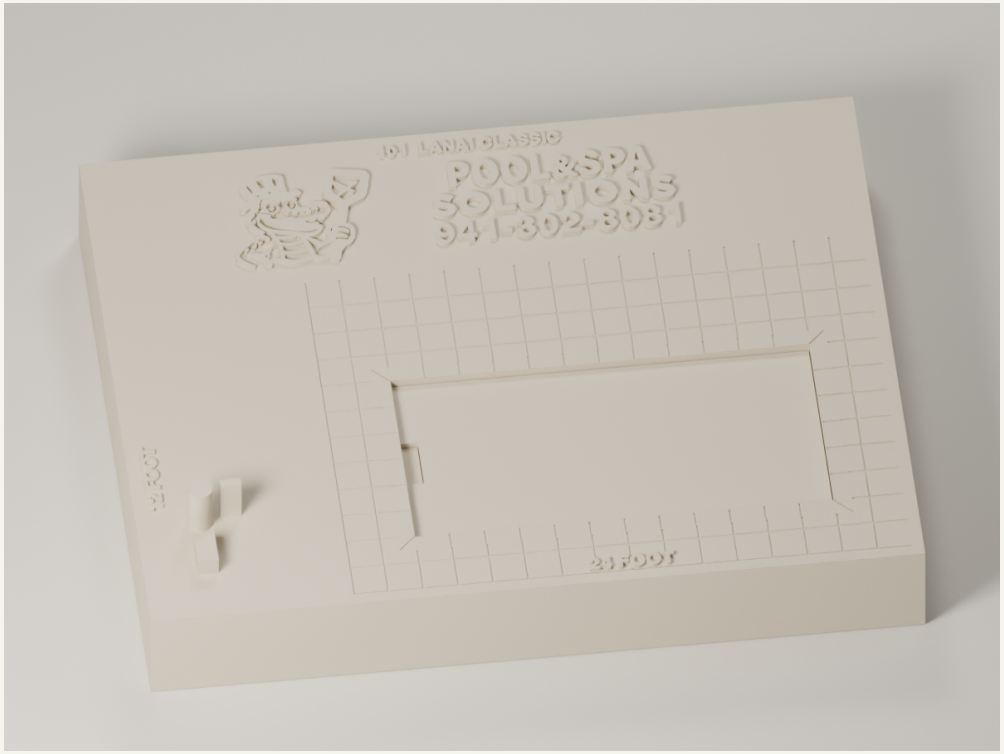
The dimensions behind the design.

All 20 GLBs use meters and retain the reviewed waterlines, depths, entry flights, paving and material layers. Overall labels describe the waterline extents; curved wall lengths differ. These are measured residential concepts requiring property-specific engineering and approval.

LAYER	FULL SIZE	1:5 SAMPLE
Concrete shell	6 in	30.480 mm
Interior finish	3/8 in	1.905 mm
Concrete paving / coping	60 mm	12.000 mm
Travertine paving	30 mm	6.000 mm
Travertine coping	2 in / 50.8 mm	10.160 mm
Porcelain paving / coping	20 mm	4.000 mm
Pedestrian bedding	1 in	5.080 mm
Aggregate base	4 in	20.320 mm
Stone / concrete cap mortar	1/2 in	2.540 mm
Porcelain cap adhesive	1/4 in	1.270 mm
Illustrative coping support	12 in depth	60.960 mm

Paving and coping thicknesses follow the manufacturer examples on page 4. The selected design uses its named material. Shell, support, finish and setting layers are provisional engineering/installation assumptions. A modeled support depth is not a structural design or code minimum.

Made to hold. Made to remember.



EVERY DESIGN INCLUDES

1:100 STL parts in millimeters

Numbered 3MF print plates

An assembly reference

Removable pool and spa water

Raised company, phone and gator

Overall FOOT dimension labels

Open the numbered plates without automatic scaling. Default: 220 x 220 mm bed, 0.4 mm nozzle, 0.16 mm layers. Print the base flat. Water plates are already face down, with feet up. Use one color or a reviewed filament change; taller features may share the change layers.

The waterline and exposed levels retain 1:100 scale. Backing, enlarged tiny details, shallow surface joints, water clearance and a separate PVC routing card are documented adaptations. Mesh integrity and assembly fit are checked. Printer-specific slicing and a physical test print remain required.

A clear route to construction.

Verified in the measured collection

Waterline and floor dimensions, material layers, entry rise/run, fixture placement, net paving, equipment support, nominal barrier gaps and printable mesh integrity.

Required for the selected property

Current survey, setbacks, flood and coastal constraints, soil and groundwater review, structural shell/reinforcement and enclosure engineering, and drainage design.

Required for the selected system

Listed covers and sumps with approved flows; pipe sizes, fittings and total dynamic head; pump/filter/heater selection; bonding and electrical design; barrier/gate operation and applicable adopted pool/spa standards.

Release and installation

Obtain the engineer and permitting authority approvals, then complete field inspections and required tests. No concept, marketing render or print mesh is a permit approval. Raised branding is a display overlay, not a real walking-surface or pool-floor feature.

Real dimensions. Clear assumptions.

Concrete / 60 mm

Belgard Dimensions paving and Tremron Regular Bullnose BN02020 coping. Model dimensions use exact metric thickness; inch descriptions on sales sheets are rounded.

https://www.belgard.com/products/pavers/dimensions/

https://www.tremron.com/pavers/bullnose-coping

Travertine / 30 mm paving + 2 in coping

MSI Silver Travertine 3 cm paving and 12 x 24 x 2 in bullnose coping are the thickness benchmarks. Color, finish and regional stock remain selections.

https://www.msisurfaces.com/pool-copings/silver-travertine/

Porcelain / 20 mm

Belgard Quarziti paving and Unico 2.0 coping supply the measured thickness basis. These are supported units; an unsupported cantilever is not assumed.

https://www.belgard.com/product/quarziti-2-0/

https://www.belgard.com/products/porcelain-pavers/unico

A provisional sand-set pedestrian deck uses 1 in bedding over 4 in compacted aggregate. Coping is supported by a modeled structural seat and setting bed; raised spa approaches use structural cores with finish caps. Final product installation, joint/edge restraints, drainage, substrate, reinforcing, movement joints and loads require professional approval. Manufacturer references checked September 7, 2026.