

# REPORT OF LOAD TESTS ON CABLEDUCT U3-SPECIAL UNDERFLOOR TRUNKING SYSTEM

Summary No. 0369

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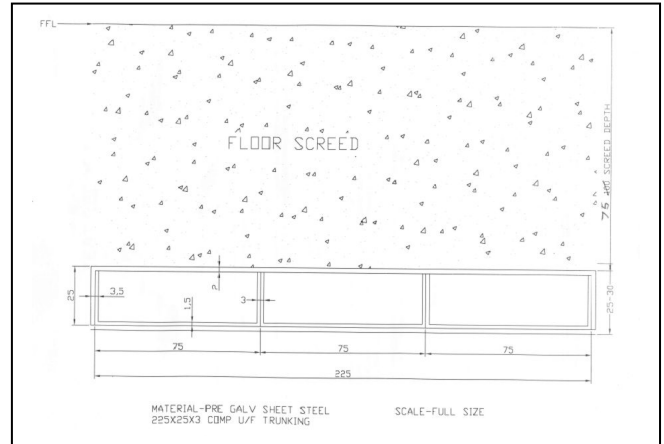
## Project

CERAM Building Technology was requested by the client, Cableduct Ltd, to undertake loading tests on the U3-Special Underfloor Trunking System when cast into screed.

## Client



**Cableduct Ltd.**  
30 Selhurst Rd  
London  
SE25 5QF



## Sample Preparation

Three samples of trunking were cast centrally into blocks of screed as installed on site. The block dimensions were 500mm x 500mm x 100mm thick. The full screed depth was 100mm giving a cover of 75mm over the trunking.

One of the samples was tested after 7 days, and a second sample was tested after 14 days. The results shown below apply to the sample tested after 14 days.

## Test Method

The sample block was located under a portal frame and the sides restrained. The load was applied by means of a hydraulic ram through a 100mm x 100mm steel indenter located centrally on the top surface of the block directly above the centre of the trunking. Load was monitored by means of a calibrated load cell connected to a calibrated datalogger.

The load was applied at a rate of approximately 1kNs<sup>-1</sup> until failure occurred. Failure was deemed to be the point at which visible cracks were evident on the top surface of the block.

## Test Results

The sample tested after 14 days maintained a load of 51.0kN through a 100mm x 100mm steel indenter without visible cracking to the top surface of the screed.

## Assessment

The U3-Special Underfloor Trunking System when cast into screed with a cover depth of 75mm withstood a test load of 51kN through a 100mm x 100mm steel indenter without visible cracking of the screed.

## Authorised by:

**Dave Dix**  
(Project Manager, Structures Group)

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