

ITEM OF SPECIFICATIONS CONNECT SYSTEM

Update of 28/09/2023

Supply and installation of SUN BALLAST CONNECT system to produce photovoltaic plants on flat roofs, made of ballasts in concrete having the following specifications:

- Exposure Class: XC4;
- Strength Class: C32/40;
- Minimum Cement Content: 340 kg/m³;
- Class of Fire Resistance: Class 0 (Italian class) A1 (European class with ref. UNI EN 13501-1:2019);
- Maximum Depth of H₂O Penetration under the Pressure 500 kPa: 15 mm;
- Medium Depth of H₂O Penetration under the Pressure 500 kPa: 10 mm;
- Weight tolerance: ±5%;
- Determination of tear force/tightness (pullout) of M8 threaded insert embedded in CLS element for direct traction of M8 threaded bar screwed into it.

Result of the tensile test with load 15KN (1530 kg):

- No slipping of the threaded insert;
- Breakage of the threaded rod.

The types of ballast connect are:

- FRONT ballast (CF) Sun Ballast with M8 threaded insert for panel fixing;
- CENTRAL ballast (CR-CRC-CRV-CRR) Sun Ballast with M8 threaded insert for panel fixing;
- TERMINAL ballast (CRT-CRTV-CRTT) Sun Ballast with M8 threaded insert for panel fixing.

Accessories for SUN BALLAST – CONNECT SYSTEM

- Sheath already cut (25X15) for ballast;
- Aluminum central brace;
- Aluminum terminal brace;
- Screw for central and terminal braces INOX A2 M8x50/55;
- Additional weights of 30Kg;
- Ballast doubling plate (when required by project);
- No Flex for panels over 2m.

General assembly description:

STEP 1: Establish the position of the photovoltaic plant on roof in order to lay the sheath;





- STEP 2: Position the ballast on the sheath;
- STEP 3: Lay the photovoltaic panel on the ballasts;
- STEP 4: Install the central and terminal braces with crews;
- STEP 5: Screw the braces to fix the photovoltaic panel;
- STEP 6: Install potential accessories, as shown on the drawing.

For complete information, refer to the assembly instructions booklet.

