

[ABOUT](#) [FIND SIPS](#) [TECHNICAL](#) [SUSTAINABLE BUILDING](#) [EDUCATION](#) [GALLERY](#) [MEDIA](#) [STORE](#) [CONTACT](#) [LOGIN](#)[GO](#)

University of Minnesota Duluth (UMD) Bagley Classroom



The University of Minnesota Duluth (UMD) was presented with the need for a new classroom facility and has taken the opportunity to design and develop a Net-Zero solution in the Bagley Nature area of its campus. They envisioned creating a home base for students in the form of a satellite classroom facility which takes full advantage of its natural environment and amenities. Working with David Salmela, FAIA, of Salmela Architects, and Carly Coulson, AIA LEED AP and certified Passive House consultant, the university fully embraced the concepts of Net-Zero and Platinum LEED certification. They accomplished their goal using proven materials such as structural insulated panels (SIPs), triple insulated glass and leading edge technology solutions for renewable energy. The Bagley Classroom opened in June of 2010 and has received LEED Platinum certification.

[Click here](#) to view a YouTube video highlighting more photos of this project

LEED Scores (NC Version 2 Platinum):

- SITE (SS): 11 points awarded out of a possible 14
- WATER (WE): 5 points awarded out of a possible 5
- ENERGY (EA): 15 points awarded out of a possible 17
- MATERIALS (MR): 9 points awarded out of a possible 13
- INDOOR ENVIRONMENT (EQ): 15 points awarded out of a possible 15
- INNOVATION (ID): 5 points awarded out of a possible 5



Owner University of Minnesota Board of Regents

Owner's representative UMD Facilities Management Department

Architect and interior designer Salmela Architects

Engineers Gausman & Moore (MEP); Meyer Borgman and Johnson (structural); Salo Engineering (civil)

Passive House consultant Carly Coulson

Envelope consultant Conservation Technologies
Commissioning agent Hallberg Engineering
General contractor and landscape UMD Facilities Management Department




Structural system Enercept, Inc. SIPs
Metal Rheinzink Salvaged Flatlock Zinc Tiles
Fiber composite Richlite/Intectural rainscreen & trim
Wood Custom FSC IPE screens
Windows Innotech/Trocal InnoNova 70.MS frames
Glass Cardinal Triple Pane #179 Lo.E Argon with XLedge spacers
Doors Woodmax custom wood Insulated core door
Low-slope roofing Firestone EcoWhite
Green roof LiveRoof CareFree Extreme Plant Mix
Concrete floor sealer Vexcon Starseal PS Clear
Paints and stains Benjamin Moore ECOSpec
Particleboard paneling Roseburg Skyblend FSC
Interior lighting LSI Industries Abolite
Exterior Hadco LED wall mount; Luce Plan SKY LED PV bollard
Photovoltaics Sunny Boy Inverter; Sanyo HIT ZION PV panels
Plumbing Envirolet VF Vacuum Flush Composting Toilet System

Building automation system Siemens
Timber beams Duluth Timber Company reclaimed Douglas Fir heavy timbers
Insulation Benchmark Foam recycled content EPS; Bonded Logic Ultratouch
Vapor barrier film TenoArm
Waterproofing Building Envelope Innovations Wet-Flash PM 7000
Plumbing Sloane SOLIS sensor & solar powered faucet
Energy saving hand dryer TOTO Clean Dry
Energy monitoring system Square DPowerLogic
Ventilation System Venmar700i HRV

For more information regarding current 2016 zero net energy buildings from the New Building Institute [Click here](#) to view or download the pdf from the New Building Institute. The UMD Bagley Classroom project is listed on page 13 of this document.



Recent Posts

	Let's Talk Technical 🕒 Feb 8, 2021
	SIPA's Educational Videos – Remastered and Refreshed for a New Year 🕒 Jan 15, 2021
	SIP Educational Training and Resources 🕒 Dec 18, 2020

Helpful Links









SIPA Website Sponsors

< >











The Structural Insulated Panel Association (SIPA) is a non-profit trade association representing manufacturers, suppliers, dealer/distributors, design professionals, and builders committed to providing quality structural insulated panels for all segments of the construction industry.

NEWSLETTERS

- > [SIPA in the News](#)
- > [SIPA Press Releases](#)
- > [SIPA Newsletters](#)
- > [SIPA Calendar](#)

USEFUL LINKS

- > [SIPA on Facebook](#)
- > [SIPA on Twitter](#)
- > [SIPA on LinkedIn](#)
- > [SIPA YouTube Channel](#)

- > [SIPA Privacy Policy](#)
- > [SIPA Sales Policies](#)

BLOG TOPICS

- [Building Excellence Awards](#)
- [Case Studies](#)
- [Industry Happenings](#)
- [NAHB SmartMarket Briefs](#)
- [NYSERDA](#)
- [SIPA News Stories](#)
- [SIPs in the Press](#)
- [Video](#)