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TC-417-GP Thermal and Acoustic Solutions
Spray Applied Insulation

GENERAL INFORMATION
(Applicable to both Thermal and Acoustic installations)

FIRE SAFETY

TC-417 GP exhibits the following fire resistive attributes:

- Non-combustibility:**
CAN/ULC S114 **Non-combustible**
ASTM E-136 **Non-combustible**
- Surface burning characteristics:**

To be approved for use in exposed locations, products such as TC-417 GP are required to exhibit the following surface burning characteristics:

	Flame spread ≤ 25	Smoke developed ≤ 50
CAN/ULC S102	Flame spread: Passed	Smoke developed: Passed
ASTM E-84	Flame spread: Passed	Smoke developed: Passed

- TC-417 GP is WH listed**

For the peace of mind of all parties involved, we think it essential that any product used in a building interior that can be left exposed -- and is of more than film thickness - should

contain very little, if any, combustible material.

Non-Combustibility versus Flame Spread:

There seems to be some confusion in the industry concerning the accepted definition of non-combustibility as compared to low flame spread. The distinction is quite simple:

- **An organic substance such as paper can be treated with flame retardant material that ensures that it will burn slowly, and can then be considered to have a low flame spread;**
- **An organic material, even when treated with fire retardant and rated as 'low flame spread,' can never be rated as non-combustible because its flaming time, temperature rise and mass loss are more than allowed when subjected to industry-accepted test procedures;**
- **Only inorganic materials, or mixtures containing a very small organic component, can be rated non-combustible according to industry standards -- e. g. -- ASTM E-136, CAN/ULC S114.**

The major component of **TC-417 GP** is inorganic glass fibre, and the product has been tested to CAN/ULC S114 and ASTM E-136 and rated as **non-combustible**. Since it is so rated, it can be applied to any fire resistive material **without affecting the fire rating of the assembly**.

Note: Unlike spray applied organic insulation materials, that can only qualify for low flame spread ratings, the low flame spread and non-combustible ratings of **TC-417 GP** are **permanent**. Therefore, it does not require either initial addition of a fire retardant at time of application or periodic top up of with fire retardant to maintain its ratings.

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