

## Mass Timber Portfolio

M.Thrailkill.Architect has provided architectural and structural specifications and compiled Project Manuals for **nearly 70 mass timber projects** since 2015<sup>1</sup>. These include a broad variety of project types, from community and higher education, to transportation and municipal, to residential and office buildings, and a range of structural systems, from pure mass timber to different hybrid mass timber systems. We've produced baseline mass timber specifications for manufacturers, fabricators and contractors as well.

1. University of Oregon Acoustic Research laboratory *Lever Architecture*  
Mass timber of **mass plywood panels (MPP) columns, beams, wall panels and roof decks** on concrete foundation  
Low-rise, high bay laboratory facility, new construction (Portland, Oregon) - *In design*
2. Mariners Hall at Columbia River Maritime Museum *Opsis Architecture*  
Mass timber of **plywood decks** over **glue-laminated timber frame** and concrete foundation  
Low-rise museum building, new construction (Astoria, Oregon) - *In design*
3. Old Mill Amphitheater *TVA Architects*  
Mass timber of **cross-laminated timber (CLT) decks, glue-laminated timber frame** and concrete frame  
Low-rise performing arts amenity building, new construction (Bend, Oregon) - *In design*
4. Redmond Public Safety Facility *FFA Architecture and Interiors*  
Mass timber of **cross-laminated timber (CLT) decks, glue-laminated timber frame** and concrete frame  
Low-rise public safety building, new construction (Redmond, Oregon) - *In design*
5. Baseline Mass Timber Prefabricator's Specifications *Intelligent City*  
Development of **baseline mass timber pre-fabrication specifications** for manufacturer's proprietary building modules of **cross-laminated timber (CLT) panels, mass plywood panels (MPP)** and other components
6. Sortis Headquarters *Hacker Architecture*  
Mass timber of **cross-laminated timber (CLT) decks, glue-laminated timber frame** and concrete core  
Mid-rise office building/ corporate headquarters, new construction (Portland, Oregon) - *In design*
7. William & Mary West 1 Housing and Dining *VMDO Architects*  
Mass timber of **cross-laminated timber (CLT) decks, glue-laminated timber frame** and concrete cores and shear walls - Low-rise higher education building, new construction (Williamsburg, Virginia) - *In construction*
8. Baseline Mass Timber Manufacturer's Specifications *Mass Timber Services*  
Development of **baseline mass timber specifications** for manufacturer's proprietary **cross-laminated timber (CLT) panels** and **glued-laminated members**
9. Mass Casitas for Hacienda CDC *Salazar Architect*  
Mass timber of **mass plywood panels (MPP)**  
Prefabricated, single-family homes, new construction (Talent and other locations, Oregon) - *In construction*
10. North Plains Public Works *Process Architecture and Design*  
Mass timber of **cross-laminated timber (CLT) decks, glue-laminated timber frame** and steel braced frame  
Low-rise municipal services building, new construction (North Plains, Oregon) - *In construction*
11. Oregon State University Cascades Campus Student Success Center *Opsis Architecture*  
Mass timber of **cross-laminated timber (CLT) decks, glue-laminated timber frame** and concrete core  
Low-rise higher education building, new construction (Bend, Oregon) - *In construction*

1. As reference, Seattle-based structural engineering firm Magnusson Klemencic Associates has "designed over 25 buildings with [mass timber] in recent years". (Think Wood, 6/2024)

12. Santa Barbara Police Station *FFA Architecture and Interiors*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and concrete core  
Low-rise community safety and services building, new construction (Santa Barbara, California) - *In design*
13. Portland State University Art + Design Gateway *Lever Architecture*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and concrete core  
Low-rise higher education building, new construction (Portland, Oregon) - *In design*
14. Upshur Apartments *Hacker Architecture*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and concrete core  
Mid-rise multi-family apartment building, new construction (Portland, Oregon) - *In design*
15. Blue Lake Park Operations Center *FFA Architecture and Interiors*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and steel braced frame  
Low-rise recreation maintenance and services building, new construction (Portland, Oregon) - *In construction*
16. Euclid Street Office Building *Lever Architecture*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and concrete core  
Low-rise class A office building, new construction (Santa Monica, California) - *In design*
17. Bergstrom Winery Production Building *Linden Brown Architects*  
Mass timber of **tongue-and-groove lumber decks**, **glue-laminated timber frame**, **mass plywood panels (MPP)** and  
lumber-framed shear walls; Community library, low-rise, new construction (Portland, Oregon) - *In design*
18. McCadden Place Office Building *Lever Architecture*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and steel core  
Low-rise class A office building, new construction (Los Angeles, California) - *In design*
19. Albina Library *Lever Architecture*  
Mass timber of **tongue-and-groove lumber decks**, **glue-laminated timber frame** and lumber-framed shear walls  
Community library, low-rise, new construction (Portland, Oregon) - *In construction*
20. North Portland Library *Lever Architecture*  
Mass timber of **tongue-and-groove lumber decks**, **glue-laminated timber frame** and lumber-framed shear walls  
Community library, low-rise, new construction (Portland, Oregon) - *In construction*
21. Argyle Apartments *Wright Architecture*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and concrete core  
Mid-rise multi-family apartment building, new construction (Portland, Oregon) - *In design*
22. Mount Scott Community Center *FFA Architecture and Interiors*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and concrete core  
Low-rise community recreation and activities building, new construction (Portland, Oregon) - *In construction*
23. 900 SE Sandy Apartments *Lever Architecture*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and steel core  
Low-rise class A office building, new construction (Portland, Oregon) - *In design*
24. Albina One Apartments *Lever Architecture*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and concrete core  
Mid-rise apartment building, new construction (Portland, Oregon) - *In construction*
25. Redmond Senior and Community Center *Opsis Architecture*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and concrete core  
Low-rise community recreation and activities building, new construction (Redmond, Washington) - *Completed*

*Projects are listed in reverse chronological order, with most recent project first; some projects are in design and documentation stages currently, others have been completed (or were not constructed), as noted.*

26. World Forestry Center Expansion and Renovation *Lever Architecture*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and **CLT core**  
Low-rise class A office building, new addition and renovation (Portland, Oregon) - *In design*
27. Baseline Mass Timber Reference Specifications *WoodWorks, div. of Wood Products Council*  
Development of **baseline mass timber specifications** meeting latest mass timber standards for **CLT, MPP, DLT, NLT, glued-laminated** and other **mass timber**, for national distribution to architects, engineers and contractors.
28. Thesis Office Building *Lever Architecture*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and steel core  
Low-rise class A office building, new construction (Portland, Oregon) - *Completed*
29. Kirkland Urban East Office Building *Lever Architecture*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and concrete cores  
Mid-rise, class A office building, new construction (Kirkland, Washington) - *In design*
30. Salem Public Works Operations Building *Hacker Architects*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and concrete core  
Low-rise class A office building, new construction (Salem, Oregon) - *Completed*
31. Shevlin Crossing Office Buildings, Phases A and B *TVA Architecture*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and **CLT core**  
Low-rise class A office buildings, new construction (Bend, Oregon) - *Completed*
32. Monmouth City Hall *FFA Architecture and Interiors*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and **CLT shear walls**  
Low-rise municipal headquarters building and courts facility (Monmouth, Oregon) - *Completed*
33. 2525 Hyperion Office Building *Lever Architecture*  
Mass timber of **cross-laminated timber (CLT) decks** and steel frame and core  
Low-rise class A office building addition and renovation (Los Angeles, California) - *In design*
34. Forest Grove City Hall *FFA Architecture and Interiors*  
Mass timber of **cross-laminated timber (CLT) decks**, steel frame and concrete shear walls  
Expansion of low-rise municipal headquarters building (Forest Grove, Oregon) - *Completed*
35. Sunrise Water Authority Headquarters Office Building *FFA Architecture and Interiors*  
Mass timber of **cross-laminated timber (CLT) decks**, steel frame and concrete shear walls  
Low-rise public utility headquarters building and maintenance garage (Happy Valley, Oregon) - *Completed*
36. Baseline Mass Timber Fabricator's/ Erector's Specifications *TimberLab, div. of Swinerton Builders*  
Development of **baseline mass timber specifications** for **cross-laminated timber (CLT)**, **glue-laminated wood**, **mass plywood panels (MPP)** and **connection hardware** for contractor's use on multiple projects
37. Josephine Apartments *Ink:Built Architecture*  
Mass timber hybrid of **mass plywood decks**, **glue-laminated wood frame** and concrete core  
Mid-rise commercial, residential and office building, new construction (Portland, Oregon) - *In design*
38. Dekum Court Apartments *Lever Architecture*  
Mass timber hybrid of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** with steel braced frames  
Low-rise community/ amenity building, new construction (Portland, Oregon) - *In construction*
39. Perry Smiley Office Building *Lever Architecture*  
Mass timber hybrid of **cross-laminated timber (CLT) decks**, composite steel/ concrete beams, steel braced frames  
Mid-rise commercial and office building, new construction (Culver City, California) - *In design*

40. Park Blocks Pavilion and Plaza *FFA Architecture and Interiors*  
 Mass timber of **cross-laminated timber (CLT) roof deck, walls and shear walls** and **glue-laminated timber frame**  
 Low-rise farmers' market building and public plaza, new construction (Eugene, Oregon) - *Completed*
41. CT7 Spring Street Office Building *Lever Architecture*  
 Mass timber hybrid of **cross-laminated timber (CLT) decks, glue-laminated timber frame** with steel and CMU cores  
 Mid-rise class A office building expansion of existing warehouse (Los Angeles, California) - *Completed*
42. University of Portland Shiley-Marcos Center for Design and Innovation *Opsis Architecture*  
 Mass timber hybrid of **cross-laminated timber (CLT) decks** and steel frame  
 Higher education teaching and laboratories, low-rise, new construction (Portland, Oregon) - *Completed*
43. King County Jameson Office Building Replacement *MWA Architecture*  
 Mass timber hybrid of **cross-laminated timber (CLT) decks**, steel frame and concrete shear walls  
 Low-rise public utility headquarters and maint. garage, new construction (Seattle, Washington) - *Not constructed*
44. Division 28 Homes *Hacker Architects*  
 Mass timber hybrid of **cross-laminated timber (CLT) decks** and cast-in-place concrete frame and core  
 Mid-rise condominium building, new construction (Portland, Oregon) - *Completed*
45. Baseline Mass Plywood Panel Manufacturer's Specifications *Freres Brothers*  
 Development of **baseline mass timber specifications** for manufacturer's proprietary **mass plywood panels (MPP)**
46. Halley Rise Office Building *Hacker Architects*  
 Mass timber hybrid of **cross-laminated timber (CLT) decks, glue-laminated timber frame** and concrete core  
 Mid-rise class A office building, new construction (Reston, Virginia) - *In bidding*
47. Charles M. Schulz, Sonoma County Airport *Mead & Hunt*  
 Mass timber hybrid of **cross-laminated timber (CLT) decks, glue-laminated timber** and steel frame and core  
 Airport terminal expansion and additions, low-rise (Santa Rosa, California) - *Completed*
48. Phase 4, 3rd Avenue Office Building *Hacker Architects*  
 Mass timber hybrid of **mass plywood decks, and frame** and concrete core  
 Mid-rise class A office building, new construction (Portland, Oregon) - *Not constructed*
49. Meyer Memorial Trust Office Building *Lever Architecture*  
 Mass timber of **mass plywood panel (MPP) decks, frame and core**  
 Low-rise class office building, new construction (Portland, Oregon) - *Completed*
50. Pier 70 Parcel A Office Building *Hacker Architects*  
 Mass timber hybrid of **cross-laminated timber (CLT) decks, glue-laminated timber frame** with steel braced frames  
 Mid-rise class A office building, new construction (San Francisco, California) - *Not constructed*
51. Hidden Creek Community Center *Opsis Architecture*  
 Mass timber hybrid of **cross-laminated timber (CLT) decks** and **glue-laminated** and steel frame and core  
 Community recreation center, low-rise, new construction (Hillsboro, Oregon) - *Completed*
52. Oregon Episcopal School Gymnasium Expansion *Hacker Architecture*  
 Mass timber of **cross-laminated timber (CLT) decks, glue-laminated timber frame** and core  
 Campus sports and recreation building expansion, low-rise (Portland, Oregon) - *Completed*
53. Nomad Apartments *Works Progress Architecture*  
 Mass timber of **cross-laminated timber (CLT) decks, glue-laminated timber frame** and lumber-framed core  
 Mid-rise mixed-use, multi-family housing, new construction (Portland, Oregon) - *Completed*

54. Adidas East Village South Recreation Building *Lever Architecture*  
Mass timber hybrid of **cross-laminated timber (CLT) decks** and **glue-laminated** and steel frame and core  
Corporate headquarters class A office building, mid-rise, new construction (Portland, Oregon) - *Completed*
55. Adidas East Village North Office Building *Lever Architecture*  
Mass timber hybrid of **mass plywood decks**, precast concrete frame and concrete core  
Corporate headquarters class A office building, high-rise, new construction (Portland, Oregon) - *Completed*
56. Ledding Library *Hacker Architects*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and lumber-framed shear walls  
Community library, low-rise, new construction (Milwaukie, Oregon) - *Completed*
57. Canyons Apartments *Path Architecture*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and lumber-framed core  
Mid-rise mixed-use, universal, multi-family housing, new construction (Portland, Oregon) - *Completed*
58. Adidas Intersection Office Atrium *Hacker Architects*  
Mass timber **cross-laminated timber (CLT) decks** and **glue-laminated timber frame**, connection to existing building  
Mid-rise class A office building lobby addition (Portland, Oregon) - *Completed*
59. Oregon Conservation Center/ The Nature Conservancy Office Building *Lever Architecture*  
Mass timber of **cross-laminated timber (CLT) decks** and **glue-laminated timber frame and core**  
Low-rise class A office building addition and renovation (Portland, Oregon) - *Completed*
60. Forest Park Entrance and Nature Center *Dangermond Keane Architecture*  
Mass timber of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and lumber-framed core  
Low-rise community and parks facility, new construction (Portland, Oregon) - *Project restarted*
61. Silica Office Building *William Kaven Architecture*  
Mass timber hybrid of **cross-laminated timber (CLT) decks**, **glue-laminated timber frame** and concrete core  
Mid-rise class A office building, new construction (Portland, Oregon) - *Completed*
62. First Tech Credit Union Oregon Headquarters Office Building *Hacker Architects*  
Mass timber hybrid of **cross-laminated timber (CLT) decks**, **glue-laminated timber** and steel frame and core  
Mid-rise class A office building, new construction (Hillsboro, Oregon) - *Completed*
63. Outpost Multi-Use Building *Skylab Architecture*  
Mass timber of **cross-laminated timber (CLT) decks** and **glue-laminated timber frame and core**  
Mixed-use commercial, low-rise, new construction (Hood River, Oregon) - *Completed*
64. Oregon State University, Advanced Wood Products Laboratory *Michael Green Architects*  
Mass timber of **mass plywood panel (MPP) decks and shear walls** and **glue-laminated timber** and steel frame  
Higher education teaching and laboratories, low-rise, new construction (Corvallis, Oregon) - *Completed*
65. Oregon State University, College of Forestry *Michael Green Architects*  
Mass timber of **cross-laminated timber (CLT) decks and core** and **glue-laminated timber frame**  
Higher education teaching and laboratories, low-rise, new construction (Corvallis, Oregon) - *Completed*
66. Flex Office Building *Lever Architecture*  
Mass timber of **cross-laminated timber (CLT) decks** and **glue-laminated timber** and steel frame  
Low-rise maker space/ commercial building, new construction (Portland, Oregon) - *Completed*
67. Framework Office Building and Apartments *Lever Architecture*  
Mass timber of **cross-laminated timber (CLT) decks** and **glue-laminated timber frame and core**  
High rise mixed-use office building / residential, new construction (Portland, Oregon) - *Not constructed*