

Timber Construction Day
Norwegian Design and Architecture Centre, Oslo

Seabird Island School

Seabird Island, British Columbia

1988 - 1991





Strawberry Vale Elementary School

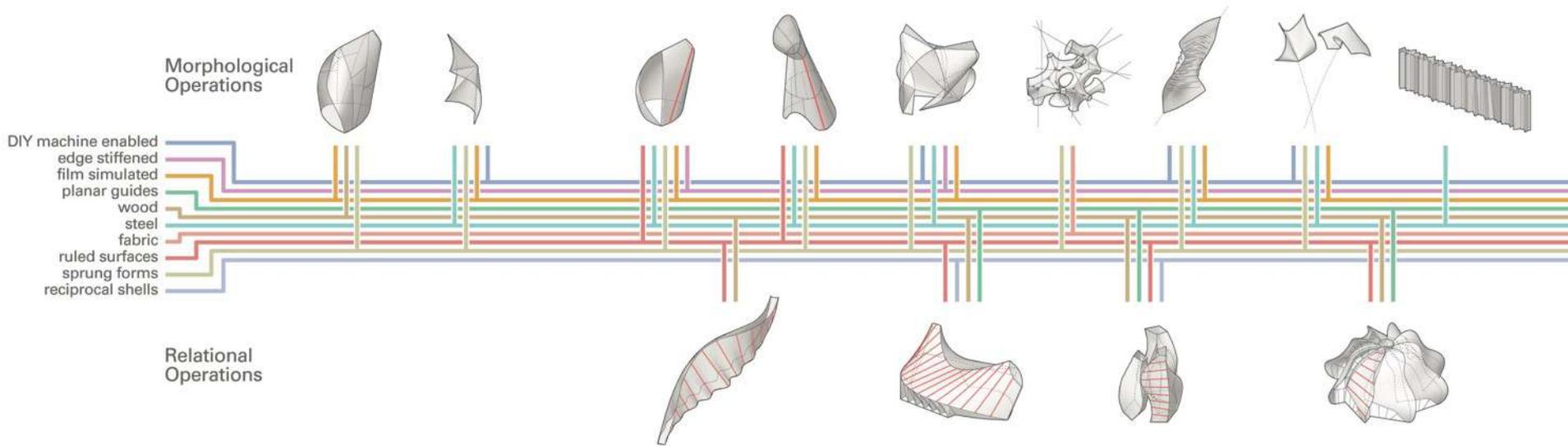
Victoria, British Columbia 1992 - 1995





Material Operations

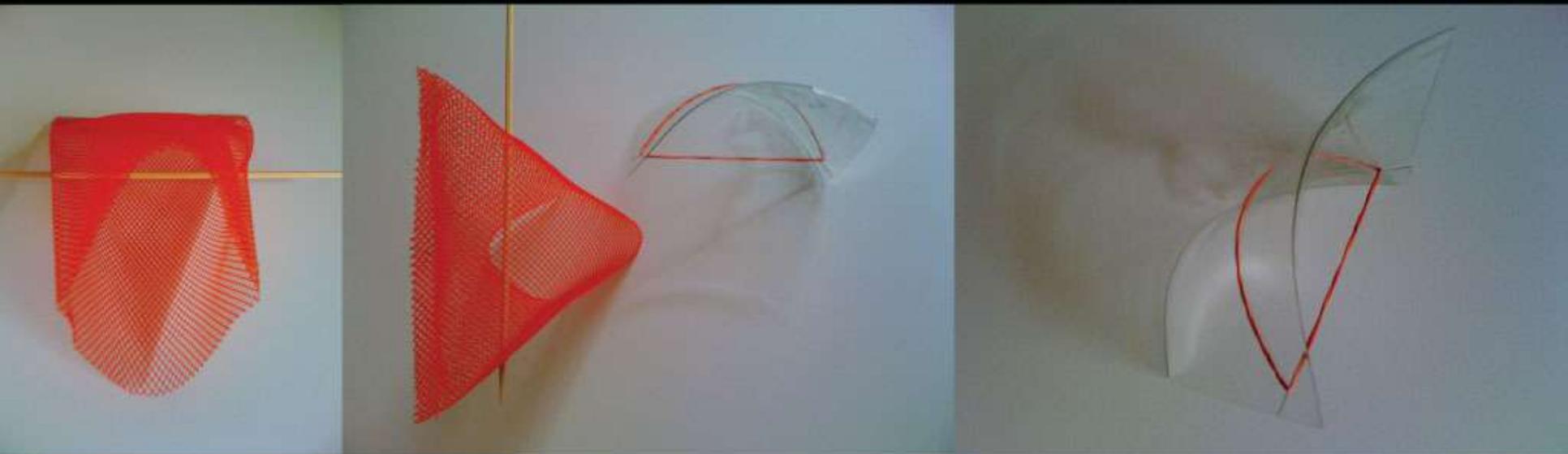




Operation lineage

Skating Shelters
Winnipeg, Manitoba 2011







Veneer experiments



1st scale up attempt



Assembly of larger sheets



Full scale mock-up



Mock-up occupation



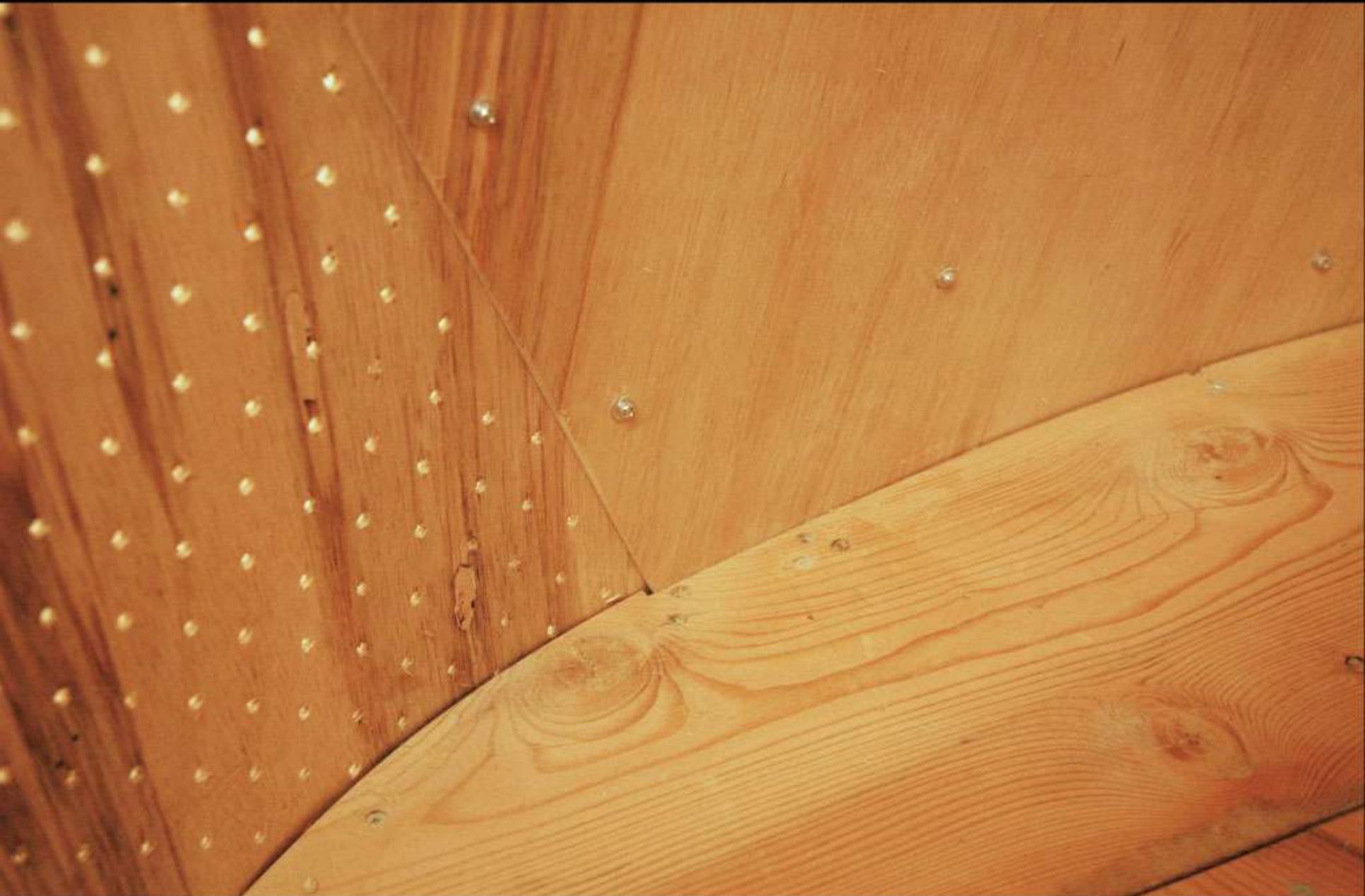
Material failure resolution



Material intersection resolution



Layering + perforation



Layering + rabbet



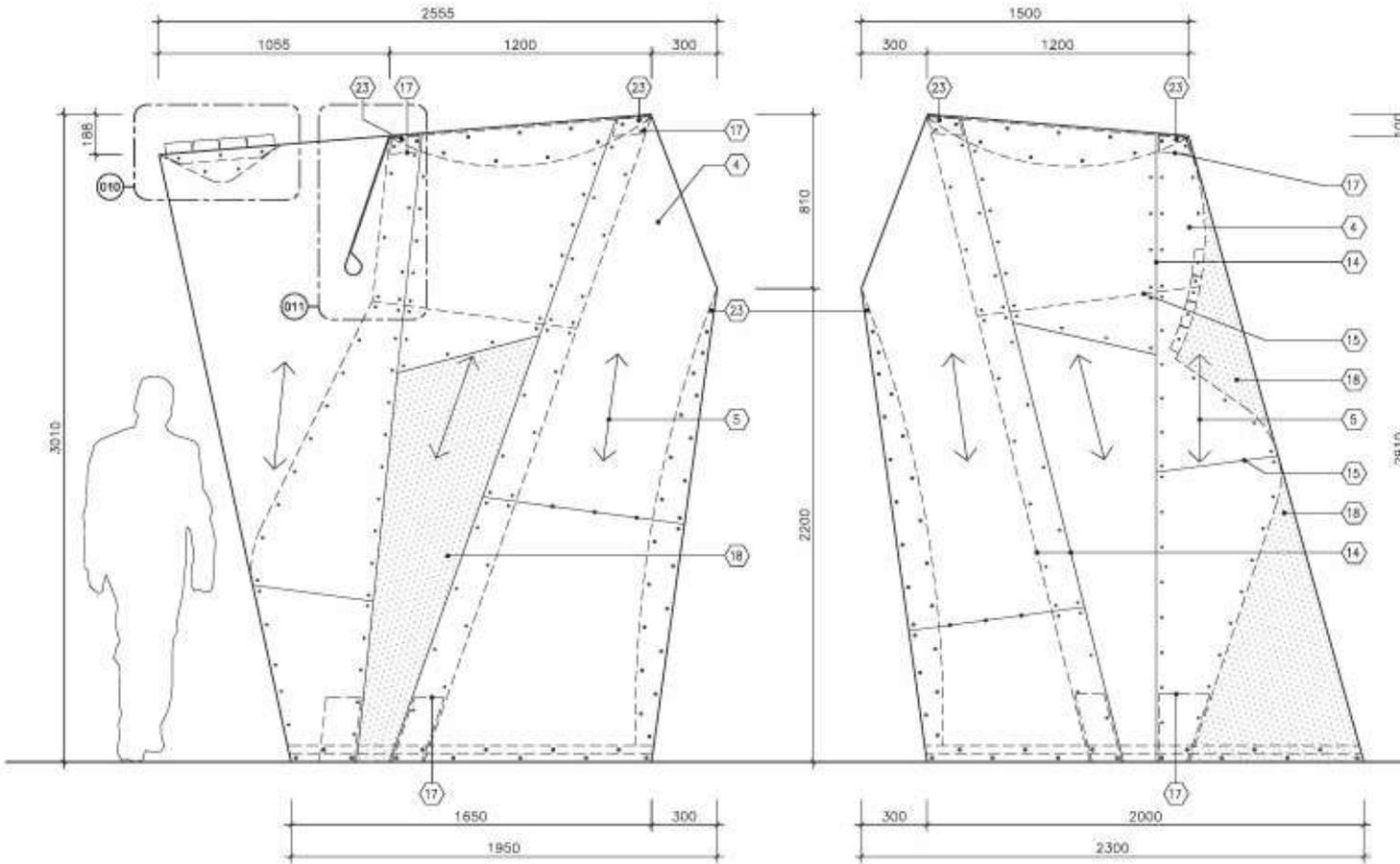
Mock-up elevations

General Notes

1. ADHESIVE TO BE EXTERIOR GRADE POLYURETHANE CONSTRUCTION ADHESIVE.
2. FINISH ALL WOOD COMPONENTS AND ASSEMBLES WITH 2 COATS OF EXTERIOR SOLVENT BASED TRANSPARENT STAIN (BENGLAMAR MOON - ROOFTOP OR APPROVED EQUAL).
3. ALL FASTENERS TO BE STAINLESS STEEL UNLESS OTHERWISE NOTED.

Key Notes

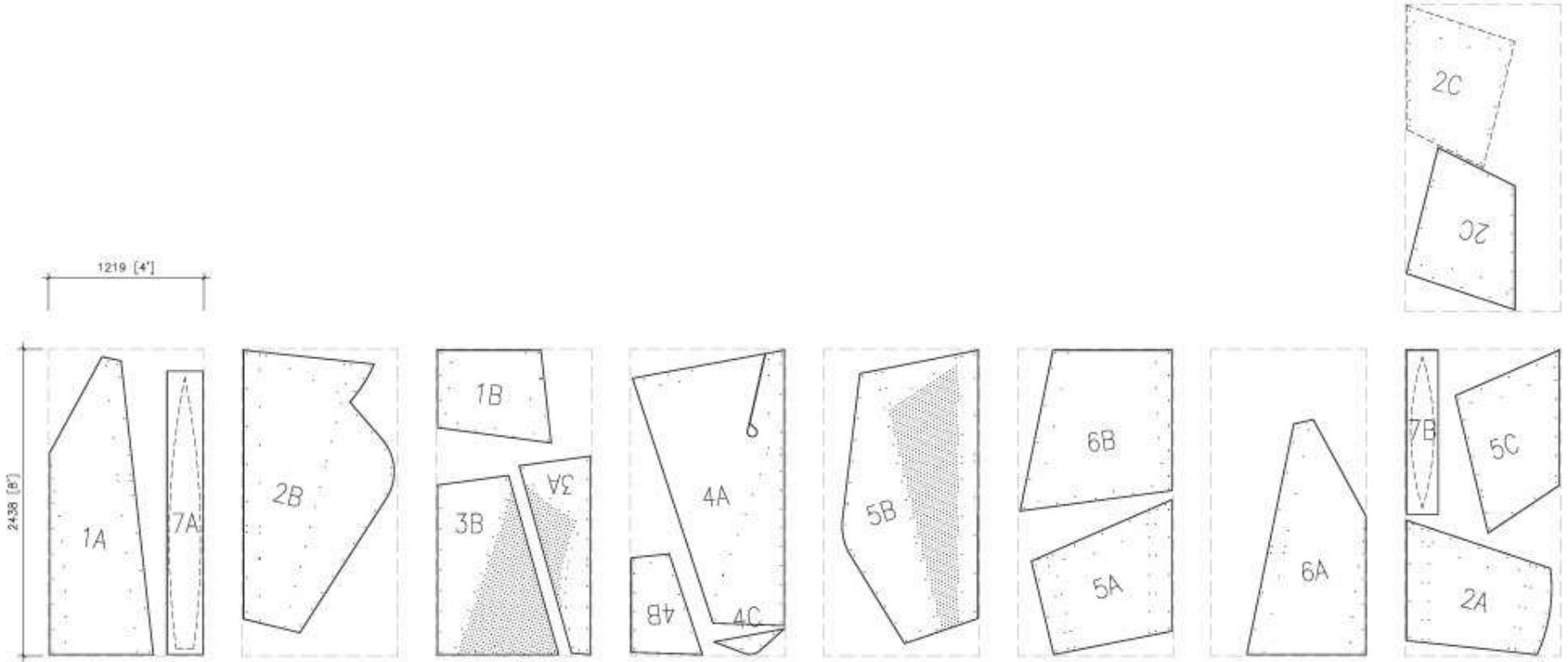
- 1 FASTEN AND ADHERE BASE WITH 1002.0 STAINLESS STEEL FLAT SOCKET HEAD WOOD SCREW AND #10 COUNTERSUNK FINISHING WASHER.
- 2 FASTEN AND ADHERE WOOD CORNER POST AND RIDGE WITH 8X1.5 STAINLESS STEEL FLAT SOCKET HEAD WOOD SCREW AND #8 COUNTERSUNK FINISHING WASHER.
- 3 SAW ON ALUM DOME HEAD NAILS WITH 3MM ALUM NAILERS.
- 4 RUBBER PLY PANELS: SAW MANDATORY RUBBER PLY FROM 1210 X 2430 [4' X 8'] LONG GREEN SHEETS.
- 5 DIRECTION OF FACE GRAIN
- 6 BASE PLATE ASSEMBLY: 3/8 X 288 [2' X 12'] LAMBER, LAP AND ADHERE AND FASTEN WITH 8X2.0 SOCKET HEAD WOOD SCREWS
- 7 STAINLESS STEEL THREADED ROD
- 8 STAINLESS STEEL DELT AND WASHER, COUNTERSUNK INTO BRG PLATE ASSEMBLY AND GLUE WITH BEES.
- 9 ROUND PLYWOOD PLATE, CUT TO FIT DIAMETER OF ICE HOLE, FINISH TO MATCH RUBBER PLY
- 10 ICE HOLE: DRILL WITH ICE AUGER AND FLOOD WITH WATER AFTER INSTALLING ROUND PLYWOOD PLATE.
- 11 COUNTERSINK STAINLESS STEEL NUT AND WASHER INTO WOOD BASE PLATE ASSEMBLY.
- 12 3/8x1/4 BLOOMING, WITH AS INDICATED
- 13 EXISTING ICE
- 14 LAP JOINT, FASTEN AND ADHERE AS INDICATED
- 15 SPLIT JOINT, FASTEN WITH 3MM ALUM DOME HEAD FINES AND 3MM STAINLESS STEEL FINER WASHER
- 16 3/8 X 1 1/4 WOOD PLANNING, PLY FROM 3/8 X 184 [2' X 8"] TO SQUARE EDGES: SLEE AND RECEIVE JOINT FLANGES. SAND AND SMOOTH TOP FLESH WITH WOOD BRG PLATE ASSEMBLY. ADHERE ALL JOINTS
- 17 GALVANIZED STEEL SHEET METAL STRAPPING AS REQUIRED, MIN THICKNESS 20 GAUGE
- 18 ROUND CHAIRS/ROPE PERFORATOR PATTERNS WITH 3MM DIA HO AT 25MM OFFSETS: OFFSET PATTERNS 20MM FROM EDGE AND ALIGN AS INDICATED
- 19 RUBBER PLY PANEL AT INTERIOR FACE OF CORNER POST AND RIDGE BEAM: CUT TO SIZE, ADHERE AND FASTEN WITH 8X1.5 STAINLESS STEEL FLAT SOCKET HEAD WOOD SCREW, FINISH EDGE FLUSH WITH FACE OF BLOOMING
- 20 NOTCH BRG ASSEMBLY TO SLIT RUBBER PLY PANELS
- 21 TWICE BASE TO SLIT RUBBER PLY PANELS. REFER TO 3/8 DIA ORN AND 3/8"
- 22 3/8 X 3/8 WOOD BLOOMING FINISH, FASTEN AND ADHERE AS INDICATED
- 23 8X1.5 STAINLESS STEEL FLAT SOCKET HEAD WOOD SCREW AND #10 COUNTERSUNK FINISHING WASHER.



Panel Layout
Winnipeg Warming Huts
Falkau Architects Inc

Scale: 1:20
reference
Issued: 14 DEC 2019

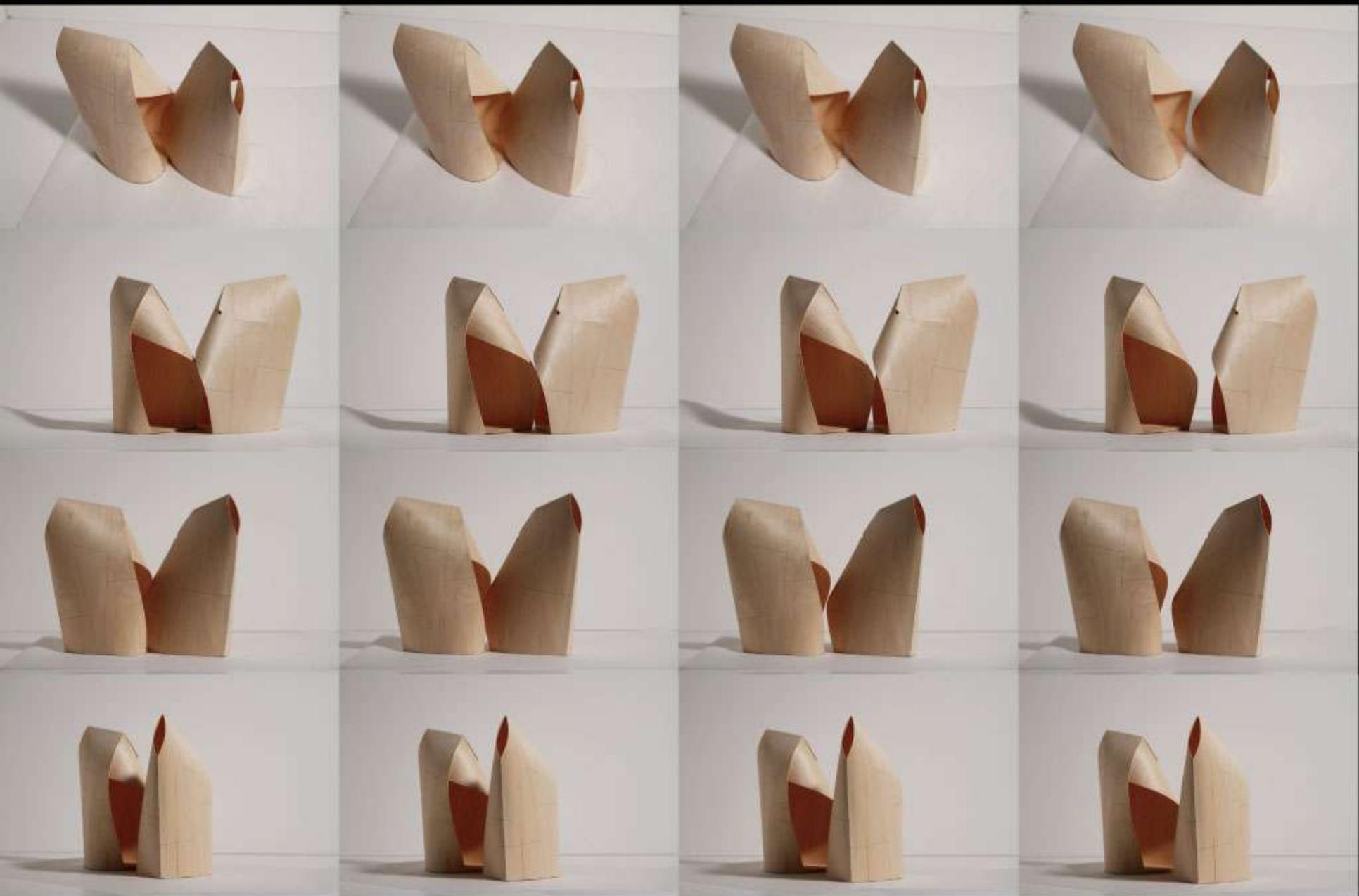
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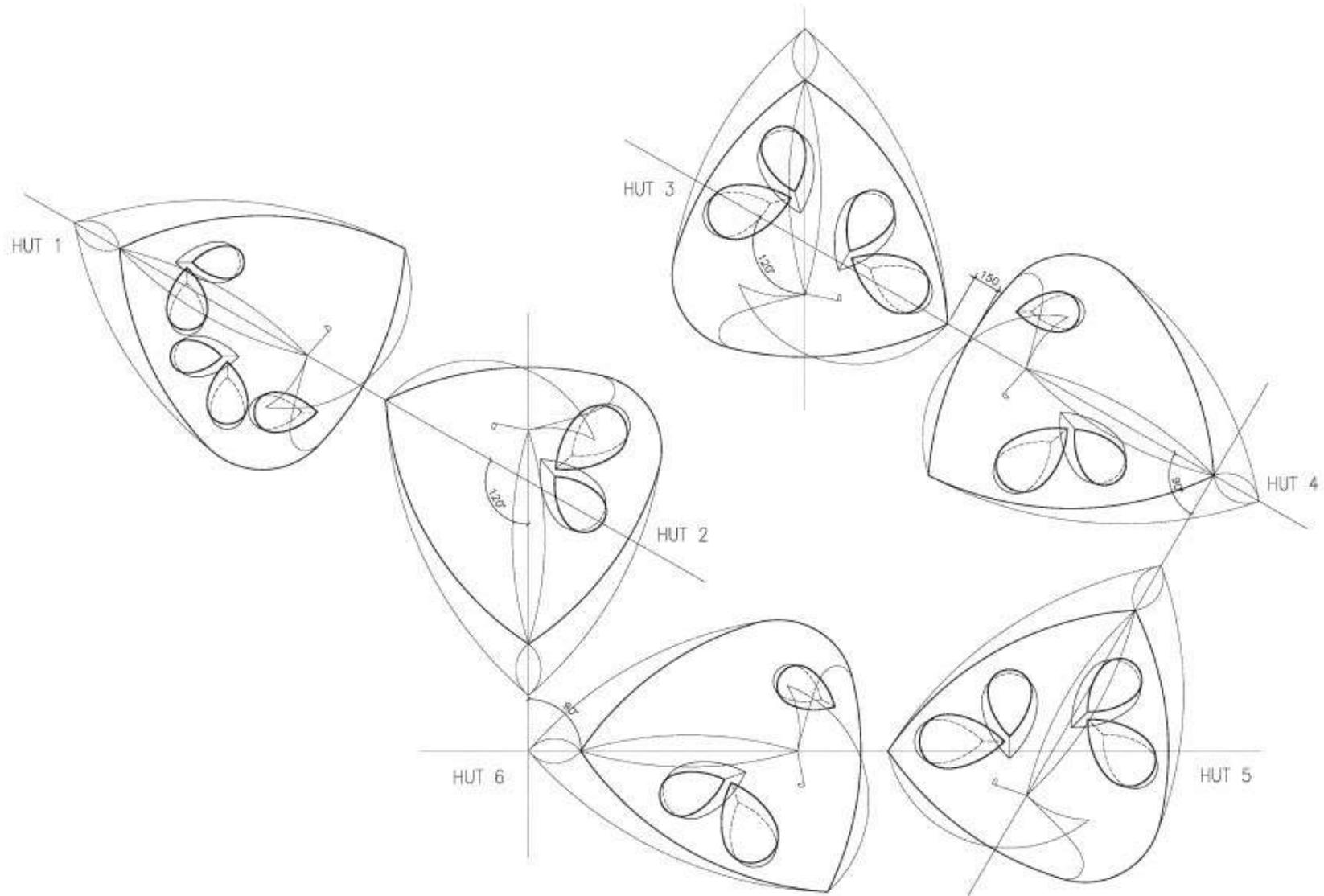
ISSUED FOR MOCK-UP

Plywood Sheet Layout
 Winnipeg Warming Huts
 Patkau Architects Inc

scale: 1:30
 reference:
 issued: 14 DEC 2010

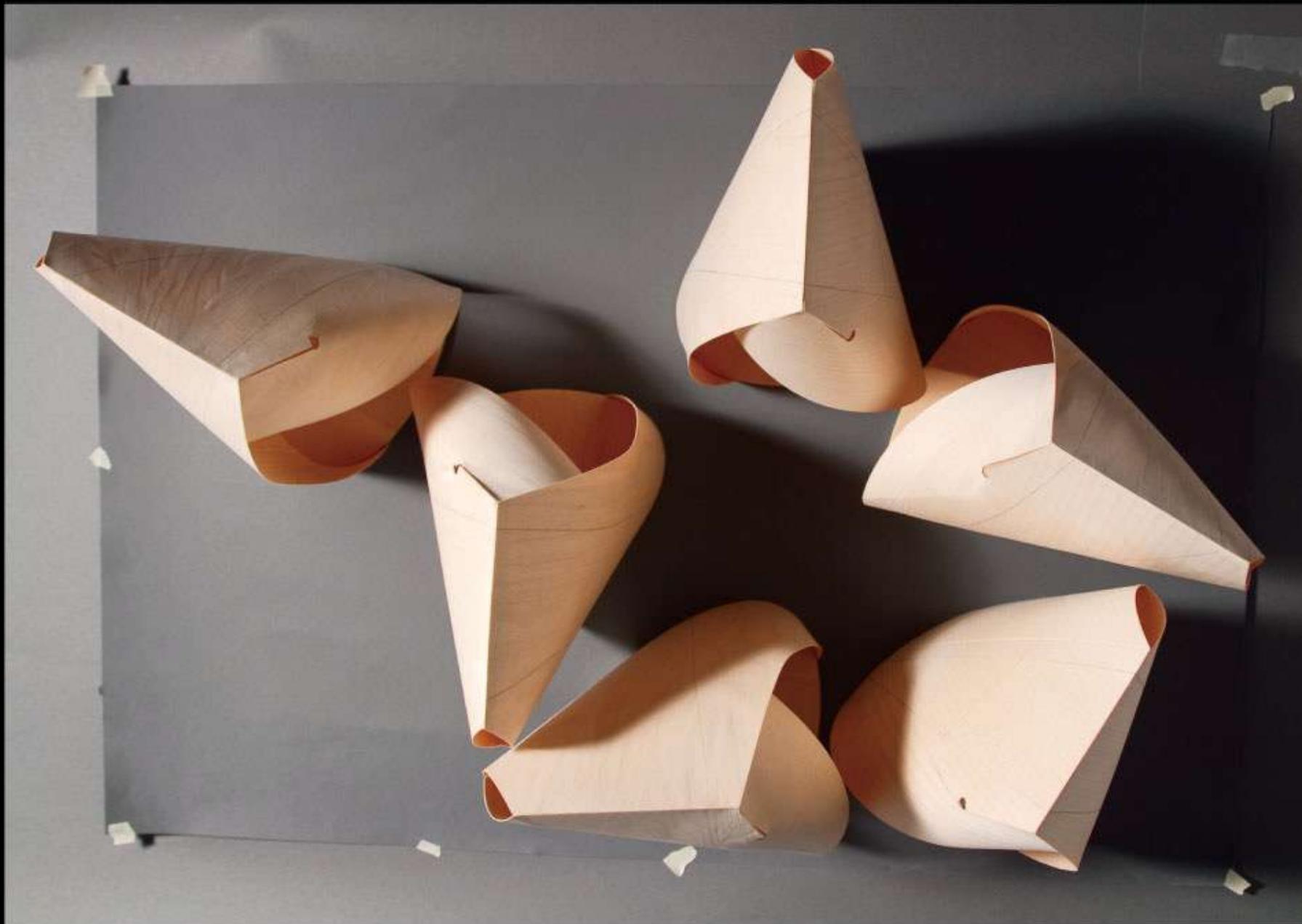


Pairing




Aggregation Plan
 Winnipeg Warming Huts
 Paskau Architects Inc.

scale: 1:20
 reference:
 issued: 03 FEB 2011



Clustering



Clustering

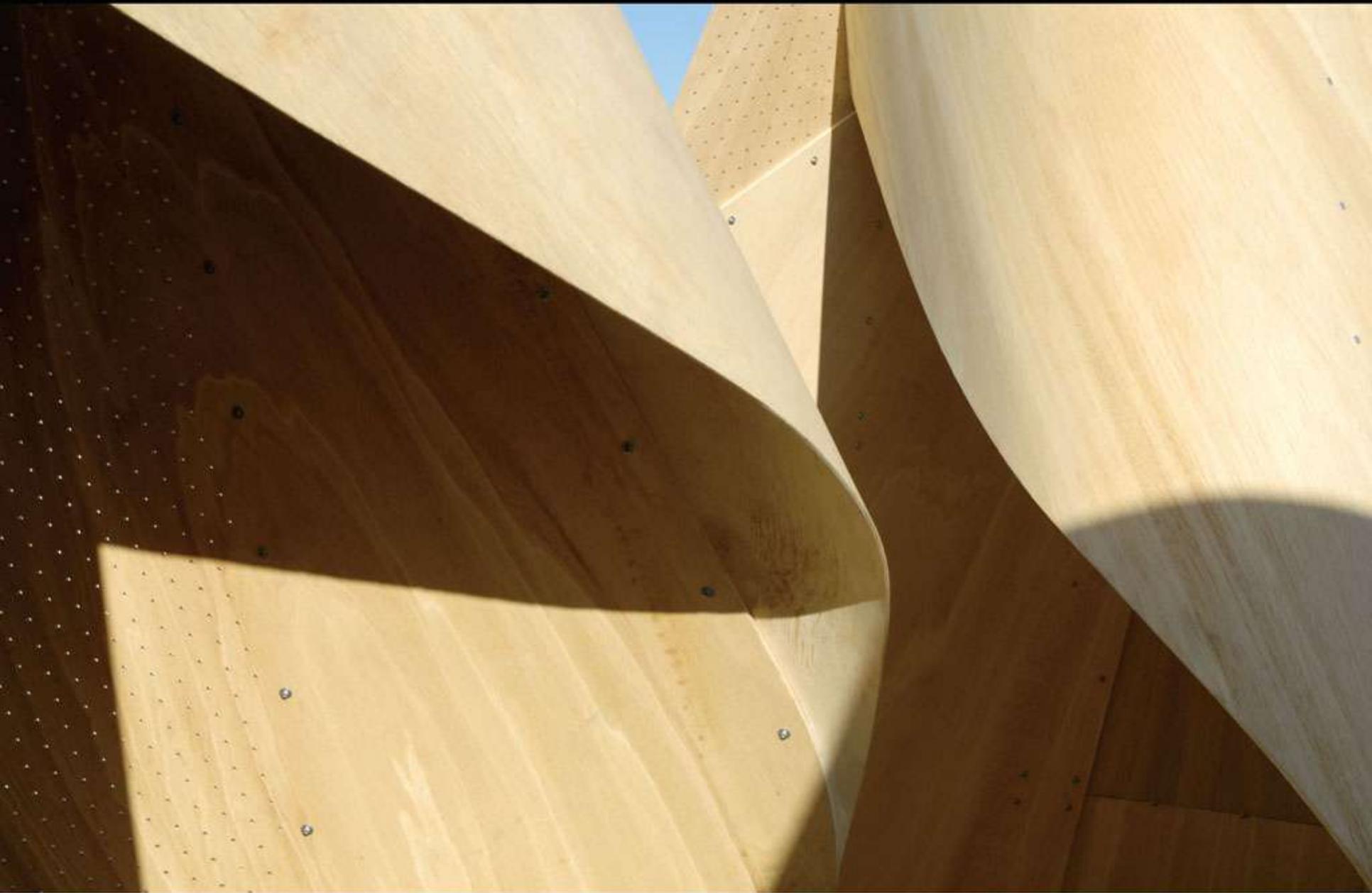


- 30 °C degrees













Plywood: Material of the Modern World

Victoria & Albert Museum
London, England 2017

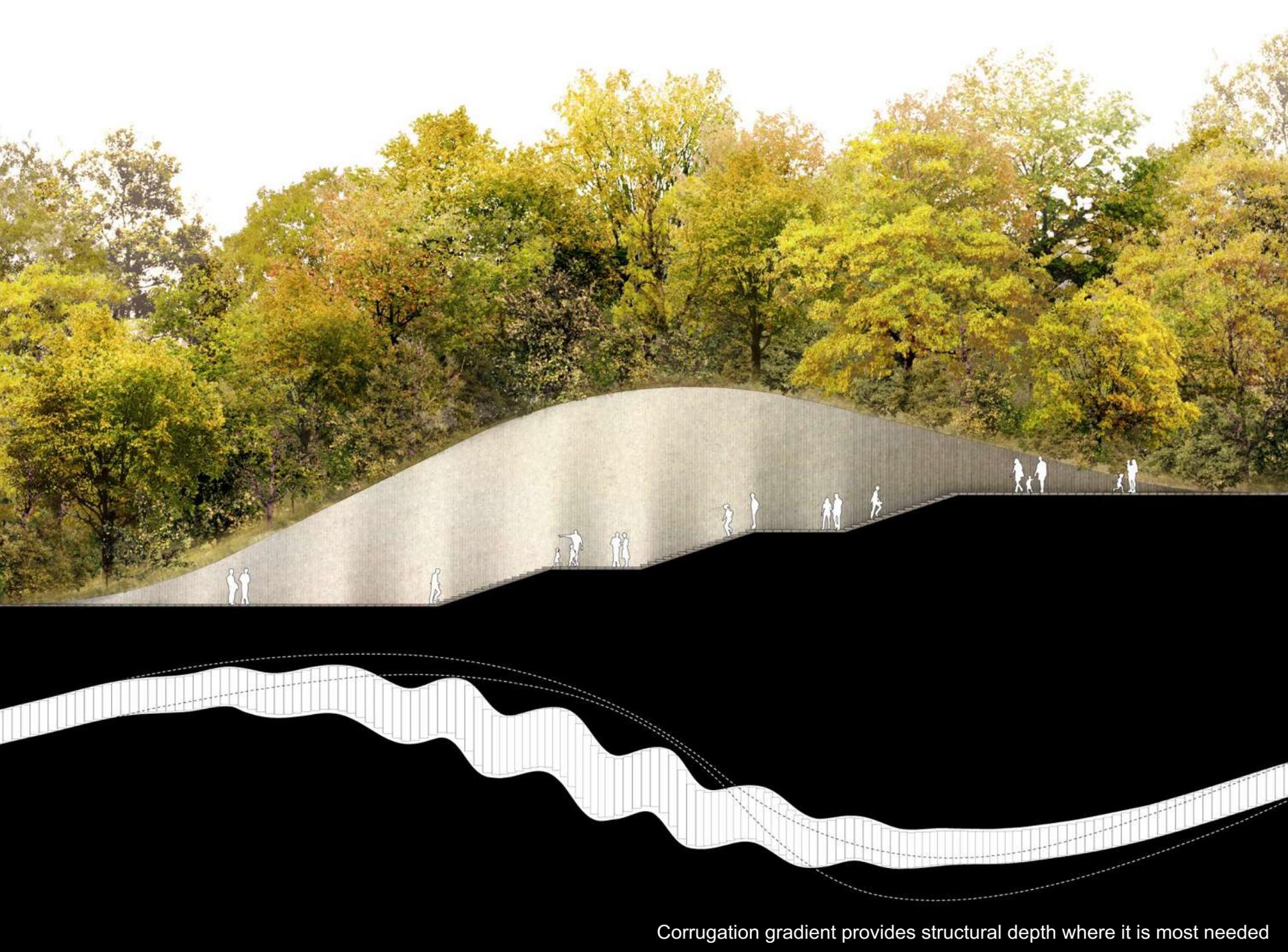




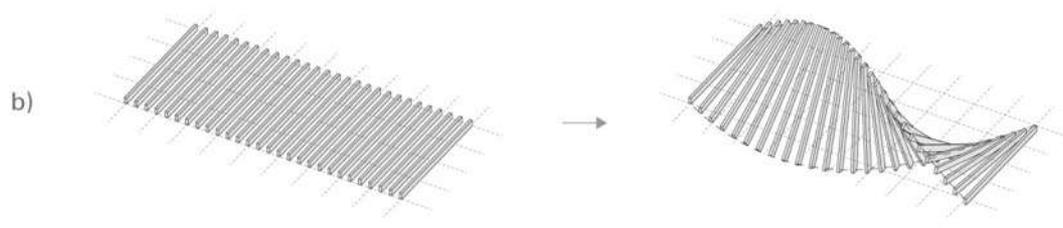
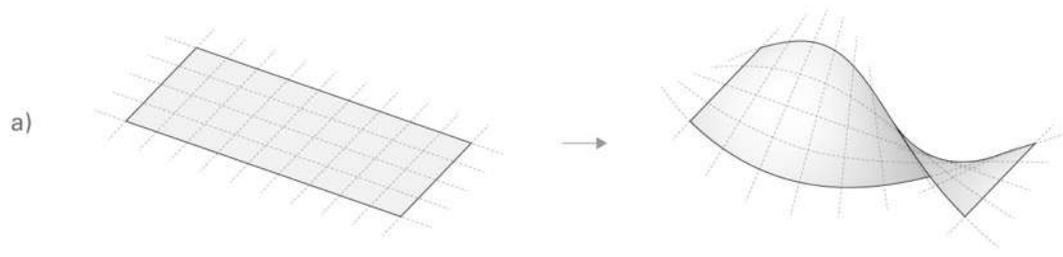
Rift
Speculative 2012

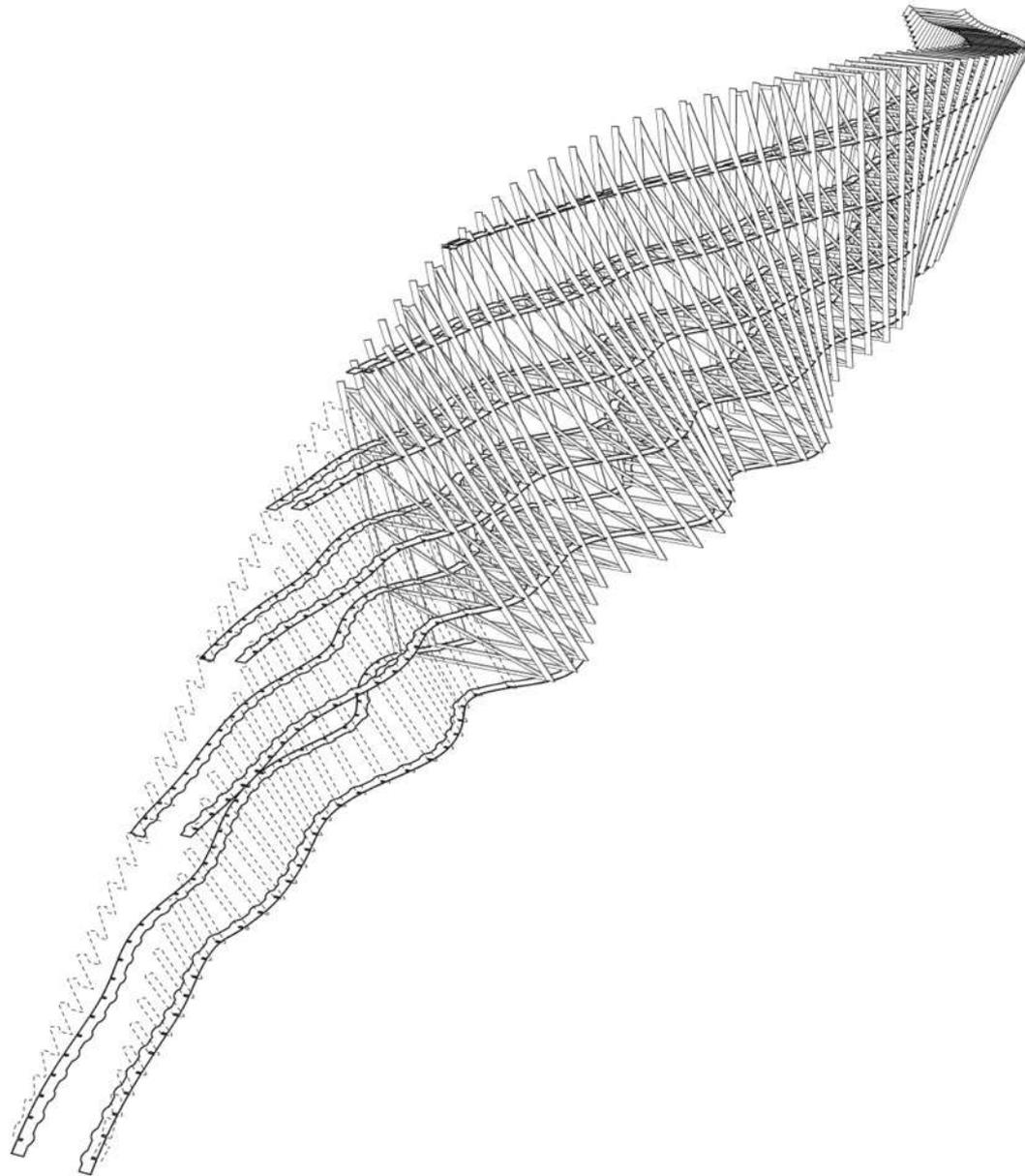


Passage through impassible terrain



Corrugation gradient provides structural depth where it is most needed

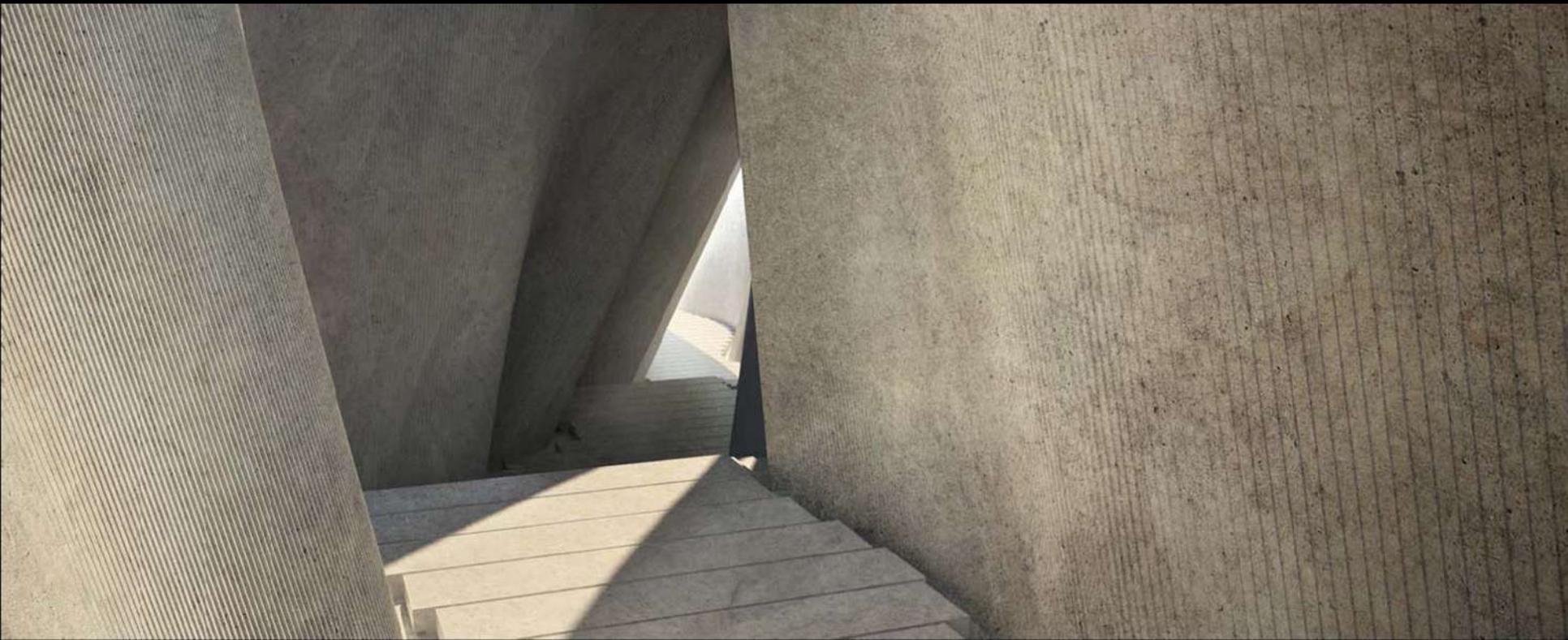




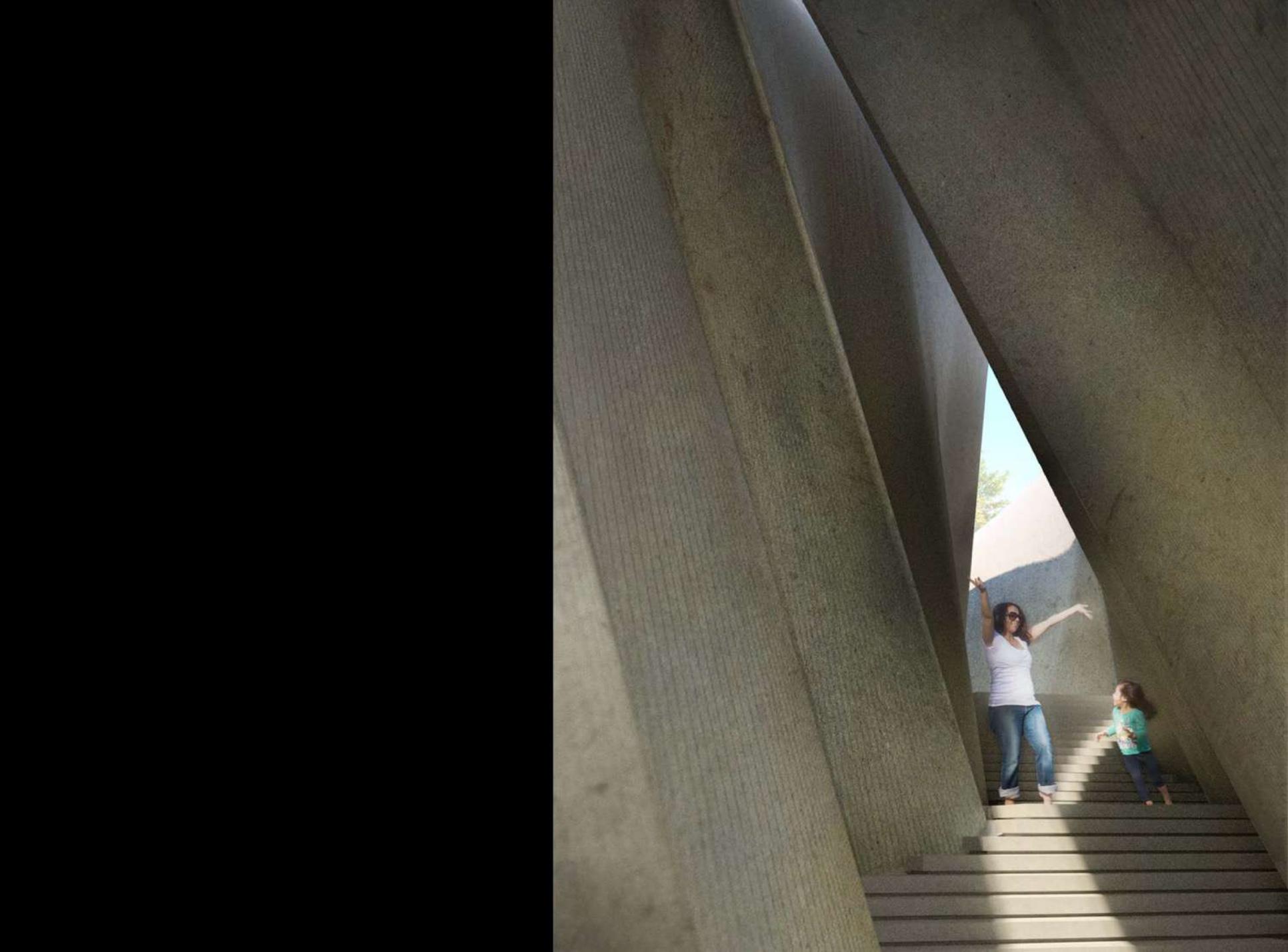
Registration rim board



Apply shotcrete to exterior formwork surface as final retaining surface

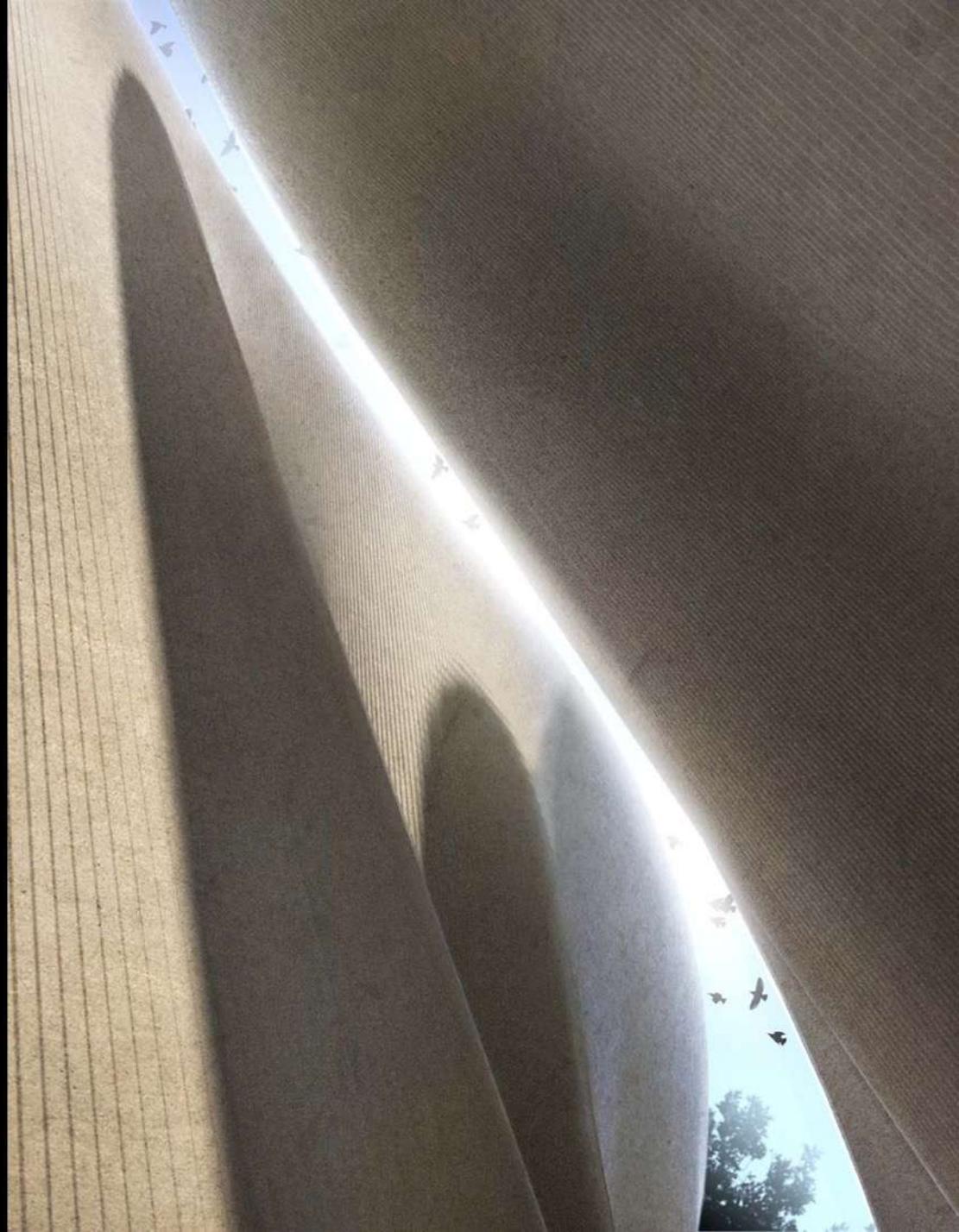


Artificial chasm





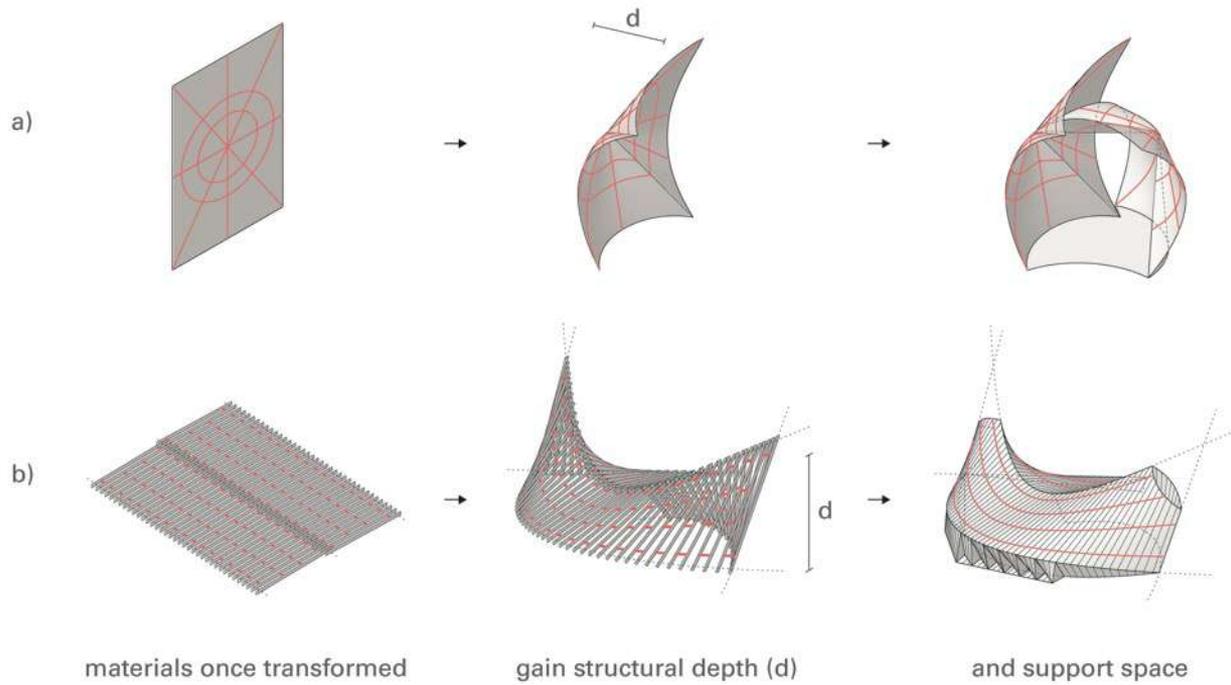




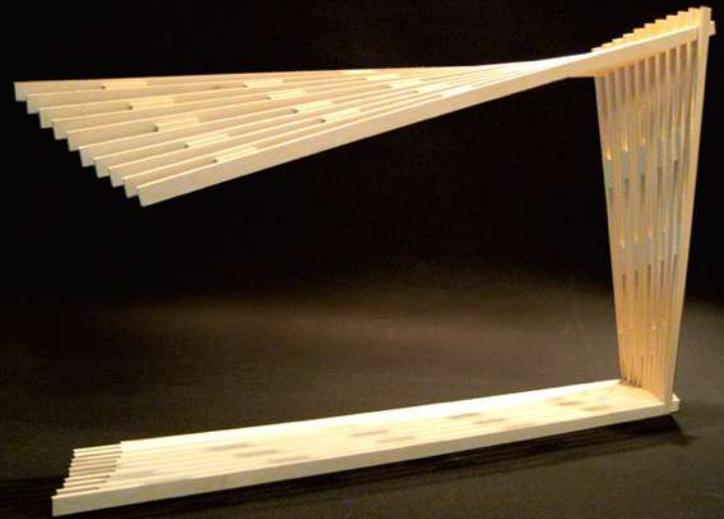
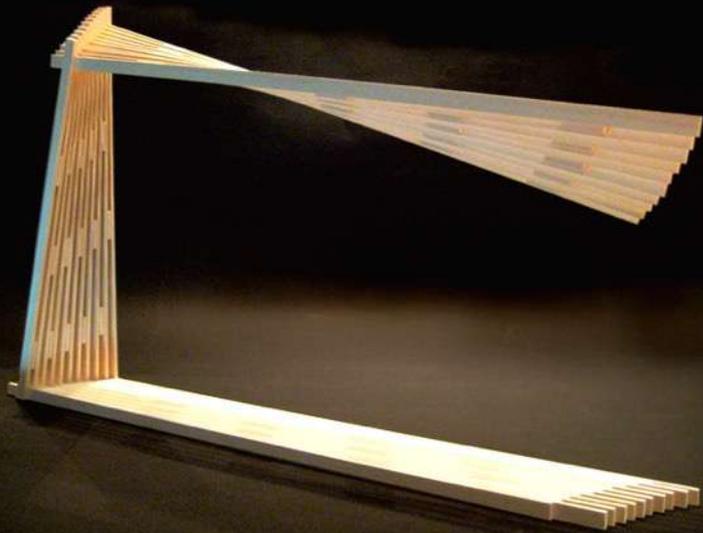
Daegu Gosan Public Library
Daegu, South Korea 2012



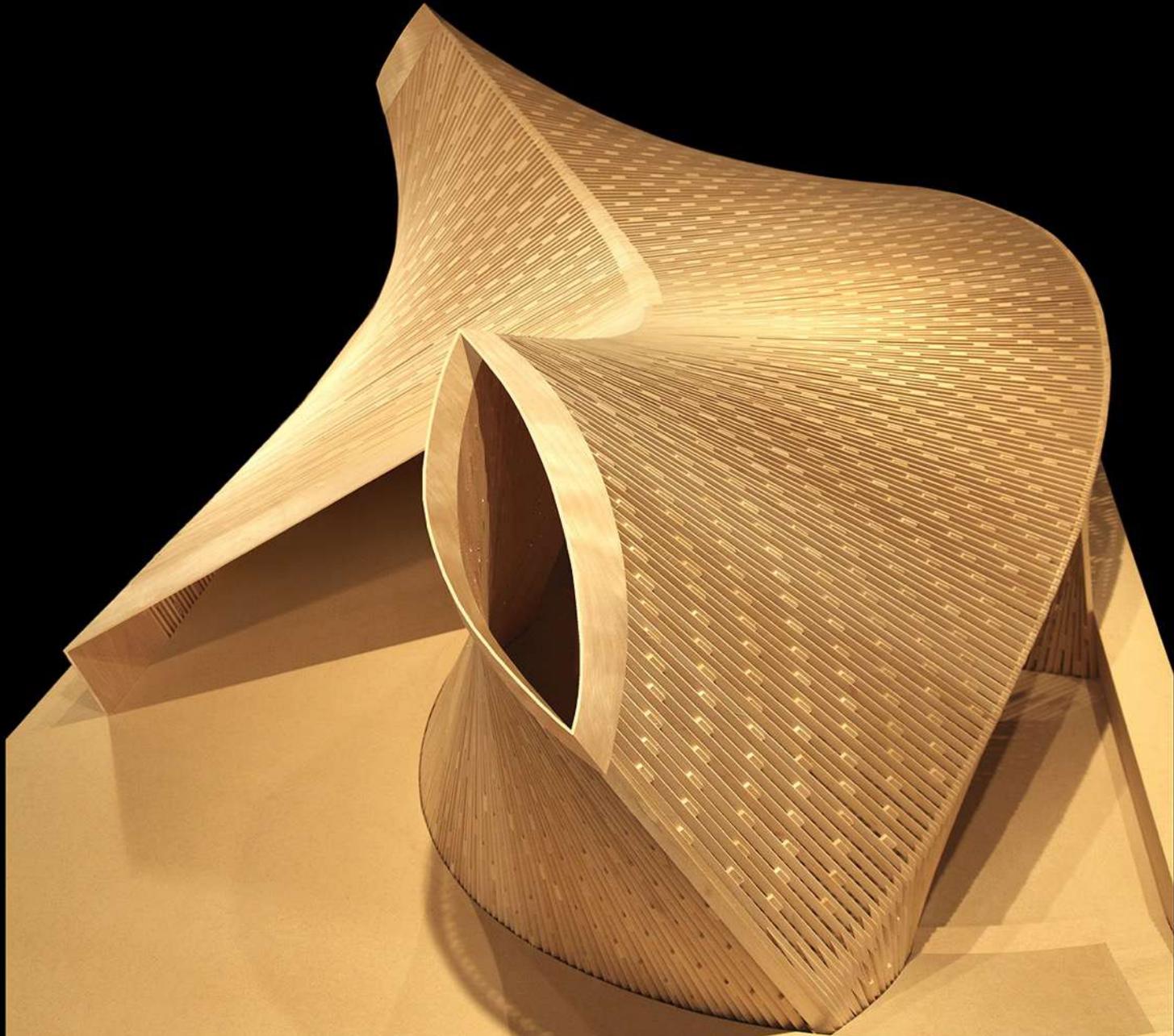
Ruled surfaces as building enclosure



Material + Force = Form

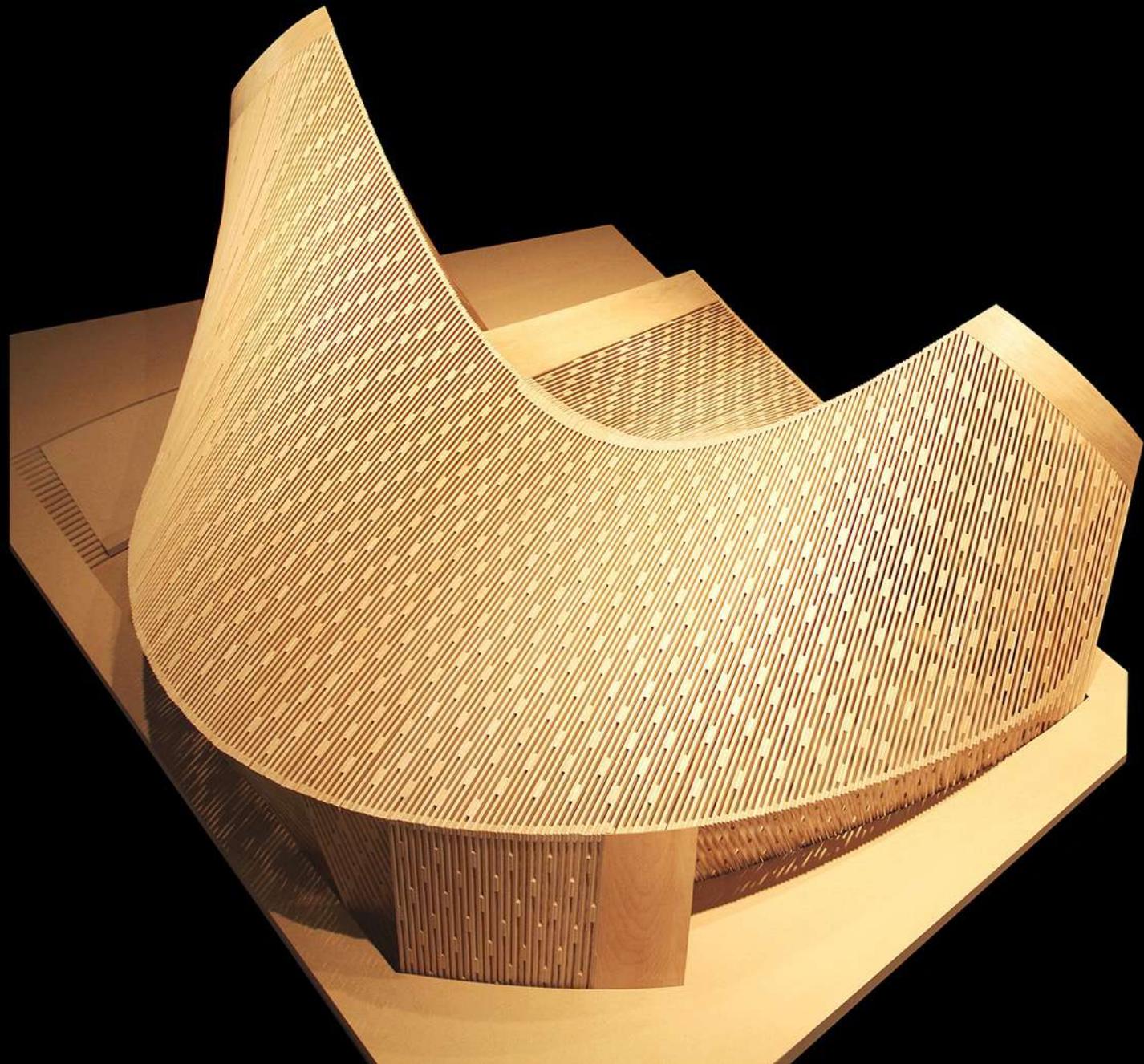


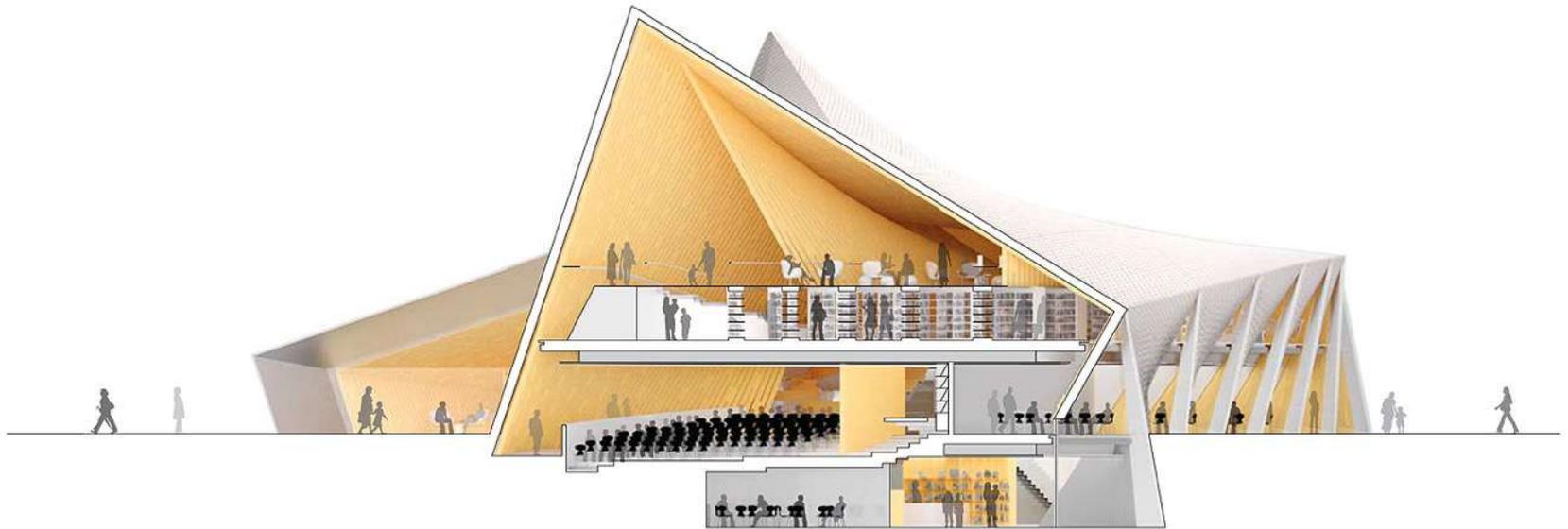
Curvilinear ruled surface from linear elements



Large scale model



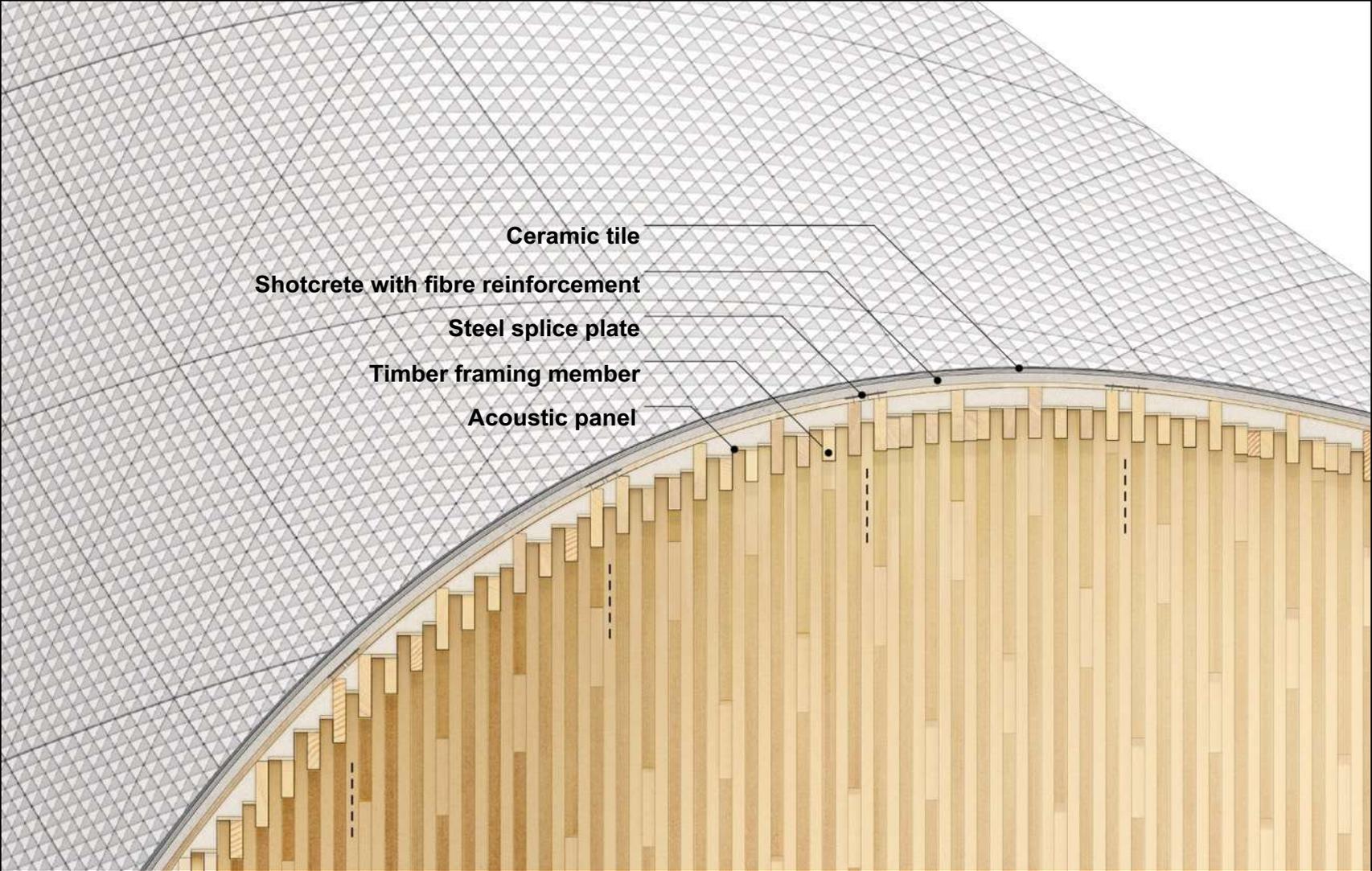




Cross section



Long section



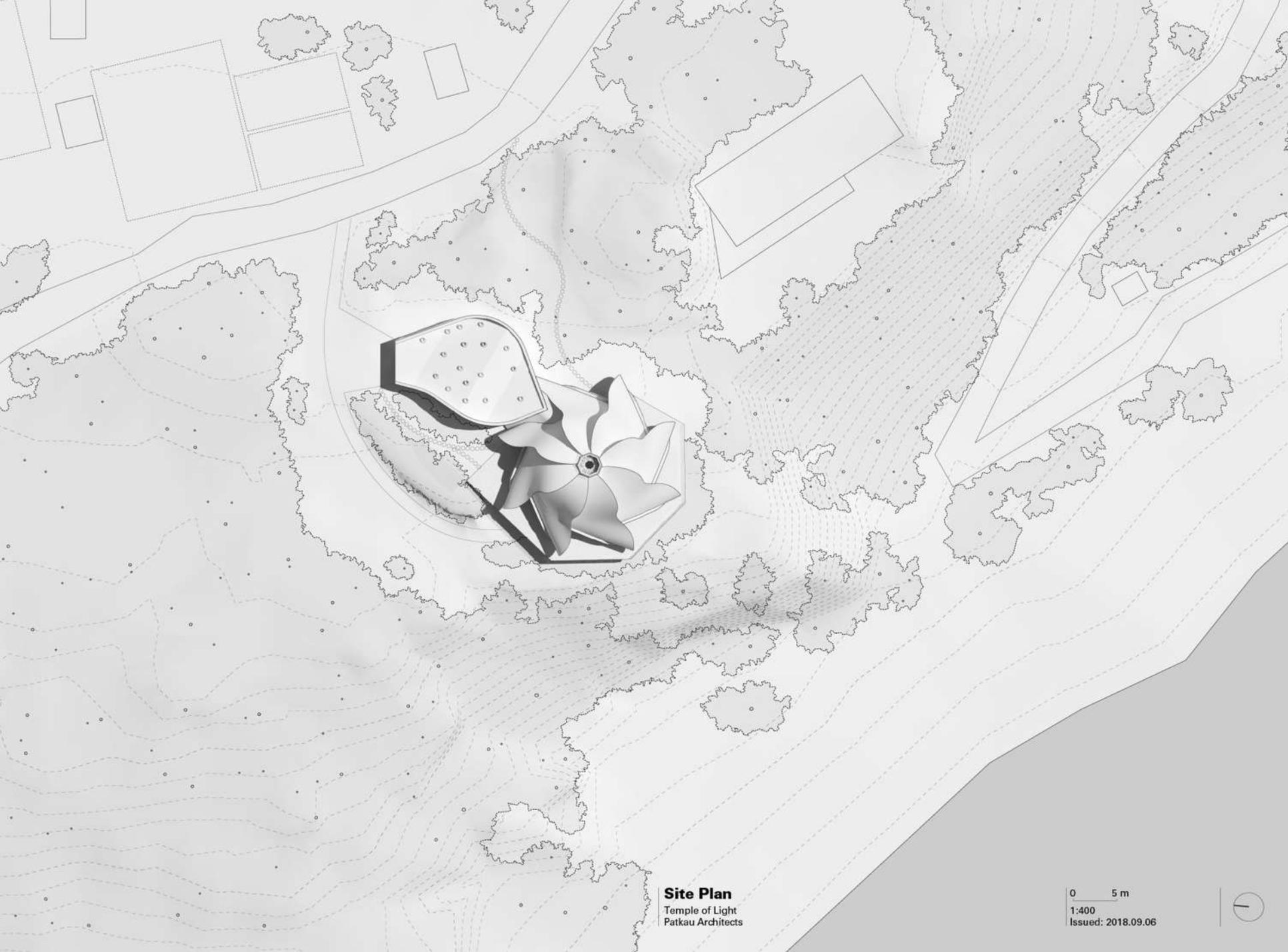


Temple of Light

Kootenay Bay, BC 2015 - 2017



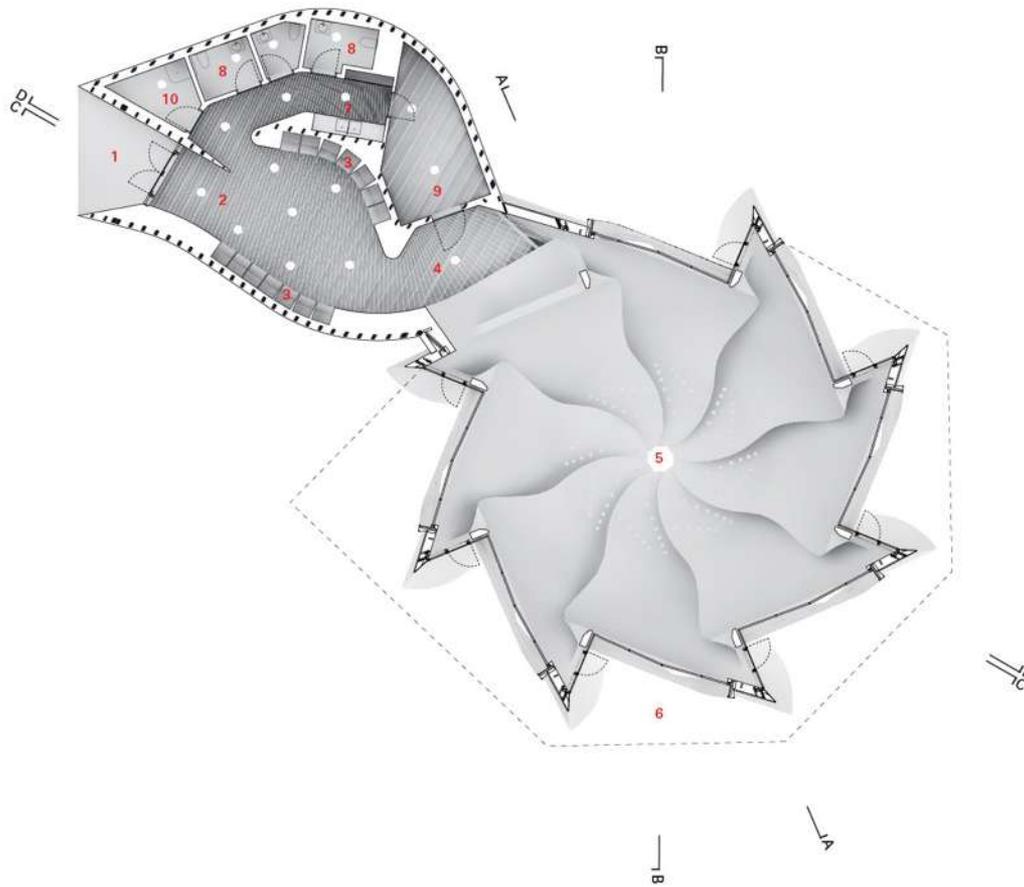




Site Plan
Temple of Light
Patkau Architects

0 5 m
1:400
Issued: 2018.09.06





- | | | | |
|---|---------------------|----|--|
| 1 | Entrance porch | 6 | Exterior Deck |
| 2 | Lobby | 7 | Flower arranging station |
| 3 | Coat + shoe storage | 8 | Washrooms |
| 4 | Transition space | 9 | Seating and musical instrument storage |
| 5 | Worship space | 10 | Janitor room |

Plan with RCP underlay
 Temple of Light
 Patkau Architects

0 2.5 m
 1:200
 Issued: 2018.09.06



Oculus
+ 10350 mm
Interior Temple
+ 9250 mm

Max Auxiliary
+ 5200 mm

Min Auxiliary
+ 3100 mm
Door Height
+ 2150 mm

Main
+ 0 mm

Basement
- 2745 mm



Oculus
+ 10350 mm
Interior Temple
+ 9250 mm

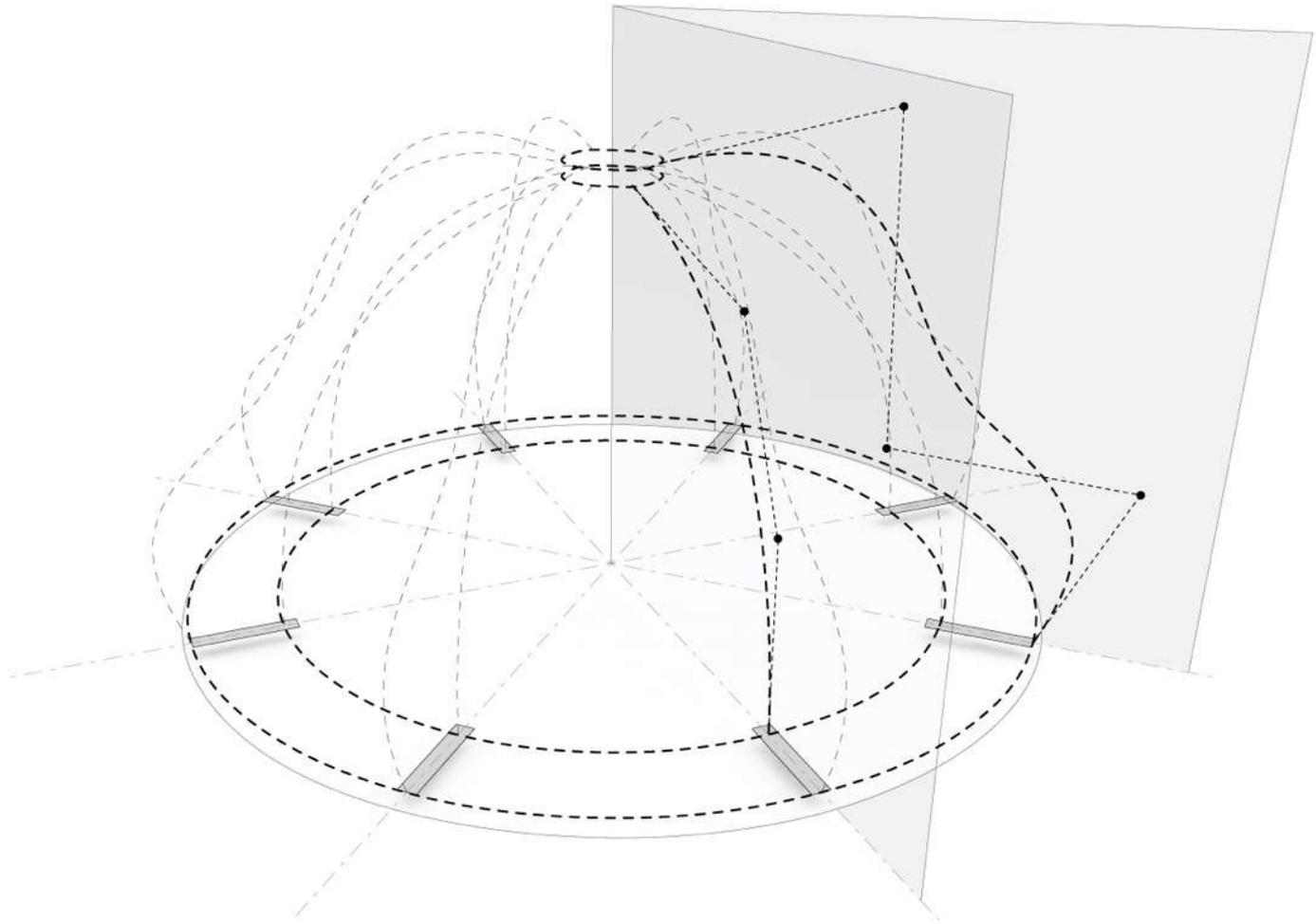
Max Auxiliary
+ 5200 mm

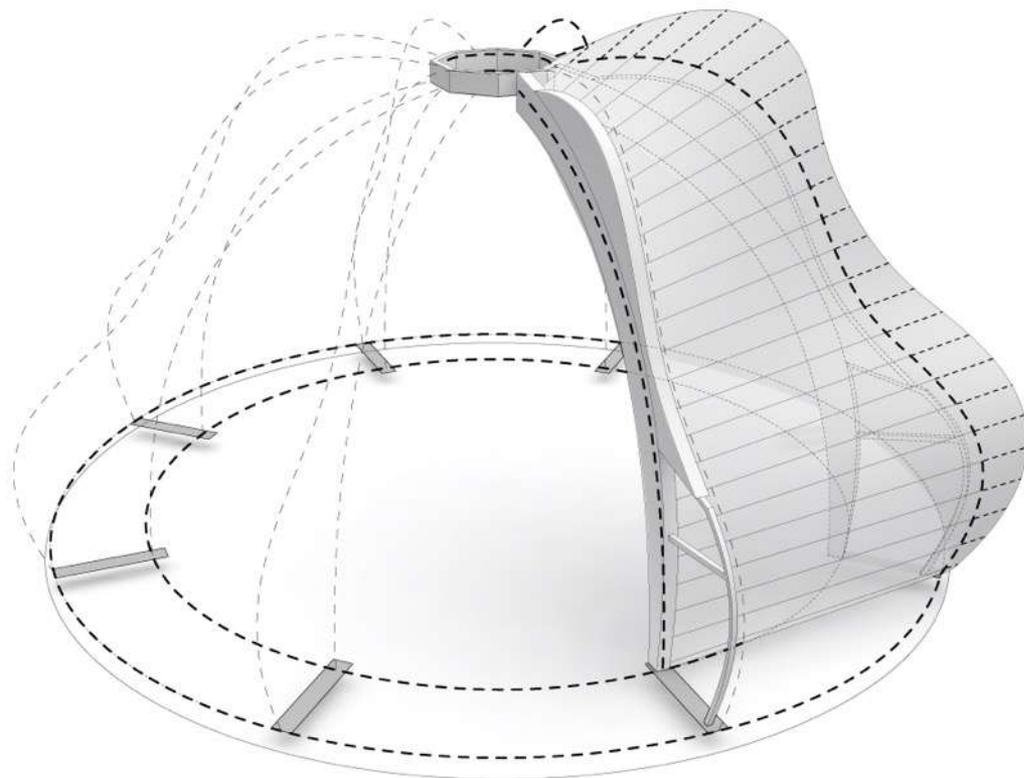
Min Auxiliary
+ 3100 mm
Door Height
+ 2150 mm

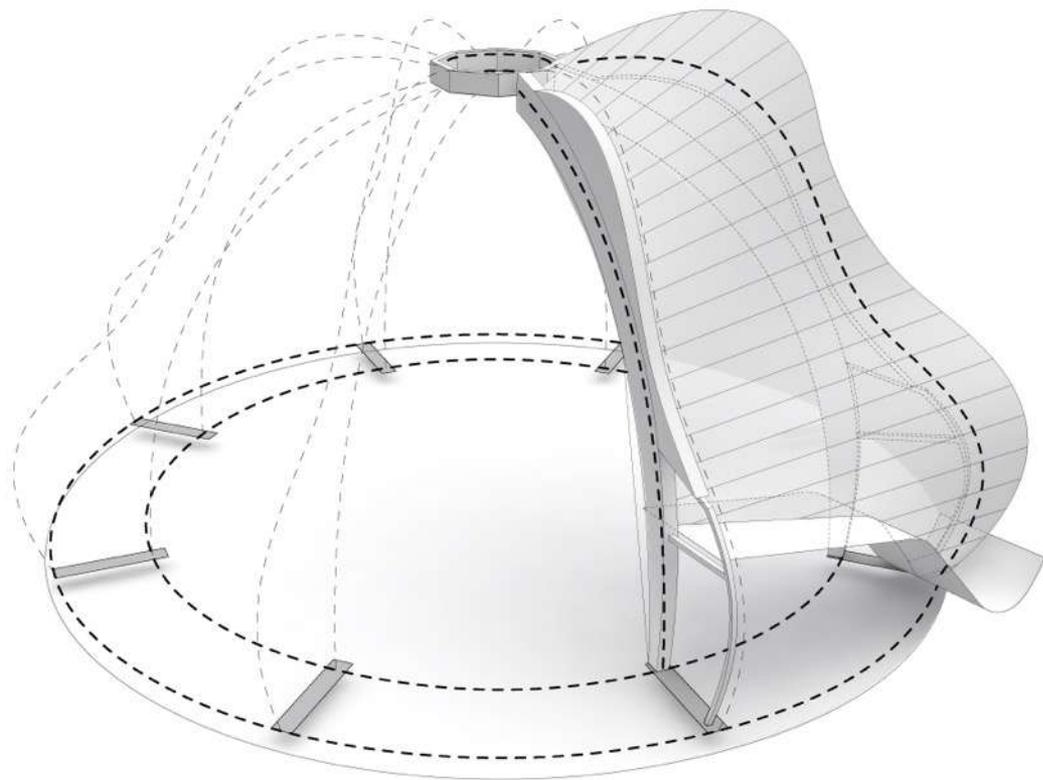
Main
+ 0 mm

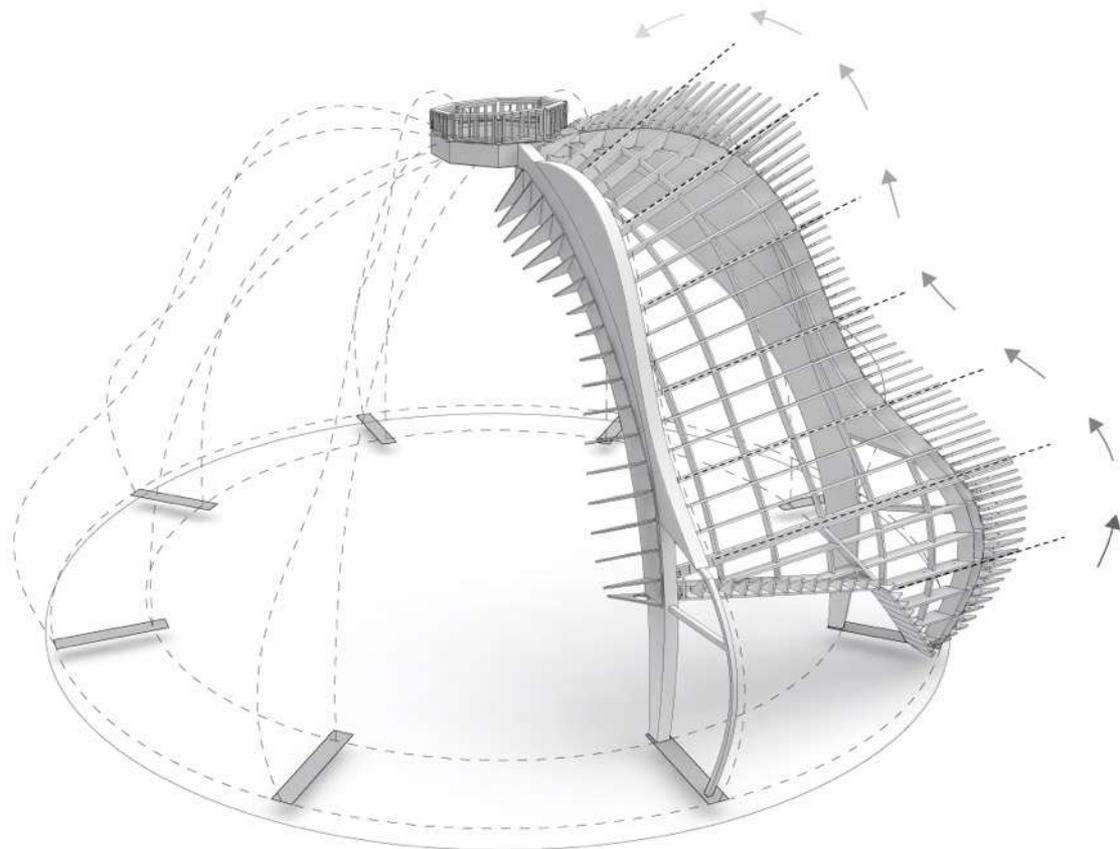
Basement
- 2745 mm

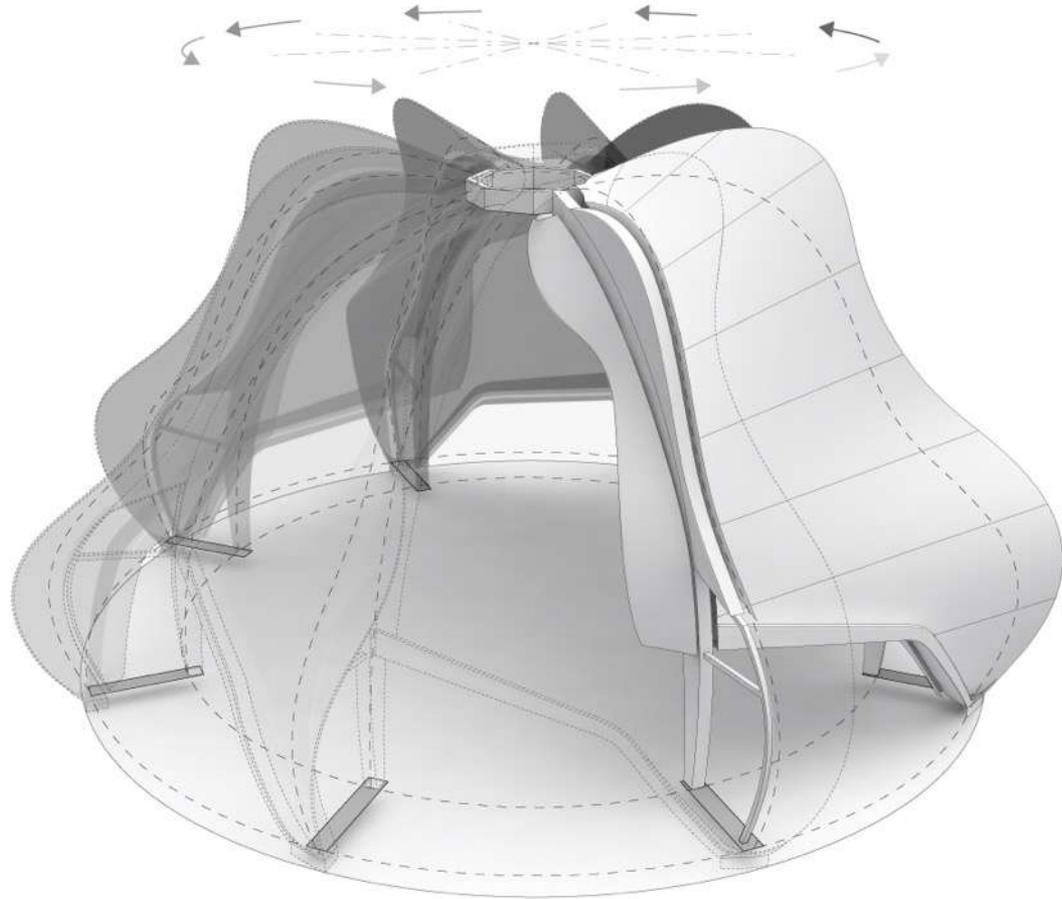


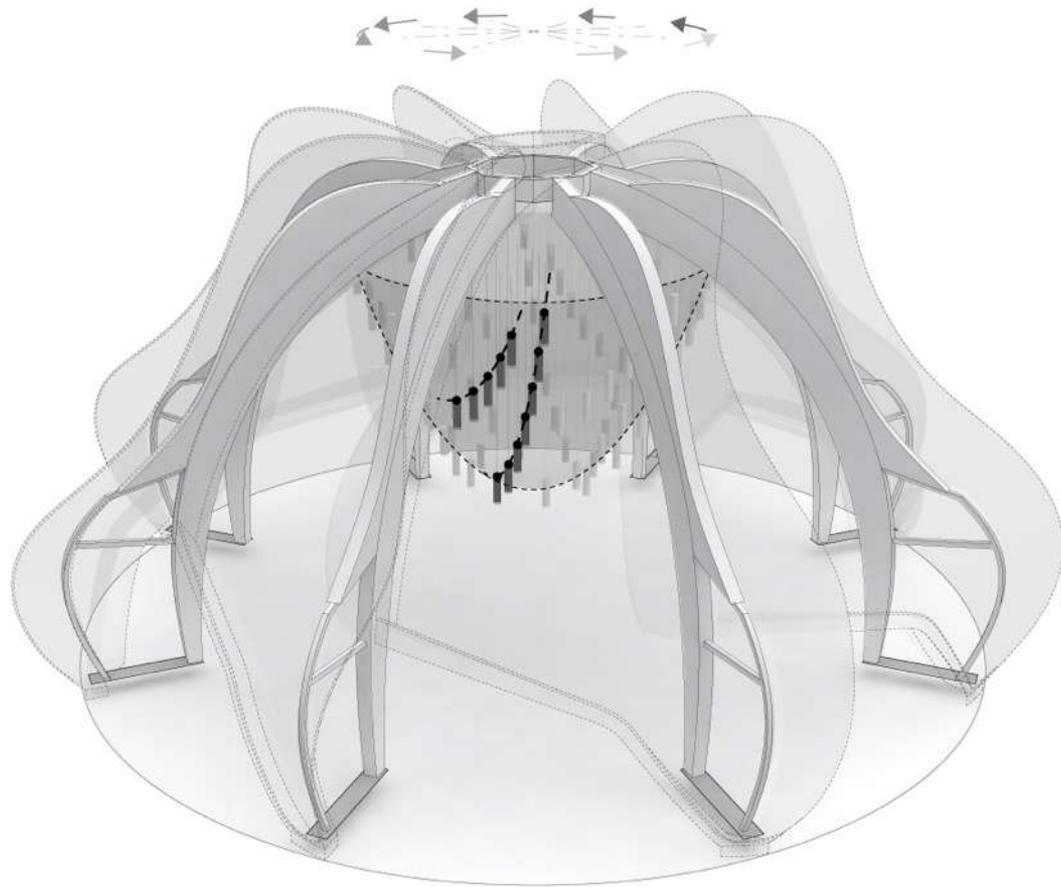


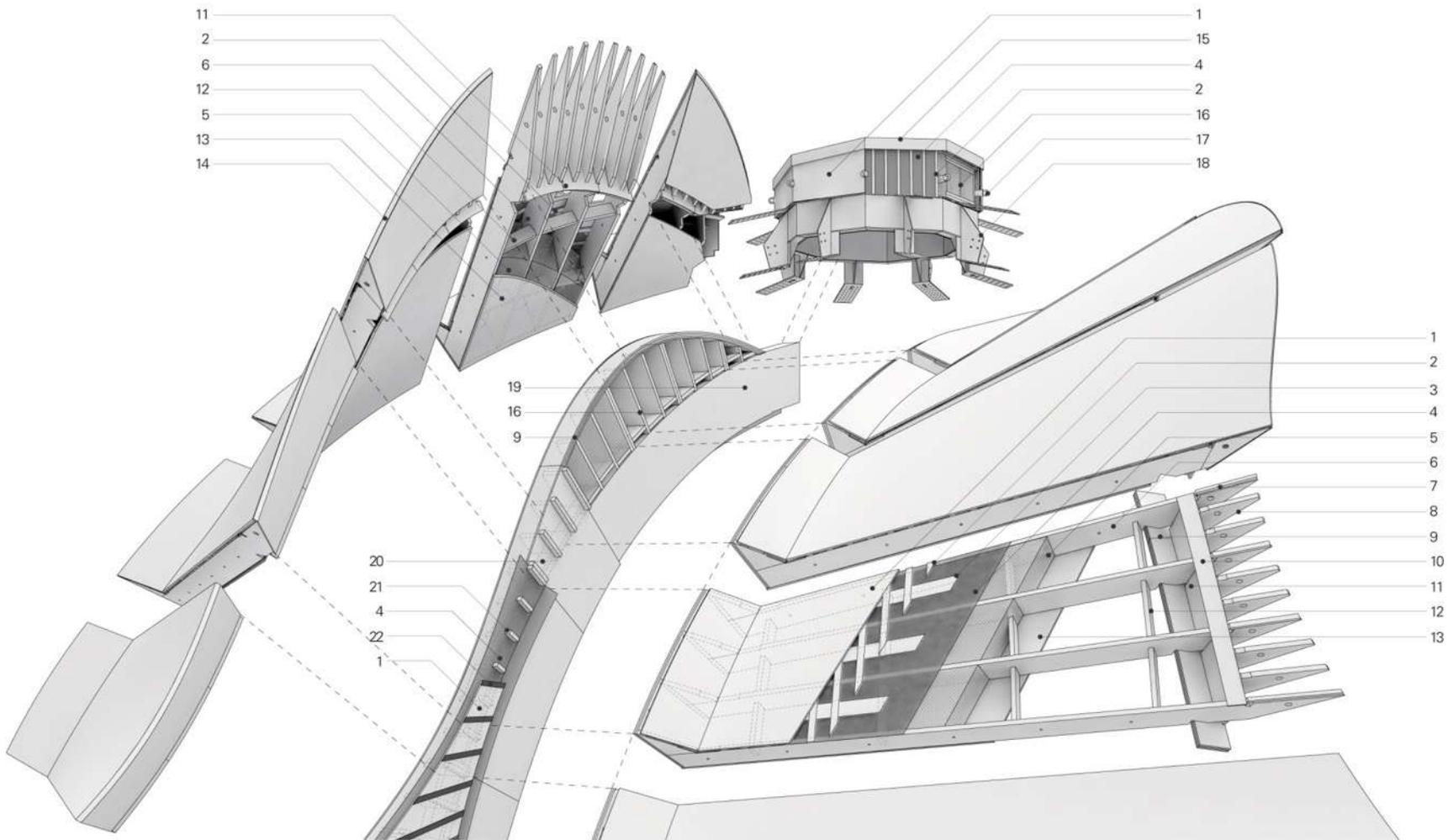




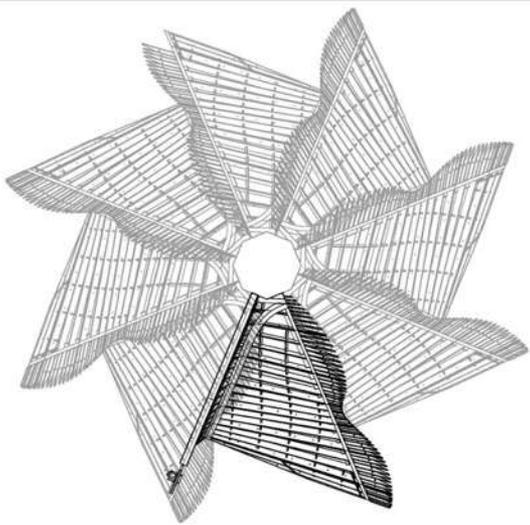




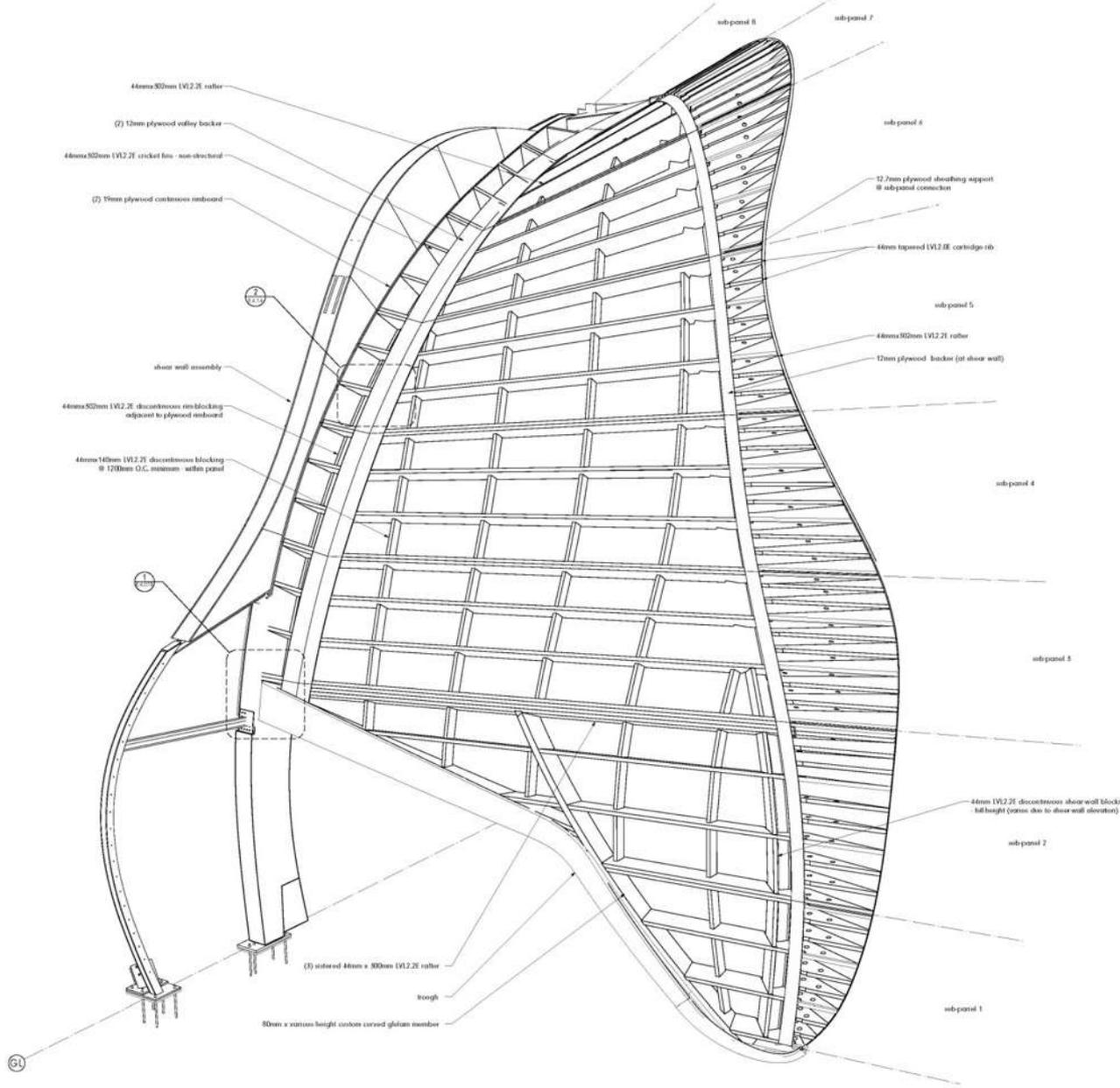




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|--|--|--|--|---|
| <p>1 Liquid polymethyl methacrylate membrane with fleece interlayer on 2 layers of 9mm plywood, borate treated</p> <p>2 19 x 64mm plywood vertical vented cavity strapping, borate treated, 200mm OC</p> <p>3 19 x 150mm drainage mesh for horizontal ventilation</p> <p>4 vapour permeable air barrier membrane</p> <p>5 blown cellulose insulation</p> | <p>6 44x305mm laminated veneer lumber joist. Neighbouring subpanels connected via bolts through adjacent laminated veneer lumber joists</p> <p>7 19mm plywood sheathing supports, borate treated</p> <p>8 44mm laminated veneer lumber tapered cartridge with 50mm diameter ventilation holes, borate treated</p> <p>9 four layer 19mm plywood shearwall head rail</p> | <p>10 19mm plywood membrane backer</p> <p>11 44mm discontinuous laminated veneer lumber shearwall rim blocking / closure</p> <p>12 44 x 152mm discontinuous laminated veneer lumber blocking, 1200mm OC</p> <p>13 vapour barrier paint and two coats of concrete fill on 13mm gypsum board</p> <p>14 9mm plywood chamfer edge cap</p> <p>15 ocular skylight flashing</p> <p>16 dimensional lumber stud framing with batt</p> | <p>17 tie-off anchor</p> <p>18 152 x 457mm hollow steel section compression ring with primary arch connection plates</p> <p>19 265 x 760mm glulam primary arch</p> <p>20 19mm plywood shearwall vented cavity sheathing</p> <p>21 60mm vented cavity strapping, 350mm OC, borate treated</p> | <p>22 Liquid polymethyl methacrylate membrane stripes</p> |
|--|--|--|--|---|



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Run
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