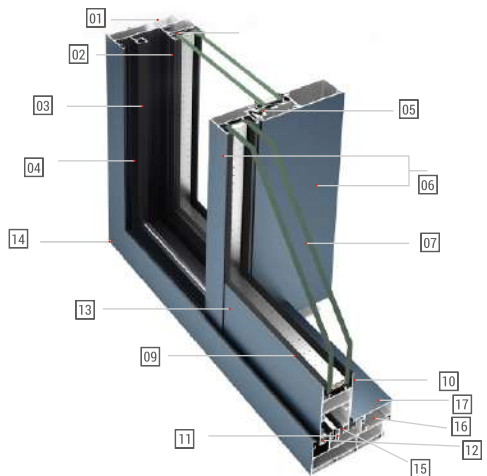
OPENING FRAME

Maximum Shutter Height	2745 mm*
Maximum Shutter Size	5 sqm
Maximum Glass Infill	23 mm
Maximum Shutter Weight	150 kg
Surface Finish	Powder Coating, Anodising, Sublimation

**Please contact us on maximum weight & opening dimensions for customised window opening sizes.*

AluBUILD 3D MODEL

01. Frame (70 mm | 92 mm | 106 mm)
02. Beading
03. Track Gasket
04. Condensation Track
05. Interlock Gasket
06. Sightline (36 mm | 70 mm)
07. Glass Leaf (Maximum Infill 23 mm)
08. Sash (45° | 90°)
09. Inside Gasket
10. Outside Gasket
11. Stainless Steel/Aluminium Rail
12. Nylon Wool Pile
13. Sash Joint 90° (Aluminium Cleat)
14. Section Corner Joint 45° (Aluminium T- Corner)
15. Stainless Steel Rollers and Nylon Rollers
16. Inconspicuous Weep Holes
17. Track covers



PRODUCT FEATURES


- II Track 70 mm | 92 mm and III Track 106 mm outer frame width.
- Flexibility of Slim 36 mm or Classic 70 mm interlock mullion sightline.
- Radial groove solid aluminium tracks.
- Availability of mullion reinforcement.
- 100% mechanical cleat joints.
- Inconspicuous weep holes.
- Profile coloured handles.
- Track covers for easy maintenance.
- Logo-stamped profiles.





AluLITE

SLIDING SERIES



The AluLITE sliding windows are positioned for sustainable habitats and premium residential units. The different systems comprise of monorail sliding with mesh, 3 sliding rails, and 3 sliding rails with fly mesh shutters. They have a composite system of a fixed and sliding system that allows for a covered fixed outer frame profile and the option of integrating retractable mesh against a sliding shutter on the inner track. They have multiple colour options in handles and multipoint cylinder key-locking operation.

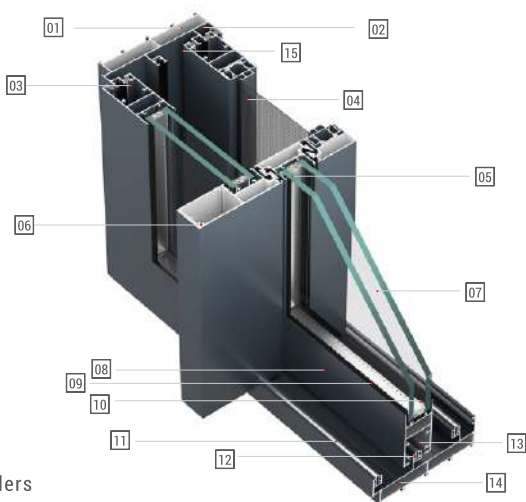
OPENING FRAME

Maximum Shutter Height	3050 mm*
Maximum Shutter Size	5 sqm
Maximum Glass Infill	32 mm
Maximum Shutter Weight	180 kg
Surface Finish	Powder Coating, Anodising, Sublimation

**Please contact us on maximum weight & opening dimensions for customised window opening sizes.*

AluLITE 3D MODEL

01. Frame (100 mm | 140 mm)
02. Condensation Track
03. Track Gasket
04. Stainless Steel Black Coated Mesh
05. Interlock Gasket
06. Sightline (36 mm | 78 mm)
07. Glass Leaf (Maximum Infill 32 mm)
08. Sash (45° | 90°)
09. Inside Gasket
10. Outside Gasket
11. Stainless Steel/Aluminium Rail
12. Nylon Wool Pile
13. Stainless Steel Rollers and Nylon Rollers
14. Inconspicuous Weep Holes



PRODUCT FEATURES

- Monorail 100 mm and III Track 140 mm outer frame width.
- Flexibility of Slim 36 mm or Classic 78 mm interlock mullion sightline.
- Radial groove SS tracks and SS rollers.
- Four barrier noise insulation.
- Availability of mullion reinforcement.
- 100% mechanical cleat joints.
- Inconspicuous weep holes.
- Profile coloured handles.
- Track covers for easy maintenance.
- Logo-stamped profiles.





SKY SERIES

The Sky Series comprises of a EURO design system assembled with accessories and hardware of anti-corrosive materials and special EPDM gaskets that ensure air and water tightness along with thermal and acoustic insulation. The Sky Series introduces premium minimal windows that guarantee picture perfect views with greater sightlines and barrier free views. Equipped with special handles to regulate the opening, the series brings to life, the sturdiness, quality and beauty of aluminium, through ingenious technology.







SkyLITE

SLIDING SERIES

The SkyLITE Lift & Slide windows range consists of modular systems designed for large sliding openings of up to 300 kg shutter weight. With a Euro design system, this series is assembled using anti-corrosive materials and special EPDM gaskets that ensure air and water tightness & thermal and acoustic insulation. The outer tracks have a unique condensation profile for collecting and draining water through concealed weep holes and slots.

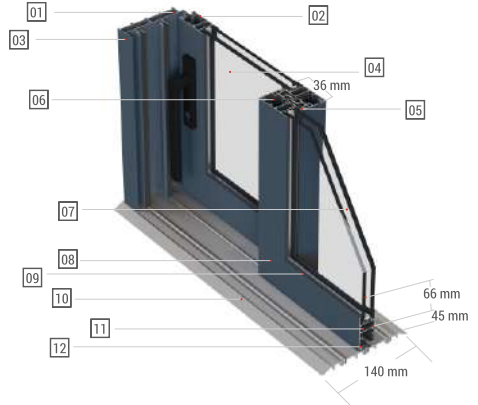
OPENING FRAME

Maximum Shutter Height	3050 mm *
Maximum Shutter Size	7.50 sqm
Maximum Glass Infill	32 mm
Maximum Shutter Weight	300 kg
Surface Finish	Powder Coating, Anodising, Sublimation

**Please contact us on maximum weight & opening dimensions for customised window opening sizes.*

SkyLITE 3D MODEL

01. Frame (100 mm | 203 mm)
02. Condensation Track
03. Track Gasket
04. Stainless Steel Black Coated Mesh
05. Interlock Gasket
06. Interlock
07. Glass Leaf (Maximum infill 32mm)
08. Sash (45° | 90°)
09. Inside Gasket
10. Outside Gasket
11. Stainless Steel/Aluminium Rail
12. Nylon Wool Pile



PRODUCT FEATURES

- Monorail 100 mm and III Track 203 mm outer frame width.
- 13 mm flush track with SS rail.
- Flexibility of Slim 36 mm or Classic 82 mm interlock mullion sightline.
- Long lever handle for smooth lift & slide movement.
- Four Barrier noise insulation.
- 100% mechanical cleat joints.
- Profile coloured handles.
- Logo-stamped profiles.





SkyLINE

SLIDING SERIES

The SkyLINE Sliding windows range comprises of an embedded system with a concealed outer frame and flushed shutter profiles for maximum transparency with no architectural barriers. The range features single, double and triple-row Inox sliding tracks that enable smooth sliding movement and are removable for easy track maintenance. Further, wrap-around glazing gaskets guarantee the protection of glazing edges and easy replacement of glass in case of breakage.

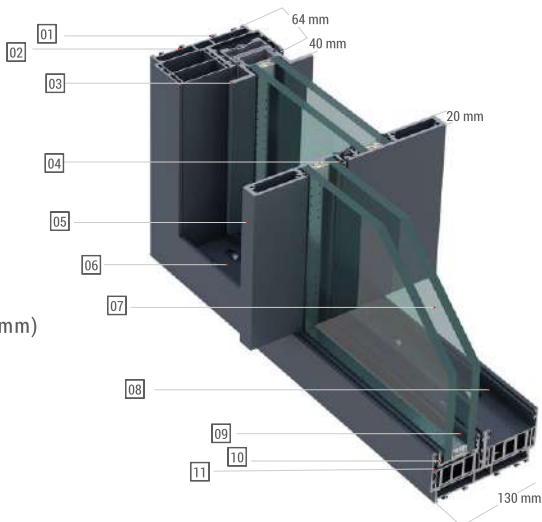
OPENING FRAME

Maximum Shutter Height	5000 mm*
Maximum Shutter Size	9 sqm
Maximum Glass Infill	40 mm
Maximum Shutter Weight	500 kg
Surface Finish	Powder Coating, Anodising, Sublimation

*Please contact us on maximum weight & opening dimensions for customised window opening sizes.

SkyLINE 3D MODEL

01. Frame (130mm | 195mm)
02. Handle Gasket
03. Handle
04. Interlock Gasket
05. Interlock
06. Roller Fixed to Frame
07. Glass Leaf (Maximum infill 40mm)
08. Nylon Wool Pile
09. Outside Gasket
10. Inside Gasket
11. Sash



PRODUCT FEATURES

- II track 130 mm and III Track 195 mm outer frame width.
- Minimal interlock mullion sightline 20 mm.
- Four barrier noise insulation.
- Single sliding panel of 5 meter height.
- Corner opening and pocket sliding solution.
- Concealed outer frame and invisible tracks.
- 100% mechanical cleat joints.
- Inconspicuous weep holes.
- Track covers for easy maintenance.
- Logo-stamped profiles.





ALCOI's System tested as per American (ASTM) standards

WATER PENETRATION ASTM E331, AAMA 501.1

Capacity of the window or door to block seepage of water when it is struck by a water flow and there is a pressure difference between the internal and external side.

The ALCOI window or door has not had any seepage of water even with a wind pressure equal to a speed of **97.47 Km/h (450 Pa)**.

AIR INFILTRATION ASTM E283

Characteristic of a closed vent to let air pass through when the internal and external pressures are mutually different; the smaller the volume dispersed, the greater the window or door quality.

The ALCOI window or door was subjected to a wind pressure equal to a speed of **111.54 Km/h (600 Pa)** and passed the test with positive results.

STRUCTURAL PERFORMANCE ASTM E330

Capacity of a window or door subjected to high pressure and/or suction, such as those caused by wind, to remain within admissible deformation limits and to conserve its initial properties so as to ensure protection and safety to the users.

When the ALCOI window or door was subjected to a wind load equal to a speed of **165.72 Km/h (1300 Pa)**, neither breakages nor permanent deformation occurred. Furthermore, when the ALCOI window was subjected to proof load (1.5 times design wind load) equal to a speed of **200.25 Km/h (1950 Pa)**, no breakages or permanent deformation occurred.



CERTIFICATE OF PERFORMANCE

**THIS CERTIFICATE IS PRESENTED TO
ALCOI INDIA PVT. LTD.**

SPECIMEN TYPE	:	Sliding Door
SAMPLE SIZE	:	3002 (w) X 3654 (h)mm
TYPE OF GLASS	:	40mm Thick DGU (10T + 20 + 10T)
DATE OF TESTING	:	19 th and 20 th April 2024

TESTING LOADS APPLIED	
AIR INFILTRATION TEST	ASTM E 283 : 600 Pa 05.5 m ³ /hr/m ²
AIR EXFILTRATION TEST	ASTM E 283 : 600 Pa 014.5 m ³ /hr/m ²
STATIC WATER PENETRATION TEST	ASTM E 331 : 500 Pa
DYNAMIC WATER PENETRATION TEST	AAMA 501.1 : 450 Pa
STRUCTURAL PERFORMANCE TEST	ASTM E 330 : 1200 Pa
PROOF LOAD TEST	ASTM E 330 : 1450 Pa
TEST FINAL REPORT REFERENCE NUMBER	: BL20/28/May/24/FR00 (ASTM)



SWAMINATHAN
LABORATORY MANAGER



REJI BHAMI
DIRECTOR

This certificate is issued by Eminent International Testing Centre Private Limited
Disclaimer: This certificate is issued based on the result occurred at the time of testing for this particular sample

ALCOI's System tested as per European (EN) standards

WATER TIGHTNESS EN 1027

Capacity of the window or door to block seepage of water when it is struck by a water flow and there is a pressure difference between the internal and external side.

The ALCOI window or door has not had any seepage of water even with a wind pressure equal to a speed of **112.56 Km/h (600 Pa : Class9A)**.

AIR INFILTRATION EN 1026, EN 12207

Characteristic of a closed vent to let air pass through when the internal and external pressures are mutually different; the smaller the volume dispersed, the greater the window or door quality.

The ALCOI window or door was subjected to a wind pressure equal to a speed of **111.54 Km/h (600 Pa : Class 4A)** and passed the test with positive results.

RESISTANCE TO WIND LOAD EN 12211

Capacity of a window or door subjected to high pressure and/or suction, such as those caused by wind, to remain within admissible deformation limits and to conserve its initial properties so as to ensure protection and safety to the users.

When the ALCOI window or door was subjected to a wind load equal to a speed of **165.72 Km/h (1300 Pa : Class A3)**, neither breakages nor permanent deformation occurred. Furthermore, when the ALCOI window was subjected to Safety



CERTIFICATE OF PERFORMANCE

**THIS CERTIFICATE IS PRESENTED TO
ALCOI INDIA PVT. LTD.**

SPECIMEN TYPE	:	Sliding Door
SAMPLE SIZE	:	3002 (w) X 3456 (h)mm
TYPE OF GLASS	:	40mm Thick DGU (HT + 20 + 10T)
DATE OF TESTING	:	19 th and 20 th April 2024

TESTING LOADS APPLIED

AIR INFILTRATION TEST	BS EN 1026 : 2016	:	600 Pa	:	CLASS 4
AIR EXFILTRATION TEST	BS EN 1027 : 2016	:	600 Pa	:	CLASS 3
WATER TIGHTNESS TEST	BS EN 1027 : 2016	:	600 Pa	:	CLASS 9A
RESISTANCE TO WIND LOAD TEST					
DEFLECTION TEST (P1)	BS EN 12211 : 2016	:	1300 Pa	:	CLASS A3
REPEATED PRESSURE TEST (P2)	BS EN 12211 : 2016	:	650 Pa	:	CLASS 3
SAFETY TEST (P3)	BS EN 12211 : 2016	:	1950 Pa	:	CLASS 3

TEST FINAL REPORT REFERENCE NUMBER : BL20/28/May/24/FR00 (BS)



SWAMINATHAN
LABORATORY MANAGER





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WINDOWS THAT
CHANGE THE WAY
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