SLIDING
» ADVANCED THERMAL BREAK SYSTEMS

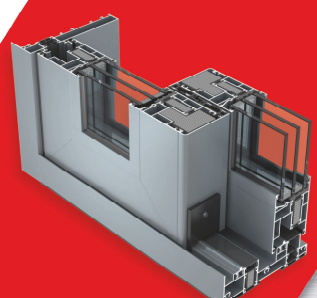
AluK Building Systems Private Limited
Regus Millenia,
Level 1, Tower B, No 1&2 Murphy Road, Ulsoor,
Bangalore - 560008, India
T : +91 80 67654210 / 67654222 | F : +91 80 67654033
email : info@aluk.in
» www.aluk.in
www.aluk.com

JAN-MAR 2014

ALUK

ALUK

SLIDING



» ADVANCED THERMAL
BREAK SYSTEMS

SLIDING

SYSTEMS FOR THERMAL BREAK SLIDING DOORS

TECHNOLOGY, INNOVATION, DESIGN

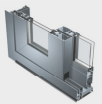
The continuous architectural requests for new spacious interior spaces and openable luminous glass windows have brought us to use sliding door systems with better performance and attention to style. AluK proposes high range series such as SC140TT and SC170TT.

SC70

SYSTEM FOR NON-INSULATED SLIDING SYSTEMS.
This series for non-insulated sliding doors stands out for its affordability and simplicity while still maintaining a pleasant appearance. It integrates perfectly with the SSN series, thereby allowing for the creation of many possible types of structures with top and bottom glass. The system also provides the possibility to create frames with mosquito flyscreens.

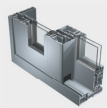
SC95TT

SYSTEM FOR THERMAL BREAK SLIDING DOORS.
This insulated series for sliding doors is to be matched with S6IW for isolated compounds. The locking system of the sliding doors employs an exclusive multipoint locking system, actuated by the same handle used in windows, to ensure safety and reliability at the entryway. The traditional line of the window is enhanced by the particular glass bead cut of 45° as the sash door sides.



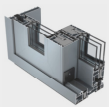
SC140TT

SYSTEM FOR THERMAL BREAK SLIDING DOORS.
This series for sliding doors is suitable for the realization of lift and slide solutions. The series was designed for the construction of high-quality frames. The robustness of the chassis allows for the construction of large windows; a typical example may be a glass patio, reaching up to the ceiling. The lift&slide mechanism, designed to facilitate the handling of heavy frames until 400 kg, makes this system very practical and functional. In fact, heavy glass can be installed without having its weight affect the maneuverability; it remains fluid and light.



SC170TT

SYSTEM FOR THERMAL BREAK SLIDING DOORS.
This series was created to meet the demands of an increasingly demanding market in terms of performance and comfort, while maintaining the fundamental characteristics of the success of the SC140TT series. It is suitable for use in both new construction and renovation, satisfying the requirements of demanding customers in terms of design, performance and attention to detail. The opening can be controlled by a motor and utilize home automation applications to control the environment.



56IWL - 67IWL - 77IWL

PROFILES TO CREATE THERMAL BREAK SLIDING DOORS AND PANELS IN ALUMINUM.
The IWL series was born as an integration of the IW series with solutions dedicated to the realization of fixtures of a parallel sliding type or overturning ones. The technology of the insulation capacity is the same as the IW batten series: in fact, they use the same thermal cut bar and the same central trim at the open joint, allowing them to reach elevated performance. The enhanced profiles have been sized in such a way that they can accommodate the sliding elements and rails for shutters of elevated dimensions and weighing up to 300 kg.

50IWood - 80IWood

PROFILES TO CREATE THERMAL BREAK SLIDING DOORS AND PANELS IN ALUMINUM/WOOD.
The aluminium/wood series satisfies the requests of a market that is ever more demanding in terms of performance and durability, also allowing the realisation of fixtures with parallel sliding or overturning types with shutters of considerable dimension and with weight up to 200 kg. The I-Wood series are adequate, in particular, to use in a residential environment of new constructions and renovations, also satisfying the requests of a demanding clientele in terms of design, performance and attention to detail.

SYSTEMS FOR SLIDING DOORS HIGH THERMAL INSULATION

TECHNICAL FEATURES

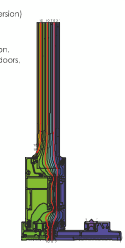
SC140TT

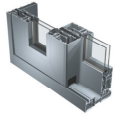
PROFILES
- depth of outer frames: 140 mm (213 mm 3-way version)
- depth of sash: 56 mm

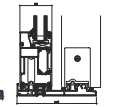
APPLICATION
Windows, balcony-doors. With mechanical retention. Motorized, sliding 2 doors, sliding 3 doors, sliding 4 doors, sliding 6 doors, sliding 3-way, sliding, lift & slide.

PANES
- minimum depth: 10 mm
- maximum depth: 40 mm
- panel, double glass, triple glass

ROLLERS
300 (400) Kg







PERFORMANCE

THERMAL TRANSMITTANCE
U_W = 1.4 W/m²K

ACOUSTIC PERFORMANCE
R_W (C; Ctr) = 38 (-1; -3) dB

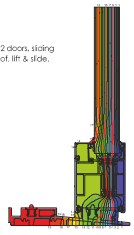
SC170TT

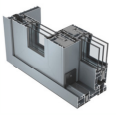
PROFILES
- depth of outer frames: 170 mm
- depth of sash: 70 mm

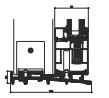
APPLICATION
Windows, balcony-doors, motorized, sliding 2 doors, sliding 3 doors, sliding 4 doors, sliding fixed + sunroof, lift & slide.

PANES
- minimum depth: 28 mm
- maximum depth: 55 mm
- panel, double glass, triple glass

ROLLERS
300 (400) Kg







PERFORMANCE

THERMAL TRANSMITTANCE
U_W = 1.2 W/m²K

ACOUSTIC PERFORMANCE
R_W (C; Ctr) = 43 (-2; -5) dB

TECHNICAL FEATURES

		SLIDING					TILT AND SLIDE
		SC70N	SC95TT	SC140TT	SC170TT	56IWL [1] 67IWL [2] 77IWL [3]	50IWood[1] 80IWood[2]
THERMAL TRANSMITTANCE		U_f = 7.0 W/m²K	U_f = 3.3 - 5.5 W/m²K Technical Report at I.T.C. 4126/RP/08	U_f = 3.1 - 5.4 W/m²K Technical Report at I.S.C. 4125/RP/08	U_f = 2.8 - 3.2 W/m²K Technical Report IR-ICOS 1994-CPD-RP0885	U_f = 2.03 - 2.18 W/m²K [4] Technical Report IR-ICOS 1994-CPD-RP0572	U_f = 1.3 - 1.9 W/m²K [5] Technical Report IR-ICOS 033-RP09
			U_W = 1.8 W/m²K Sliding 2 doors with Ug = 1.0 W/mK	U_W = 1.4 W/m²K Lift & slide 2 doors with Ug = 0.5 W/mK	U_W = 1.2 W/m²K Lift & slide 2 doors with Ug = 0.5 W/mK	U_W = 1.0 W/m²K [4] Tilt and slide 2 doors with Ug = 0.5 W/mK [4]	U_W = 0.85 W/m²K [5] Tilt and slide 2 doors with Ug = 0.5 W/mK [5]
ACOUSTIC PERFORMANCE				R_W (C; Ctr) = 38 (-1; -3) dB Int. Giordano 286491/641s/CPD	R_W (C; Ctr) = 43 (-2; -5) dB Int. Giordano 286492/647/CPD	R_W (C; Ctr) = 43 (-2; -5) dB [4] Int. Giordano 286490/641s5/CPD	R_W (C; Ctr) = 45 (-1; -4) dB [5] ITC-CNR 4571/RP08
AIR PERMEABILITY		Class 3 Testreport I.T.C. n. 0970-CPD-RP0389	Class 4 Testreport I.T.C. n. 0970-CPD-RP0310	Class 4 Testreport I.T.C. n. 0970-CPD-RP0890	Class 4 Testreport I.T.C. n. 0970-CPD-RP0934	Class 4K [4] Testreport I.T.C. n. 0970-CPD-RP0755	Class 4K [5] Testreport I.T.C. n. 0970-CPD-RP0696
WATERTIGHTNESS		7A Testreport I.T.C. n. 0970-CPD-RP0389	8A Testreport I.T.C. n. 0970-CPD-RP0310	8A Testreport I.T.C. n. 0970-CPD-RP0890	E900 Testreport I.T.C. n. 0970-CPD-RP0934	E900 [4] Testreport I.T.C. n. 0970-CPD-RP0755	E1200 [5] Testreport I.T.C. n. 0970-CPD-RP0696
WIND RESISTANCE		B2 Testreport I.T.C. n. 0970-CPD-RP0389	B2 pos. A2 neg. Testreport I.T.C. n. 0970-CPD-RP0310	A4 Testreport I.T.C. n. 0970-CPD-RP0890	C2 B3 A4 Testreport I.T.C. n. 0970-CPD-RP0934	A4 [4] Testreport I.T.C. n. 0970-CPD-RP0755	C5 [5] Testreport I.T.C. n. 0970-CPD-RP0696

Uw value for a 2500x2180 mm size. "Warm edge" equal to 0.05 W/m K calculated according to EN ISO 10077-1