

# PRODUCT DATA SHEET

CLLOUDCRETE

## Overview

Cloudcrete is a multipurpose pre-cast concrete product that utilizes a mixture of Portland cement and alkali-resistant glass fibre to produce a lightweight, flexible and durable material that can be used across a number applications. For its weight it has a very high density and low coefficient of expansion. The glass fibre matrix provides increased flexibility and the ability to be spray cast into a variety of shapes, assembled with multiple materials.

GENERAL OPTIONS	
Finish color options	4 standard colors & custom color matching
Surface finish options	Smooth or etched
Sealant options	Acrylic, Silane or graffiti sealant
Casting options	Wet cast or spray molded

PHYSICAL & MECHANICAL PROPERTIES	
Thickness	3/4" (typ)
Glass Fiber Content	4% min.
Dry Density (kg/m <sup>3</sup> )	2075
Compressive Strength (Mpa)	50-55
Flexural Strength (Mpa)	20-25
Tensile Strength (Mpa)	>13

WEIGHT	
.75"	7.2 lbs / ft <sup>2</sup>
1"	9lbs / ft <sup>2</sup>
1.25"	11.25 lbs/ft <sup>2</sup>
1.5"	14.06 lbs/ft <sup>2</sup>



## Thermal Properties

Cloudcrete meets ATSM EB4 International standards with 0% flame spread and smoke development, making it a safe alternative to other casted materials that meet the same structural or aesthetic requirements. NFPA 259 criteria for potential heat of combustion of 878.8 BTU/lb.

THERMAL PROPERTIES	
Thermal Conductivity (BTU/in/hr/ft <sup>2</sup> /°F)	3.5 - 7.0
Flame spread classification	Class 1
Coefficient of Thermal Expansion (in/in/°F)	12x10 <sup>-6</sup>

FIRE ENDURANCE	
Flame spread index	0
Smoke Development	0
ATSM E136 requirements met "GFRC made of cement, glass fibers, sand and water is non-combustible and meets the requirements of ASTM E136. When used as a surface material, its flame spread index is zero." Reference: pg 15 PCI 4th edition GFRC manual.	Confirmed

## Samples

Heavy maintains an inventory of Cloudcrete samples in several finishes, color and texture combinations. We can also match an array of finishes, color or textures based on your project requirements.

Let's talk about your next project! Contact us:

EMAIL: [info@heavyexperience.com](mailto:info@heavyexperience.com)  
PHONE: 403.252.6603

Heavy  
9192 52 Street SE  
Calgary, Alberta, Canada  
T2C 5A9