

ARCH 2431 Building Technology III Steel Assembly & Building Information Modeling (BIM) with Revit

<u>Revit Interface</u> Ribbons, View Control, Project Browser, Properties, Sheet Layout & Plotting

1.18

Building Technology III

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 Quick Access
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- View Control
 - Toolbar • Scale & Detail • Visual Styles • Sun Path • Cropping
 - Visibility Control
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Revit Interface



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Ribbons 1 of 3

Architecture (walls, doors, windows, components . . .)

| | 00 | 0. | (3、))、 | =-2 | A ©1 | 0.9 | 12 8 | £- | - | rac_basic_s | ample_p | oject.R1 | 8.rvt - Floor Plar | : Level 2 | | | Type a ke | word or | phrase | A | 286 | 주 슈 Sign In | + Σ | X () - 💻 |
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| odif | Wall | Door | Window | Component * | Column * | Roof | Ceiling | Floor | Curtain Curtain Mullio System Grid | n Railing | Ramp | Stair | Model Mode Text Line | Model Group | Room | Room Separator | Tag Room | Area | Area Boundary | Tag Area | By Face | Shaft | s∰ Grid | Set Viewer |
| elect | | | | | B | uild | | | | (| irculation | n; | Mode | el | | | Room & | Area 🔻 | | | | Opening | Datum | Work Plane |

Structure (beams, structural walls & columns, floors . . .)

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| Select | | | Str | ucture | | 3 | F | oundatio | on | | Reinforc | ement 🝷 | | | Model | | | | Openin | ng | | Datu | m | | Work P | lane | |

Systems (hvac, mechanical, plumbing & piping, electrical . . .)

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Insert (link revit & cad, import cad, image, load family ...)

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| Modify | Link Revit | Link CAD | DWF Markup | Decal | Point Cloud | Manage Links | Import CAD | Import gbXML | Insert from File | Image | Manage Images | Import Family Type | s Famil | Load as Group | Find an | nd download building pr | oduct models, dra | wings, and specs |
| Select | | | Li | nk | | | | | Im | port | | | Load fr د | om Library | 6 | Autoc | lesk Seek | |

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Ribbons 2 of 3

Annotate (dimensions, details, text, tags, color fill . . .)

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| Select | | Dimension * | | D | etail | Text | ы | | Tag 🔻 | | Color Fill | | Symbol |

Analyze (loads, analytical model tools, energy analysis . . .)

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| Modify | Loads | Load Cases Co | Load ombinations | Boundary Conditions | Analytical Adjust | Analytical Reset | Check Supports | Consistency Checks | Space S | Space eparator | Space Zone Tag | Heating and Cooling Loads | Panel Schedules | Schedule/ Quantities | Duct Pressure Loss Report | Pipe Pressure Loss Report | | 1 | Energy Settings Ene | Enable ergy Model | Run Energy Simulation | Results & Compare |
| Select | | Loads | | Boundary Conditions | A | nalytical N | Aodel Tools | × | Sp | paces & Z | ones 🔻 | | Rep | orts & Sched | dules | ĸ | Check Systems | Color Fill | | Energy A | nalysis | |

Massing & Site (conceptual mass, model by face, model site ...)

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| Modify | Show Mas | is In-Pla | ace Place | Curtain | Roof W | all Floor | Toposurface | Site | Parking | Building | Split | Merge | Subregion | Property | Graded | Label |
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| Select | Cond | ceptual Mass | 5 | N | /lodel by F | ace | | Model 9 | lite | R | | | Mod | ify Site | | |

Collaborate (worksets, synchronize, coordinate ...)



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View (graphics, 3D, section, callout, plans, elevations ...)

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| G Modify | View Visibility/ Filters Thin Show Remove Cut Templates Caphics Lines Hidden Lines Hidden Lines Profile | Render Render Render Vi | 3D Section Callout 	 Elevation → B Drafting View section Callout 	 Elevation → B Drafting View B Elevation → B Drafting View B Elevation → B Drafting View B Drafting View B Drafting View B Drafting View | Eschedules → Scope Box Scope Box Scope Box Gil View G ^A Revisions Guide Grid Of Viewports → | Switch Close User Interface |
| Select | Graphics | u. | Create | Sheet Composition | Windows |

Manage (snaps, units, location, coordinates, position . . .)

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| Select | Settings | | Project Location | Design Options | Manage Project | Phasing Se | election In | quiry Ma | cros |

Modify (options are dependant on object selection)

| 12- | 680 | • \$\$ • \$\$ | A 🗈 🖈 🖓 A | 0·9 🛃 🛃 | £i • ₹ | | rac_basic | _sample_proje | ct.R13.rvt - Floor Pl | an: Level 2 | • |
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Quick Access Toolbar

Undo



Redo

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|----------|--------------|------------------|----------------------------|---------------------------|
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| rac_basi | sample_pro | ject.R13.rvt - F | Change Type Change Type | |
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| ·回… | Floor Plans | | Pin | |
| | Level 1 | | Delete Selection | |
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Measure



3D, Camera, Walkthrough

- New, Open, Save
- Synchronize
- Undo, Redo
- measure

- aligned dimension
- tag by category
- text
- default 3D view

- section,
- thin lines
- close hidden windows
- switch windows



Close hidden windows & switch Windows

| 0 / | A | 8 | • | 9 | E | 2 | 8 | - = | rac_basic_sample_project.R13.rvt - Floor Plan: Level 2 |
|-----|-----|-------|---|-----|------|------|---|------|---|
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| 6 | 1 | +0+ | | Ö | C |) | | 4 ra | ac_basic_sample_project.R13.rvt - Floor Plan: Site |
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InfoCenter Toolbar

Search

| iype a keyword or phrase | 🎢 🔍 🖄 🏠 🗘 Sign In | · 🕅 🕄 · |
|--------------------------|--|---------|
| | Search Displays the search results. | |

Subscription center

| Type a keyword or phrase | <i>8</i> 18 | S | 8 \$ | Q Sign In | • 🗙 | ? . | - 0 |
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| | | | Subscrip Enroll to | otion Center become a mem | ber and acce | ess Subscr | iption services. |

Communication Center

| Communication Center Displays the Communication Center panel for product up and announcements. | Type a keyword or phrase | AA 8 8 | 🔄 🗘 🗘 Sign In | * 🔀 | ? • | | × |
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| and announcements. | | | Communication Cer Displays the Commu | nter Inication Cen | ter panel | for product upo | lates |
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Favorites

| Type a keyword or phrase. | A P B | ☆ 🔍 Sign In | • 🗶 🕐 | 0 |
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| | | Favorites Displays the Favor | ites panel to access | s saved topics. |

Autodesk 360

| Type a keyword or phras | e 848 ' | S B | ☆ | <u>Q</u> Sign In | - 🛙 | • |
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| | | | | Sign In to | Autodesk 3 | 60 |
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| | | | | Launches the | : Exchange App | os website. |

• Search:

http://wikihelp.autodesk.com/search?q= Search on Autodesk wiki site

- Subscription Center: Access to subscription service benefits
- Communication Center: Access to RSS feeds on software issues
- Favorites: Add search results to your favorites
- Autodesk 360

Cloud centric storage and computing solution that provides each user with 3gb of free storage.

• Exchange Apps:

http://apps.exchange.autodesk.com/



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View Control Toolbar (scale and details)

Set View Scale



Annotations adjust to selected scale







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View Control Toolbar (sun path)



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View Control Toolbar (cropping)

View with Cropping Off



View with Cropping On

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1/8" = 1'-0"



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Crop View

Crop Region On



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1/8" = 1'-0"

Hide Crop Region

Apply Hide/Isolate to View

Reset Temporary Hide/Isolate

Apply Hide/Isolate to View

Reset Temporary Hide/Isolate

Isolate Category

Hide Category

Isolate Element

Hide Element

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Hide Category

Isolate Element

Hide Element

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View Control Toolbar (visibility control)

Isolate Category





Hide Category



Isolate Element





Hide Element



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View Control Toolbar (hidden elements)

Reveal Hidden Elements



Show Analytical Model Categories

| | | | | | ~ | Show Analytical Model Categories in this View Temporarily Display Only Analytical Model Categories |
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Project Browser

- Legends
- Schedules/Quantities
- Sheets (all)
- Families
- Groups
- Revit Links



| rac_basic_sample_project.rcb.rvt = Project brow | |
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| Square | |
| Elevation Mark Square - Upgrade | |
| Square | |
| Fixed Up Direction | |
| 🖃 Grid Head - Circle | |
| Grid Head - Circle | |
| 🖃 Level Head - Circle | |
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| 🖃 Section Head - Filled | |
| Section Head - Filled | |
| 🖃 Section Head - no arrow | |
| Section Head - no arrow | |
| 🖃 Section Tail - Filled | |
| 2.4 x 9.5 | |
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| 9.5 x 2.4 | |
| Spot Elevation - Target Filled | |
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Floor Plan View Basic Wall Dropertie 8 Properties -Floor Plan Floor Plan: Level 2 🔹 🕞 Edit Type Graphics * * View Scale 1/8" = 1'-0" Scale Value 1: 96 Display Model Normal Detail Level Medium Show Original Parts Visibility Visibility/Grap... Edit... Graphic Displ... Edit... Underlay None Underlay Orie... Plan Orientation Project North Wall Join Disp... Clean all wa... Discipline Architectural Color Scheme... Background Color Scheme <none> System Color ... Edit... Default Analy... None

\$

<None> Level 2

Independent

Sun Path Identity Data

View Template

View Name

Dependency

Title on Sheet Referencing S...

| riopenies | <u>ت</u> |
|------------------|-----------------|
| Basic | Wall |
| Walls (1) | - Edit Type |
| Constraints | * |
| Location Line | Wall Centerline |
| Base Constraint | T.O. Found |
| Base Offset | 0' 0" |
| Base is Attached | |
| Base Extension | 0' 0" |
| Top Constraint | Up to level: L |
| Unconnected H | 18' 0137/256" |
| Top Offset | 0' 0" |
| Top is Attached | V |
| Top Extension | 0'0" |
| Room Bounding | V |
| Related to Mass | |
| Structural | \$ |
| Structural | |
| Enable Analytic | |
| Structural Usage | Non-bearing |
| Dimensions | \$ |
| Length | 55' 6" |
| Area | 639.35 SF |
| Volume | 461.10 CF |
| Identity Data | \$ |
| Comments | |
| Mark | |
| Dhacing | \$ |

Properties (of views or model objects)

Double-Glass Window

| Properties | 8 |
|-------------------|---------------------|
| Doubl 1800 > | e-Glass 1 c 2100 |
| Doors (1) | ▼ Content Edit Type |
| Constraints | * |
| Level | Level 2 |
| Sill Height | 0' 0" |
| Construction | \$ |
| Frame Type | |
| Materials and Fin | * |
| Frame Material | |
| Finish | |
| Identity Data | \$ |
| Comments | |
| Mark | 4 |
| Phasing | \$ |
| Phase Created | New Constru |
| Phase Demolish | None |
| Other | \$ |
| Head Height | 6' 10 173/256" |
| | |

Stair with open treads

| Properties | × |
|------------------|---|
| Stair open | treads |
| Stairs (1) | 🔹 🔠 Edit Type |
| Constraints | \$ |
| Base Level | Level 1 |
| Base Offset | 0' 0" |
| Top Level | Level 2 |
| Top Offset | 0' 0" |
| Multistory Top | None |
| Graphics | \$ |
| Up text | UP |
| Down text | DN |
| Up label | V |
| Up arrow | V |
| Down label | V |
| Down arrow | V |
| Show Up arrow | |
| Dimensions | \$ |
| Width | 3' 0" |
| Desired Numbe | 18 |
| Actual Number | 18 |
| Actual Riser Hei | 0' 69/16" |
| Actual Tread De | 0' 11" |
| Identity Data | \$ |
| Comments | |
| Mark | |
| Phasing | \$ |
| | 1 M M M M M M M M M M M M M M M M M M M |

- Overview
- Ribbons
- Group 1 • Group 2
- Group 3
- Tool Bar
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- Info Cente
- View Control
- Toolbar - ccale & Detail - Visual Styles - Sun Path - Cropping - Visibility Coder
- Hidden Element
- Project
 Browser
- Properties
- Sheet Layout
- Plotting

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Properties/Project Browser Tabbed View

| SD View | roperties |
|------------------------|------------------------|
| 3D View Aerial | - Edit Type |
| SD VIEW, Aeriai | |
| Graphics | X A |
| Detail Level | Shaw Original |
| Parts Visibility | Show Original |
| Visibility/Graphics | Edit |
| Graphic Display O | Edit |
| Discipline | Architectural |
| Default Analysis D | None |
| Sun Path | |
| Identity Data | × |
| View Template | <none></none> |
| view ivame | Aeriai |
| Dependency | Independent |
| Litle on Sheet | |
| Extents | · |
| Crop Region Visible | |
| Far Clip Active | |
| Far Clip Offset | 50/62./ |
| Section Box | |
| Crop View | |
| Camera | * |
| Rendering Settings | Edit |
| Locked Orientation | |
| Perspective | |
| Eye Elevation | 15107.7 |
| Target Elevation | 1676.4 |
| Camera Position | Explicit |
| Phasing | * |
| Phase Filter | Show All |
| Properties help | Apply |
| Project Browser - dav0 | 1 rac basic Properties |





Drag apart so properties is floating





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- Ribbons
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- Group 3 • Tool Bat
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- Sun Path
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Sheet Layout (create new sheet)



• Overview

Ribbons

• Group 1 • Group 2

- Group 3
- Tool Bai
- Quick Acc
 Info Cente
- View Control
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Sheet Layout (drag named views onto sheet)



- Overview
- Ribbons
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