SPECIFICATIONS FOR CIKLA SYSTEM
REQUIREMENTS FOR EXECUTION PER WORK UNIT

UNIT OF WORK: VEGETAL ROOF WITH OWN SUBSTRATE AND AUTOCHTHONOUS FLORA. CIKLA SYSTEM.

1. TECHNICAL SPECIFICATIONS

Green roof with native flora and own substrate, Cikla system, with a slope between 1% and 5%.

SEPARATING, DRAINING AND RETAINING LAYER: 20mm thick HDPE nodular draining membrane with a retention capacity of 6 ltr/m2.

ABSORBENT AND FILTERING LAYER SG-L25: 25mm thick inert substrate SGL25 for green roofs.

EXCAVATION SUBSTRATE: analyzed and improved according to analysis if necessary.

IRRIGATION SYSTEM SG-R16: composed of self-compensating irrigation pipes with drippers, including proportional parts of elbows, unions, and distribution pipes.

IRRIGATION CENTRALIZATION SG-A24R: installation, programming, and setup of an automatic fertilization dosing irrigation system, and GALCON GSI remote irrigation control and management system with flow and electrical alerts via email.

VEGETATION FINISHING: with 16 plants/m2 of native species selected by a SingularGreen technician.

2. APPLICABLE REGULATIONS *

- CTE. DB HS Health.
- CTE. DB SI Fire Safety.
- NTE-QAA. Roofs: Green roofs.
- NTJ 11C Green roofs.

*This regulation is mandatory in Spain. If the work is to be carried out in another country, please consult the specific regulations of that country.

3. MEASUREMENT CRITERIA IN PROJECT

It will also be checked that the vertical walls of the cofferdams, perimeter walls, and other construction elements are finished.

4. PREVIOUS CONDITIONS TO BE FULFILLED BEFORE EXECUTION OF SUPPORT WORK UNITS

4.1 OF THE SUPPORT

It will be verified that the surface of the resistant base is uniform and flat, clean, and free of construction remains.

It will also be checked that the vertical walls of the cofferdams, perimeter walls, and other construction elements are finished.

4.2 ENVIRONMENTAL

Works will be suspended in case of rain, snow or wind speed exceeding 50 km/h, and the application should be carried out under ambient thermal conditions within the prescribed margins in the corresponding application specifications.

4.3 CONTRACTOR'S RESPONSIBILITIES

The adopted construction solution will have received prior acceptance from the manufacturer.

5. PROCESS OF EXECUTION

5.1 Measures to ensure compatibility between different products, elements, and construction systems that make up the roof and are independent of the unit of work will be taken into consideration.

Special attention will be paid to the incompatibilities of use specified in the technical data sheets of the different elements that may compose the other components of the roof and that are not part of this unit of work (resistant support, slope formation, vapor barrier, thermal insulation, waterproofing, and separation layers).

5.2 EXECUTION PHASES

- Layout of singular points.
- Cleaning and preparation of the surface.
- Placement of waterproofing.
- Placement of the separation layer under protection.

- Placement of the drainage and water retention layer.
- Placement of the filtering layer.
- Placement of a first layer of substrate.
- Installation of irrigation system.
- Placement of the second layer of substrate.
- Filling of the space between the edge of the roof and the vegetation with pebbles.
- Vegetal finishing:
- General checking.

5.3 FINISHING CONDITIONS

The watertight conditions will be basic.

6. MEASUREMENT CRITERIA AND PAYMENT CONDITIONS ON-SITE

The surface area actually executed according to the Project specifications will be measured in horizontal projection.

This must include the interior faces of the parapets or perimeter walls that limit said surface.

The price does not include waterproofing.

7. CONSERVATION AND MAINTENANCE

- The roof will be protected from any mechanical action not foreseen in the calculation until the substrate is placed.
- The placement of any element not foreseen in the project that may perforate the waterproofing will be avoided.
- The dumping of construction waste on the vegetative layer will be avoided.