Somec-Sharaf

200

GRIP-200

Grip-O-Glass
system

S E R I E S

SOMEC system, patented at international level, consisting in a combination of self-supporting and unitised modular elements, with openable and fixed cells having sash/panel silicone hooking or silicone-mechanic hooking with no visible profiles. The modular elements equipped with glazed panels or spandrels are fully pre-assembled in suitable areas of the manufacturing departments, under constant control as per SOMEC Quality System.Grip 200 system reduces laying (installation) time as regards the traditional curtain wall systems:modules are equipped with SOMEC FASTBLOCK quick hooking. After the prepositioning phase and stirrups alignment on the main structure of the building the installation can be executed by yard crane or by machinery taken to the floor or on the top.

Transport between the manufacturing area of our establishments and the installation site is made using SHUTTLE containers specially designed by SOMEC which are recyclable structures, with regulating dimension and after modules delivery to the yard they are shipped back to SOMEC, with the advantage of decreasing the rubbish which should otherwise be swallowed after the laying phase.

The profiles of the cells can be both of "cold section" and with "interruption of the thermal bridge" (TT version): they are equipped with double perimetrical multiple fin gasket for water, air and wind tightness.

Every module is completed by an interception gasket, to ensure the outflowing of possible waters infiltration in the stanchion.

The system SOMEC Grip 200 allows the insertion of anti-sun and shading elements in the curtain wall grid. In this system both SOMEC Snap-Lock handles and OpenRound handles can be used, with one or two closing points depending on the window widths, according to the customer planning (design) requests. Impossibility of extirpation of any single cell from the outside which means anti-intrusion guarantee for the wall.

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TECHNICAL CHARACTERISTICS

• The glazed curtain wall has been tested following performances procedures according to UNI-EN 42 (air permeability), UNI-EN 86 (water tightness), UNI-EN 77 (wind resistance).

According UNI-EN 7979 the performances classification is as follows:

Air permeability A3 Class

Water tightness E4 Class

Wind resistance V3 Class

Homologation according to new current European provisions

(Homologation following the new European normative is in progress).

• Acoustic insulation of the standard glazed elements above 35 dB (500 Hz ISO R 717) with possibility of reaching higher performances by inserting adequate packs and components.

• The average thermal insulation of the curtain wall is to be valued considering the dimensions and the performances of glazed or blind modules. The efficient thermal protection offered by the system is based on adequate glazed or dark paintings and the eventual use of thermal insulated profiles.

• The grid of the curtain wall is composed by independent self-supporting elements, so thermal expansions of the profiles is limited to the individual interaxis and the rising movements between components take place on auto lubricating material.

The metal hooking components, both for the structure and the finishes of connector, dilate on anti-friction synthetic material.

• System arranged with components and materials designed to reduce the problems of thermal expansions and the contact between various materials.

• Glazed and/or opaque cells are equipped with an autonomous frame with mechanical hooking and visible perimetrical profile. It is also possible to install a special silicone-structural deduction system to completely eliminate visible external profiles.

• In silicone-joint version the distance between adjacent glazed elements is only 17 mm. The structural sealing is realized in particular areas of the building with continuous monitoring and following a detailed control schedule from the manufacturing process until product is finished.

• The perimetrical external finishes connecting the curtain wall and the masonry can be realized with colours and solutions according to the project requests and completed with insulation material.

• The joints of the printings are equipped with internal or external core adequately sealed and arranged as for their expansion.

• The interlayer fireproof barrier is realized with incombustible sheet metal and with the insertion of fire retardant materials produced as per suitable certification.

ACCESSORIES

• Outwards openings of GRIP-O-GLASS range are equipped with friction limiting arms allowing regulation of the opening as required, with the only limitation due to leaf dimensions (height and width) and weight.

• The patented opening system avoids the end of run counterstroke and is tested at 10.000 opening cycles, according to standards in force. SOMEC has carried out further opening-closing tests up to 30.000 opening cycles in important laboratories.

• Brackets are made of hot dipped galvanized steel or other suitable materials (stainless steels, light alloys, etc.) enabling the adjustment of shifting due to the out of plumb-line of the building on the three orthogonal planes.

• Many different solutions are available for bracketing and anchorage to the main structures of the building, with the possibility of anchoring to the front slab areas, to the floor or to the ceiling, according to the single applications or to site characteristics.

• All anchorage are equipped with a safety steel pin.

ALUMINIUM

Profiles are made of 6060 T5 aluminium alloy in compliance with UNI EN 573-3 and UNI EN 755-2 European normative.

Surface treatment of profiles and of internal finishing will be powder coat, enamel, anodize or electro-colouring as per standard colour charts provided by suppliers or as requested by the customer.

GASKETS

Perimeter gaskets of the cell are all made of Santoprene material either internally and externally. For the opening elements they are thermally welded at the corners.

GLAZED OPAQUE PANELS

The system allows the use of all glass typologies, with possible insertion of spandrels: panels composed of granite sheets, alucobond, aluminium sheets and what else expected by the architectural requirements.

Glazed packages inserted in GRIP 200 system will be able to satisfy any design drawing and to any Designer's expectation on the matter of aesthetics, safety, thermal protection, acoustics, acting loads, etc.

• Internal finishing may be realized with a panel equipped with aluminium connections to the floor (skirting board) and to the window sill. Finishing panels are realized with 14 mm melamine sheets of standard colour.

• Any specific requirement for application of special materials will be forwarded to our technical department that, in collaboration with the Client, will analyse the project request and check the application feasibility.

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