

[Home](#)[Products](#)[Links](#)[Prospects](#)[Contact us](#)

TC-417-GP Thermal and Acoustic Solutions

Technical Support Specifications Guide

Spray-In-Place Thermal and Acoustic Insulation (Divisions 7, 9)

PRODUCT NAME

TC-417 GP (general purpose) spray applied fibreglass insulation system.

1. MANUFACTURER

TC-417 GP is a two-component product manufactured by ThermaCoustic Industries International Limited. The components of TC-417 GP are supplied to trained, approved Applicators who complete on-site manufacturing during installation.

2. PRODUCT DESCRIPTION

2.1 Usage

TC-417 GP is a general-purpose system designed to meet a variety of thermal and acoustic needs in the industrial, commercial and multi-family construction sectors.

2.2 Materials

2.4 Limitations (continued)

- c. Raw wood must be sealed with an appropriate sealer, or with a coat of TC-417 GP adhesive that is allowed to dry thoroughly, before fibre installation is undertaken;
- d. **WARNING:** Steel decks must be free of all petroleum-based materials before TC-417 GP is installed. In addition, some steel decking is so smooth that an appropriate metal primer should be applied first to allow secure adhesion of the TC-417 GP. If in doubt concerning a steel deck, please contact us for technical advice;
- e. Adhesive must be kept from freezing;
- f. Do not apply TC-417 GP at

TC-417 GP is a two component system. The components are:

- a. Fine, white glass fibres containing at least 25% recycled raw material;
- b. A formulated synthetic emulsion adhesive that is non-hazardous.

These components are combined on the site to produce an inorganic, non-combustible, non-toxic, odourless and long-lasting bright white installation.

2.3 Applications

When sprayed into place, TC-417 GP forms a mono-lithic, somewhat resilient and flexible blanket that bonds easily to concrete, clean steel, aluminium, wood, gypsum board, rigid fibreglass and plastic in-sulation materials. It conforms closely to surface irregularities and virtually eliminates convective air circulation to the substrate.

2.4 Limitations

TC-417 GP is normally applied to any surface in a one-pass application. If a thickness greater than those listed below is required, please contact ThermaCoustic Industries for advice.

- a. Maximum thickness on overhead surface without mechanical support is 125mm (5");
- b. Maximum thickness on vertical surface without mechanical

temperatures below 4 0C (40 0F) or when temperatures during curing time will fall below the limit unless heating of substrate and ambient air is supplied and both heat and adequate ventilation are maintained throughout the curing period;

- g. Store TC-417 GP components in a cool, dry location and above ground level.

3. TECHNICAL DATA

- WH listed
- Non-combustible: CAN 4-S114; ASTM E-136
- Fire Hazard: ASTM E-84
 - Flame Spread = 5
 - Smoke Development = 10
- Thermal Conductivity, ASTM C- 518
 - R = 4.17 0F. ft² / BTU. in;
 - R(SI) = 29.32/m;
0.73/25mm; 0K.m²/ W
 - K = 0.24; l = 0.0346
- Dry Density, ASTM D-1622
 - 35 - 48kg/m³; 2.2 - 3.0 p. c.f.
- Air Erosion, ASTM 859
 - No mass loss
- Adhesion/Cohesion, ASTM E-736
 - Passed
- Fungal Resistance, ASTM G-21
 - No Growth;
- NRC ASTM C-423 90a,
 - 50mm (2 in.) = 1.00
- NRC ISO 354

support is 175mm (7");

○ 50mm (2in.) = 0.95

[\[Previous\]](#) [\[Contents\]](#)

[\[Home\]](#) [\[Products\]](#) [\[Links\]](#) [\[Prospects\]](#) [\[Contact us\]](#) [\[Disclaimer\]](#)

ThermaCoustic Industries International Limited

Unit 108, 20119 - 113B Avenue, Maple Ridge, B.C., Canada, V2X 0Z1

Tel: 866.460.1474 or 604.460.1475 -- Fax: 604.460.1476 -- eMail: <http://www.thermacoustics.com/contact.html>

*Copyright © ThermaCoustic Industries International Limited. All rights reserved.
For more information, please review our [disclaimer](#).*