Hemp Ceiling Tile

Hemp Ceiling Tile (HCT)

Environmental Advantages

HCT panels are fabricated using reclaimed hemp hurd left after the seed and the fibre removed, thereby reusing a waste by-product otherwise destined for landfill. The adhesive used has no added urea formaldehyde and releases no VOC emissions. HCT panels help reduce waste and deforestation by substituting for wood. TTS's HCT are also resistant to fire, fungus and insects.

HCT Panels and LEED

HCT panels can be an excellent way to help your projects qualify for LEED credit for environmentally friendly construction, including:

MR 4.1/4.2 Recycled Content
>70% post-industrial content

MR6 Rapidly Renewable materials
Hemp is grown in a harvest cycle of 6 months or less

IEQ Low-emitting Materials
No added urea formaldehyde

Physical Specifications:

Sheet Size		2' x 2' and 2' x 4'
Thicknesses		1/4" to 1 1/2"
Sheet Density		20 lbs/ft^3
Sheet weights	¼"	3.5 lbs
(Based on 2' x 4')	½"	7 lbs
	¾"	10 lbs
	1"	13.5 lbs
	1½"	20 lbs

Physical Properties

Thermal insulation	R-1.9 (ASTM C177)
Flame Spread	40 (ASTM E84)
Smoke Developed	15 (ASTM E84)
Modulus of Rupture	1,160 psi (ASTM D1037)
Modulus of Elasticity	1×10^5 psi (ASTM D1037)
Internal Bond	45 psi (ASTM D1037)
Formaldehyde emissions	None

Custom size, thickness & density available

Fabrication Guidelines

Application: Although HCT is fabricated for ceiling applications, the panel can be used for architectural/decorative features in interior construction as well as door core, furniture and cabinetry.

Handing: Store indoors on a level surface with adequate support to prevent sagging and conditioned to local environment prior to installation.

Fastening: Using standard wood fasteners including staples, screws, and standard wood glue.

Finishing: If coating is required, most standard commercial wood finishes can be used. Check finish manufacturer specs for proper finish application instructions.

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