



LET'S BUILD A BETTER FUTURE

## Lift and slide balcony door **MB-77HS**

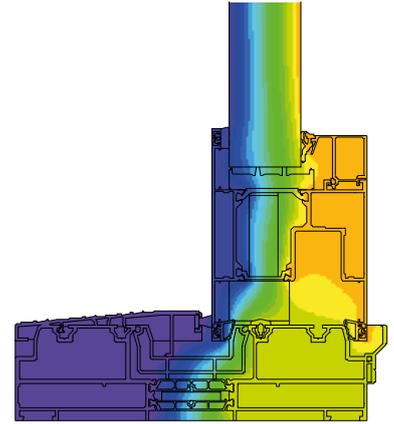
The MB-77HS "Lift & Slide" door product is an ideal solution for connecting interior space rooms or conservatories with the outside balcony, terrace or garden area. Providing both a smooth & silent slide action operation, it can bring the benefits of a beautiful day outside, into the living space. In addition, & by way of its design & operation, the MB-77HS is a great space saving opening & does not encroach the free space beyond the internal or external confines of the frame, without any compromise. Providing excellent weather tightness together with enhanced thermal performance, the MB-77HS complies with all of the requirements associated with this product type. Available in two different options, with regard to the level of thermal performance, the MB-77HS is further categorised as "ST" and "HI," standard or highly insulated. The design & arrangement of the system profiles enable luxurious openings of large dimensions, accommodating double & even triple glass unit compositions, which in conjunction with the constituent parts & innovative technical solutions, help achieve a high level of thermal & acoustic performance.



brings the outdoors inside

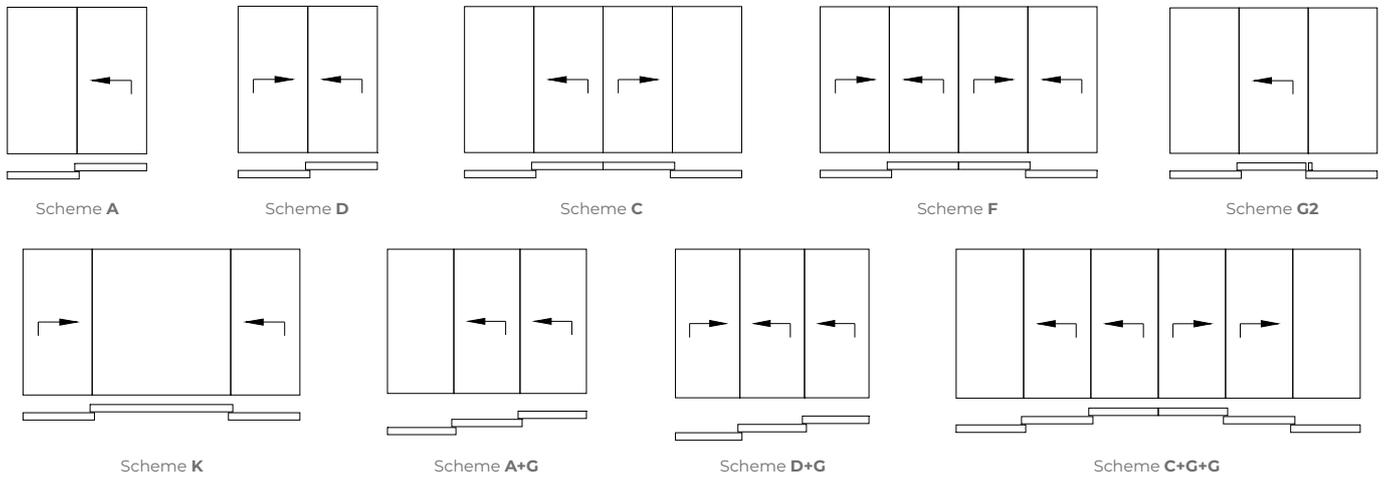
excellent weather performance

# LIFT AND SLIDE BALCONY DOOR / MB-77HS

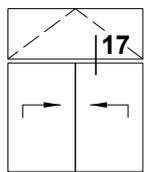


Distribution of isotherms in the MB-77HS HI door

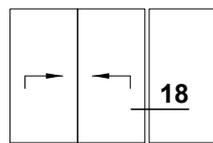
## AVAILABLE DOOR CONSTRUCTION



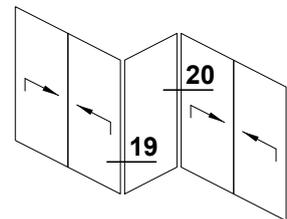
## EXAMPLES OF CONSTRUCTIONS



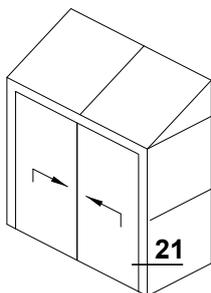
top fanlight option



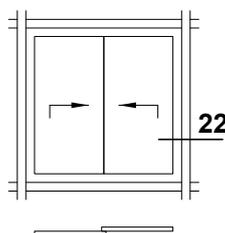
fixed sidelight option



internal/external corner solutions



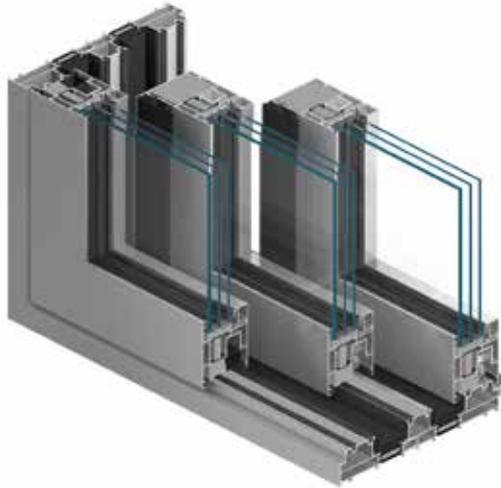
build into MB-WG60 conservatory system



build into a curtain walling system

# LIFT AND SLIDE BALCONY DOOR / MB-77HS

## AVAILABLE CONSTRUCTIONS



3-rail frame



fixed glazing in the frame



openable corner joint



## MECHANISMS TO FACILITATE THE OPERATION



HS Master drive



GU Lift Unit mechanism that facilitates lifting of the door leaf



## FEATURES AND AESTHETICS

- the slender and durable profile makes it possible to build a low-threshold door weighing up to 600 kg, with a height of up to 3.2 m and a width of up to 3.3 m
- the frames are available in twin-track and triple-track variants
- 90° and 270° corners can be built, creating an exceptionally large space once the door is open
- a slender, 47 mm mullion
- convenient solutions featuring a low threshold
- a wide range of infills, including the use of single- or double-glazed units, as well as thermal breaks, a range of accessories and insulating inserts making it possible to achieve excellent thermal and acoustic parameters
- three styles of glazing beads: Standard, which is rectangular; Prestige, which is rounded; and Style, which is diamond shaped
- the shape of the glazing beads and the break-in prevention details make it possible to obtain increased burglary resistant properties without changing the door's fundamental construction elements of the door
- the special shapes of the stop seals and glazing gaskets, together with the proper hardware, ensure high air- and watertightness
- the profiles are designed to enable the installation of numerous manual and automatic locking devices available on the market
- the MB-77HS features a high level of compatibility with the ALUPROF MB-86 allowing the door to can be aesthetically combined with windows and some of the same parts can be used to build them
- the wide range of colours means that the door can be used freely for the composition of any interior or exterior décor

TECHNICAL SPECIFICATION	MB-77HS / MB-77HS HI
Frame depth	174 mm (2-rail profile), 271 mm (3-rail profile)
Casement depth	77 mm
Glazing thickness	13.5 – 58.5 mm
MIN. WIDTH OF PROFILES	
Frame	48 mm
Sash	94.5 – 105.5 mm

PERFORMANCE	MB-77HS / MB-77HS HI
Air permeability	class 4, EN 12207
Water tightness	class 9A, EN 12208
Thermal insulation	$U_f$ from 1.4 W/(m <sup>2</sup> K), $U_w$ from 0.84 W/(m <sup>2</sup> K)*
Windload resistance	to class C4, EN 12210

\* -  $U_w$  for MB-77HS HI doors with 3000×2900 mm leaf, and glazing of  $U_g=0.5$  W/(m<sup>2</sup>K) equipped with a Chromatech Ultra spacer