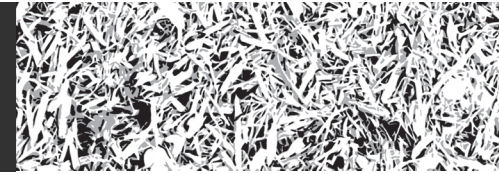


CERTIFIED

# CFB™



# Cultivated Fiber for Buildings



LOCAL ECONOMY • LOCAL COMMUNITY • GLOBAL ENVIRONMENT



## DESCRIPTION

### GROWN ON US FARMS

CFB is made with hurd from the hemp plant. The plant stalk has two layers. Bast is the outer layer used for rope and canvas. Hurd is the starchy inner layer.

### HOW IT'S USED

Water and lime are mixed with the hurd to be poured into forms or made into blocks or panels, mainly for walls.

### ENGINEERING VALUE

Combined R-value, mold-resistance, vapor barrier. Increased thermal dynamics over traditional insulation. Eliminate drywall, building wrap and batt insulation. Options to replace paint with tinted lime wash, interior/ exterior. Panels and blocks provide efficient installation. Highly durable, long life span. IRC & ICC-certified.

### ENVIRONMENTAL VALUE

INDOOR: Eliminates mold risk, toxic outgassing. CLIMATE: Drastic reduction in carbon footprint meets or exceeds international standards. Replaces many forest and mining products.

### ECONOMIC VALUE

Competitive price / SF. Fits growing demand for green alternatives. Qualifies for grants and subsidies available for carbon reduction. Dollars stay local and go to farmers and small business. Local production plants with options for national expansion. Ongoing opportunities.



## SPECIFICATIONS



Sativa Building Systems sets a new industry standard for hemp fiber building materials. The CFB label ensures a high level of durability, performance and compliance.



### FIRE RATING

PASSED: NFPA 286 and 2018 IBC 803.1.1.1 to be classified as a non-combustible fire-resistant insulation material.

### MOISTURE RATING

Highly hygroscopic, indicating breathability. In accordance with ASTM C272-12 it has been determined that CFB Z Panels can increase in mass 97% in a 2 day immersion test.

### INSULATION VALUE

R Value Equivalent to fiberglass. Improved insulation dynamics, overall. It absorbs, maintains and slowly dissipates heat over a longer period of time.

### WEIGHT

Through an evaluation in accordance with ASTM C0271-16, CFB Z Panels have a density of 22 lbs per cubic foot.

### ENVIRONMENT

In a three-part EPD, it has been determined that each Z Panel captures 1.1 kg of COeq.

### COST

Average square foot cost for residential: \$250

## MILITARY SPECS

CFB Z Panels have been developed to meet new US Army requirements for low- or zero-carbon building materials.