

PRODUCT SPEC SHEET

Fallen Douglas Fir

A strong, historic softwood with natural character and structural reliability.

Carbon Smart Wood's Fallen Douglas Fir (*Pseudotsuga menziesii*) is sourced from trees that have fallen naturally, from wildfire mitigation work (which improves forest health and reduces wildfire risk), or removed from urban and managed landscapes in the Pacific Northwest.









Technical Specifications

Application	Lumber & Trim, Fencing, Siding
Use	Exterior
Expected Service Life	10-15 years
Durability Class (Rot Resistance)*	Class 3 (Moderately Durable)
Termite Resistance	⊗
Sustainability (Estimated Carbon Impact)**	790.5kg CO ₂ e /cubic meter
Janka (lbf)	620 lbf
Average dried weight (lbs/cubic ft)	~32 lbs/cubic-ft
Fire Rating	Class C (76-200) least
Modulus of Rupture (MOR)	~12,400 psi

*following TRADA standard scale





**Derived from the Global Wood Density Database ([GWDD v2](#)) using species-level basic density, converted to CO₂e using standard carbon fraction and molecular weight ratios. Total biogenic carbon stored, expressed in kg CO₂e/m³ (kilograms of carbon dioxide equivalent per cubic meter), represents the amount of CO₂ removed from the atmosphere by a tree during its growth and locked into its woody biomass, calculated per unit of volume. In the context of tree species and wood products, this metric measures the "carbon sink" potential of the timber—essentially, how much carbon is stored rather than emitted. ([USDA](#))

Application Specifications

Fallen Douglas Fir (Pseudotsuga menziesii)	Lumber & Trim 	Fencing 	Siding 
Use	Exterior	Exterior	Exterior
Finish	Unfinished	Unfinished or Clear	Unfinished or Clear
Grain	Mixed Grain	Mixed Grain	Mixed Grain
Texture	Rough	Smooth	Smooth
Profile	Lumber: Rough Trim:  S4S	 E4E  S4S	 T&G  T&G-G
Lengths (ft)	Standard material is sold RL with a random mix of lengths from 8-12'. Please inquire for specific lengths if necessary.*	NO DATA	8'
Nominal Width (in)	RW	NO DATA	4", 6"
Nominal Thickness (Quarters)	4/4, 5/4, 6/4, 8/4	NO DATA	4/4

*RL and RW are used to denote 'random length' and 'random width' respectively.

Other Species Available

Application	Lumber & Trim 	Decking 	Fencing 	Siding 
Species	Thermal Oak Thermal Poplar Silky Cedar	Thermal Oak Silky Cedar	Thermal Oak Thermal Poplar Silky Cedar	Thermal Oak Thermal Poplar Silky Cedar

Variation and Color Change

Color is typically more uniform toward the center of the log, but boards may display noticeable contrast between faces, with lighter and darker areas present on the same piece. This variation is inherent to the species. Douglas fir may also contain natural sap pockets, which are a characteristic of the tree and can appear unpredictably during milling or fabrication, particularly when working with salvaged material.

How We Stack up Against Other Brands

Brand	# Species Offered	Sourcing	Thermal Treatment Method
CARBON SMART™ WOOD Carbon Smart Wood	10	Domestic U.S.	Natural (heat & steam)
THERMORY® Thermory ¹	8	Northern U.S. & Canada and Northern Europe	Natural (heat & steam)
accoya  Accoya ²	1	New Zealand & Tennessee (U.S.)	Chemical
ke bo ny  Kebony ³	2	New Zealand	Chemical

1. [Thermory website](#) 2. [Accoya website](#) 3. [Kebony website](#)

About Us

Cambium is connecting and modernizing the wood economy. We provide high-performance, sustainably sourced wood products – including our flagship Carbon Smart Wood™ – all sourced and manufactured in the U.S.

Samples and spec support are available.

[Contact us here](#) for current availability, pricing, and lead times.

