



SHAPE. RESPOND. FABRICATE.

VORMA PRO USER GUIDE

A practical guide to designing, updating, editing and exporting VORMA systems inside Autodesk Revit.

21	26	4	1.28.7
RIBBON COMMANDS	PATTERN FAMILIES	DESIGN STUDIOS	GUIDE VERSION

Revit 2024-2027 / Windows / Updated September 2026

support@vorma.me / vorma.me/help

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Use the guide in the order your project needs.

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06 Drivers and parameter reference

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08 Troubleshooting, compatibility and support

ONLINE HELP CENTER

vorma.me/help

01 / QUICK START

From installation to a checked result.

-
- 01** Install and restart Revit
Run the official VORMA installer for your Revit version, close Revit during installation, then reopen it. The VORMA PRO panel appears on the Add-Ins ribbon.
-
- 02** Open License Center
Start the three-day trial with all tools except Parametric and Responsive or paste a paid Creem license key. License Center remains available even when protected commands are locked.
-
- 03** Choose a creation workflow
Use Generate Pattern for Geometry, Landscape or Responsive systems. Use the Parametric menu for wall slats, perimeter slats or ceiling baffles.
-
- 04** Pick a host and preview
Pick the required Revit face, set the controls, then inspect the 2D field and orbitable 3D response before generating model geometry.
-
- 05** Edit through VORMA
Use Edit, Update, boundary tools and material tools on a surviving VORMA element. Stable module identities preserve supported local edits when the host changes.
-
- 06** Verify before fabrication
Export DXF, SVG and CSV only after checking geometry in Revit. Confirm scale, contours, materials, quantities, kerf, stock breaks and joints with the fabricator.
-

01A / CORE CONCEPTS

Six ideas behind every VORMA workflow.

Generation	Every VORMA system has a Generation ID. Select one surviving member to edit, update, remove or export the complete generation.
Host	The picked Revit face defines the system coordinate frame and boundary. Keep the host available if you want associative updates.
Stable identity	VORMA tracks modules by deterministic keys rather than temporary selection order. Matching keys allow supported edits to survive regeneration.
Explicit update	Geometry, Landscape and most Responsive systems use Update From Host. Parametric systems can also use a license-gated automatic updater after Revit commits a source edit.
Individual vs batched	Individual elements can be selected, moved, painted or deleted separately. Batched output is lighter for large fields and can be converted with Make Editable.
Design geometry	VORMA produces architectural design and coordination geometry. It does not design structure, fixings, fire performance, waterproofing, acoustics or machine tooling.

02 / DESIGN STUDIOS

Four connected workflows inside one Revit model.

Geometry Studio

Create solid modules or perforated screens on a picked face using regular, random, gradient, cellular and wave-based pattern families.

OUTPUTS**Solid Modules / Perforated Screen**

- Columns and rows
- Gap ratio
- Depth and surface offset
- Density and jitter
- Phase, wave and seed
- Individual editing and material

Landscape Studio

Generate paving on suitable floor, terrain or horizontal faces, with optional tree-driven clearance, warping or cellular transitions.

OUTPUTS**Landscape DirectShapes / Native Revit Floors on compatible flat hosts**

- Six landscape pattern families
- Tree family selection
- Clearance and influence radius
- Warp strength or ring count
- Depth, offset and material
- Editable boundaries

Responsive Geometry Studio

Drive scale, rotation, depth and offset from a movable point, a line, a picked Model Curve or the active Revit Sun Path.

OUTPUTS	Void Openings / Solid Modules / Panel Frames / Family Modules
• Point, line, curve or Sun driver • Seven profile shapes plus custom profile • Profile morphing • Linear, Smooth or Sharp response • Near/far inversion • 2D field and 3D response preview	

Parametric Slats and Baffles

Create depth-responsive wall slats, closed-perimeter slat systems and ceiling baffles from sine waves or selected Revit Model Curves.

OUTPUTS	Individual Generic Model DirectShape ribs / Dedicated flat DXF and parts CSV for supported systems
• Vertical, horizontal or legacy custom-angle layout • Thickness, pitch, depth and amplitude • Sine or picked-curve driver • Door and Window cuts • Slat rotation and materials • 2D layout and orbitable 3D preview	

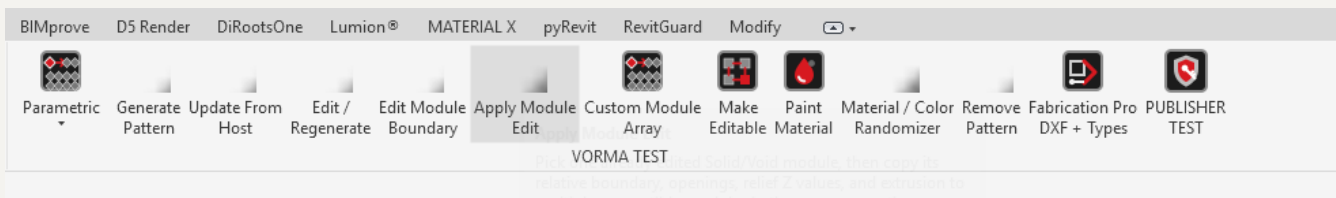
03 / VISUAL INTERFACE TOUR

Read the ribbon and the main design windows before starting a project.

CAPTURE VERSION

Reference screenshots were recorded from the v1.23.4 publisher build. Current commercial builds use License Center and updated dialogs, include Convert Panels, and no longer show the old slat boundary-edit menu entry. Follow the command descriptions for v1.28.7.

The VORMA PRO ribbon

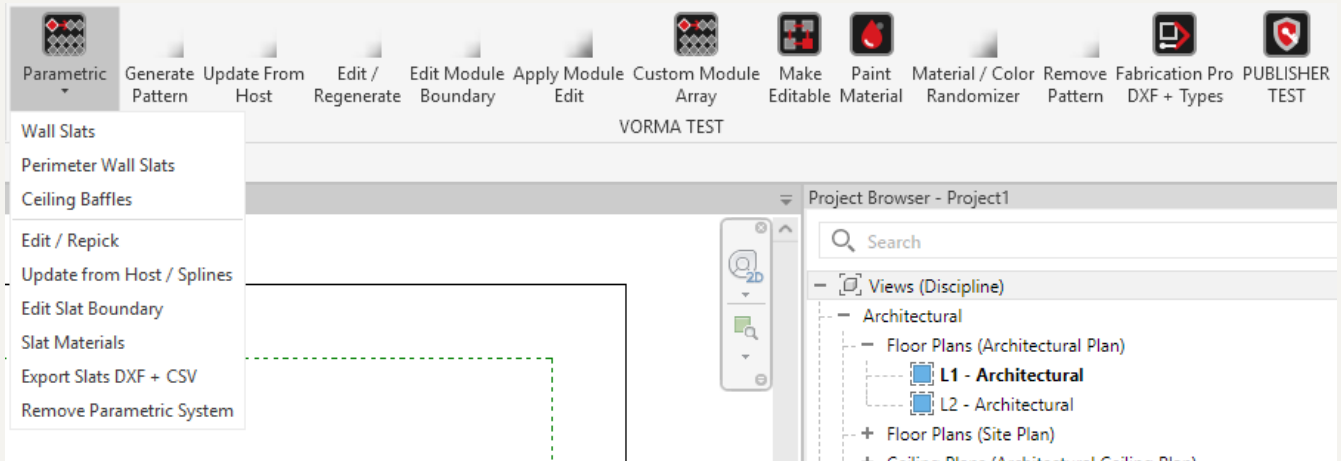


The ribbon is organised from creation and associative update, through local editing and materials, to removal, fabrication output and licensing.

01	Parametric Open wall slats, perimeter wall slats, ceiling baffles and their dedicated edit, material, export and removal tools.	02	Generate Pattern Open Geometry, Landscape or Responsive Studio and create a new tracked system on a picked Revit face.
03	Update From Host Rebuild a generation after the host, responsive source, selected Model Curves or landscape attractors change.	04	Edit / Regenerate Reopen saved settings, revise the design and regenerate while preserving compatible local edits.
05	Edit Module Boundary Change one editable module's 2D outline and, for solid output, its local relief and extrusion.	06	Apply Module Edit Transfer a compatible edited module boundary, openings and relief to selected targets in the same generation.
07	Custom Module Array Repeat existing Revit geometry across a selected surface as independent tracked copies.	08	Make Editable Convert optimized batched output into separately selectable modules or landscape tiles.
09	Paint Material Apply a Revit material to selected modules while storing the override for compatible updates.	10	Material / Color Randomizer Distribute selected materials or seeded colors across a generation.
11	Remove Pattern Delete the complete tracked generation and its saved VORMA metadata.	12	Fabrication Pro DXF + Types Export compatible geometry, type schedules and production reference data for downstream checking.
13	License Center Start a trial, activate or refresh a paid key, deactivate this computer and copy its support ID. This replaces PUBLISHER TEST in v1.23.5.		

03B / PARAMETRIC MENU

Wall slats, perimeter slats and ceiling baffles

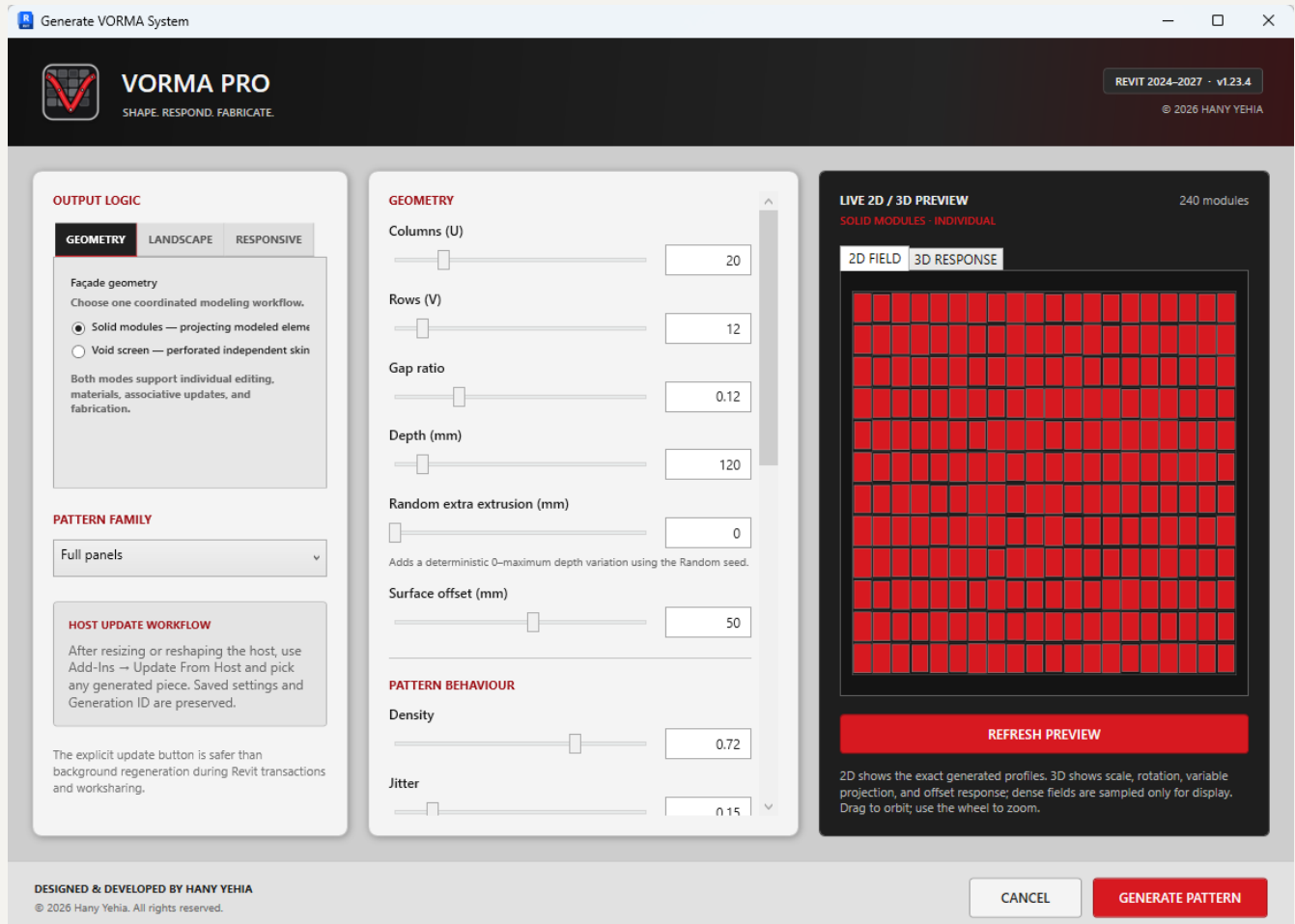


Use the top three commands to create a system. The remaining commands operate on a selected surviving slat or baffle from an existing generation.

01	Wall Slats Create a planar wall-slats system on one selected host face.	02	Perimeter Wall Slats Create continuous slats around a closed wall perimeter, including supported curved fillets.
03	Ceiling Baffles Generate hanging baffles from a ceiling or suitable overhead face.	04	Edit / Repick Reopen a parametric system and optionally replace its host or source selections.
05	Update from Host / Splines Rebuild from the current host, built-in wave or selected Model Curves.	06	Slat Materials Assign or revise materials for the tracked slats or baffles.
07	Export Slats DXF + CSV Write supported flat profiles and a parts schedule for fabrication review.	08	Remove Parametric System Delete the complete wall-slats, perimeter-slats or baffle system.

03C / INTERFACE SCREEN

Geometry Studio - regular modules and perforated screens

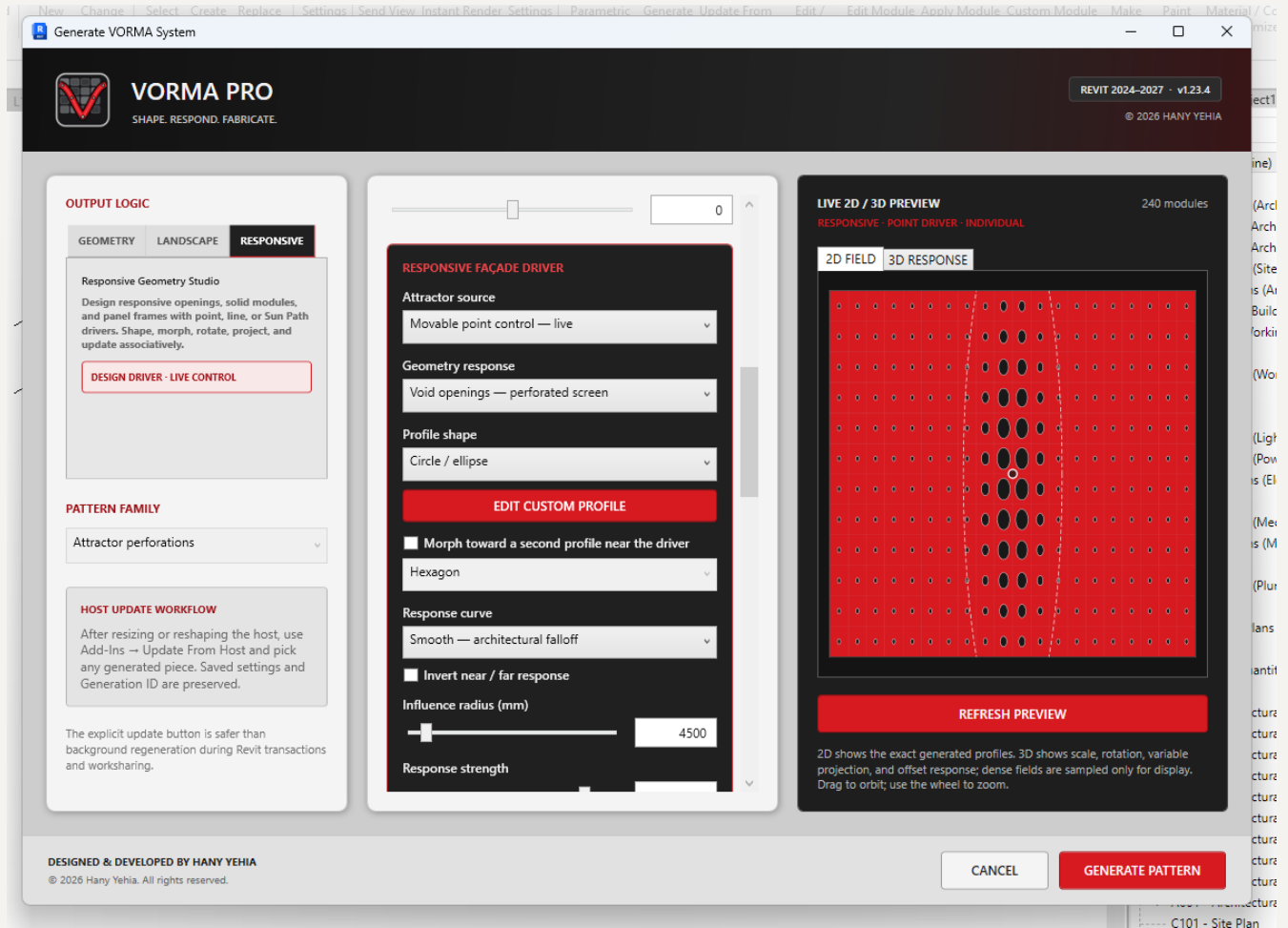


The Geometry tab coordinates output mode, grid density, depth, offset and pattern behaviour before any Revit geometry is committed.

Left - Output Logic	Choose Solid modules or a perforated Void screen, then select a pattern family. The host-update reminder explains how the generation remains linked.
Center - Controls	Set Columns (U), Rows (V), gap, depth, random extrusion, surface offset, density, jitter and the selected family's advanced controls.
Right - Live Preview	Use 2D Field to inspect exact profile placement and 3D Response to inspect scale, rotation, depth and offset. Refresh before Generate Pattern.

03D / INTERFACE SCREEN

Responsive Studio - point, line, curve and Sun-driven response

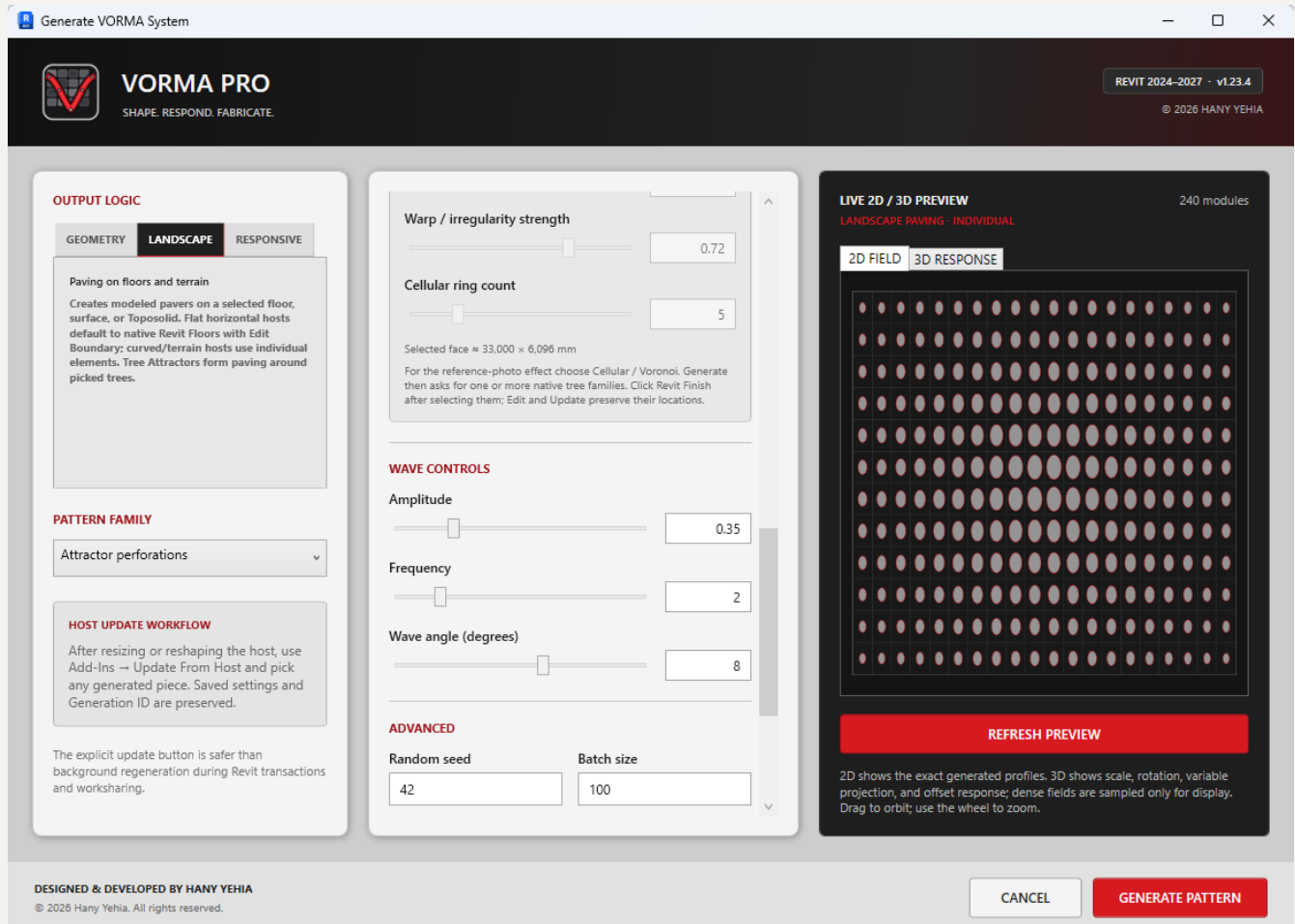


Responsive Studio turns a selected driver into a readable field that can control openings, solid modules, frames or Revit family modules.

Left - Output and Family	Select Responsive output, choose a pattern family and confirm that updates will use the saved host and driver identity.
Center - Driver Logic	Choose the attractor source, geometry response, profile, optional morph target, response curve, inversion, influence radius and strength.
Right - Field Check	The dashed influence boundary and opening sizes reveal the falloff around the driver. Compare 2D Field and 3D Response before generating.

03E / INTERFACE SCREEN

Landscape Studio - paving, terrain and attractor control

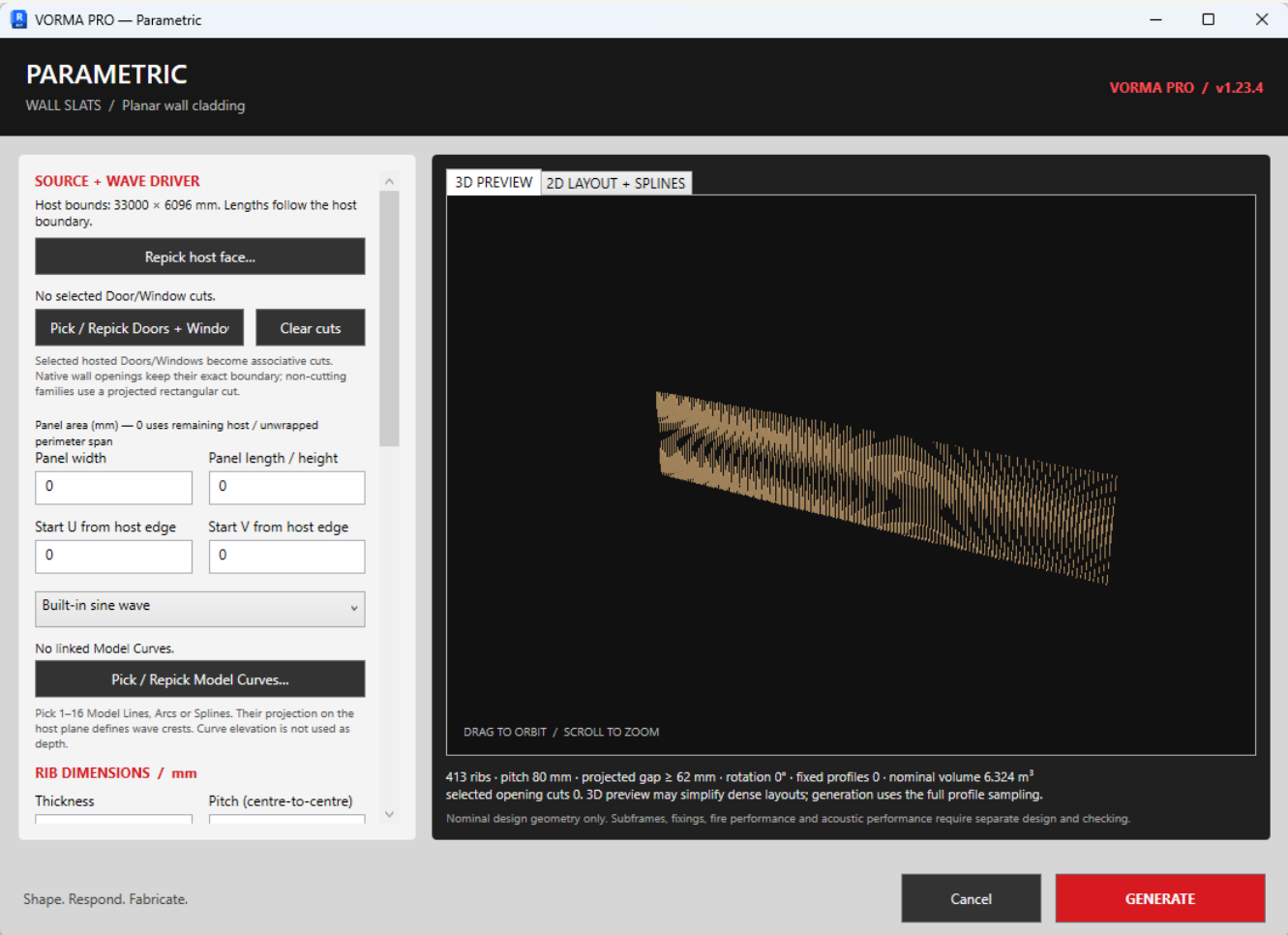


Landscape Studio uses the same three-zone workflow while adapting its controls to horizontal hosts, paving patterns and tree-aware clearances.

Left - Landscape Mode	Choose Landscape output and a paving family. Compatible flat hosts can produce native Revit Floors; other cases use tracked landscape geometry.
Center - Pattern Behaviour	Set warp or irregularity, cellular rings, wave amplitude, frequency, angle, random seed and batch size. Tree attractors add local clearances where selected.
Right - Density Preview	Review the paving field, local scale changes and attractor response before committing. Dense previews may be sampled for speed, while generation uses the full field.

03F / INTERFACE SCREEN

Parametric Wall Slats - host, openings, wave and rib controls



The dedicated Parametric window exposes host-aware rib generation, associative Door and Window cuts and an orbitable preview for façade coordination.

Left - Source and Driver	Repick the host face, select hosted Doors and Windows to cut, define panel extents and choose a built-in sine wave or up to 16 Revit Model Curves.
Left - Rib Dimensions	Continue down the panel to set thickness, pitch, depth, amplitude, rotation, layout direction, material and other system parameters in millimetres.
Right - 3D and 2D Check	Orbit the 3D result or inspect 2D Layout + Splines. Read rib count, pitch, projected gap, rotation, selected cuts and nominal volume before Generate.

04 / COMMAND REFERENCE

Every VORMA ribbon command, with a practical workflow and the limits that matter.

01 / COMMAND GROUP

Start and license

ALWAYS AVAILABLE

License Center

Start the local trial, activate a paid key, refresh entitlement, deactivate this computer or copy the Computer ID for support.

RIBBON PATH**VORMA PRO > License Center****USE IT WHEN**

Use before the first protected command, after purchasing, when moving a seat to another computer or when access needs refreshing.

WORKFLOW

- 01** Open License Center from the VORMA PRO ribbon.
- 02** For paid access, paste the Creem license key and choose Activate on this computer.
- 03** Use Refresh License after renewal or entitlement changes.
- 04** Deactivate before replacing a computer when possible.

RESULT

The status card shows trial or subscription access and the current computer activation.

**CHECK BEFORE YOU
CONTINUE**

- ! The three-day trial starts on first use and is bound to that Windows computer.
- ! Paid plans allow up to two activated computers.
- ! Send the Computer ID to support@vorma.me if activation cannot be resolved.

02 / COMMAND GROUP

Create geometry

PRO COMMAND

Generate Pattern

Open Geometry, Landscape or Responsive Geometry Studio and generate a complete VORMA system on a picked Revit face.

RIBBON PATH

VORMA PRO > Generate Pattern

USE IT WHEN

Use for the first creation of façade modules, perforated screens, landscape paving or responsive geometry.

WORKFLOW

- 01** Choose Generate Pattern, then pick a suitable face in the active Revit model.
- 02** Select Geometry, Landscape or Responsive and choose an output mode.
- 03** Choose a pattern family and set dimensions, behaviour, material and editing mode.
- 04** Inspect the 2D and 3D previews, then choose Generate.

RESULT

A tracked Revit generation is created with saved settings, host reference, material and stable module identities.

**CHECK BEFORE YOU
CONTINUE**

- ! Columns x rows cannot exceed 40,000.
- ! Perforated Screen is limited to 2,500 cells; Responsive Family Modules to 2,000 cells.
- ! Individual modeled pieces are limited to 5,000 and can increase file size.

PRO COMMAND

Custom Module Array

Array a rigid source Model-in-Place, Family, Generic Model or DirectShape across a selected surface.

RIBBON PATH**VORMA PRO > Custom Module Array****USE IT WHEN**

Use when the module already exists as Revit geometry and must remain a repeated rigid form rather than a generated profile.

WORKFLOW

- 01** Pick the source element, then pick the host face.
- 02** Choose an automatic rows/columns grid or manual points on the surface.
- 03** Set surface offset and rotation around the local normal.
- 04** Generate, then move, delete or paint independent copies as required.

RESULT

Independent Generic Model DirectShape copies receive Marks, Comments and a shared generation identity.

**CHECK BEFORE YOU
CONTINUE**

- ! Automatic arrays are limited to 2,000 copies.
- ! Points outside trimmed host regions are skipped.
- ! The source must expose usable solid or mesh geometry.

03 / COMMAND GROUP

Update and edit patterns

PRO COMMAND

Update From Host

Rebuild a Geometry, Landscape or Responsive generation from its current host and saved sources.

RIBBON PATH

VORMA PRO > Update From Host

USE IT WHEN

Use after resizing or reshaping the host, moving responsive controls, editing a selected Model Curve or changing tree locations.

WORKFLOW

- 01 Choose the command and select one surviving element from the generation.
- 02 Review the update summary after VORMA rebuilds the system.
- 03 Check preserved deletions, moves, rotations, boundaries and materials in the model.

RESULT

Matching modules remap to the updated host while supported overrides are reapplied.

**CHECK BEFORE YOU
CONTINUE**

- ! A deleted or invalid source may require Edit / Regenerate and repicking.
- ! Topology changes can create new keys; unmatched local edits cannot be transferred safely.
- ! Worksharing ownership, pinned elements or document restrictions can block changes.

PRO COMMAND

Edit / Regenerate

Reopen the saved studio settings for an existing generation, change them and regenerate.

RIBBON PATH**VORMA PRO > Edit / Regenerate****USE IT WHEN**

Use to change pattern family, resolution, depth, responsive driver, landscape attractors, material or output settings.

WORKFLOW

- 01** Select one surviving member of the required generation.
- 02** Adjust settings in the studio and repick sources when prompted.
- 03** Preview the revised result and regenerate.

RESULT

The generation is replaced with the revised design while compatible stable-key overrides are preserved.

**CHECK BEFORE YOU
CONTINUE**

- ! Large changes to rows, columns or pattern topology can intentionally replace module identities.
- ! Cancelling a repick leaves the existing generation unchanged.

PRO COMMAND

Edit Module Boundary

Edit the 2D boundary of one individual Solid or Void module; Solid modules also support local 3D relief and extrusion.

RIBBON PATH**VORMA PRO > Edit Module Boundary****USE IT WHEN**

Use for a custom panel edge, a corrected opening, a local relief feature or a one-off module variation that should survive host updates.

WORKFLOW

- 01** Pick an individual editable Solid or Void DirectShape.
- 02** Drag vertices or edit exact U/V values; add or remove midpoints as needed.
- 03** For Solid output, adjust per-vertex Z offsets and local extrusion in the 3D tab.
- 04** Validate and apply the boundary.

RESULT

A saved relative geometry override is attached to that module identity and reapplied on compatible updates.

**CHECK BEFORE YOU
CONTINUE**

- ! Void geometry remains planar to protect reliable Boolean openings.
- ! Self-intersecting or Revit-invalid geometry is rejected.
- ! This command does not edit batched elements; run Make Editable first.

PRO COMMAND

Apply Module Edit

Copy one edited Solid or Void module's boundary, openings, relief and extrusion to compatible modules in the same generation.

RIBBON PATH**VORMA PRO > Apply Module Edit****USE IT WHEN**

Use when a custom module variation should be repeated across several geometrically compatible cells.

WORKFLOW

- 01** Pick the already edited source module.
- 02** Select compatible target modules from the same generation.
- 03** Confirm the transfer and review applied versus skipped targets.

RESULT

Each valid target receives a mapped edit while its own move, rotation and painted material overrides remain.

**CHECK BEFORE YOU
CONTINUE**

- ! Targets with incompatible output, topology, vertex count or mapping error are skipped.
- ! Always inspect transferred relief on curved hosts.

PRO COMMAND

Make Editable

Convert a batched Solid, Void or Landscape generation into one independently selectable Revit element per module or tile.

RIBBON PATH**VORMA PRO > Make Editable****USE IT WHEN**

Use before local moving, deletion, painting or boundary editing when a generation was created in optimized batch mode.

WORKFLOW

- 01** Select any element from the batched generation.
- 02** Run Make Editable and confirm conversion.
- 03** Select and modify individual modules with supported Revit and VORMA tools.

RESULT

The design keeps its Generation ID while each module becomes independently selectable.

**CHECK BEFORE YOU
CONTINUE**

- ! Individual elements increase model size and regeneration cost.
- ! The modeled-piece safety limit is 5,000.

PRO COMMAND

Remove Pattern

Delete the complete Geometry, Landscape, Responsive or Custom Module Array generation selected through one member.

RIBBON PATH**VORMA PRO > Remove Pattern****USE IT WHEN**

Use when the entire generated system is no longer required.

WORKFLOW

- 01** Select one element carrying the required VORMA generation metadata.
- 02** Run Remove Pattern and confirm the operation.
- 03** Use Revit Undo immediately if the wrong generation was removed.

RESULT

All surviving generated members in the selected generation are removed.

**CHECK BEFORE YOU
CONTINUE**

- ! Removal targets the complete generation, not only the picked module.
- ! User-owned host geometry is not intentionally removed.

PRO COMMAND

Convert Panels

Convert selected VORMA panels or Parametric slats and baffles into the chosen Revit output.

RIBBON PATH**VORMA PRO > Convert Panels****USE IT WHEN**

Use when generated pieces need to become independent Revit elements for downstream editing and documentation.

WORKFLOW

- 01** Select the VORMA panels or pick a rib from the required Parametric system.
- 02** Open Convert Panels and choose the selection scope, destination and available native type.
- 03** Run conversion and review the report; inspect the converted elements in the model.

RESULT

Successfully verified pieces are converted. A piece that fails conversion is retained and listed in the report.

**CHECK BEFORE YOU
CONTINUE**

- ! Native conversion depends on the source geometry and selected destination.
- ! Converted elements no longer follow the original VORMA generation.
- ! Use the report to select any pieces that were not converted.

04 / COMMAND GROUP

Materials

PRO COMMAND

Paint Material

Apply an existing or newly named Revit material to selected generated modules or Custom Module Array copies.

RIBBON PATH

VORMA PRO > Paint Material

USE IT WHEN

Use for controlled material overrides on selected pieces.

WORKFLOW

- 01** Preselect or pick generated elements.
- 02** Choose an existing Revit material or enter a new material name.
- 03** Apply and review the painted faces in a suitable visual style.

RESULT

Real Revit material assignments are stored on the selected elements and can be preserved through associative updates.

**CHECK BEFORE YOU
CONTINUE**

- ! Edit the appearance asset later through Revit Manage > Materials.
- ! Native face Paint can be reported separately from Parametric stock material.

PRO COMMAND

Material / Color Randomizer

Distribute a repeatable palette across individual modules using balanced shuffle or pure seeded random assignment.

RIBBON PATH**VORMA PRO > Material / Color Randomizer****USE IT WHEN**

Use for controlled façade, paving or module color variation across a full generation or a selected set.

WORKFLOW

- 01** Select starting elements and choose whether to expand to their complete generations.
- 02** Choose a preset palette, custom HEX colors or existing Revit materials.
- 03** Choose Balanced shuffle or Pure seeded random and set the seed.
- 04** Review the live preview, then apply.

RESULT

VORMA creates or reuses real Revit materials and assigns them deterministically by stable module key.

**CHECK BEFORE YOU
CONTINUE**

- ! Choose at least two palette entries; up to 64 are supported.
- ! The same palette, method and seed reproduce the same distribution.
- ! Custom HEX colors create named VORMA Random materials.

05 / COMMAND GROUP

Fabrication

PRO COMMAND

Fabrication Pro DXF + Types

Read current generated panel geometry, rationalize manufacturing types, create Revit schedules and export consolidated DXF, SVG and CSV data.

RIBBON PATH

VORMA PRO > Fabrication Pro DXF + Types

USE IT WHEN

Use after Geometry, Landscape or Responsive panel design is stable and must be numbered, grouped or prepared for coordination with a fabricator.

WORKFLOW

- 01 Select one or more supported VORMA elements and choose whether to expand each complete generation.
- 02 Choose current arrangement, master DXF, master SVG or the complete DXF + SVG + CSV set.
- 03 Set stock size, margin, spacing, kerf metadata, nesting rotation and labels.
- 04 Set type tolerances, representative geometry and schedule options, then export.
- 05 Open the files independently and verify at least one known dimension at 1:1 mm.

RESULT

Consolidated drawings, part/type data, utilization metrics and optional Type Quantities and Part Register schedules are produced.

**CHECK BEFORE YOU
CONTINUE**

- ! Current-arrangement export requires compatible planar geometry and a common drawing plane.
- ! Curved or nonparallel selections may be blocked or need a documented flattened workflow.
- ! Output is coordination data, not approved machine-ready CAM.

06 / COMMAND GROUP

Parametric slats and baffles

PRO COMMAND

Wall Slats

Generate vertical, horizontal or legacy custom-angle ribs on one vertical planar wall face.

RIBBON PATH

VORMA PRO > Parametric > Wall Slats

USE IT WHEN

Use for a slatted wall, sunscreen or feature surface driven by a sine wave or up to 16 Revit Model Lines, Arcs or Splines.

WORKFLOW

- 01** Pick a vertical planar wall face.
- 02** Optionally pick hosted Doors and Windows for associative cuts.
- 03** Set the panel area, rib dimensions, wave driver, direction, rotation, clearance and material.
- 04** Inspect 2D and 3D preview, then Generate.

RESULT

Individual tracked Generic Model DirectShape ribs are created and can update from the host, curves and selected openings.

**CHECK BEFORE YOU
CONTINUE**

- ! One-face Wall Slats does not accept a curved wall face.
- ! Pitch must be greater than thickness.
- ! Selected openings must be hosted by the picked wall.

PRO COMMAND

Perimeter Wall Slats

Wrap one globally numbered slat system around 3-32 connected exterior wall faces, including supported cylindrical wall fillets.

RIBBON PATH**VORMA PRO > Parametric > Perimeter Wall Slats****USE IT WHEN**

Use for continuous building-perimeter vertical stations or horizontal rows that must not restart at every wall corner.

WORKFLOW

- 01** Select each connected exterior wall face once, in any order, then Finish.
- 02** Optionally link hosted Doors and Windows from the selected walls.
- 03** Choose Vertical or Horizontal, set the global wave and rib controls, then preview the unwrapped 2D elevation and installed 3D wrap.
- 04** Generate and check every corner, seam and opening.

RESULT

The perimeter is ordered, unwrapped by true line/arc length and generated as one associative system.

**CHECK BEFORE YOU
CONTINUE**

- ! Hosts must be native exterior Wall faces forming one closed non-branching loop.
- ! Horizontal rows require a common base within 1 mm and common height within 5 mm, and use 0 degree slat rotation.
- ! Horizontal perimeter rows are bent multi-wall parts and cannot use flat slat DXF export.

PRO COMMAND

Ceiling Baffles

Generate wave-driven baffles below a horizontal underside face of a ceiling, floor or roof.

RIBBON PATH**VORMA PRO > Parametric > Ceiling Baffles****USE IT WHEN**

Use for acoustic, visual or lighting baffle studies on a flat horizontal underside.

WORKFLOW

- 01** Pick the horizontal underside face.
- 02** Set panel area, thickness, pitch, minimum depth, amplitude, driver and material.
- 03** Check in preview that baffles extend downward, then Generate.

RESULT

Individual downward-extending baffles are created and linked to the selected face and curve drivers.

**CHECK BEFORE YOU
CONTINUE**

- ! Pick the underside, not the top face.
- ! Ceiling Baffles use the supported vertical rib direction.
- ! Acoustic, fire and suspension design require separate engineering.

PRO COMMAND

Edit / Repick

Edit Parametric settings or repick the host, Model Curves and selected Door/Window cuts.

RIBBON PATH**VORMA PRO > Parametric > Edit / Repick****USE IT WHEN**

Use when a saved source was deleted or changed, when opening links need correction or when the slat design parameters must change.

WORKFLOW

- 01** Select one surviving rib from the system.
- 02** Change settings and choose repick actions as needed.
- 03** Preview, decide whether to reset preserved manual edits, then regenerate.

RESULT

The same Parametric generation is rebuilt from the revised inputs.

**CHECK BEFORE YOU
CONTINUE**

- ! Reset intentionally recreates deleted ribs and removes saved moves, boundary edits and material overrides.
- ! If every rib was deleted, use Revit Undo to recover a selectable member first.

PRO COMMAND

Update from Host / Splines

Manually refresh an existing Parametric system from its current host, curves, Doors and Windows.

RIBBON PATH**VORMA PRO > Parametric > Update from Host / Splines****USE IT WHEN**

Use after a source edit when automatic update is disabled, blocked by worksharing or needs a deliberate manual check.

WORKFLOW

- 01** Select one surviving rib.
- 02** Run Update from Host / Splines.
- 03** Review the update summary and inspect preserved local changes.

RESULT

Ribs are regenerated once from the effective inputs, with supported translations, deletions, profile edits and materials reapplied.

**CHECK BEFORE YOU
CONTINUE**

- ! Arbitrary manual rib rotations are not preserved.
- ! Duplicate copied rib identities block update until the extra copies are removed.
- ! A missing source leaves old geometry in place and asks for repicking.

PRO COMMAND

Slat Materials

Assign a real existing or newly named Revit stock material to selected ribs.

RIBBON PATH**VORMA PRO > Parametric > Slat Materials****USE IT WHEN**

Use when individual rib stock groups must differ and remain identifiable in the parts CSV.

WORKFLOW

- 01** Select one or more Parametric ribs.
- 02** Choose an existing Revit material or type a new name.
- 03** Apply and check the resulting material in Revit.

RESULT

The stock material is stored per rib and preserved through compatible updates.

**CHECK BEFORE YOU
CONTINUE**

- ! A native Revit face-paint finish is separate from the stock material and is reported separately.
- ! Every rib needs a stock material before fabrication export.

PRO COMMAND

Export Slats DXF + CSV

Export the current supported Parametric generation as nominal full-size flat cut profiles and a one-row-per-rib parts register.

RIBBON PATH**VORMA PRO > Parametric > Export Slats DXF + CSV****USE IT WHEN**

Use for planar rib coordination after boundaries, materials and current generation membership have been checked.

WORKFLOW

- 01** Pick one surviving rib from the required system.
- 02** Choose the DXF filename and confirm replacement of any matching CSV.
- 03** Open the DXF in the intended CAD/CAM software and verify a known 1:1 mm dimension.
- 04** Reconcile numbers, quantities, materials and thicknesses against the CSV and Revit model.

RESULT

A CUT-layer DXF and matching Parts CSV are written as one staged file set; manually deleted ribs are excluded.

**CHECK BEFORE YOU
CONTINUE**

- ! Horizontal perimeter systems are blocked because each row bends through multiple walls, corners and fillets.
- ! The flat catalogue is not stock nesting and applies no kerf, joints, fixing holes or tool compensation.
- ! Duplicate identities or externally altered invalid ribs must be resolved before export.

PRO COMMAND

Remove Parametric System

Remove the complete selected slat or baffle generation and its Parametric data record.

RIBBON PATH**VORMA PRO > Parametric > Remove Parametric System****USE IT WHEN**

Use when the entire Wall Slat, Perimeter Slat or Ceiling Baffle system is no longer needed.

WORKFLOW

- 01** Select one surviving rib.
- 02** Run Remove Parametric System and confirm.
- 03** Use Revit Undo immediately if the wrong system was selected.

RESULT

Generated ribs and the generation record are removed.

**CHECK BEFORE YOU
CONTINUE**

- ! The original host, selected Doors/Windows and user-drawn Model Curves are not intentionally deleted.
- ! Removal affects the complete generation, including tracked copies.

05 / PATTERN CATALOGUE

Twenty-six starting systems. Final geometry also depends on the host, output mode, controls and local editing.

Geometry patterns

PATTERN	BEHAVIOUR
Full panels	A complete regular grid; the clearest base pattern for solid panelization.
Checkerboard	Alternating occupied cells for open/solid rhythm studies.
Brick courses	Offset horizontal courses with a masonry-like stagger.
Diamonds	Rotated quadrilateral modules for faceted fields.
Triangles	Triangulated cells suited to directional panel studies.
Hexagons	Offset six-sided cells for honeycomb panel fields.
Circular discs	Circular modules or repeated opening logic.
Scales / shingles	Overlapping-looking offset modules for layered surface rhythm.
Diagrid strips	Crossing diagonal bands for exoskeleton or screen studies.
Vertical fins	Repeated narrow vertical modules.
Horizontal louvers	Repeated narrow horizontal modules.
Wave bands	Continuous-looking bands controlled by wave settings.
Random pixels	Seeded cell omission controlled by Density.
Gradient pixels	A directional density field controlled by phases and behaviour settings.
Islamic eight-point stars	Eight-point star modules for geometric screen development.
Voronoi cells	Seeded irregular cellular polygons.
Parametric waves	Wave-modulated modules controlled by amplitude, frequency and angle.
Attractor perforations	The required family for Responsive Geometry drivers and profile responses.
Honeycomb gradient	Hexagonal modules with a graded field response.
Moire ribbons	Layered ribbon logic for interference and depth studies.

Landscape patterns

PATTERN	BEHAVIOUR
Ashlar paving	Staggered rectangular paving courses.
Basket weave	Alternating paired units with woven orientation.
Herringbone	Interlocking angled paving units.
Interlocking pavers	Interlocking modular paving field.
Cobblestones	Seeded irregular paving suitable for looser landscape texture.
Radial paving	Paving arranged around a radial center.

06 / RESPONSIVE DRIVERS

Select a source that matches the design relationship you want to control.

DRIVER	SOURCE	BEST FOR	UPDATE
Reference Control	Movable red Generic Model point	Localized circular influence and direct manipulation	Automatic when enabled, or Update From Host
Reference Line	Movable and rotatable VORMA line control	Directional bands and edge-like responses	Automatic when enabled, or Update From Host
Picked Model Curve	One Revit Model Line, Arc or Spline	Custom drawn response paths	Automatic when enabled, or Update From Host
Sun Path	Active Revit sun azimuth and altitude	Solar-direction design studies	Run Update From Host after changing the study time
Tree attractors	Selected planting or tree family instances	Landscape clearance, warping and cellular transitions	Edit / Regenerate or Update From Host

PARAMETER REFERENCE

Columns / Rows	Grid resolution across the selected face. More cells increase detail and Revit workload.
Gap ratio	Normalized separation between modules. Perforated screens require enough remaining material between openings.
Depth	Base extrusion measured in millimetres along the local host-face normal.
Random extra extrusion	Seeded 0-to-maximum depth variation added per stable module.

Surface offset	Distance from the host surface; negative values move toward the opposite local normal.
Density	How many candidate cells remain active in patterns that support omission or grading.
Jitter	Seeded irregularity applied by compatible pattern families.
U / V phase	Normalized directional shift of compatible gradients and pattern fields.
Wave amplitude / frequency / angle	Strength, repetition and direction of compatible Geometry wave patterns.
Random seed	A repeatability number. Identical inputs and seed reproduce the same seeded design decisions.
Chunk / batch size	How many modules are combined into optimized Revit DirectShapes when individual editing is off.
Influence radius	Physical distance over which a responsive or landscape source affects the field.
Response strength	How strongly the driver remaps values between the configured minimum and maximum.
Scale / rotation / depth / offset ranges	Near-to-far output limits evaluated through Linear, Smooth or Sharp falloff.
Pitch	Parametric rib centre-to-centre spacing in millimetres; it must be greater than rib thickness.
Slat rotation	Rotation of each rib about its longitudinal back-edge centreline, separate from layout direction.

07 / FABRICATION OUTPUT

Know what each exported file contains, then verify it independently.

Current arrangement DXF	Preserves the current compatible planar Revit arrangement, Marks, areas and project locations.
Master DXF	Packages numbered parts and data into consolidated sheet layouts with optional nesting.
Master SVG	Creates a vector companion for viewing and design coordination.
Parts CSV	Lists part identity, type, quantity, area, dimensions, material and location data.
Type Schedule CSV	Optional rationalized Type and quantity register based on the chosen tolerances.
Revit schedules	Optional Type Quantities and Part Register schedules created from available built-in parameters.
Slat DXF + CSV	A separate Parametric exporter for supported planar ribs; it is a flat profile catalogue without stock nesting.

FABRICATION CHECK

Verify 1:1 millimetre scale, every closed contour, quantity, type, material, thickness, stock break, joint, tolerance and kerf. VORMA does not replace shop drawings, CAM preparation or engineering approval.

08 / TROUBLESHOOTING

Common questions and the safest next action.

The VORMA PRO ribbon is missing.

Confirm that the installer matches the installed Revit version, close and restart Revit, and check that Windows did not block the installer. If the problem remains, email support with the Revit year and Windows version.

A command asks me to select a VORMA element.

Select one surviving generated module, tile, copy or rib carrying VORMA metadata. Geometry/Landscape commands do not operate on Parametric ribs, and Parametric commands do not operate on Geometry/Landscape modules.

Update did not preserve a local edit.

Preservation requires a matching stable identity and a supported edit. Large topology changes can replace keys. Parametric preserves translations, deletions, boundary/material edits and uniform paint, but not arbitrary manual rib rotation.

Automatic Parametric update did not run.

Automatic update happens after Revit commits an edit. Check that Live update is enabled, the license is valid and elements are editable. Worksharing ownership, pinned/grouped elements or document restrictions can block regeneration; use the manual update command after resolving them.

A host or driver was deleted.

VORMA keeps the previous generated geometry rather than guessing. Select a surviving member, use Edit / Regenerate or Parametric Edit / Repick, and choose a replacement source.

A Door or Window cut is wrong.

Use Parametric Edit / Repick to select only openings hosted by the chosen wall or perimeter walls. Native wall cuts keep their actual boundary; non-cutting families use a conservative projected rectangular cut.

Fabrication export is blocked.

Resolve the message before retrying. Common causes are curved or nonparallel geometry, duplicate rib identities, externally altered geometry, missing stock materials, or horizontal perimeter rows that are not flat parts.

Where is the diagnostic log?

Open %LOCALAPPDATA%\VormaPro\VormaPro.log. Include the relevant final entries, Revit version, Windows version and a short reproduction description when contacting support.

Can I send the DXF directly to a CNC machine?

No. First verify 1:1 millimetre scale, closed contours, quantities, materials, thickness, kerf, stock, joints and fixing details with the fabricator. VORMA does not supply machine tooling or engineering approval.

My license is inactive or a computer seat is full.

Open License Center, refresh the license and deactivate an old computer when possible. If the old computer is unavailable, send the license order details and Computer ID to support@vorma.me.

REQUIREMENTS

- Autodesk Revit 2024, Revit 2025 using .NET 8, Revit 2026.5 or later using .NET 10, or Revit 2027 on Windows
- An open Revit project with a suitable model face
- A valid trial or paid VORMA PRO license for protected commands
- Project units may vary; VORMA design and fabrication fields are entered in millimetres

SUPPORT	support@vorma.me
ONLINE GUIDE	vorma.me/help
DIAGNOSTIC LOG	%LOCALAPPDATA%\VormaPro\VormaPro.log

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