

IRISH STANDARD SPECIFICATION

GYPSUM PLASTERBOARD

I.S. 41 : 1975

Price £1.20

INSTITUTE FOR INDUSTRIAL RESEARCH AND STANDARDS
Ballymun Road, Dublin 9
Telegrams: Research, Dublin. Telephone: 370101

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FOREWORD

Gypsum plasterboard is currently being manufactured in both metric and imperial sizes. It is hoped that as the process of metrication progresses, the manufacture of plasterboard to imperial sizes will become unnecessary.

There is, however, another dimensional factor which has been considered in this specification, namely modular co-ordination. In accordance with ISO Recommendation R.1006 the basic module or unit of length is

$$1 \text{ M} = 100 \text{ mm.}$$

A number of dimensions shown in Table 1 are therefore non-modular and these are the 2350 mm length dimension and the 406 mm and 914 mm width dimensions. As the use of modular co-ordination in building increases, it is hoped that these dimensions will become obsolete.

DECLARATION
OF
SPECIFICATION
ENTITLED
GYPSUM PLASTERBOARD
AS
THE IRISH STANDARD SPECIFICATION FOR
GYPSUM PLASTERBOARD

The Institute for Industrial Research and Standards in exercise of the power conferred by section 20 of the Industrial Research and Standards Act, 1961 (No. 20 of 1961), and with the consent of the Minister for Industry and Commerce hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Gypsum Plasterboard) Declaration, 1975.

2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Gypsum Plasterboard.

(2) The said standard specification may be cited as Irish Standard 41:1975 or as I.S.41:1975.

3. (1) The Standard Specification (Gypsum Plasterboard) Order, 1952 (S.I. No. 352 of 1952) is hereby revoked.

(2) Reference in any other standard specification to the Order hereby revoked and to Irish Standard 41:1952 thereby prescribed, shall be construed, respectively, as references to this Instrument and to Irish Standard 41:1975.

SCHEDULE

Gypsum Plasterboard

1. SCOPE

1.1 This specification covers the requirements of gypsum plasterboard suitable for use in ceilings, partitions and internal walls.

2. COMPOSITION

2.1 Gypsum plasterboard shall consist essentially of a core of gypsum plaster enclosed between and firmly bonded to sheets of heavy paper. The gypsum plaster used shall be common gypsum plaster, conforming to I.S. 27:Part 1:1975.

3. TYPES OF PLASTERBOARD

3.1 Gypsum plasterboard may consist of any one of the following types:—

3.1.1 *Gypsum wallboard.* A gypsum plasterboard having its face* either self-finished or designed to receive decoration direct without first applying a plaster coat or coats. The surface of the back of the board is designed to receive gypsum plaster. The edges may be square or specially shaped.

3.1.2 *Gypsum plank.* A gypsum plasterboard made in thicknesses greater than 12·7 mm and widths of not more than 600 mm. It may be designed to receive decoration direct without first applying a plaster coat or coats, or may have a surface designed to receive gypsum plaster.

3.1.3 *Gypsum lath.* A gypsum plasterboard designed to receive gypsum plaster. It is produced in relatively small sheets and has specially designed longitudinal edges.

3.1.4 *Gypsum baseboard.* A gypsum plasterboard designed to receive gypsum plaster. For this purpose, it has a suitable paper surface and, normally, square edges.

3.1.5 *Insulating gypsum plasterboard.* A gypsum plasterboard with a bright metal veneer of low emissivity on one side.

* The back of a sheet of gypsum plasterboard is the side having a double thickness of paper along the two longitudinal or folded edges. The opposite side is the face.

4. MANUFACTURER'S CERTIFICATE AND COST OF TESTS

4.1 The manufacturer shall satisfy himself that the boards comply with the requirements of this specification, and, if requested, shall forward a certificate to this effect to the purchaser (or his representative). If the purchaser (or his representative) requires the tests specified in Clauses 7 to 10 to be carried out he shall give notice in writing to the maker and samples shall be selected in accordance with Clause 5 either before or after the delivery of the boards, at the option of the purchaser.

Unless otherwise specified with the enquiry and order, the cost of the tests and test samples shall be borne as follows:—

4.1.1 by the manufacturer in the event of results indicating that the boards do not comply with the requirements of this specification;

4.1.2 by the purchaser in the event of the results indicating that the boards comply with the requirements of this specification.

In cases where tests are made by the manufacturer at regular intervals, and records of such tests are held available to the purchaser, the latter may, at his discretion, accept such test records in lieu of the certificate referred to above.

5. SAMPLING

5.1 Samples for testing shall be taken at random to the satisfaction of the testing authority and shall comprise $\frac{1}{2}\%$ of the consignment under test, or seven boards, whichever is the greater. This is referred to later as the gross sample.

For the purpose of the emissivity test the manufacturer shall, on request, provide a suitable sample of the metal foil as used on insulating gypsum plasterboard.

6. QUALITY

6.1 Gypsum plasterboards shall conform to the relevant definitions in Clause 3, and shall comply with the relevant requirements of Clauses 7 to 10. They shall be true and free from imperfections or deleterious constituents that would render them unsuitable for use with or without decoration or applied plaster finish according to their type. In the case of insulating gypsum plasterboard the metal veneer shall be such that its emissivity is not materially affected by corrosion or film formation, and the metal veneer shall be bonded over substantially the whole area of the board with the adhesive suitable for the range of temperature and humidity conditions likely to be encountered in normal use.

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