



## LEED\* - Aiding in Preservation of the Environment

THERMAACOUSTIC INDUSTRIES is fully supportive of the LEED initiatives of the Green Building Council (GBC) and is a member of both the U.S. and Canadian Green Building Councils.

As a building products manufacturer, we are very much aware that:

- a) Our present primary energy sources are both non-renewable and significant contributors to atmospheric degradation;
- b) Building materials should be as "green" as possible to conserve other natural resources as well as energy;
- c) Indoor air quality in buildings is a concern, as well as is the atmosphere in general, and no building component should contribute deleterious substances to either the indoor or outdoor atmospheres.

We manufacture **TC-417** a fibreglass-based, spray-in-place thermal and acoustic insulation that effectively addresses many aspects of the problems listed above.

**NOTE: Although in our view, TC-417 is ideally suited to meet the intent of selected items listed under the LEED headings quoted below, it is up to the design professionals to evaluate TC-417 and to decide its applicability to their particular needs.**

### LEED U.S.A. – Points Summary

<i>LEED Category &amp; Credits:</i>	<i>TC-417 Contribution</i>	<i>Possible Points</i>
<b>Energy &amp; Atmosphere (EA)</b>		
<b>EA Credit 1:</b>		
Optimise Energy Performance (This is in addition to the pre-requisite standard for reducing excessive energy use)	Our <b>TC-417</b> has the highest R-value per inch of any of the fibre-based spray insulation products. Therefore, it provides both a superior thermal barrier and overall energy efficiency. Overall contribution depends upon R-value used. Points depend upon achieving one of four compliance options, as well as compliance with ASHRAE/IESNA Standard 90.1- 2004 and local energy codes.	Up to <b>19 points</b> (depending on energy saved and option chosen)
<b>Innovation &amp; Design Process (ID)</b>		
<b>ID Credit 1 through 1.4:</b>		
Innovation and Design Process	<b>TC-417</b> provides the highest R-value of the spray-applied thermal and acoustic products. In addition, it has a very high NRC value and is <u>non-combustible</u> .	<b>6 points</b>
<b>Materials &amp; Resources (MR)</b>		
<b>MR Credit 2.1:</b>		
Construction Waste Management Divert 50% from disposal	Our <b>TC-417</b> has an indefinite life when installed and left undisturbed. Any damage is easily repaired and the only potential waste is the damaged material. Generally, <b>TC-417</b> will be removed in its entirety only if the building is demolished.	<b>1 point</b>
<b>MR Credit 2.2:</b>		
Construction Waste Management Divert 75% from disposal	Net waste during the installation of <b>TC-417</b> is approximately 3% of the installed volume and up to 90% of the waste can be recycled or returned to nature.	Plus <b>1 point</b> (in addition to MR Credit 2.1)

**MR Credit 4.1:**

Recycled content 10%

Post industrial content of **TC-417** varies, but meets or exceeds requirement **at all times**.**1 point****MR Credit 4.2:**

Recycled content 20%

Post consumer content of **TC-417** varies, but meets or exceeds requirement **at all times**.Plus **1 point**  
(in addition to  
**MR Credit 4.1**)**MR Credit 5.1:**Regional Materials  
10% extracted, processed and  
manufactured locally**TC-417** is site manufactured by the installing contractor.**1 point****MR Credit 5.2:**Regional Materials  
20% extracted, processed and  
manufactured locally**TC-417** is site manufactured by the installing contractor.**1 point**  
(in addition to  
**MR credit 5.1**)**MR Credit 6:**

Readily Renewable Materials

Silica sand, the major component of fibreglass, is  
considered a rapidly renewable resource by the EPA.**1 point**

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**Indoor Environmental Quality (EQ)**

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**EQ Credit 3.2:**Indoor Air Quality Management  
Plan (before occupancy)**TC-417** meets, or is significantly below, the maximum  
concentration criteria of IAQ pollutants set out by LEED.**1 point****EQ Credit 4.1:**Low Emitting Materials  
adhesives and sealantsGlass fibre is inert, and the remaining component of  
**TC-417** is a low VOC adhesive that comprises < 8%  
of the installed product.**1 point****EQ Credit 4.2:**Low Emitting Materials  
paints and coatings**TC-417** is most often left as the final finish in the  
locations in which it is installed. Therefore, it qualifies  
as a coating and it does not exceed the VOC and chemical  
component of Green Seal's Standard GS-11 requirements.**1 point****EQ Credit 7.1:**Thermal Comfort Design  
compliance with **ASHRAE 55-92****TC-417** provides a monolithic installation that virtually  
eliminates all unwanted air paths to the substrate, thus  
eliminating all drafts caused by "cold spots" present in  
some other insulation installations. As such, it contributes  
to the goals of **ASHRAE 55-92** as noted above.**6 points****Total Possible TC-417 Contribution****41 points**

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**THERMACOUSTIC® INDUSTRIES INTERNATIONAL LIMITED**

#108 - 20119 - 113B Avenue, Maple Ridge, BC, Canada V2X 0Z1  
 Telephone: 1-866-460-1474 • (604) 460-1475 • Facsimile: (604) 460-1476  
 info@thermacoustics.com www.thermacoustics.com