DIGITAL PRODUCT CONFIGURATION FOR BUILDING SYSTEMS

Plan buildings digitally. Sell projects faster.

Your building range as a parametric 3D configurator in the browser: customers assemble their building themselves and see it in 3D instantly — and you receive enquiries with complete, valid parameters instead of vague wish lists.

01
Geometry
Dimensions, type & frame grid

02
Options
Doors, windows & envelope

03
Handover
Parameters, views & enquiry

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3D CONFIGURATORS FOR COMPLEX PRODUCTS

WHAT THE CONFIGURATOR DOES

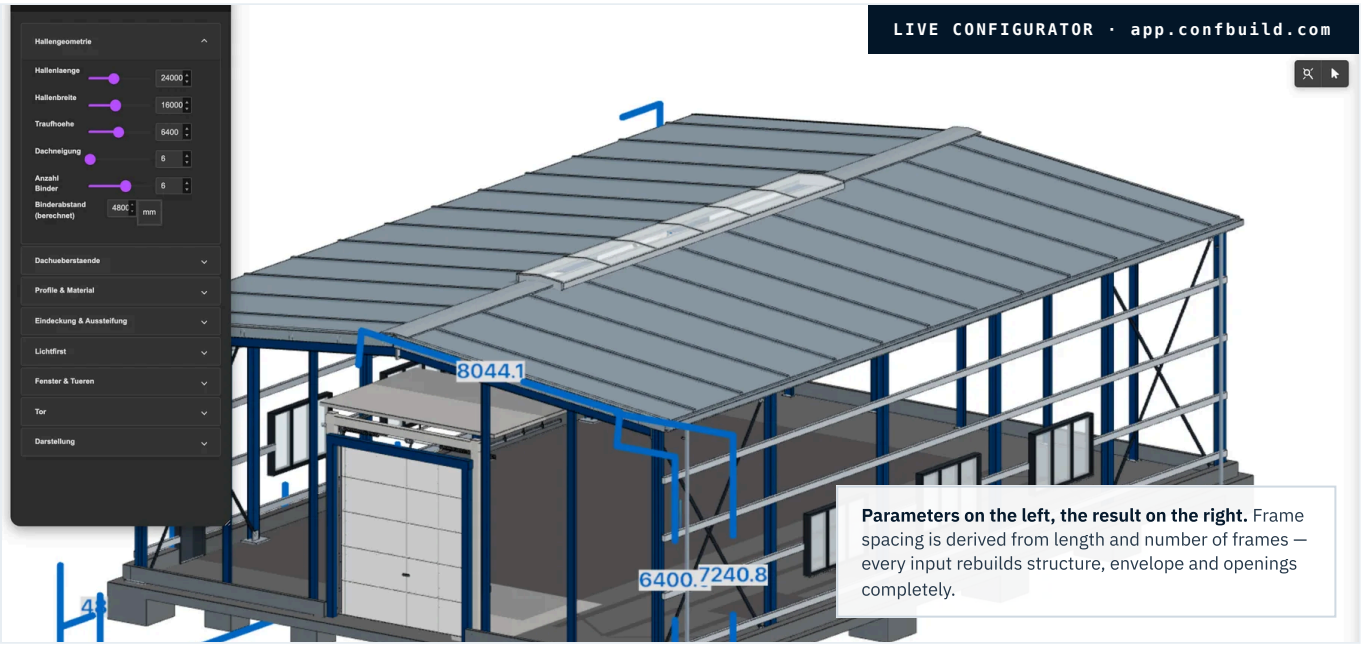
One model. The entire sales process.

The configurator turns your building range into a rule set. Every input produces a complete, technically connected 3D model — from the foundation to the ridge flashing.

Instead of a PDF catalogue and a loop of follow-up questions, your prospect gets a guided interface: they choose span, length, eaves height, roof pitch and number of frames, add doors, windows, cladding and colours — and see the result in real time as a complete building. What they send you is not an email full of question marks, but a **valid variant derived from your product logic**.

3	100 %	mm	2–6
building types ready to configure live	in the browser — no CAD installation for the customer	accuracy: every dimension is a real construction value	weeks to your own live configurator

THIS IS WHAT YOUR CUSTOMER SEES



Parameters on the left, the result on the right. Frame spacing is derived from length and number of frames — every input rebuilds structure, envelope and openings completely.

01 / GEOMETRY

Dimensions & type

Width, length, eaves height, roof pitch and frame grid — constrained by rules to what you actually build.

02 / OPTIONS

Doors & envelope

Doors, windows, cladding, ridge skylight and colours — freely combinable, every opening genuinely cut out.

03 / HANDOVER

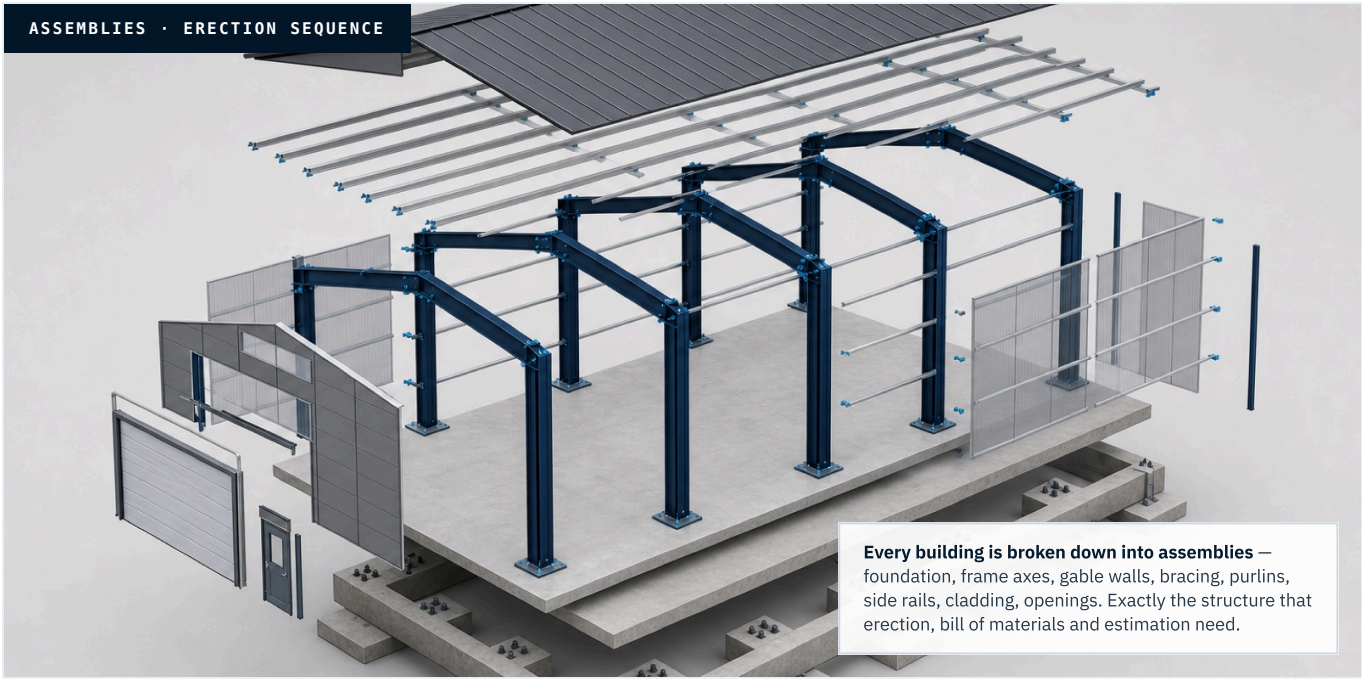
Parameters & enquiry

Share the configuration, generate dimensioned views, send an enquiry with the full parameter set.

02 / CAD KERNEL

Product rules in. Project-ready data out.

Not a picture kit, but a real parametric CAD core: parts know their neighbours, and openings genuinely cut through sheeting, rails and plinth.



01

Rule-based

Valid variants follow your product logic directly. Intermediate columns, frame spacings or door widths are updated and constrained automatically — impossible combinations never occur.

02

Assembly-aware

Structure, envelope and openings stay technically connected. A changed frame spacing moves purlins, bracing, cassettes and cut-outs in one go — not just the visuals.

03

Reusable data

One state for sales, estimation and downstream processes: parameter set, assembly tree and geometry all come from the same source instead of three separate tools.

04

Browser-native

Interactive 3D geometry without a local CAD installation, without plug-ins, without a login barrier. Runs on laptop and tablet — your customer just opens the link.

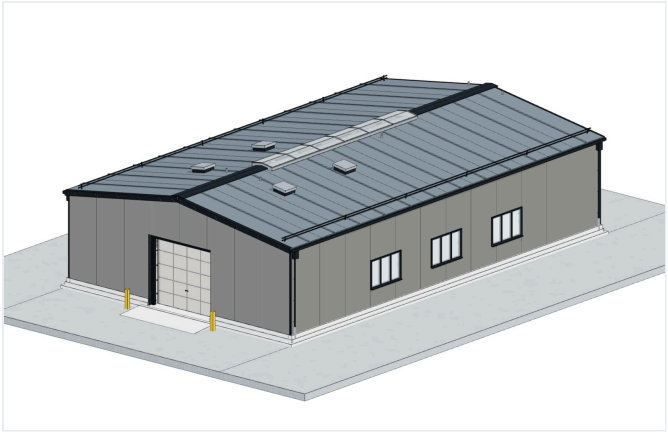
FROM PARAMETER TO PROJECT-READY DATA

Parameters — dimensions, type, options
→ **Rule set** — validity & dependencies
→ **Assemblies** — structure, envelope, openings
→ **3D model** — in the browser, in real time
→ **Handover** — views, structure, enquiry

03 / PROJECTS

Three building types. Ready to configure.

All three models run publicly in the browser — no login, no installation. They show how differently structural logic can be mapped inside one system.

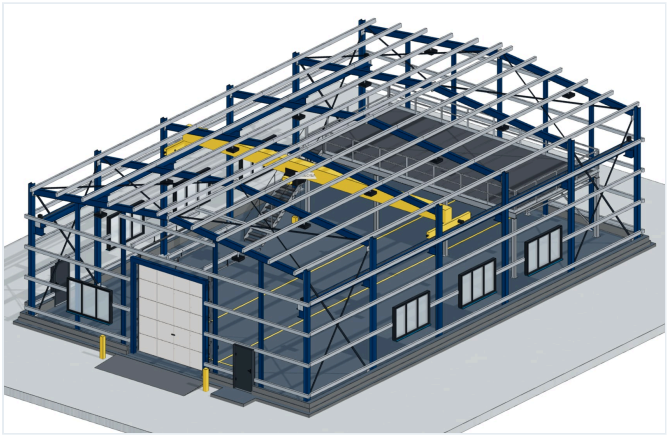


01 SYSTEM BUILDING · CUSTOMER VIEW

Grid-based system building

- Width on a 2.5 m grid, length on a 5 m frame grid — only buildable variants can be selected
- Frame count, window bays and centre columns follow the rules automatically
- Five parameter groups instead of eleven: your customer's view
- Enquiry straight from the model, drawings follow the configuration

app.confbuild.com/p/hallen-systemhalle ↗

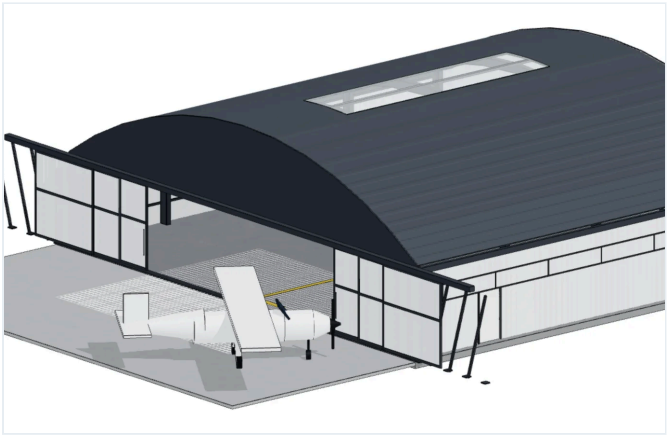


02 COMMERCIAL BUILDING · ENGINEERING VIEW

Steel building with crane and mezzanine

- The same model in the engineering view: sections, purlin and girt spacing, bracing exposed
- Crane runway with bridge crane (2–10 t), corbels on the frame columns
- Steel mezzanine with decking, railing and stair at the gable end
- Windows, doors and gates placed on the wall by clicking

app.confbuild.com/p/hallen-stahlhalle ↗



03 AIRCRAFT HANGAR

Arched building with telescopic door

- Arched frames as welded I-sections, shell driven by the arch rise
- Six-leaf telescopic door with opening-degree slider and canopy
- Aircraft class as an input — “fits through the door” checked in the configurator
- Key figures update with every change

app.confbuild.com/p/hallen-flugzeughangar ↗

All three models come from the same system. Your building type is built exactly the same way — with your sections, your grids and your rules.

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04 / FEATURES

What can be configured.

An extract from the reference models already built. The scope is tailored to your range — sections, grids and rules come from your own engineering.

Geometry & grid

- Width, length, eaves height and roof pitch fully parametric
- Number of frames drives the spacing — recalculated automatically
- Single- and two-bay layouts, intermediate columns switched in by rule
- Pitched roof or arched shell depending on building type
- Roof overhangs at eaves and verge

Structure

- Portal frames from rolled sections with haunches and ridge joint
- Truss and lattice girders with tubular web members
- Arched frames as welded I-sections
- Purlins, side rails, roof and wall bracing on the grid
- Base and cap plates, anchors, gusset plates, bolted connections
- Foundation beams, plinth and floor slab

Building envelope

- Trapezoidal sheeting, sandwich cassettes on the frame grid or corrugated sheeting
- Wall, roof and gable panels coloured individually — by clicking in the 3D model
- Ridge skylight and rooflights with a real cut-out in the roof skin
- Verge, eaves flashing, corner trims and window sills in one flashing colour
- Roof drainage with gutter and downpipes

Openings

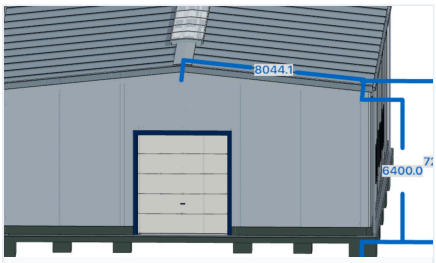
- Sectional doors front and rear, telescopic door with opening-degree slider
- Windows, doors and gates placed freely on the wall — click in the model, 50 mm grid
- Width, height and sill height individually per element
- Openings genuinely cut through envelope, side rails and plinth
- Window bands, wicket door and personnel door

Equipment

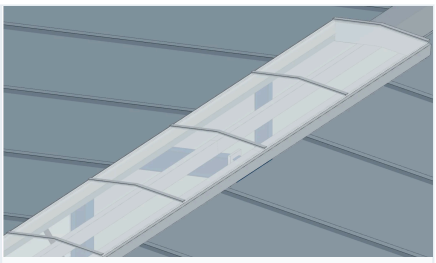
- Crane runway, crane bridges and hoist with correct contact points
- Reference objects for scale — e.g. an aircraft by class
- Floor markings, apron and outdoor areas
- Materials and RAL colours per component group

Presentation & handover

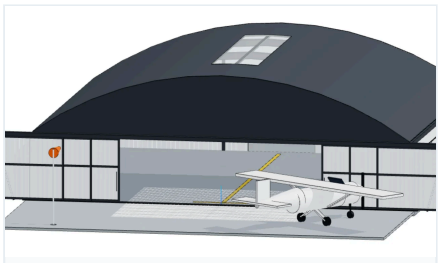
- Dimensioned cross and longitudinal views straight from the model
- Exploded erection view at the push of a button
- Clash detection: overlapping parts are highlighted in the model
- Key figures and bill of materials live from the configuration
- Share the configuration by link, enquiry with the full parameter set



DIMENSIONING
Dimension chains for cross and longitudinal views, measured on the model.



RIDGE SKYLIGHT
Ridge glazing with a clean cut-out in the roof skin.



TELESCOPIC DOOR
Six leaves, opening degree adjustable without steps.

05 / VALUE

Faster to the quotation. From one model.

The configurator takes over the qualification work your sales team does today by phone and email — around the clock and equally clean in every variant.

01
→
Faster to the quote
Enquiries arrive with complete dimensions and options. The follow-up loop disappears.

02
⌖
Qualified enquiries
Anyone who works through the configuration has a concrete project — not just curiosity.

03
◇
Only valid variants
Your rules constrain the choices. Combinations you cannot build never appear.

04
⌂
Customers see their building
3D instead of a brochure: decisions come earlier because the result is visible.

05
▤
One data model for everyone
Sales, estimation and work preparation all work from the same parameter set.

06
↗
Grows with your range
New types, sections or options are added as rules — no new tool required.

06 / SALES FLOW

One digital workflow. One priceable enquiry.

01
Requirements
The customer brings use case, footprint and height — guided instead of free-form.

→

02
Configuration
Geometry, structure, envelope and openings are assembled live in 3D.

→

03
Bill of materials
The model yields the assembly and parts structure as an estimation basis.

→

04
Quotation
Your sales team prices a checked variant — instead of reconstructing an idea.

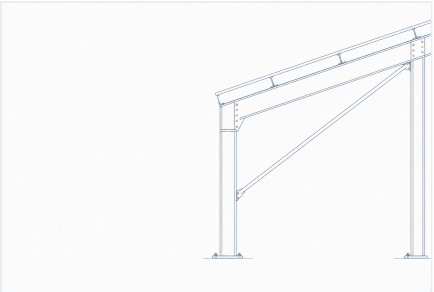
Interest becomes a project — before your sales team picks up the phone.

Every submitted configuration carries the complete parameter set of the building. You start where the third follow-up question would otherwise be.

07 / PILOT

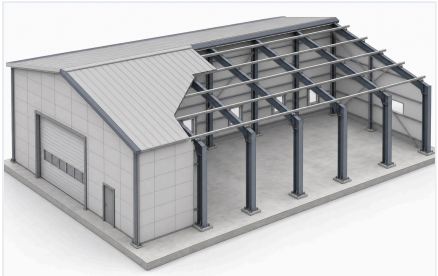
Three steps to a live configurator.

We start with one building type from your range. You see a real model early — not only at the end of a project plan.



01 / CLARIFY REQUIREMENTS

Your building type, your sections, your rules — captured individually and remotely.



02 / IMPLEMENTATION

The parametric model is built within days and refined together with you.

03 / PUBLICATION

The configurator goes online — as a link, embedded in your website.

Clickable within days. Live in 2–6 weeks.

The pilot starts with one building type and grows into variants, options and further product ranges — inside the same system.

08 / MORE CONFIGURATORS

One system. More product worlds.

The same parametric logic can power adjacent product ranges. Step by step, this creates a digital portfolio for consultation, planning and sales.

01 / CARPORTS

Sell carports digitally

Structure, roof types and equipment options in one continuous configuration and sales process.

carport.confbuild.com/en ↗

02 / CANOPIES

Configure pergolas visually

Choose dimensions, louvred roofs, glazing and accessories clearly and experience the result in 3D.

pergola.confbuild.com/en ↗

03 / SOLAR CARPORTS

Make PV solutions plannable

Combine parking bays, PV roofs, charging infrastructure and structure into a project-ready variant.

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Book an introductory call

daniel@confbuild.com

A short remote call: your building type, your variant logic, a realistic pilot scope.

See the projects live

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Configure three public building models directly in the browser — no login.