Celebrating Edmonton’s Wood Architecture
Meadows Community Recreation Centre &
Meadows Branch Library

2016 Prairie Wood Design Award Winner
Interior Wood Showcase Category
Meadows Community Recreation Centre & Meadows Branch Library

Carbon Summary

Volume of wood products used:
4146 cubic meters (146410 cubic ft) of lumber and sheathing

U.S. and Canadian forests grow this much wood in:
12 minutes

Carbon stored in the wood:
3230 metric tons of carbon dioxide

Avoided greenhouse gas emissions:
6589 metric tons of carbon dioxide

Total potential carbon benefit:
9819 metric tons of carbon dioxide

Equivalent to:
1875 cars off the road for a year

Energy to operate a home for 835 years

Project Team

Client: City of Edmonton
Architect:
Group2 Architecture Interior Design Ltd.
Project Architect: Perkins+Will
Engineer: CH2M
General Contractor:
PCL Construction Management Inc.
Wood Supplier: Western Archrib
Images courtesy of Tom Arban Photography Inc

The jury felt it was significant that wood played such a large role in this type of complex, which is usually done in other materials. The wood structure is a unifying element between the spaces of the centre.
Valley Zoo Entry and Wander Path

2016 Prairie Wood Design Award Nominee
Institutional Category
Carbon Summary

- **Volume** of wood products used:
  - 110 cubic meters (3885 cubic ft) of lumber and sheathing

- **U.S. and Canadian forests grow** this much wood in:
  - 19 seconds

- **Carbon stored** in the wood:
  - 81 metric tons of carbon dioxide

- **Avoided** greenhouse gas emissions:
  - 171 metric tons of carbon dioxide

- **Total potential carbon benefit**:
  - 252 metric tons of carbon dioxide

- **Equivalent to**:
  - 48 cars off the road for a year
  - Energy to operate a home for 21 years

Project team

- **Client**: City of Edmonton
- **Architect & Engineer**: DIALOG
- **General Contractor**: Stuart Olson Inc.
- **Wood Supplier**: Western Archrib, Edmonton
- **Photo**: Images courtesy of Tom Arban Photography Inc
Kingsway/Royal Alex and MacEwan LRT Stations

Carbon Summary

The jury appreciated the elegant details of the Kingsway/Royal Alex LRT Station and felt the team was dedicated to a simple clarity of executing the design.
Borden Park Pavilion

2016 Prairie Wood Design Award Winner
Recreational Category
Borden Park Pavilion

Carbon Summary

- Volume of wood products used: 15 cubic meters (530 cubic ft) of lumber and sheathing
- U.S. and Canadian forests grow this much wood in: 3 seconds
- Carbon stored in the wood: 11 metric tons of carbon dioxide
- Avoided greenhouse gas emissions: 23 metric tons of carbon dioxide
- Total potential carbon benefit: 34 metric tons of carbon dioxide
- Equivalent to: 7 cars off the road for a year
- Energy to operate a home for 3 years

Project team

Client: City of Edmonton
Architect: gh3 inc.
Engineer: Chernenko Engineering Ltd.
General Contractor: Jen-Col Construction Ltd.
Wood Supplier: Western Archrib
Images courtesy of Raymond Chow

The jury was unanimous in their decision about this project. The design is coherent, consistent, elegant and expresses wood beautifully. The finished building shows different qualities at night. It is a singularly strong concept. The form and the structure complement each other.
Victoria Park Pavilion
Nominated in the Recreational Category

Carbon Summary

- **Volume** of wood products used: 100 cubic meters (3531 cubic ft) of lumber and sheathing
- U.S. and Canadian **forests grow** this much wood in: 17 seconds
- **Carbon stored** in the wood: 73 metric tons of carbon dioxide
- **Avoided** greenhouse gas emissions: 156 metric tons of carbon dioxide
- **Total** potential carbon benefit: 229 metric tons of carbon dioxide
- **Equivalent to:** 44 cars off the road for a year
- **Energy to operate a home for** 19 years

Project team

Client: City of Edmonton
Architect: Rayleen Hill Architecture + Design Inc.
Project Architect: Group2 Architecture Interior Design Ltd.
Engineer: Fast + Epp
General Contractor: EllisDon
Wood Supplier: Structurlam Products LP
Images courtesy of Stephan Pasche
Environmental Benefit Summary

**Volume of wood products used:**

4735m$^3$ (167210 ft$^3$) of lumber & sheathing

**U.S. and Canadian forests grow** this much wood in:

13 minutes and 39 seconds

**Carbon stored in the wood:**

3693 metric tons of carbon dioxide

**Avoided greenhouse gas emissions:**

7572 metric tons of carbon dioxide

**Total potential carbon benefit:**

11265 metric tons of carbon dioxide

**Equivalent to:**

2152 cars off the road for a year

**Energy to operate a home for 957 years**
Who we are

Wood WORKS! is a national, industry-led program of the Canadian Wood Council that promotes and supports the use of wood in all types of construction.

Working with the design community, Wood WORKS! connects practitioners with resources related to the use of wood in commercial, industrial, institutional and multi-unit residential construction, assists in product sourcing, and delivers educational seminars and training opportunities to existing and future practitioners.

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