Matterport

Scan-to-BIM Building Elements

These are the building elements included in Matterport's Scan-to-BIM Add-on according to the options you select when purchasing:

- Architecture
- Furniture
- MEP

Architecture

Floors

Structure

General floor assembly with generic floor slab size

Sloped Floors

Modeled to average floor height, no slopes modeled

Slab Depressions

None

Shaft Openings

Modeled around perimeter

Floor-Ceiling Height

Modeled from floor to ceiling/slab, whichever is exposed. Heights above 15' may have accuracy variance

Columns

Shape & Plan Location

General shape & location according to plan

Elevation

General height and uniform profile, from level to bottom of slab

Sweeps, Capitals, and Cornices

None

Structure

Beams & Castellations

General shape, type, and placement

Waffle Slab

Modeled to average slab height, no slab depressions

Ceilings

General

Modeled without soffits; no bordering of interior columns/walls

Walls

Wall Types

Differentiate between interior & exterior walls

Wall Assembly

Generic thickness; no wall layers of assembly

Shape & Plan Location

General shape and location according to floor plan; if walls slightly off axis, wall to be modeled to average discrepancy

Elevation

Standard height from top of slab to bottom of slab, if exposed; no special shape modification in elevation

Interior Details

No sweeps, cornices, or wall finishes or any custom installation modeled

Doors

Shape & Plan Location
Placed & sized accordingly

Elevation
Modeled to standard door families, size as captured by scan

Windows

Shape & Plan Location
General size and placement in plan

Elevation
Standard height

Sill Height
Standard height

Custom-Shaped Windows
None

Bathroom Fixtures

Toilets, Urinals & Sinks
Standard geometry modeled in a proper location; no toilet accessories included

Stalls
Generic model placed accordingly with scan captured size

Stairs

Core & Fire Stairs
Model to general shape and location; default rise/tread heights

Other Stairs
Model to general shape and location; default rise/tread heights

Railings

Model to general shape and location; default railings

Roofs

General

General shape and position if exposed; standard height; no slopes

Exterior Curtain Walls

Shape & Plan Location

General accuracy of width and location in plan; general accuracy of vertical grid placement

Elevation

Modeled from level to level as general height; only border horizontal grids added.

Mullion Profiles

Standard profiles; no creation of new profiles; standard corner and exterior mullions

Glass

Modeled from interior boundary and thickness

Exterior Elements & Facade

Exterior Elements

Exterior elements that do not affect interior space are not modeled

Dormers & Skylights

Only openings modeled

Furniture

Desks & Tables

Shape & Plan Location

Model as a generic object with approximate shape & standard sizes; placed and located as indicated in plan; geometry not distinguishable by material

Chairs & Seating

Shape & Plan Location

Generic shape specified by type; standard sizes; placed and located as in plan; geometry not distinguishable by material

Cabinets, Countertops & Millwork

Shape & Plan Location

Model as plan -specified sizes, shape and location of equipment and associated components

Appliance

Kitchen Appliances

Model to general shape with standard sizes, placed & located accordingly to plan

Wall Fixtures

Signage

General Exit Signs, Emergency Lightings as indicated in plan

Light Fixtures

Model as generic with approximate size, shape & location; standard 2D representation; no electrical terms included

Alarms

None

Artwork

None

MEP

Plumbing Fixtures

Generic fixtures placed according to location in plan, modeled to size; modeled only when exposed and clearly visible; elements higher than 15' may have 3"+ variance

Pipes

Generic pipes over 2" in diameter placed according to location in plan, modeled to size; modeled only when exposed and clearly visible; elements higher than 15' may have 3"+ variance

Power / Data Outlets

General model in place element as placeholder, modeled only whenever clearly unobstructed, and clearly visible within point cloud

HVAC Ducts

Generic fixtures placed according to location in plan, modeled to size; modeled only when exposed and clearly visible; elements higher than 15' may have 3"+ variance

Conduit

Generic conduits over 2" in diameter placed according to location in plan, modeled to size; modeled only when exposed and clearly visible; elements higher than 15' may have 3"+ variance