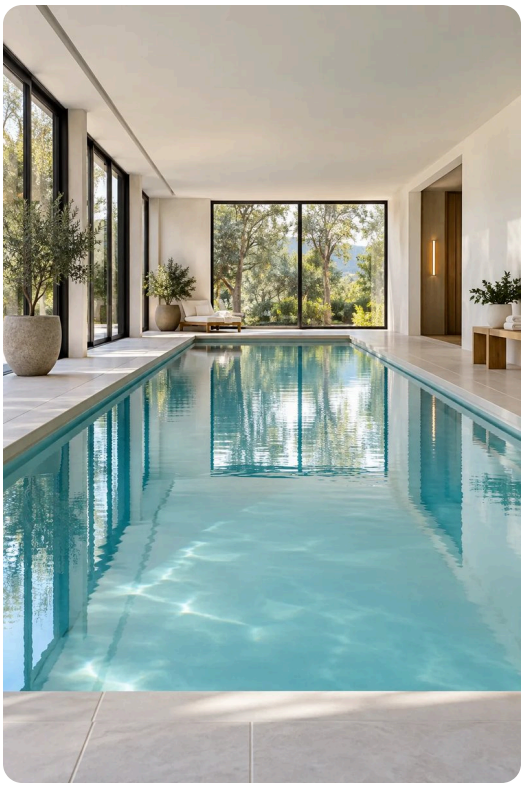
Space & Ventilation Planning Sheet

Balance your footprint and climate control for a perfect indoor pool.

Planning a small indoor pool requires precise climate control and moisture management. Use this sheet to calculate ventilation needs, specify barriers, and design a safe oasis.



Key Planning Specs

6-mil
Virgin polyethylene hidden vapor barrier

4-6 in
Slotted perimeter vent from glass base

14x14 in
Cover vault for under-coping track

Up to 50%
Evaporation drop with liquid vapor barrier

0.42+
DCOF rating for non-slip porcelain

8x10 ft
Minimum dedicated equipment room footprint

1/4 in
Deck slope per foot to drain

Overlap & Seal All Seams

Overlap hidden vapor barrier seams by at least 6 inches and seal them with specialized acrylic tape to prevent corrosive humidity from entering the wall cavity.

Securing the Envelope

1. **Insulate the Walls** Fill stud bays with closed-cell spray foam to achieve at least R-21.
2. **Apply Vapor Barrier** Install continuous virgin polyethylene behind drywall where painted walls meet ceilings.
3. **Tape Critical Joints** Seal electrical boxes and rough openings using heavy-duty acrylic flashing tapes.
4. **Automate Controls** Mount a smart humidistat centrally to maintain a strict 50 to 55 percent humidity.

Sizing Linear Diffusers

Find your row: **Your glass height**

Your glass height	Your pick	Why
Up to 6 ft	40 CFM / 2 in	Blankets standard windows
6 to 8 ft	55 CFM / 3 in	Reaches taller glass
Over 8 ft	70 CFM / 4 in	Stops high condensation

Space & Climate Checks

- ○ Calculate total water surface area to determine baseline evaporation.
- ○ Check target room air temperature is 2 degrees above water.
- ○ Map out all supply and return duct locations on floor plan.
- ○ Size the dedicated dehumidifier for peak summer humidity loads.
- ○ Locate the equipment room against an exterior wall for fresh air.

Deck & Finish Specifications

- ☐ Specify moisture-resistant fiberglass-mat gypsum board.
- ☐ Finish walls with high-gloss exterior-grade acrylic latex paint.
- ☐ Install triple-pane insulated glazing with warm-edge spacers.
- ☐ Select 100-percent solids epoxy grout for deck tiles.
- ☐ Route main supply trunk line through the floor joists.

Notes & Measurements

Enjoy designing your beautiful, perfectly balanced indoor oasis!