

M2

EMMEDUE

Advanced
Building
System

STATIC TESTS

EMMEDUE BUILDING SYSTEM



RITAM

ISRIM-UNIVERSITY OF PERUGIA CSM

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ISRIM – UNIVERSITY OF PERUGIA – CSM
Research and Technology Laboratory
For Aseismic systems, structures and Materials

STATIC TESTS OF THE EMMEDUE CONSTRUCTION SYSTEM

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Introduction

This report concerns the determination of static mechanical properties of individual panels (both vertical and horizontal, used respectively as load bearing walls and floors) employed by EMMEDUE s.r.l. – the seat of which is in Fano (PU) Via Treves n. 7, Bellocchi – for its modular construction system and indicated by the following initials:

«PSS1/80», «MESSICO» and «PSSG/12» (h=12+4), «PSM80».

In order to complete the schedule concerning the dynamic structural tests already executed at RITAM Laboratory (ISRIM – University of Perugia – CSM) of Terni, the following tests have been carried out:

- Compression strength determination tests of various concrete casting which composes the prototype on which the dynamic tests have been carried out and with which the individual panels used for the following compression, shear and bending tests have been constructed;
- Mechanical properties determination test concerning wires of which nets and welding are composed;
- No. 3 4 points bending tests of the floor panels;
- No. 3 diagonal compression tests of vertical panels;
- No. 5 true axial compression tests of vertical panels;
- No. 3 eccentric compression tests of vertical panels.

These tests were carried out from 01/09/99 to 24/06/2000.