



Water resistant wood fiber board insulation that doubles as a weather resistive barrier

MULTITHERM single-ply wood fiberboard for use in vented rain-screens. High compressive resistance assures easy siding application - no spacers needed.

The tongue and grooved edge, combined with the paraffin impregnation (1%) makes the board wind and watertight – resulting in a ecological vapor open board that is the weather resistive barrier and exterior insulation board in one. Gutex MULTITHERM is available in thicknesses from 1 ⁹/₁₆” (40 mm) to 7 ⁷/₈” (200 mm).

The raw material for all GUTEX insulation boards comes solely from wood that is harvested and grown using sustained forestry management practices. It is obtained as chips and shavings from sawmills located near the GUTEX plant – wood content 95% and is biologically safe / good for IAQ (NaturePlus® certified).

PROPERTIES

- Manufactured from Black Forest spruce and fir
- Additives:
 - 4.0% polyurethane resin (binder)
 - 1.0% paraffin (hydrophobic agent)

TECHNICAL SPECS	
Joint Type	Tongue and groove
Bulk Density	8.74 lbs/ft ³
R-Value	3.6 per inch (hr*ft ² *°F/Btu*in)
Nominal thermal conductivity	0.040 W/mK
Vapor Diffusion Factor	4
Permeability	32 perm/inch-thickness (perm 20 @ 1 ⁹ / ₁₆ ”)
Maximum recommended UV/weather Exposure	3 months



TECHNICAL SPECS (continued)	
Compressive Strength	10 PSI (70 kPa)
Tensile strength perpendicular to board surface (EN319)	1.5 PSI (10 kPa)
Short-term water absorption (EN 1609)	≤ 0.41 lb/SF (≤ 2 kg/m ²)
Specific heat capacity	2100 J/kgK
Fire rating ASTM E119	1 hour load bearing wall: 4" exterior MULTITHERM, plywood, 2x6 wood frame 24" o.c. with THERMOFLEX 140 batt insulation
Fire rating ASTM E84	Class B material. FS 65, SDI45
Fire rating CAN/ULC-S102	Passed NBC 2020 part 3.1.5.14

DIMENSIONS

Board Dimensions: 43 5/16" x 23 5/8" (110 cm x 60 cm) - includes 3/4" (2 cm) T&G
Net Coverage Per Board: 42 1/2" x 22 7/8" (108 cm x 58 cm)

Board Thickness	R-Value	# of board per pallet	ft ² coverage per pallet	Weight per 42 1/2" x 22 7/8" board
Multitherm 40 (1 9/16")	R-5.7	108	727.9	7.73 lbs (3.5 kg)
Multitherm 60 (2 3/8")	R-8.5	72	485.0	11.59 lbs (5.25 kg)
Multitherm 80 (3 1/8")	R-11.4	52	350.4	15.46 lbs (7 kg)
Multitherm 100 (3 15/16")	R-14.2	44	296.5	19.32 lbs (8.75 kg)
Multitherm 120 (4 3/4")	R-17.0	36	242.6	23.19 lbs (10.5 kg)
Multitherm 140 (5 1/2")	R-19.9	32	215.7	27.05 lbs (12.25 kg)
Multitherm 160 (6 5/16")	R-22.7	28	188.7	30.92 lbs (14 kg)
Multitherm 180 (7 1/16")	R-25.6	24	161.7	34.78 lbs (15.75 kg)
Multitherm 200 (7 7/8")	R-28.4	20	134.8	38.65 lbs (17.5 kg)

OTHER SIZES AVAILABLE - PLEASE CONSULT YOUR 475 REPRESENTATIVES FOR ADDITIONAL OPTIONS

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INSTALLATION

Boards can be installed directly on top of studs or (semi-) permeable wood boards depending on climate and exposure. The tongue & groove joints on all 4 sides allow fast installation, since seams do not have to align with studs/structure below. This also minimizes waste.

Once boards are applied the structure is wind- and weathertight and boards can be left exposed up to 3 months. Store and install this product dry. Install the boards lengthwise with exact fit for tight joints, Fasten immediately with ventilation batten. Avoid cross butt joint – stagger/ offset joints from row to row by min of 20". The maximum on center spacing of studs, when no sheathing is used, is 24" for Multitherm 40, 32" for Multitherm 60-100 and 36" for Multitherm 120-160. No adhesive nail tapes or sealants are required, however seams and interruptions at windows, beams, etc. should be taped/sealed tight against wind and driving rain. Do not use damaged boards.

The continuous insulation reduces thermal bridges, improves acoustic insulation, regulates humidity, making it ideal for upgrading the thermal insulation of existing structures.

Note: boards do not provide suitable (lateral/structural) support or stability.

ADVANTAGES

- Gutex MULTITHERM is part of a fire-resistance-rated assembly rated for 60 minutes under load-bearing conditions per ASTM E119
- Consistently uniform board dimensions to make installation quicker and easier.
- Homogeneous, single-ply construction
- Makes structure wind-tight
- Superior moisture resistance due to hydrophobic treatment
- Ideal for upgrading the thermal insulation of existing structures
- Reduces thermal bridging
- Exceptional specific heat capacity leading to maximum protection against heat in summer/ shoulder seasons
- Significantly improves soundproofing
- Very vapor open, promotes outward drying.