



PLASTIC IN THE FUTURE

Certificate n° 641/4/01

Applicant: GEOPLAST S.p.a
Via Martiri della Libertà, 6/8 – 35010 Grantorto (PD)

Indications of the applicant:

Samples of “Modulo 27”, “Modulo 9”, “Modulo 45” and “Multimodulo 25” for floor covering

Test: PUNCHING WITH Ø 25 CM CYLINDER

Standard: Test methods agreed with the applicant.

Material: N°. 13 samples of modules-formwork complete with concrete casting.

Date of acceptance: 30/06/04

Test date: 5 and 6/07/04

Equipment:
-Load frame with Enerpac thrust cylinder;
-Enerpac P-462 pump, maximum pressure: 700 bar;
-Wika 891.23.510 pressure transducer, field 0 – 1000 bar;
-Penny-Giles HLP 190/FS1 potentiometric displacement transducer, maximum run: 50 mm, linearity: 0.2%
- Telea acquisition unit.

Results: The results are given on the following pages

The Technical Manager
Eng. Alfio Vigilante

The Laboratory Manager
Eng. Alfio Vigilante

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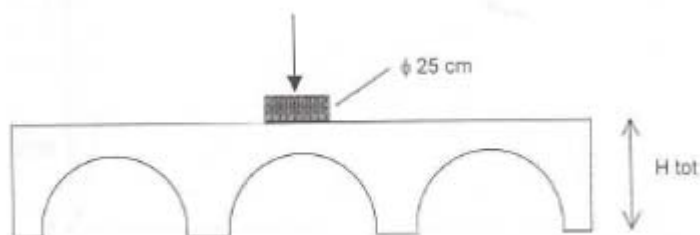
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Sample	Description	Floor dimensions cm	Htot cm	Maximum load daN
A	Modulo H45 with 10 cm slab	119x119	55	12880
B	Modulo H45 with 15 cm slab	119x119	60	20000
C	Modulo H45 with 5 cm slab	119x119	50	6400
D	Modulo H45 with 8 cm slab	119x119	53	10400
E	Multi-modulo H25 with 3 cm slab	107x107	28	8340
F	Multi-modulo H25 with 5 cm slab	107x107	30	15770
G	Multi-modulo H25 with 10 cm slab	107x107	35	29300
H	Multi-modulo H25 with 15 cm slab	107x107	40	39550
I	Modulo H27 with 3 cm slab	100x100	30	4270
L	Modulo H9 with 4 cm slab	87x87	13	8740
M	Modulo H9 with 7 cm slab	87x87	16	17000
N	Modulo H9 with 10 cm slab	87x87	19	27000
O	Modulo H9 with 15 cm slab	87x87	24	33360

Test layout



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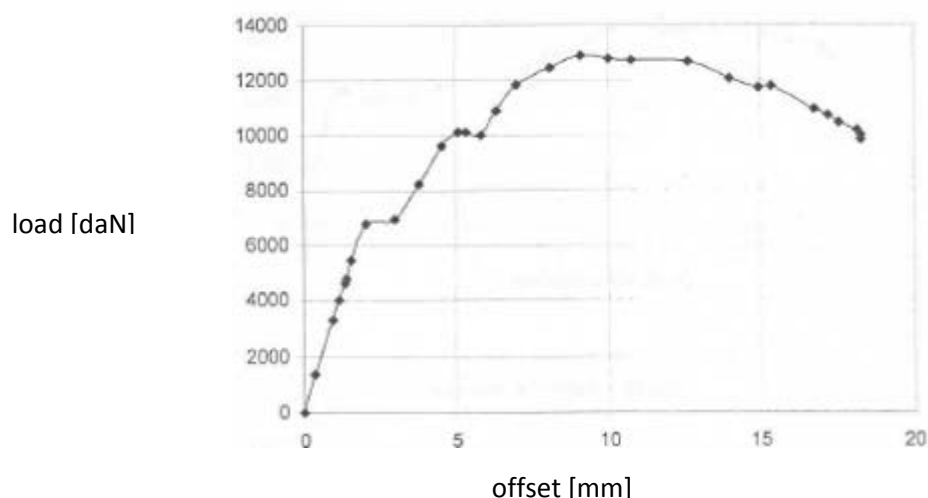
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Load-offset diagrams

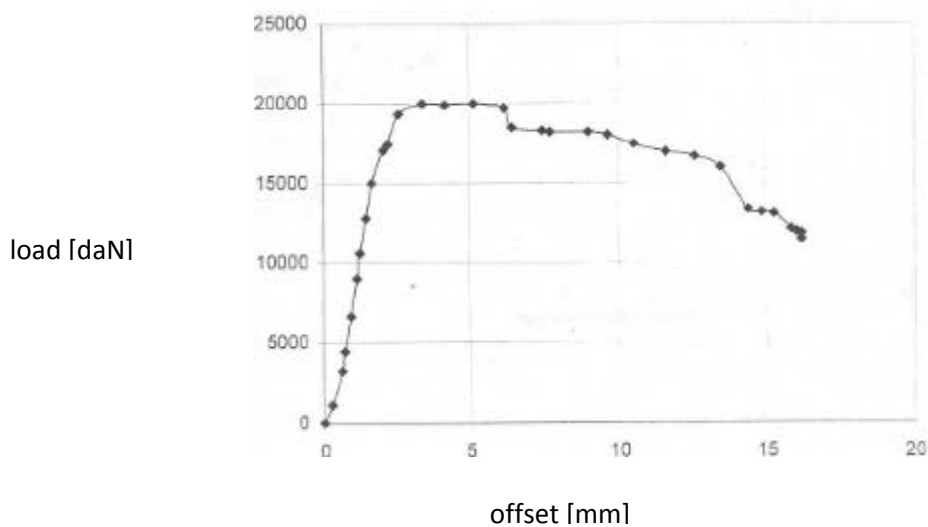
Note

The maximum load peak stated in the table is not generally present as the point recorded in the load – offset curve.

sample A: Htot = 55 cm



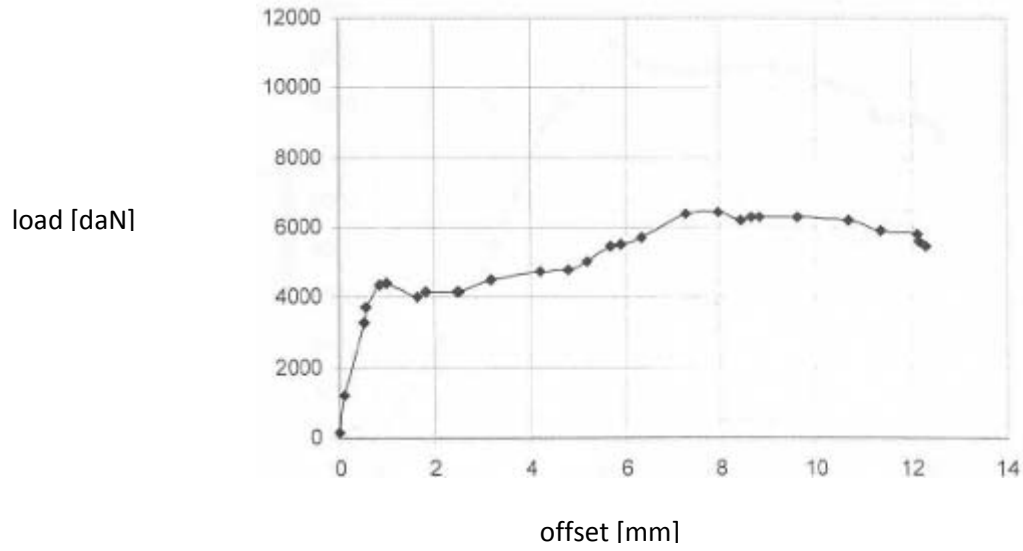
sample B: Htot = 60 cm



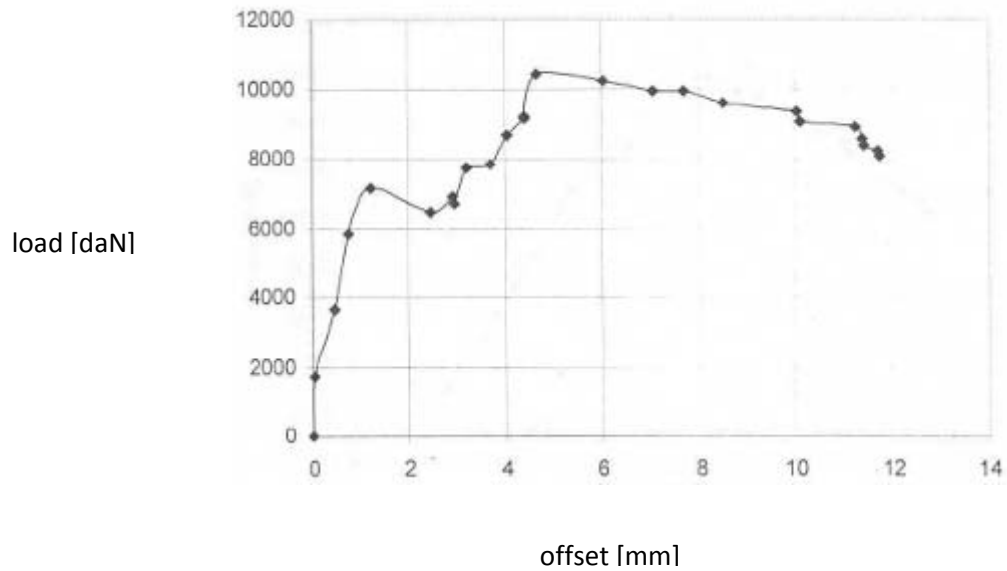


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sample C: Htot = 50 cm



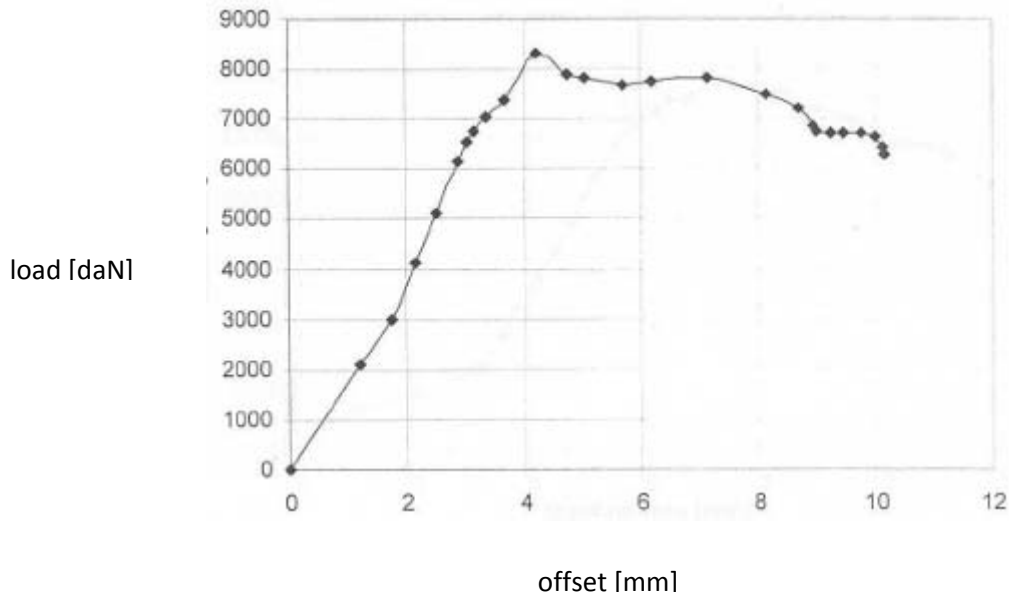
Sample D: Htot=53 cm



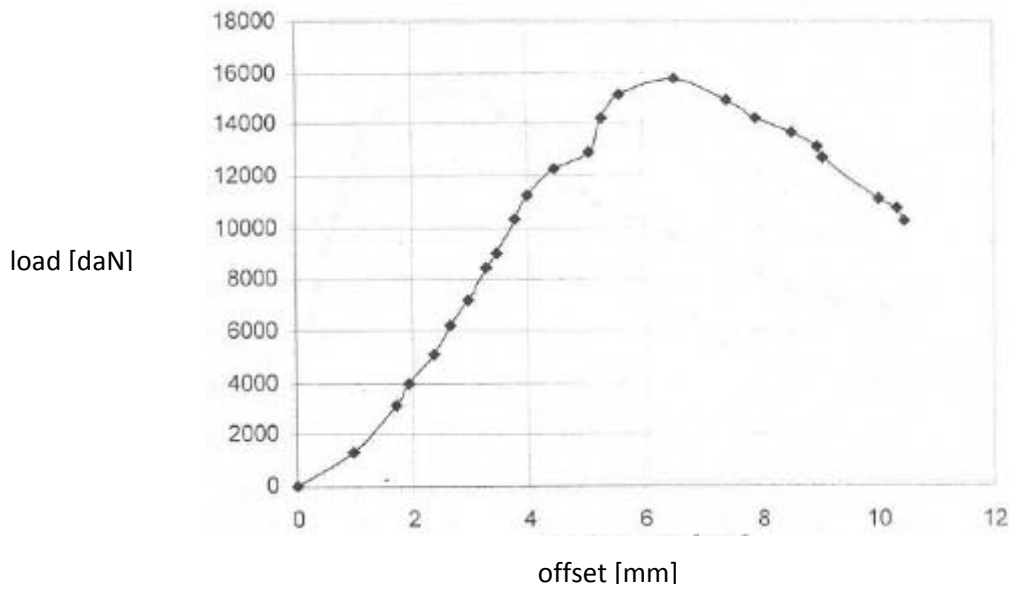


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Sample E:Htot=28 cm



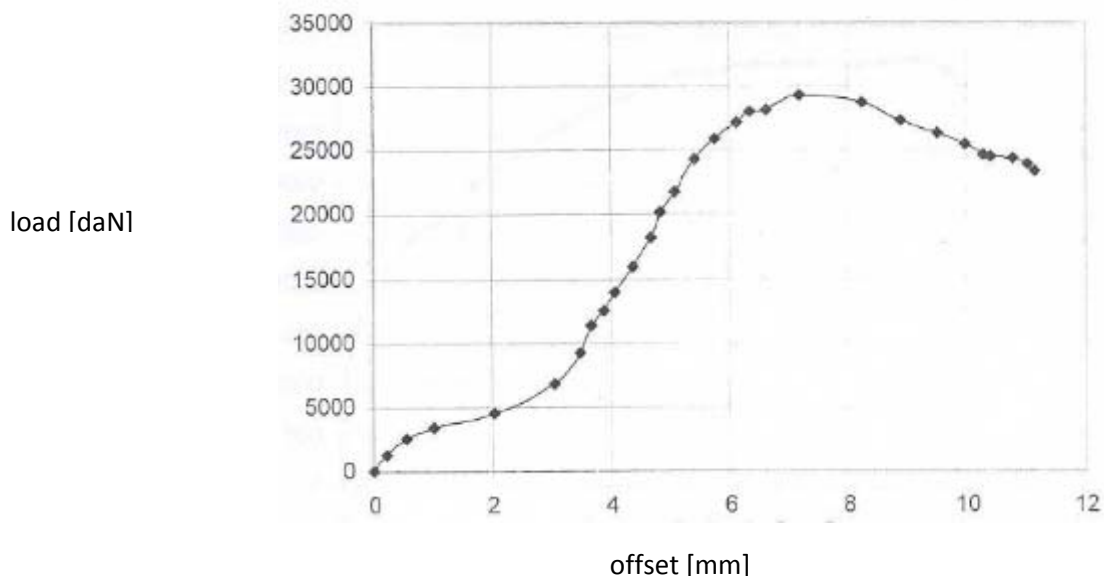
Sample F:Htot=30cm



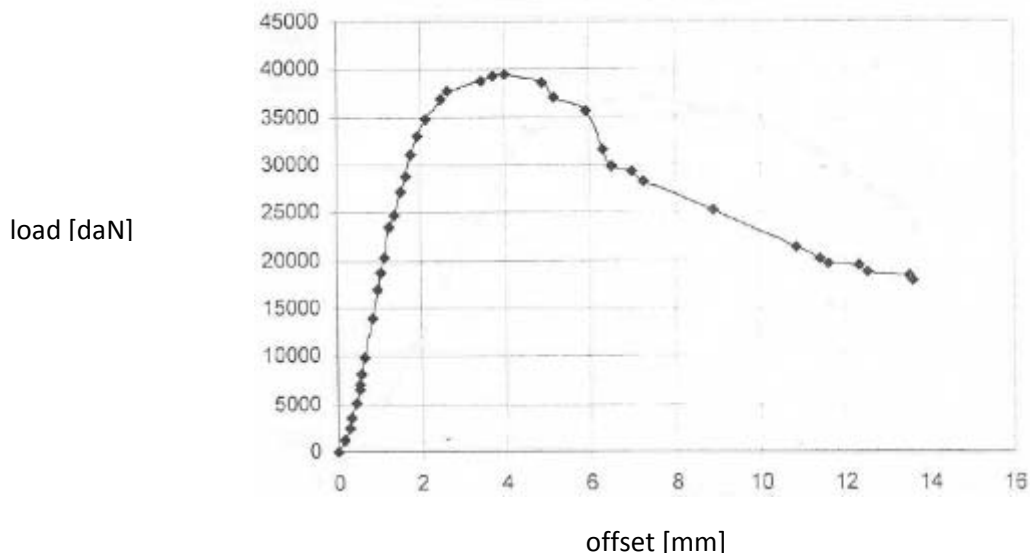


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Sample G:Htot=35cm



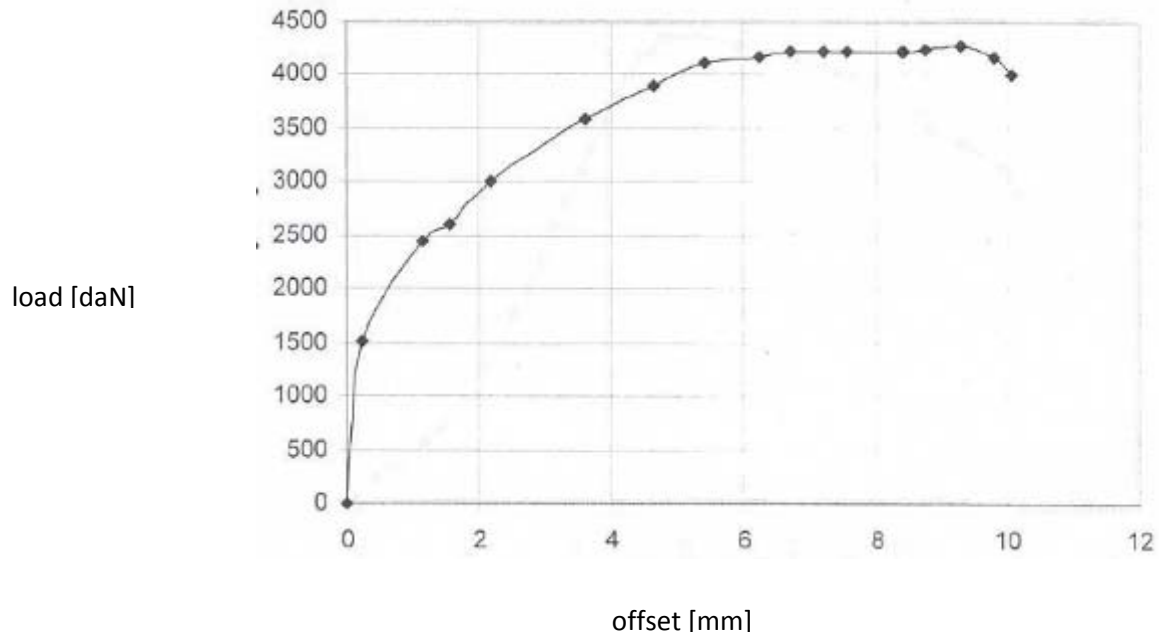
Sample H:Htot=40cm



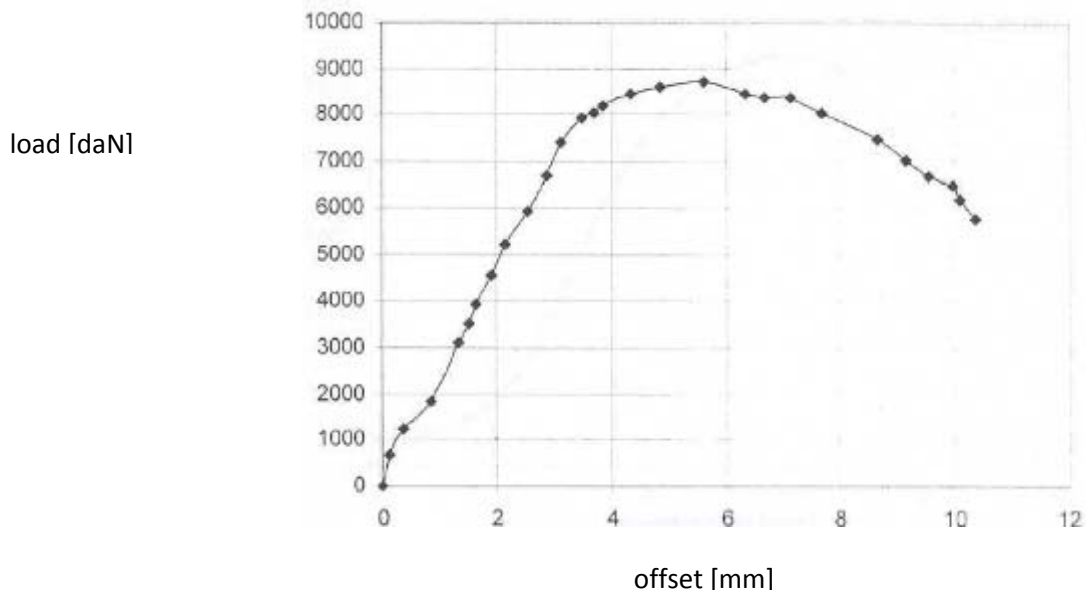


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Sample I:Htot=30cm



Sample L:Htot=13cm



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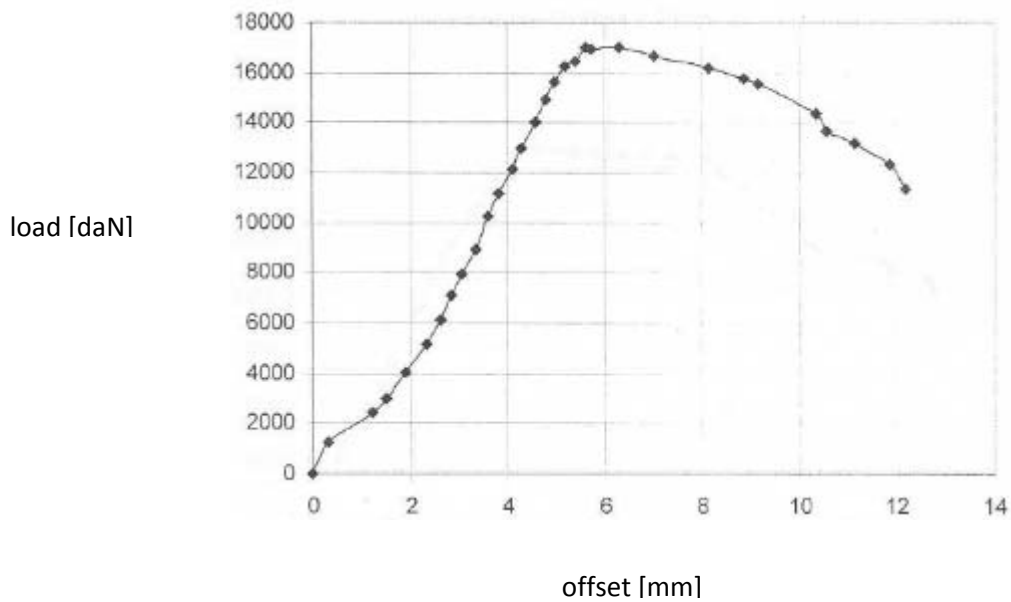
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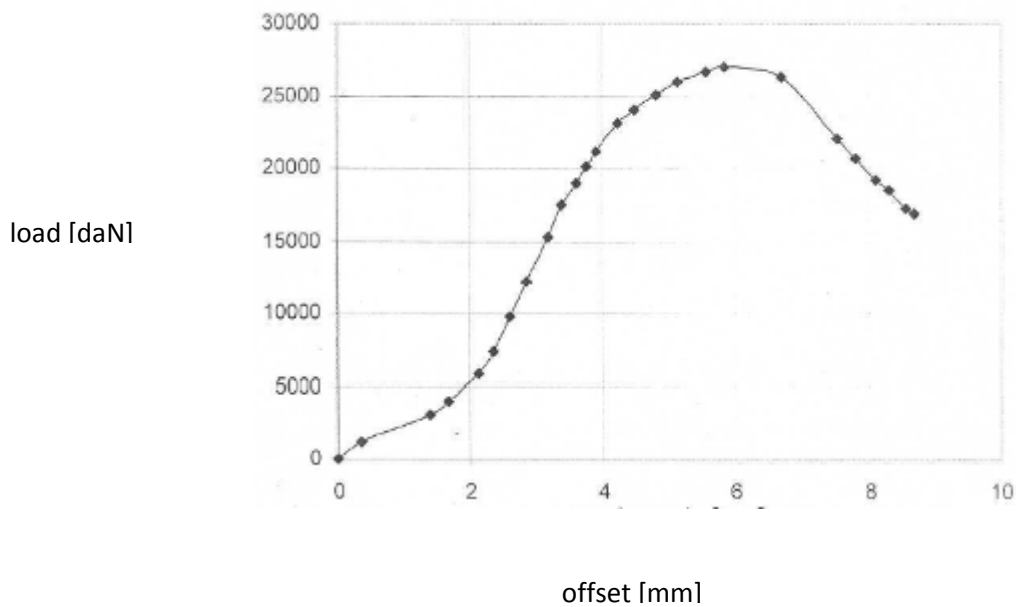


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Sample M:Htot=16cm



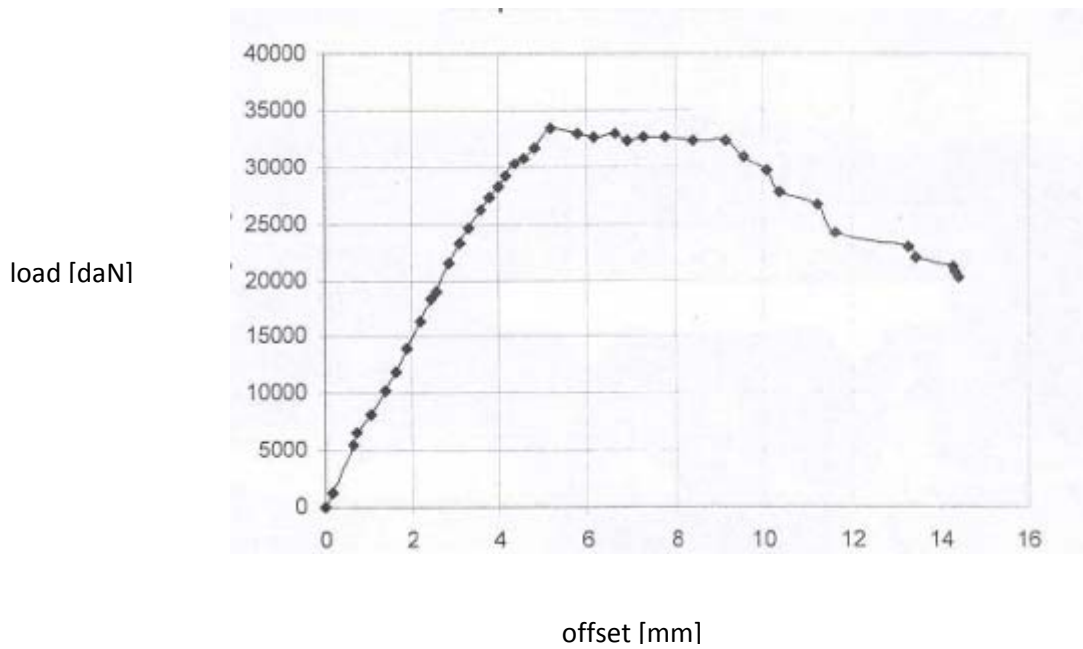
Sample N:Htot=19cm





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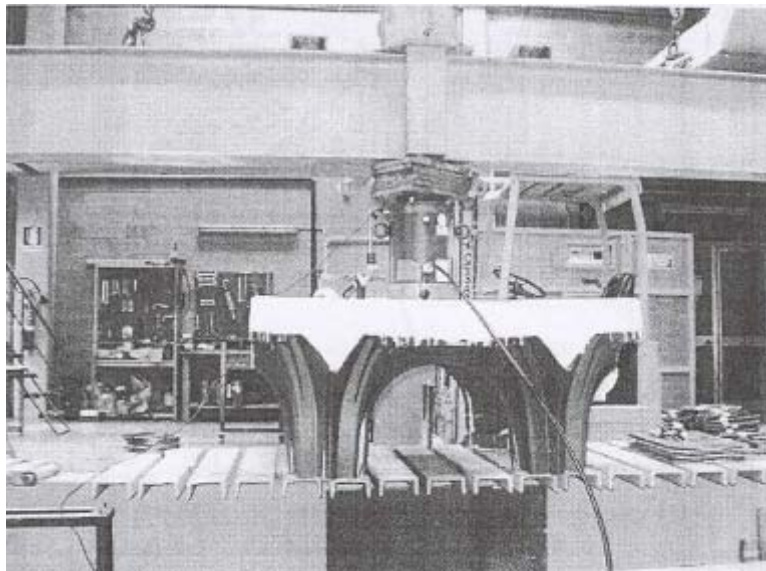
Sample O:Htot=24cm



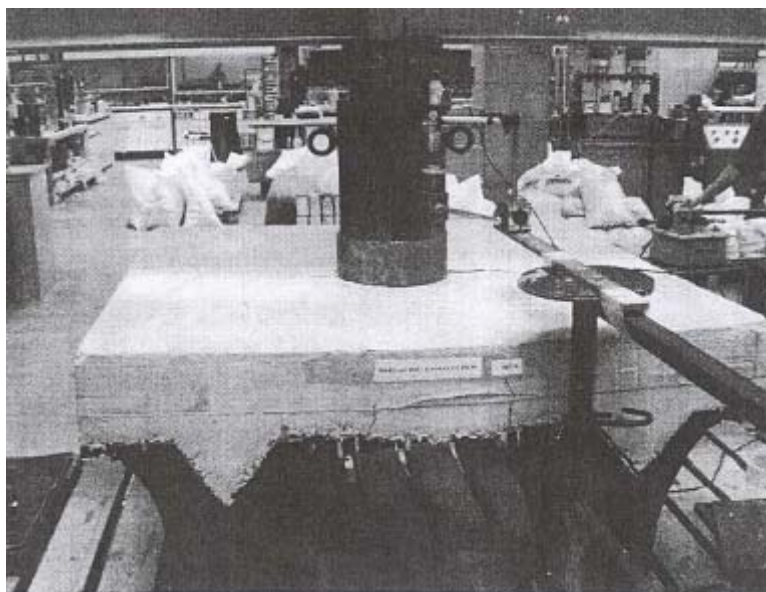


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Photographic documentation:



Sample A



Sample B

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Geoplast S.p.A.
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35010 Grantorto (PD)
Italy

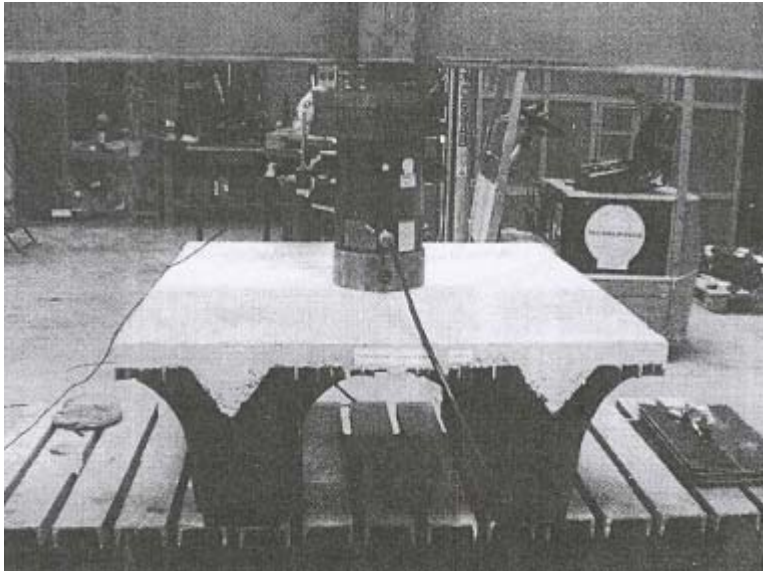
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Cod. Fisc. e P. IVA 03285310284
Reg. Impr. PD n. 03285310284
R.E.A. n. 300667

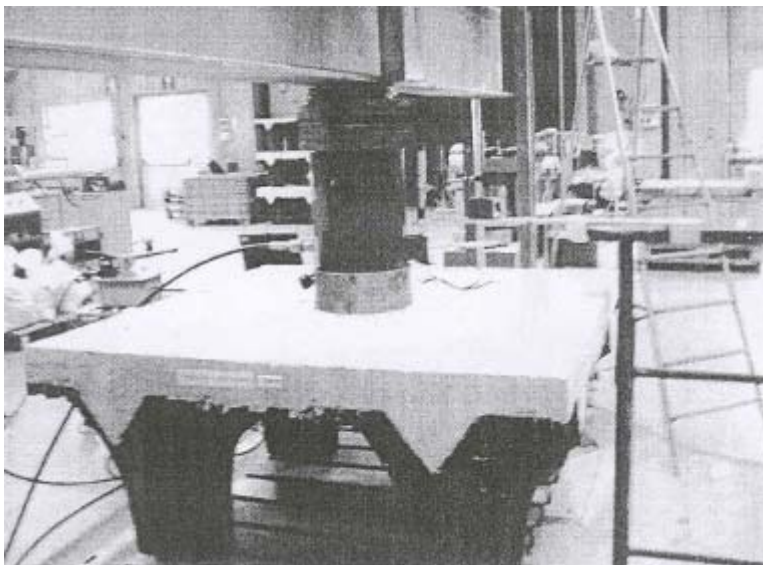




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Sample C



Sample D

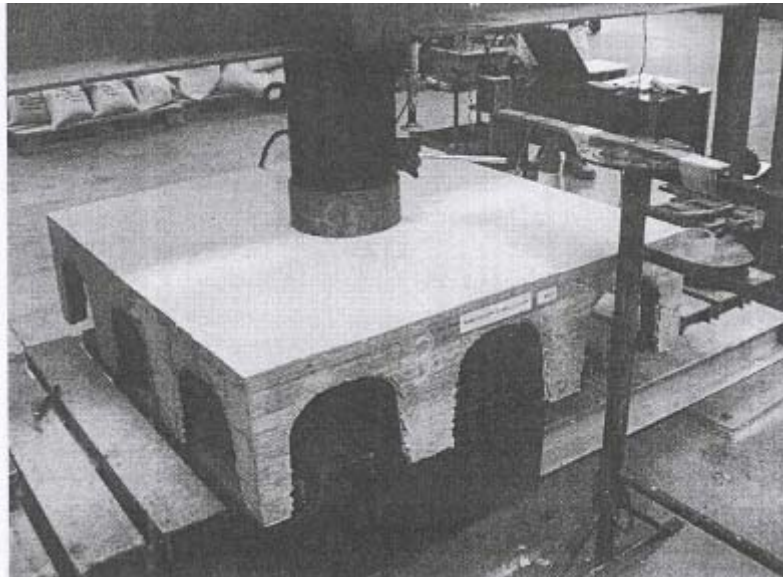
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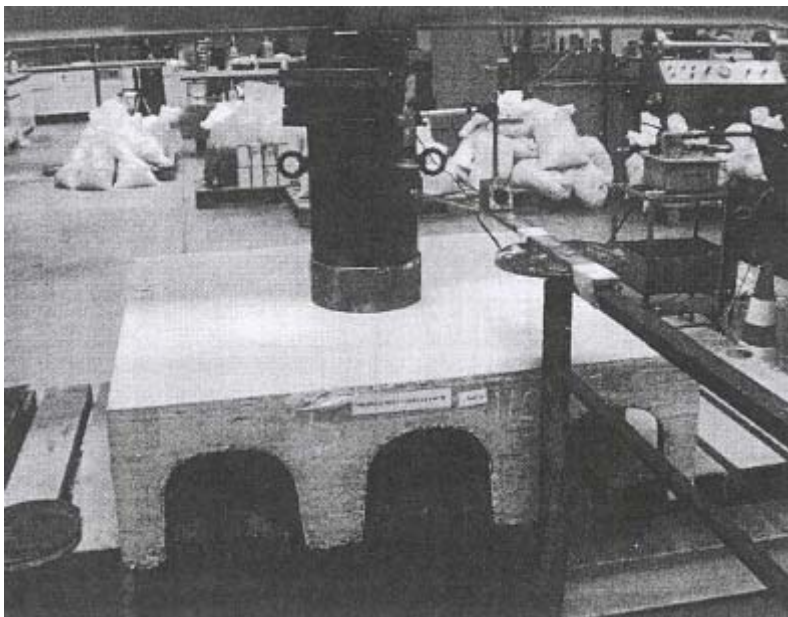




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Sample E

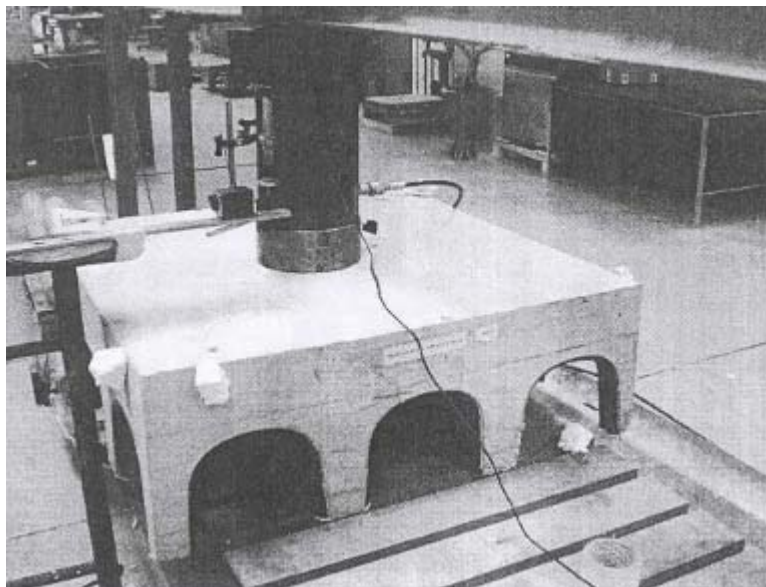


Sample F

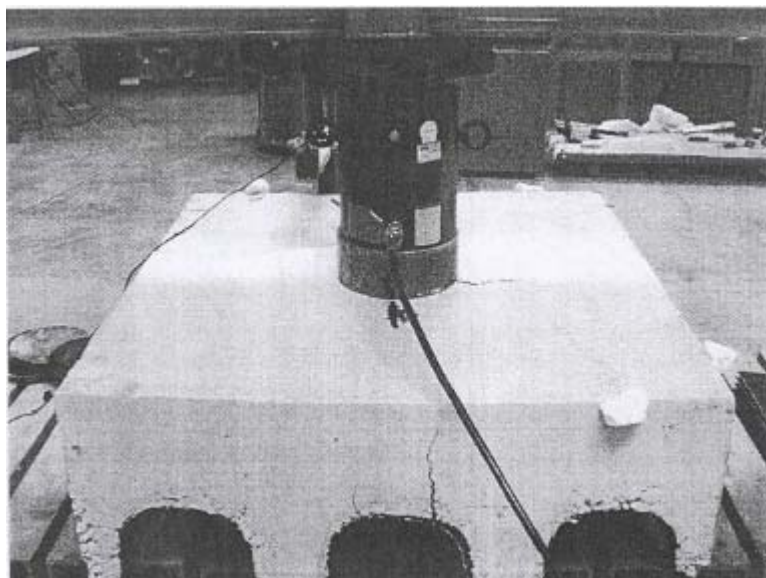




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Sample G

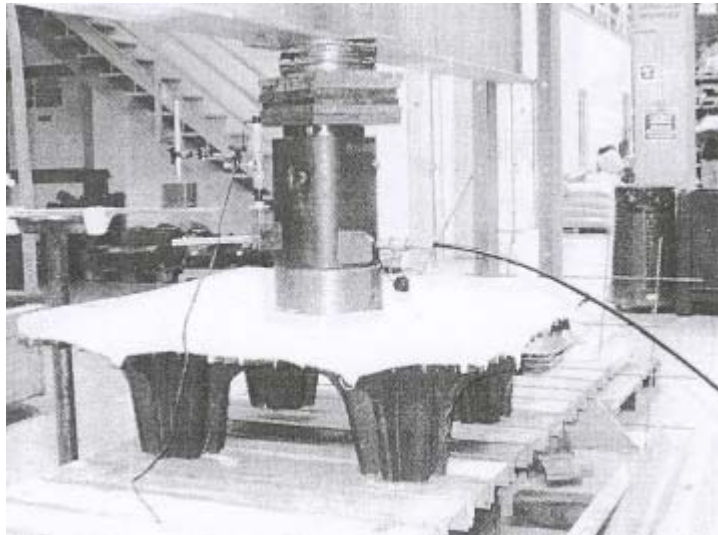


Sample H

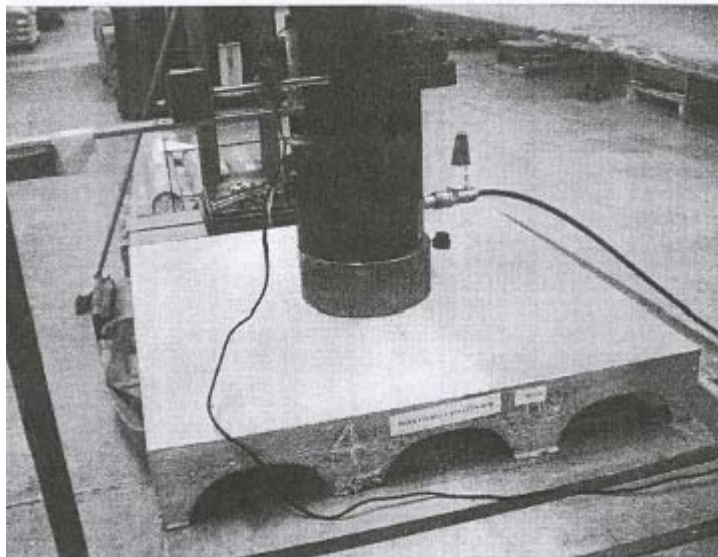




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Sample I

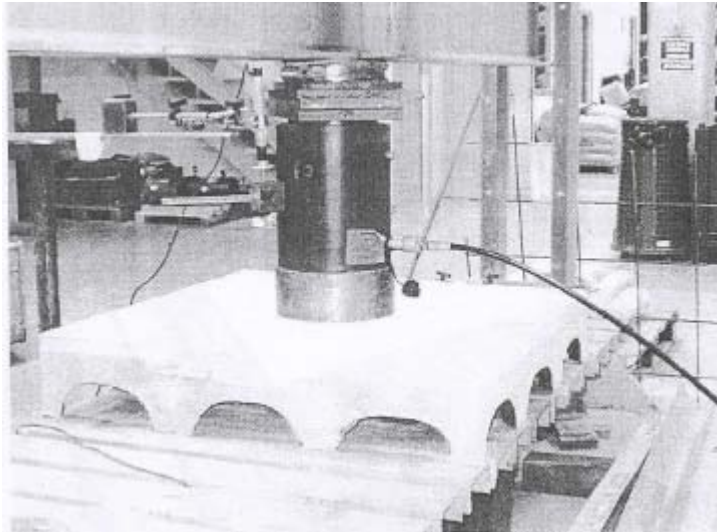


Sample L

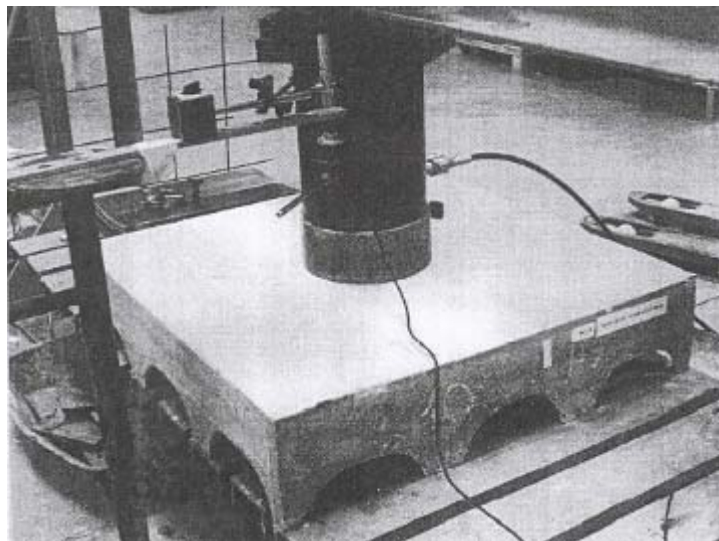




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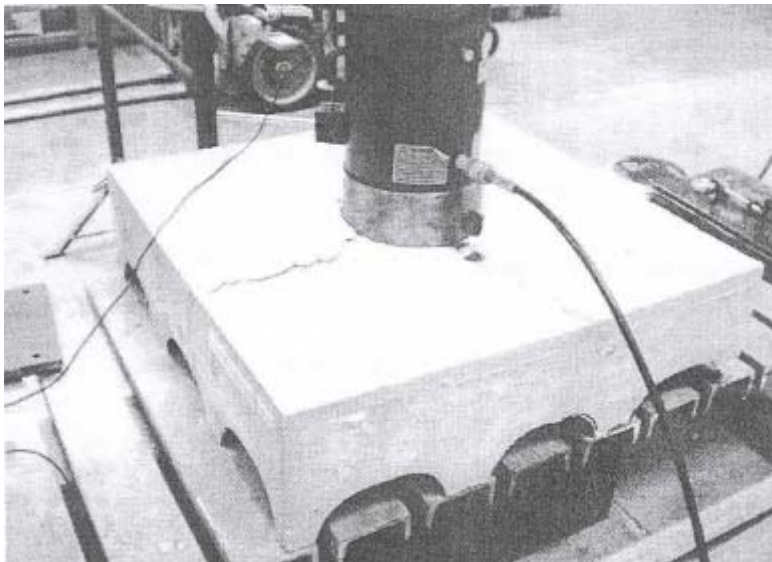
Sample M



Sample N



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Sample O