

SUBJECT

ULTRA-HARD PLASTERGLASS

This specification is the subject of New Zealand Patent Application No 144695 for which the New Zealand Fibrous Plaster Association (Incorporated) holds exclusive manufacturing rights in New Zealand.

1. DESCRIPTION

The product is an ultra-hard, high density cast Plasterglass sheet produced from enriched gauges made with the aid of gum arabic and lime. These additives have a hardening action on the plaster while the gum arabic also acts as a dispersing agent for the gypsum which reduces the water requirement for gauging and permits the production of more concentrated gauges while retaining the necessary flow characteristics of the composition. This product is used extensively in hospital corridors, ward blocks, stair wells, and school contracts.

2. MATERIALS

(a) Gypsum Casting Plaster

The gypsum casting plaster shall conform to the requirements of the New Zealand Standard Specification (N.Z.S.S. 1213) for Gypsum Casting Plaster.

(b) Fibreglass

Reinforcing fibres of Fibreglass shall be of adequate length to ensure that its incorporation will produce sheets of the quality specified herein.

(c) Gum Arabic

A gel of commercial gum arabic (50% solution) comprising 490 grams by weight of solids to 1 Litre and free of organic impurities.

(d) Hydrated Lime

Hydrated lime conforming to N.Z.S.S. 781

(e) Sisaseal

High grade silicone additive used exclusively by members of the New Zealand Fibrous Plaster Association (Inc).

3. COMPOSITION

The composition of ultra-hard Plasterglass sheets 100:60 gauge in the nominal thickness of 12.5 is as follows:—

Nominal 12.5 Sheets	Per Square Metre
Gypsum Plaster	12.2 Kg ✓
Gauging Water	7.3 Kg ✓
Gum Arabic Gel	95 Mls ✓
Hydrated Lime	8 Grams
Sisaseal	12 Mls
Fibreglass	381 Grams ✓

All materials shall be accurately measured in accordance with this specification and water for gauging shall be measured by weight and not by gallonage.

4. GAUGING & CASTING PROCEDURES

- (a) In accordance with trade practice the required amount of Sisaseal is added to the water for gauging and stirred vigorously for one to two minutes to produce a uniform solution.
- (b) To part of this gauging water is added the requisite amount of Gum Arabic Gel and stirred again to obtain an evenly dispersed solution.
- (c) Next is added hydrated lime and the whole mix is then tipped into the balance of the gauging water and mixed thoroughly.
- (d) Casting is then performed in the usual manner of Standard Plasterglass.

5. ULTRA HARD

Ultra-hard fibrous plaster or (Plasterglass) sheets shall be fixed according to normal trade practice. The sheets shall be fixed to partitions by double nailing on all bearings using the appropriate galvanised flathead Clouts. Joints shall be taped using fibre glass tape then stopping plaster