

Canadian Thermal Channel Waterproof Type

Article Overview

For Canadian thermal channels, waterproof and thermally efficient piping is typically made from polypropylene, high-density polyethylene (HDPE), or polyethylene, designed to handle condensation and maintain stable temperatures.

Material Options

Polypropylene (PP) is highly suitable for Canadian thermal channels due to its good thermal conductivity ($\Lambda = 0.35$), smooth interior and exterior surfaces, anti-bacterial inner layer, and excellent longevity. It provides watertight connections when properly sealed at manholes, making it ideal for external ducts in Canadian wells . High-Density Polyethylene (HDPE) offers similar thermal conductivity, excellent rigidity, and resistance to high heat without toxic emissions. Its corrugated exterior and smooth interior allow for effective drainage of condensate, and it is commonly used for drinking water supply and electric sheaths . Polyethylene (PE) is a cost-effective alternative with good thermal performance, smooth interior for condensate drainage, and medium resistance. It is suitable for electric sheaths and shallow burial applications . Cast Iron can be used for its high thermal conductivity and durability, but it requires elastomer seal connections to ensure watertightness and protection against corrosion. Concrete and PVC are generally not recommended due to poor waterproofing, low thermal conductivity, and potential health hazards .

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American Canadian Channels | Section Sizes

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Canadian Channel Sizes Table

Canadian Aluminum Channel Sizes Table. Tolerances for extruded shapes are given in Aluminum Standard and Data.

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Products

Thermal Cut-outs/Bimetal Thermostats Wide selection of snap action bimetal thermostats for thermal protection in a variety of applications.

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Product Catalog

Comfortboard® 80 Continuous Exterior Insulation Reduce Thermal Bridging
Comfortboard® 80 helps reduce thermal bridging through wood framing, leading to a higher-performing building envelope.

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Types, Finishes, and Grades of Aluminum Channels

The three primary types are Aluminum Association (with thicker walls and rounded inner corners), American Standard (with flanges that taper toward the top and rounded corners), and

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