GEODE MX SSG-BG curtain wall

The façade frame
The framework shall be made up of 52 mm module mullions and transoms (steel tube sections and reinforcements defined according to static size regulations for the façade).
Mounting onto the shell shall be carried out using specially designed hooks which allow three-dimensional adjustment.
The mullion/transom intersection shall be square cut with a fitting attached to transom for a face-fixed installation or using a specific connection for fitting as work progresses.
Sealing of the intersection shall be obtained using an injection of sealing butyl putty in the connecting piece (in all cases, sealing may be carried out in the workshop or on site).

Sealing:
Framework: In all cases carried out by an injection of butyl sealing putty in the fitting (face-fixed) or in the specific component (fitted as work progresses) for this purpose.
In each case, sealing can be carried out in the workshop or on site.
Infill: By the EPDM gaskets in the form of frames vulcanized in the corners avoiding all unforeseen events connected to manual sealing.
The principle of indoor sealing allows access to the tip of the profile frameworks without breaking the sealing process and to safely accommodate all fitted systems such as sun-screens, exterior blinds, etc.

Structural Sealent Glazing (SSG) ASPECT « Smooth Façade »

The load bearing structure allows for an unframed façade in structural sealent glazing (SSG) in which only the glazing is visible. The frames of the fixed and opening leaves of top hung open-out openings are separated by a 22 mm trim gasket, 40 mm for tilt/turn openings and 50 mm for emergency access.

Fixed frames:
The frames are made of reduced section tubular profiles for a maximum glazing expanse.
Protection and finish of the trim gasket by EPDM peripheral gaskets in the shape of vulcanized frames.
The mounting of modules onto the frame shall be carried out by a technique referred to as “hinging”

Pier or opaque spandrel frames:
They shall be made of 6 mm flecked gloss on the outside bonded onto the aluminium frame. A beaded glazing allows the support of a 32 mm insulating panel creating a 20 mm air circulation space. Their mounting is the same as for fixed frames.

Beaded Glazing (BG) ASPECT “Picture frame appearance facade”

The aforementioned load bearing structure permits a beaded glazing façade of the opening frame design, giving the façade a chequered effect. The frames of the fixed and opening parts of top hung open-out and/or tilt/turn or emergency access are separated by a 24 mm trim gasket.
The Beaded Glazing façade (fixed and opening frames) has been subject to initial testing (ETI) permitting the manufacturer to benefit from the "EU façade label".

Fixed frames:
The frames are made of reduced section tubular thermal bridge break profiles for a maximum glazing expanse.

Protection and finish of the trim gasket by EPDM peripheral gaskets in the shape of vulcanized frames.
The mounting of modules onto the frame shall be carried out by a technique referred to as “hinging”. The glazing volumes are supported mechanically by the exterior glazing beads.

Pier or opaque spandrel frames:
They shall be constructed from a panel 32 mm thick maximum. Their mounting is the same as for fixed frames.

GEODE MX SSG-BG curtain wall (continuation)

Glazing
CEKAL label for insulating glazing partitions.
Volume fitting from 6 to 32 mm for top hung open-out fixed and opening frames.
Volume fitting from 23 to 31 mm for SSG tilt/turn, inward opening and Hopper openings.
Volume fitting of 31 mm for SSG emergency access opening.

Façade openings
The openings shall be incorporated without modifying the outer aspect of the grid façades (traditional, horizontal and vertical grid):
The hidden frames shall come with 23 or 31 mm glazed partitions with the CEKAL*, SSG* type label in compliance with technical notice, with rounded edges on the 4 sides.

Volume fitting shall be obtained using bonding onto an aluminium strip (produced to CEBTP specifications) via a bonding putty (SNJF label or with technical notice). The principle shall be subject to CSTB technical notice (tilt/turn, inward opening, Hopper, emergency access: glazing with bordered frame, top hung open-out: glazing with non-edged frame). Bonding shall be carried out by a qualified company in accordance with the directives and technical documents from the aluminium and putty suppliers.

Exterior sealing shall be obtained by a low module gasket on butt strip. The plain end of the opening frame glazing shall be flush with the fixed frames.

(Additions per type of opening frame)
• Top hung open-out opening frame:
-Hardware fitting using adjustable stainless steel parallelogram stays which shall be chosen according to the constraints of use.
-Centralized locking with multipoint lock.
-Sealing between fixed and opening frames provided by 2 indoor and outdoor EPDM* rabbet gaskets.

• Turn and tilt opening frame:
-The opening frame profiles shall have sloping panes and shall allow a space for handle operation making it easy to grip.
-Hardware fitting concealed in the rebate (invisible hinges).
-Stainless steel hardware with a half-turn handle, rods, a stay lock and anti-false move system.
-Sealing between fixed and opening frames using EPDM* gaskets.

• Inward opening type frame:
-The opening frame profiles shall have sloping panes and shall allow a space for handle operation making it easy to grip.
-Hardware fitting concealed in the rebate (invisible hinges).
-Quarter turn handle.
-Sealing: between frame and opening using EPDM* gaskets – drainage of possible water ingress on the horizontal cap.

• Hopper window opening:
-2 stay arm fittings concealed in the rebate, invisibles hinges.
-Latch lock.
-Sealing between frame and opening using EPDM* gaskets – drainage of possible water ingress perpendicular to the horizontal cap.

• Emergency access:
-The glazing shall measure 31 mm and have a maximum weight of 100 kg.
- Hardware concealed in the rebate with square drive lock system.