

# Product Environmental Profile **Trus Joist® Timberstrand® & Weyerhaeuser OSB**

We use environmentally sound practices and our products are sourced from responsibly managed forests

## ANNUAL DATA FOR 2015

### PRODUCT

Name/description: Trus Joist® Timberstrand & Weyerhaeuser OSB

Mill locations:

Arcadia, LA; Grayling, MI; Elkin, NC; Sutton, WV; Edson, AB; Kenora, ON; Hudson Bay, SK

### FIBER SOURCING

| Category <sup>(1)</sup>          | Amount                 |
|----------------------------------|------------------------|
| Certified <sup>(2)</sup>         | 42%                    |
| Responsible <sup>(3)</sup>       | 100%                   |
| Non-controversial <sup>(4)</sup> | 100%                   |
| Country of harvest               | United States & Canada |
| Certifications                   | See reverse            |

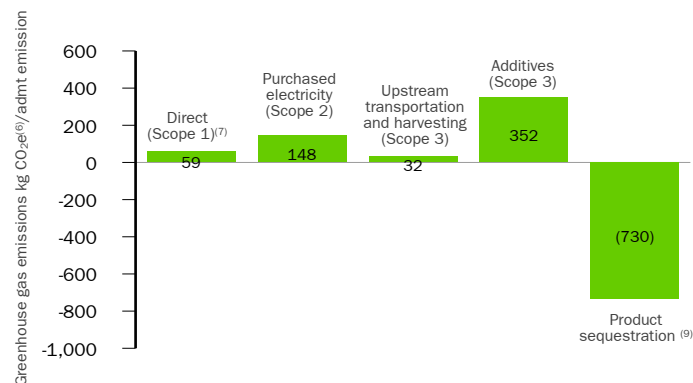
### PRODUCT COMPOSITION

|            |  |
|------------|--|
| Wood Fiber | >84%   |
| Other      | Resin, co-binder, wax; no added urea formaldehyde resins |

### SPECIES

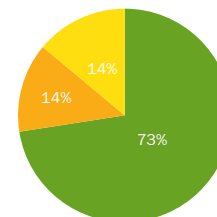
|                    |               |                            |
|--------------------|---------------|----------------------------|
| United States      | Virginia Pine | <i>Pinus virginiana</i>    |
| Yellow Poplar      | Quaking       | <i>Populus tremuloides</i> |
| American Beech     | Aspen         |                            |
| Black Cherry       | Paper Birch   | <i>Betula papyrifera</i>   |
| Red Maple          | Jack Pine     | <i>Pinus banksiana</i>     |
| Sugar Maple        | Balsam Fir    | <i>Abies balsamea</i>      |
| Black Birch        | Red Pine      | <i>Pinus resinosa</i>      |
| Bigtooth Aspen     | Canada        |                            |
| Sourwood           | Balsam fir    | <i>Abies balsamea</i>      |
| Sassafras          | Black spruce  | <i>Picea mariana</i>       |
| Cucumber tree      | Aspen         | <i>Populus tremuloides</i> |
| American           | Black poplar  | <i>Populus balsamifera</i> |
| Yellow Buckeye     | Large tooth   | <i>Populus</i>             |
| American           | White birch   | <i>Betula papyrifera</i>   |
| Blackgum           | Tamarack      | <i>Larix laricina</i>      |
| White Ash          | White spruce  | <i>Picea glauca</i>        |
| Eastern White Pine | Jack pine     | <i>Pinus banksiana</i>     |

### CARBON FOOTPRINT



### ENERGY USED IN MANUFACTURING

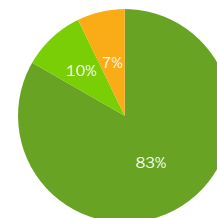
Biomass (e.g., wood residuals)  
Fossil fuel  
Purchased electricity



### RESIDUALS MANAGEMENT

Remaining material from manufacturing process

Burned for energy  
Beneficially reused (e.g., land applied or recycled)  
Landfilled  
Incinerated or disposed in permitted hazardous waste facilities (<1%)



### AIR

| Compound                          | kg/admt |
|-----------------------------------|---------|
| Carbon monoxide (CO)              | 0.89    |
| Nitrogen oxides (NOx)             | 0.35    |
| Particulate matter (PM)           | 0.47    |
| Sulfur dioxide (SO <sub>2</sub> ) | 0.03    |
| Volatile organic compounds (VOC)  | 0.63    |

### WATER

Water used in the production of products is generally reused in the process or discharged into an approved water treatment facility. Storm water at these facilities is managed according to all federal, state and local regulations.



## SUSTAINABLE FORESTRY

We manage forests for both wood production and the ecosystem services they provide. These include clean water, habitat for fish and wildlife, and sites of cultural, historic and scenic importance. We implement landscape-level forest management as part of our compliance with the Sustainable Forestry Initiative® (SFI) standard. Over the past five years, we have planted more than 670 million tree seedlings.

## CERTIFICATION AND PRODUCT LABELING

Nearly all of our manufacturing facilities and forests have environmental management systems that align with the ISO 14001 standard. All of our forests are certified to sustainable forestry standards. And, nearly all of our North American-made forest products are eligible to use a sustainable forestry label.

|                             | <u>Certification #</u> | <u>Expiration Date</u> |
|-----------------------------|------------------------|------------------------|
| Arcadia                     |                        |                        |
| SFI Fiber Sourcing          | CERT-0091583           | 12/12/2016             |
| Grayling, Elkin, and Sutton |                        |                        |
| SFI Fiber Sourcing          | 4Z112-FS3              | 8/6/2018               |
| Edson and Hudson Bay        |                        |                        |
| SFI Fiber Sourcing          | CERT-0091761           | 3/3/2019               |
| SFI Chain of Custody        | SAI-SFICOC-013349      | 5/13/2018              |
| PEFC Chain of Custody       | SAI-PEFC-013349        | 5/12/2018              |
| Kenora                      |                        |                        |
| SFI Forest Management       | CERT-0091762           | 3/3/2019               |
| SFI Fiber Sourcing          | CERT-0091761           | 3/3/2019               |
| SFI Chain of Custody        | SAI-SFICOC-013349      | 5/13/2018              |
| PEFC Chain of Custody       | SAI-PEFC-013349        | 5/12/2018              |
| FSC Chain of Custody        | QMI-COC-001330         | 5/15/2018              |
| FSC Controlled Wood         | QMI-CW-001330          | 5/15/2018              |

(1) Per ASTM D7612-10 Standard Practice for Categorizing Wood and Wood-Based Products According to Their Fiber Sources.

(2) Average certified content for wood purchased by all facilities. Verification: selected facilities certified to the SFI & PEFC Chain of Custody standards.

(3) Verification: all Weyerhaeuser manufacturing facilities certified to the SFI Certified Sourcing Standard.

(4) All forest-based raw material sourced in North America. Verification: selected facilities certified to the SFI, PEFC & FSC Chain of Custody Standards and FSC Controlled Wood Standard.

(5) Carbon dioxide equivalent (CO<sub>2</sub>e) is the standard metric used to compare emissions from various GHGs based on their global warming potential. For example, the global warming potential for methane is 25, so 1 ton of methane emissions is equivalent to 25 tons of carbon dioxide (25 CO<sub>2</sub>e). Greenhouse gases (GHG) include carbon dioxide, methane, nitrous oxide, HFCs, PFCs and SF6. Kilogram (kg). Air Dried Metric Ton (admt).

(6) Direct emissions (Scope 1) are from sources owned or controlled by Weyerhaeuser.

(7) Additives include the GHG emissions associated with the manufacturing of resins and wax used in this product. These emissions are estimated from an industry standard.

(8) Product sequestration is the amount of carbon (shown as equivalent amount of CO<sub>2</sub>) that remains in the finished product for 100 years. This calculation is done using the ICFPA/NCASI Tools for Calculating Biomass Carbon Stored in Forest Products in-Use, Version 1.0A.

## PROCUREMENT SYSTEM CERTIFICATION

All of our mills are independently certified as meeting the procurement provisions of the SFI Certified Sourcing standard. This means:

- We know the areas and types of suppliers our wood comes from.
- We do not knowingly purchase wood, wood fiber, or products for distribution that originate from illegal logging.
- We use independent auditors.
- We reach out to and educate family forest owners about sustainable forestry.

## CLIMATE CHANGE

We are committed to reducing our greenhouse gas emissions and limiting our use of fossil fuels by using carbon-neutral biomass for our energy needs. Our goal is to reduce our greenhouse gas emissions 40 percent by 2020, compared with 2000 levels. By the end of 2015, our total (or absolute) greenhouse gas emissions decreased by 29 percent from 2000.

## RESIDUALS MANAGEMENT

We use an average of 98 percent of each log in our manufacturing processes. Once our lumber is milled, the residuals of the milling process are used to make additional products (such as pulp, paper, or OSB) or to generate energy for our facilities.

## ENERGY USE

Company-wide, we meet 80 percent of our energy needs by using renewable and carbon-neutral biomass fuels such as bark, wood residuals and other organic byproducts of our manufacturing process. Increasing the use of renewable biomass-based fuels reduces the use of fossil fuels and associated carbon dioxide emissions.

## ABOUT TIMBERSTRAND AND OSB

Timberstrand® Laminated Strand Lumber and Weyerhaeuser Oriented Strand Board manufacturing processed combine technology and innovation to convert logs into high-performing engineered products. Timberstrand® is an extremely versatile product and is available for multiple applications such as rim board, headers, beams, columns, studs, sill plates, and stair stringers. Weyerhaeuser Edge™ and Edge Gold™ OSB panels allow for fast installation with virtually no buckle, cup, warp or sag and are engineered to deliver consistent quality and thickness so floors will lie flat.