NEW NAUTILUS EVO Specification item

Creation of paving slab on suitable horizontal formwork/on precast concrete slabs. of total thickness __cm, lightened with elements in recycled polypropylene such as NEW NAUTILUS EVO by Geoplast SpA (supplier), truncated pyramid-shaped with two lightening grooves per side and bevelled edges with semi-cylindrical pilasters equipped with prismatic stiffening triangular base, equipped with a single semicircular hollow at the top and 8mm thick cage spacers, plant size 52 x 52 cm, height __cm (according to the project), and equipped with conical feet attached to the formwork, height __cm,
The lightening formworks must be equipped with a central through cone, designed both to ensure that air escapes during the casting of the lower slab, and to guarantee the correct execution of the casting. The formworks must be equipped with removable spacing tabs to connect the formwork to each other.

NEW NAUTILUS EVO elements must meet the following requirements:

1. Executive slab design accompanied by graphical drawings and calculation report drawn up or approved by NEW NAUTILUS EVO lightening supplier.
2. Dry walkability of at least 190 daN proven by proof of resistance using a prismatic punch measuring 8x8 cm on the upper face of the formwork.
3. Certification of fire resistance issued by EOTA member body (European Organisation for Technical Approvals) in compliance with UNI EN 1365-2 2002 and 1363 2012, performed on a standard test piece measuring 2.98 x 7.33 m and 28 cm thick and subjected to a last pressing moment of at least RE180' with at least 30 mm of iron cover.
4. Acoustic performance measurement in situ showing an airborne acoustical noise abatement value of at least R' w= 56 dB and a floor-to-foot sound pressure level of not more than L' n, w = 82 dB referring to a floor thickness of 25 cm and 16 cm lightening.
5. To be produced by Company certified according to ISO 9001 standard.

The price includes:

a) Reinforcement with electro-welded steel rods or meshes for reinforced concrete type B450C in quantities, pitch and diameter appropriate to the design stresses.
b) The characteristic resistance concrete casting (minimum C20/25), machining class and suitable aggregate diameter (recommended S4 or S5 flux) in order to obtain a perfectly smooth and professional intrados. The casting must be carried out in two phases, the first one up to fully cover the support feet and the edge of the formwork, and in any case not more than 3 cm above them, then proceeding with the second casting phase until the slab is finished. The second phase must however be carried out as soon as the setting of the first casting phase begins and concrete of a different consistency class from the first phase can also be used. The casting operations must be followed by appropriate vibrations.
c) A charge for the formation of holes of dimensions and sections as shown in architectural drawings and all charges, including for provisional works, cuttings and any other charges necessary to provide the work in perfect working order.

The lower horizontal formwork and the corresponding supporting and safety systems are excluded