

Rapporto di prova n. **20RP02636** del **17/09/2020**

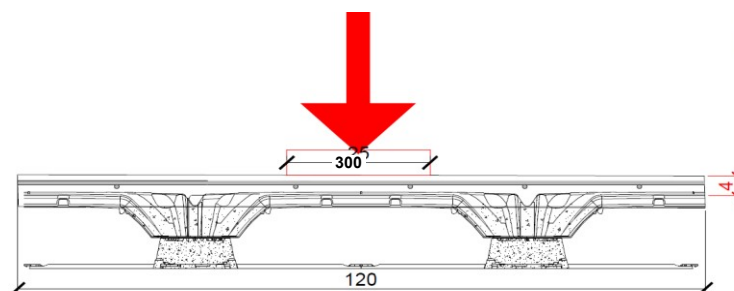
Cliente: **GEOPLAST SPA, VIA DEI MARTIRI DELLA LIBERTA' N.6/8, 35010 GRANTORTO (PD)**
 Luogo campionamento: **CUSTOMER**
 Data ricevimento: **14/09/2020**
 Campionamento effettuato da: **CUSTOMER**
 Prelevato/consegnato da: **CUSTOMER**
 Data prova: **16/09/2020**

Sample	Sample number	Sample description
20DM18391/1	A_1	Modular element Smartmodulo with concrete of 4 cm in class C32/40, spacers from 1cm and steel mash class B450C Ø6mm@100mm
20DM18391/2	A_2	Modular element Smartmodulo with concrete of 4 cm in class C32/40, spacers from 1cm and steel mash class B450C Ø6mm@100mm
20DM18391/3	A_3	Modular element Smartmodulo with concrete of 4 cm in class C32/40, spacers from 1cm and steel mash class B450C Ø6mm@100mm

MAXIMUM LOAD TEST CONCENTRATED ON PUNCH WITH DIAMETER 300mm UNTIL PRODUCT BREAKAGE

Sample description

The samples to be tested were assembled by the customer and brought to the laboratory ready for the test.



Test description

The tests of resistance to the maximum concentrated load were carried out by applying the load on a punch with a diameter of 300mm.

The load is concentrated in the center of the top face of the specimen.

The load is increased until the maximum value is reached, using a hydraulic jack operated by an electric manual pump. Vertical displacement was detected with a displacement transducer.

Used equipment:

- Displacement transducer type LTD 200 AEP precision 0.001 mm stroke 200 mm;
- Load cell type 100t AEP nominal load 300 kN;
- Hydraulic jack (ENERPAC RAR308 DA 30ton) manually operated by an electric pump.
- Real Time Controller RTC 9001 P STD acquisition unit

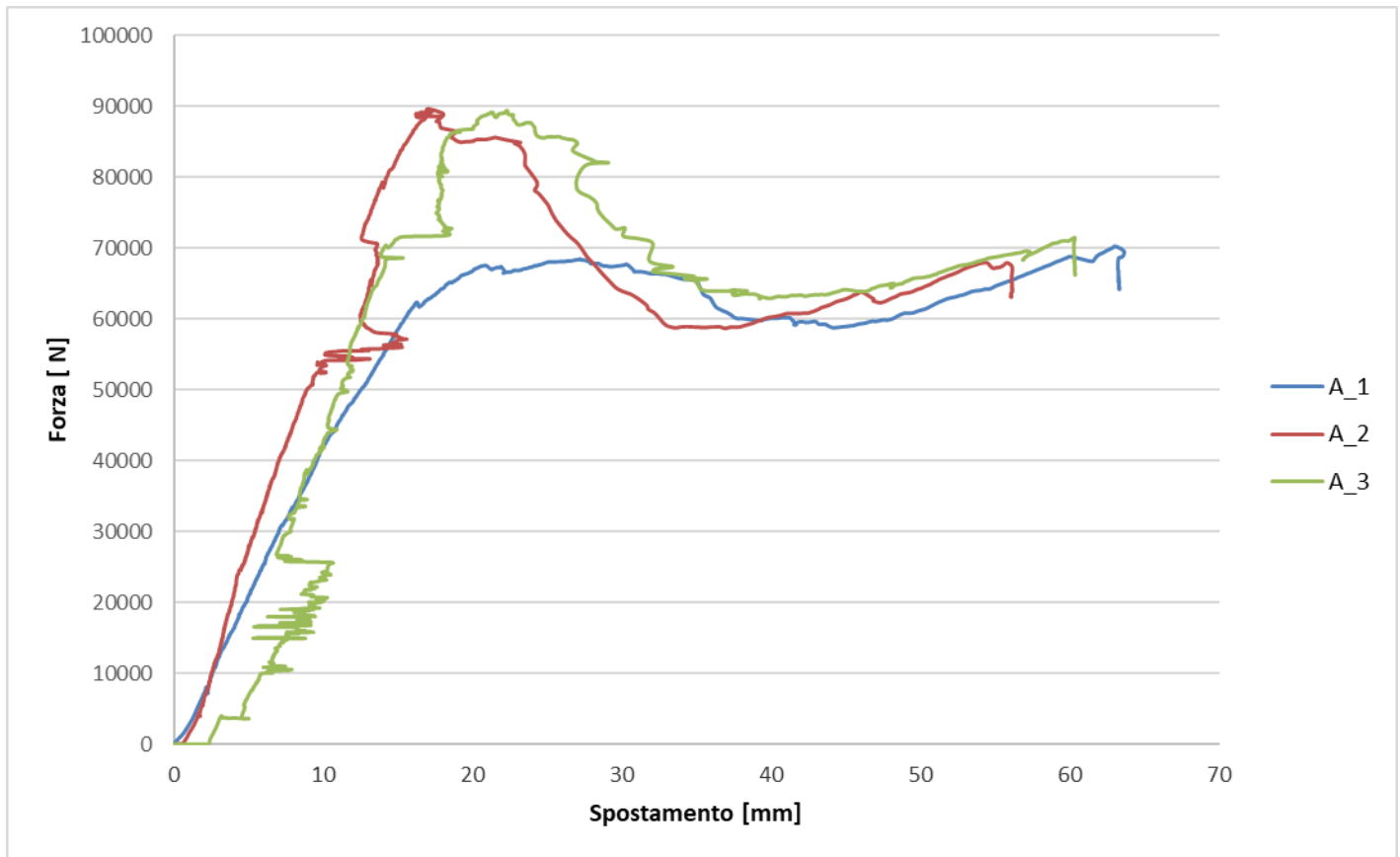
Il Direttore
 Ing. Manuel Cazzola

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Results

The following table shows the values obtained from the static load tests. The displacement force graph of the tests performed on the samples is shown in Figure.

Sample N°	Nominal dimensions l x w [cm]	Collapse load		Type of break Of the sample [-]
		force [kN]	displacement [mm]	
20DM18391/1	121x121	70,296	63,06	Breaking due to punching
20DM18391/2	121x121	89,688	17,05	Breaking due to punching
20DM18391/3	121x121	89,435	22,27	Breaking due to punching



Force-displacement graph of the tests performed.

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Photographic documentation

Sample A_1



Sample A_2



Sample A_3



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