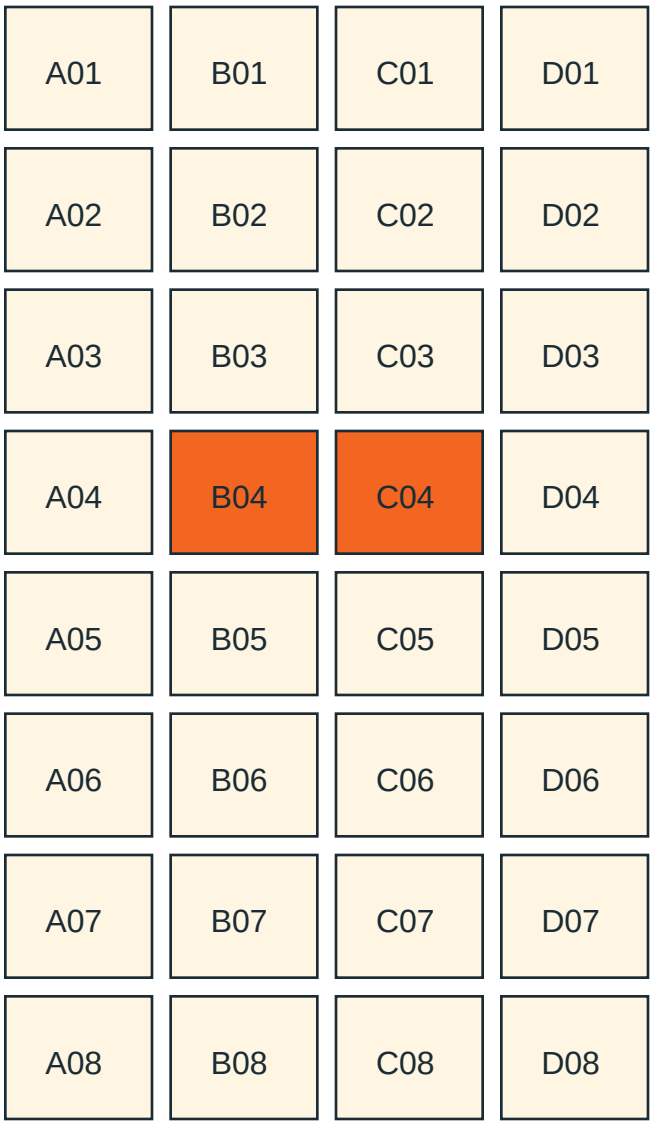
North Shore / Print revision 01

Prototype - physical fit untested

North-up assembly map / columns A-D west to east



32 tiles at 1:2,500
400 x 400 m per tile
160 mm nominal pitch
640 x 1,280 mm assembly
D01 is a water tile.

First join: B04 + C04
B04 is west / left.
C04 is east / right.
North stays at the top.

Tile bodies: 159.7 mm
Nominal seam: 0.30 mm
Hardware extensions:
verify on your assembly.

Scale: 100%. Coordinates: millimetres. Place each underside at Z=0.

Z(mm) = 8 + 0.4 x NAVD88 elevation(m). No vertical exaggeration.

Source terrain and flat roof caps remain unchanged by browser settings.

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Fit tests and first join

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1. Start with the coupons

Print one Fit_coupon_carrier, one Fit_coupon_receiver_D4.3 and two Locator_pin_D4.0_L5p8. Dimensions are nominal, not accepted fit tolerances. D4.2/D4.4 receivers and D3.9/D4.1 pins are alternative fit variants in the hardware package.

2. Record the fit

Check pin insertion, socket engagement, alignment and retention. Note local hole compensation or pin variants. Do not scale an entire terrain tile to change connector fit. Check underside bridges: receiver spans are nominally 4.3 mm; magnet pocket spans are 6.3 mm.

3. Print B04 + C04

Print one of each tile, two Carrier_160mm_pitch_3mm, four nominal pins and one Carrier_alignment_bridge_23p7x8x1p8. The first pair also uses eight nominal 6 x 2 mm magnets and eight nominal 10 x 1 mm steel pads or washers. Confirm thickness and retention before purchasing a full set.

4. Seat the pins and pads

Place the carrier flat. Pins pass through nominal 4.15 mm carrier holes. Seat 5.8 mm pins flush with the underside so 2.8 mm projects above the 3 mm carrier. Secure pins only after the coupon establishes fit. Carrier top pockets are 10.3 mm diameter x 1.05 mm deep; terrain underside pockets are 6.3 mm diameter x 2.2 mm deep.

5. Join in the map orientation

Place B04 left of C04. The terrain round receiver and east-west slot lower onto the locating pins. Magnets retain each tile against steel pads, so there is no opposing magnet polarity pair in this design. Check actual adhesion and retention. The nominal seam is 0.30 mm.

6. Check before expanding

Check seam, leveling, terrain continuity and retention. The 23.7 x 8 x 1.8 mm bridge aligns underside carrier recesses; it does not lock a panel for transport. Use a stiff backing board or verified fastening system for moving loaded panels. Carrier stiffness and handling strength are untested.

Record a physical test

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A profile is still required

Record printer, nozzle, material, slicer and version, layer height, walls, infill, supports, temperatures, orientation and fit variant. Record the required sliced build footprint including brim and support space. This release provides no tested profile, print time, weight estimate or home-printer compatibility claim.

Document your results

Record photographs and measured coupon insertion, alignment, retention, seam width and carrier level. Record failures as well as successes. Complete the first join before expanding. A two-tile test does not establish full-assembly handling strength.

Whole assembly: source design quantities

32 carriers; 64 nominal pins; 128 nominal 6 x 2 mm magnets; 128 nominal 10 x 1 mm steel pads. One bridge at every shared edge uses 52 bridges. Eight four-tile groups P01-P08 are an arrangement, not a transport-strength claim.

Files and checksums

Every tile and hardware file has byte size, SHA-256 and actual mesh bounds in manifest.json. ZIPs contain manifest-files.json for their contents and checksums.sha256. The release manifest records ZIP hashes separately to avoid a self-referential bundle hash. Full-set ZIP contains all 32 tiles; download the hardware ZIP separately.

Source limits

Terrain uses the 2017 NYC/NOAA DEM; building caps use September 2026 NYC OTI records. Some pier and shore heights are nearest-land estimates. Historical sources can differ from current conditions. This model is exploratory and is not a measured survey. Detailed browser roofs and redevelopment inserts are not included.

Attribution and terms

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