



SketchUp Pro

REVIT

Gráfica_Digital

SketchUp_02 - Exportar um arquivo de SkecthUp para o Revit

Este tutorial foi elaborado pela equipe de monitores de DIG de 2015-2

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Igor Dias,
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Gráfica_  ital



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In-Place Mass
Creates a mass that is unique to the project.

If you want to place several instances of the same mass in the project or use the same mass in several projects, create a mass family.

Press F1 for more help

Properties

Floor Plan

Floor Plan: Level 1 Edit Type

Graphics

View Scale 1:100

Scale Value 1: 100

Display Model Normal

Detail Level Coarse

Parts Visibility Show Original

Visibility/Graph... Edit...

Graphic Displa... Edit...

Underlay None

Underlay Orien... Plan

Orientation Project North

Wall Join Display Clean all wall...

Discipline Architectural

Show Hidden L... By Discipline

Color Scheme Background

Properties help Apply

Project Browser - Project1

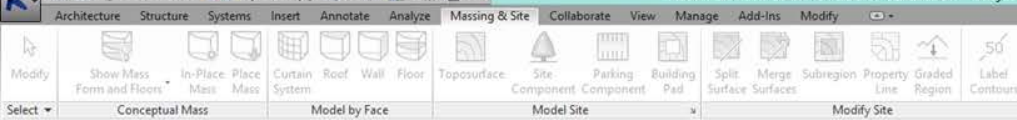
- Views (all)
- Floor Plans
 - Level 1
 - Level 2
 - Site
- Ceiling Plans
 - Level 1
 - Level 2
- Elevations (Building Elevation)
 - East
 - North
 - South
 - West
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- Schedules/Quantities
- Sheets (all)
- Families
- Groups
- Revit Links

1:100

Click to select, TAB for alternates, CTRL adds, SHIFT unselects.

Main Model

Após abrir o Revit, ir para a opção **MASSING & SITE** e clicar em **IN-PLACE MASS**



Properties

Floor Plan

Floor Plan: Level 1 Edit Type

Graphics

View Scale 1:100

Scale Value 1: 100

Display Model Normal

Detail Level Coarse

Parts Visibility Show Original

Visibility/Graph... Edit...

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Properties help Apply

Project Browser - Project1

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Name

Name: Mass 1

OK Cancel

Abriará uma janela onde você nomeará a massa que deseja importar.



Properties

Floor Plan

Floor Plan: Level 1 Edit Type

Graphics

View Scale: 1:100
Scale Value: 1: 100
Display Model: Normal
Detail Level: Coarse
Parts Visibility: Show Original
Visibility/Graph...: Edit...
Graphic Displa...: Edit...
Underlay: None
Underlay Orien...: Plan
Orientation: Project North
Wall Join Display: Clean all wall...
Discipline: Architectural
Show Hidden L...: By Discipline
Color Scheme...: Background

Properties help Apply

Project Browser - Project1

- Views (all)
- Floor Plans
 - Level 1
 - Level 2
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Name

Name:

OK Cancel

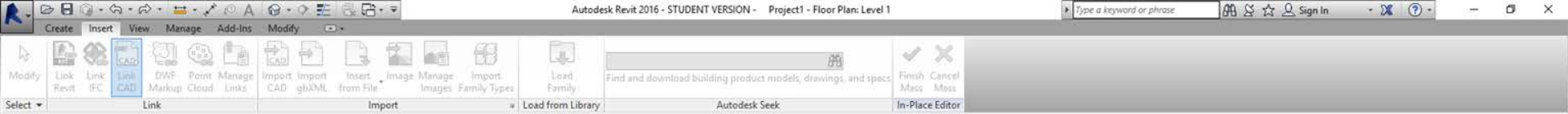
The screenshot shows the Autodesk Revit 2016 interface. The top ribbon is set to the 'Modify' tab. The 'Link CAD' button is highlighted, and a context menu is open over it. The context menu contains the following text:

- Link CAD**
- Links a CAD file to the current Revit project.
- Linking is similar to having an xref in AutoCAD. When the original linked file changes, these changes are reflected (if possible) in the file when you reload the project.
- Press F1 for more help

The Properties panel on the left shows the 'Family: Mass' dropdown and the 'Edit Type' button. Below it, the 'Constraints' and 'Identity Data' sections are visible. The 'Project Browser' on the left shows the project structure, including 'Level 1' under 'Floor Plans'.

The main drawing area is empty, showing a grid and a few small icons. The bottom status bar shows the scale '1:100' and various tool icons.

Após apertar OK, clique em *Link CAD*. é importante observar que estamos usando a opção *Link CAD*, e não a *Import CAD*, dessa forma nós conseguimos manter o arquivo original do CAD e restaurá-lo quando necessário.



Properties

Family: Mass

Constraints

Identity Data

OmniClass Num...

OmniClass Title

Project Browser - Project1

- Floor Plans
 - Level 1
 - Level 2
 - Site
- Ceiling Plans
 - Level 1
 - Level 2
- Elevations (Building Elevation)
 - East
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Link CAD Formats

Look in: PA1

Nome	Data de modificaç...	Tipo
Nova pasta (2)	09/06/2014 04:13	Pasta de arqui
pa1.2	02/12/2015 00:29	SketchUp Mo
pa1	22/03/2015 01:00	SketchUp Mo
Terreno	14/05/2014 17:26	SketchUp Mo

File name: pa1.2

Files of type: SketchUp Files (*.skp)

Current view only:

Colors: Preserve

Layers/Levels: All

Import units: Auto-Detect 1.000000

Positioning: Auto - Origin to Origin

Place at: Level 1

Orient to View

Correct lines that are slightly off axis

Open Cancel

Abrirá uma janela onde iremos mexer em algumas configurações antes de abrir o arquivo do Sketchup desejado.

Properties

Family: Mass Edit Type

Constraints Host

Identity Data OmniClass Num... OmniClass Title

Properties help Apply

Project Browser - Project1

Views (all)

- Floor Plans
 - Level 1
 - Level 2
 - Site
- Ceiling Plans
 - Level 1
 - Level 2
- Elevations (Building Elevation)
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Positioning: Auto - Origin to Origin

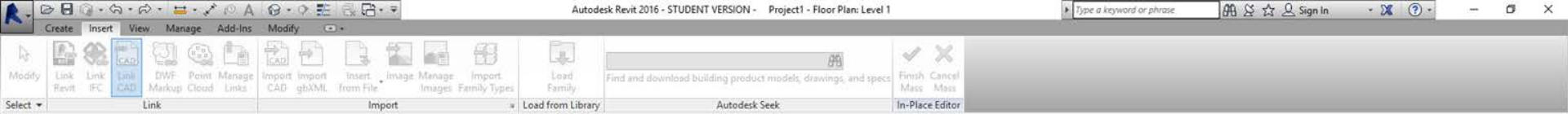
Place at: Level 1

Orient to View

Correct lines that are slightly off axis

Open Cancel

Se o seu modelo no SketchUp possui cores aplicadas as faces isso irá preservar o arquivo original.



Properties

Family: Mass

Constraints

Identity Data

Project Browser - Project1

- Floor Plans
 - Level 1
 - Level 2
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 - Level 1
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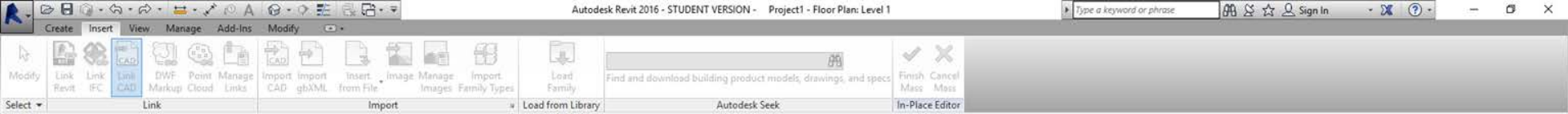
Layers, Levels: All

Positioning: Auto - Origin to Origin

Place at: Level 1

Correct lines that are slightly off axis

Aqui é possível selecionar os níveis e layout que deseja importar.



Link CAD Formats

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Current view only

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Import units: Auto-Detect 1.000000

Correct lines that are slightly off axis

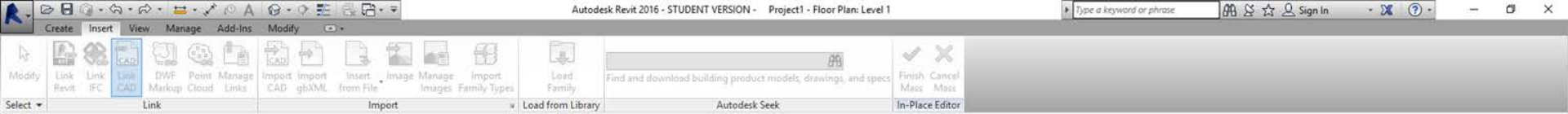
Positioning: Auto - Origin to Origin

Place at: Level 1

Orient to View

Open Cancel

Nessa opção se encontra a seleção da unidade de medida. coloque a desejada ou *Auto Detect* que funcionará da mesma forma. Também é possível ajustar linhas que estão fora do eixo marcando a opção logo abaixo.



Properties

Family: Mass Edit Type

Constraints

Host

Identity Data

OmniClass Num...

OmniClass Title

[Properties help](#) Apply

Project Browser - Project1

Views (all)

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Current view only

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Import units: Auto-Detect 1.000000

Positioning: Auto - Origin to Origin

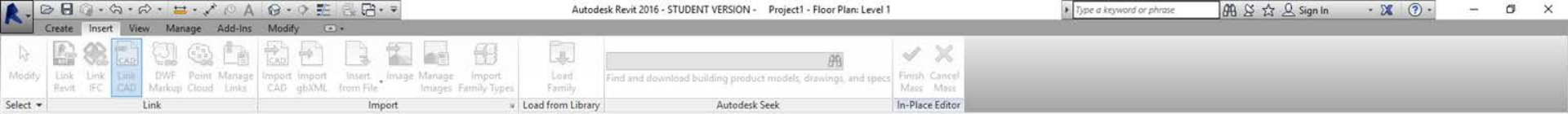
Place at: Level 1

Orient to View

Correct lines that are slightly off axis

Open Cancel

Colocará o seu modelo posicionado de acordo com a posição que o mesmo tinha no SketchUp.



Properties

Family: Mass Edit Type

Constraints

Host

Identity Data

OmniClass Num...

OmniClass Title

Properties help Apply

Project Browser - Project1

Views (all)

- Floor Plans
 - Level 1
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Import units: Auto-Detect 1.000000

Positioning: Auto - Origin to Origin

Place at: Level 1

Orient to View

Correct lines that are slightly off axis

Open Cancel

Nessa opção você escolherá qual nível o modelo será posicionado.



Search Autodesk Seek
Find and download building product models, drawings, and specs



Properties

Family: Mass

Constraints

Host

Identity Data

OmniClass Num...

OmniClass Title

[Properties help](#)

Project Browser - Project1

- Views (all)
- Floor Plans
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Pronto, o arquivo foi importado.

Warning

Some ACIS objects could not be imported. To import them, use AutoCAD to convert them into polymesh objects and reimport.

Properties

3D View

3D View: {3D} Edit Type

Graphics

View Scale 1:100

Scale Value 1: 100

Detail Level Medium

Parts Visibility Show Original

Visibility/Graph... Edit...

Graphic Displa... Edit...

Discipline Coordination

Show Hidden L... By Discipline

Default Analyti... None

Sun Path

Extents

Crop View

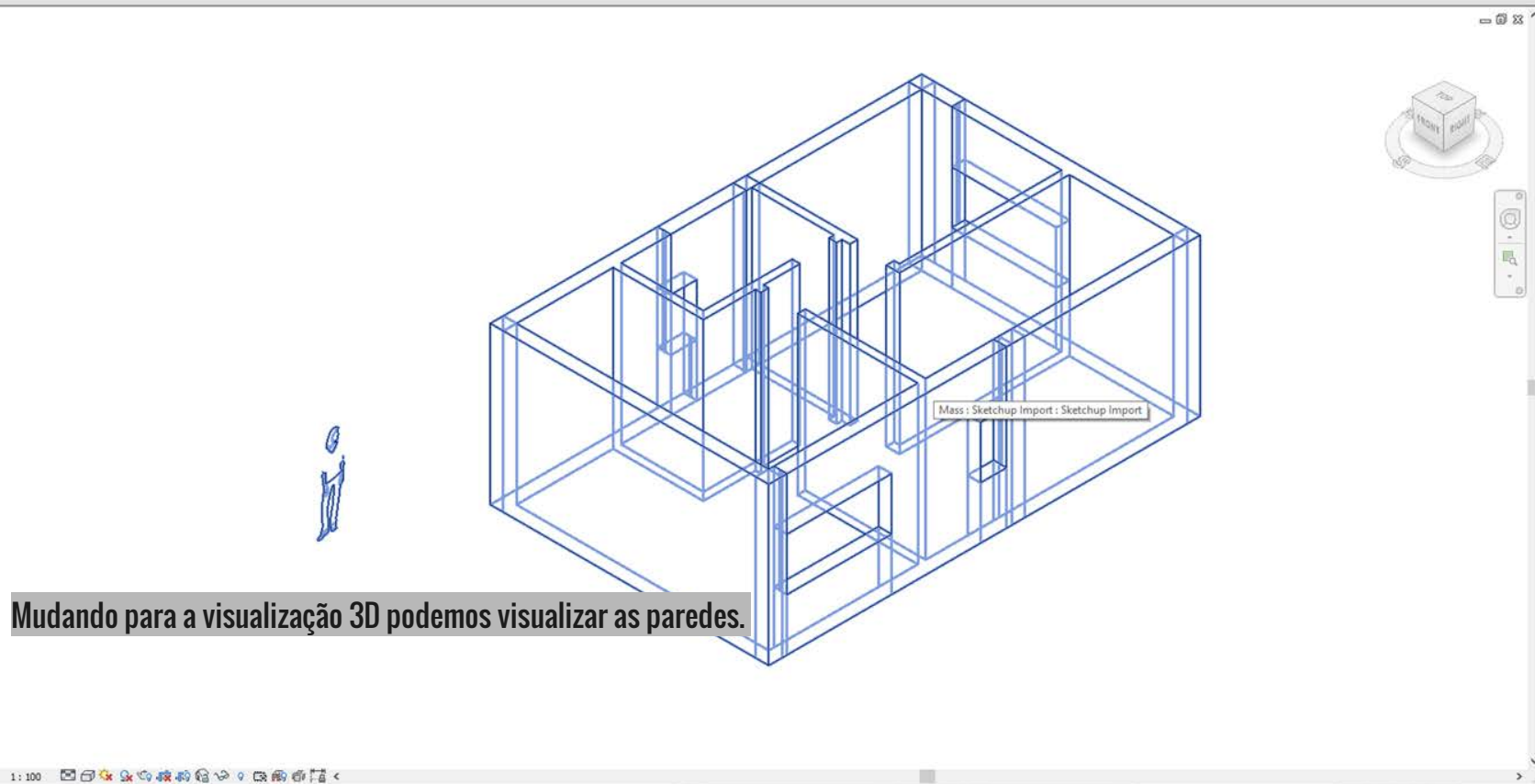
Crop Region Vi...

Annotation Crop

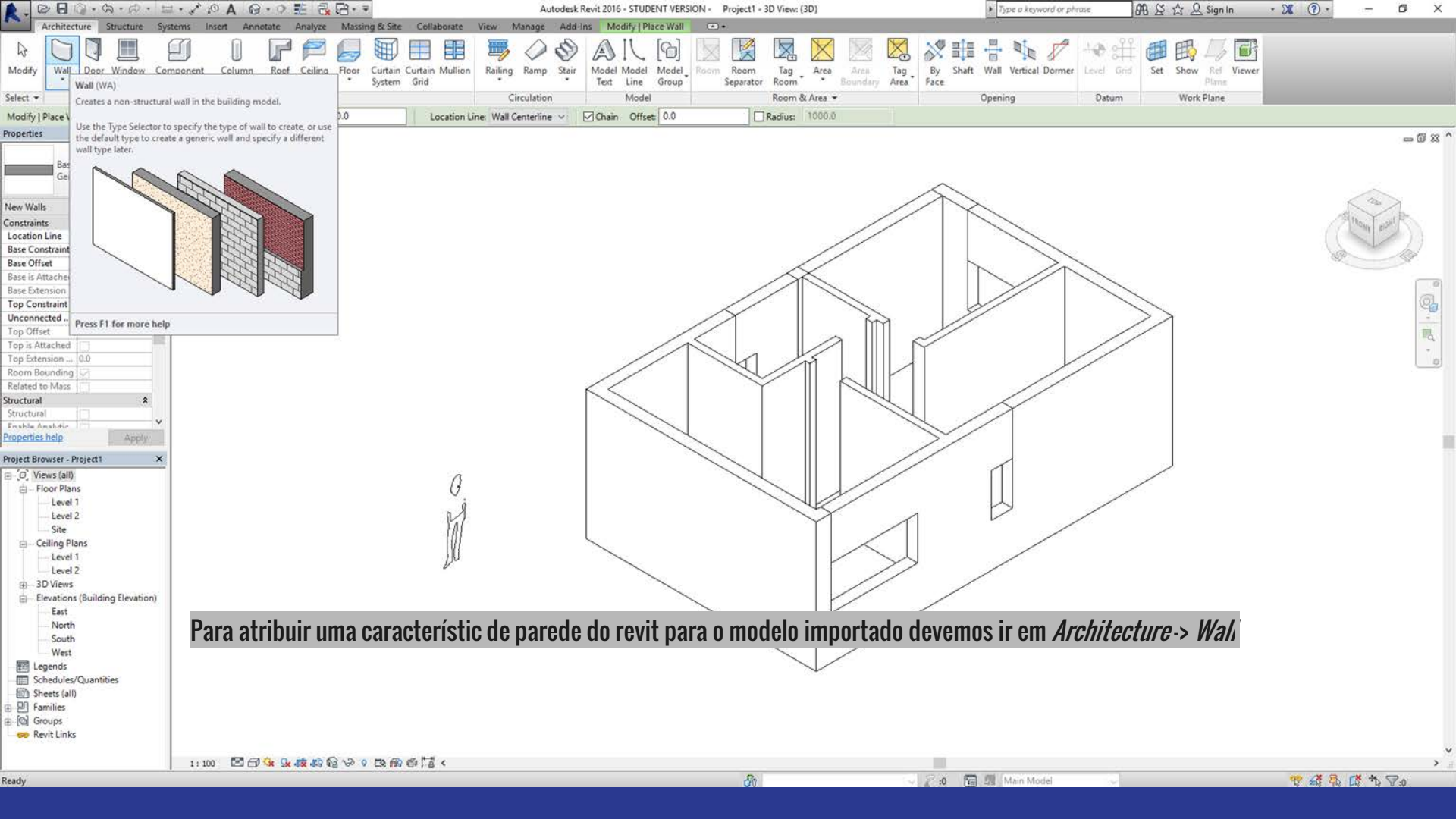
Apply

Project Browser - Project1

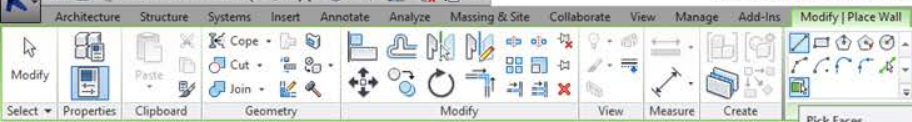
- Views (all)
- Floor Plans
 - Level 1
 - Level 2
 - Site
- Ceiling Plans
 - Level 1
 - Level 2
- 3D Views
- Elevations (Building Elevation)
 - East
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 - South
 - West
- Legends
- Schedules/Quantities
- Sheets (all)
- Families
- Groups
- Revit Links



Mudando para a visualização 3D podemos visualizar as paredes.



Para atribuir uma característica de parede do revit para o modelo importado devemos ir em *Architecture*-> *Wall*



Modify | Place Wall Level: Level 1 Height: 8000.0 Location Line: Wall Centerline

Properties

Basic Wall
Generic - 200mm

New Walls Edit Type

Constraints

Location Line Wall Centerline

Base Constraint Level 1

Base Offset 0.0

Base is Attached

Base Extension ... 0.0

Top Constraint Unconnected

Unconnected ... 8000.0

Top Offset 0.0

Top is Attached

Top Extension ... 0.0

Room Bounding

Related to Mass

Structural

Structural

Enable Annotate

Properties help Apply

Project Browser - Project1

Views (all)

Floor Plans

Level 1

Level 2

Site

Ceiling Plans

Level 1

Level 2

3D Views

Elevations (Building Elevation)

East

North

South

West

Legends

Schedules/Quantities

Sheets (all)

Families

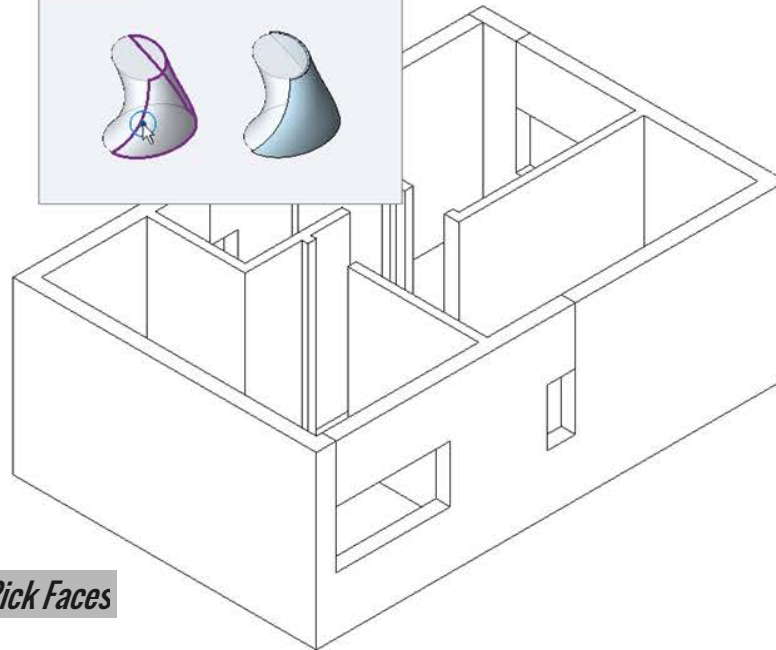
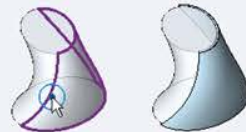
Groups

Revit Links

Pick Faces

Creates walls using faces of a mass or generic model.

If you change the mass face, walls created using the Wall by Face tool do not automatically update. To update the wall, select it and click Update to Face.



Após selecionar a opção *wal*, clicar em *Pick Faces*



Properties

Basic Wall
Generic - 200mm

New Walls

Constraints

Location Line Finish Face: E...

Base Constraint Level 1

Base Offset 0,0

Base is Attached

Base Extension ... 0,0

Top Constraint Unconnected

Unconnected ... 4000,0

Top Offset 0,0

Top is Attached

Top Extension ... 0,0

Room Bounding

Related to Mass

Structural

Structural

Enable Analysis

Properties help

Apply

Project Browser - Project1

Views (all)

Floor Plans

Level 1

Level 2

Site

Ceiling Plans

Level 1

Level 2

3D Views

Elevations (Building Elevation)

East

North

South

West

Legends

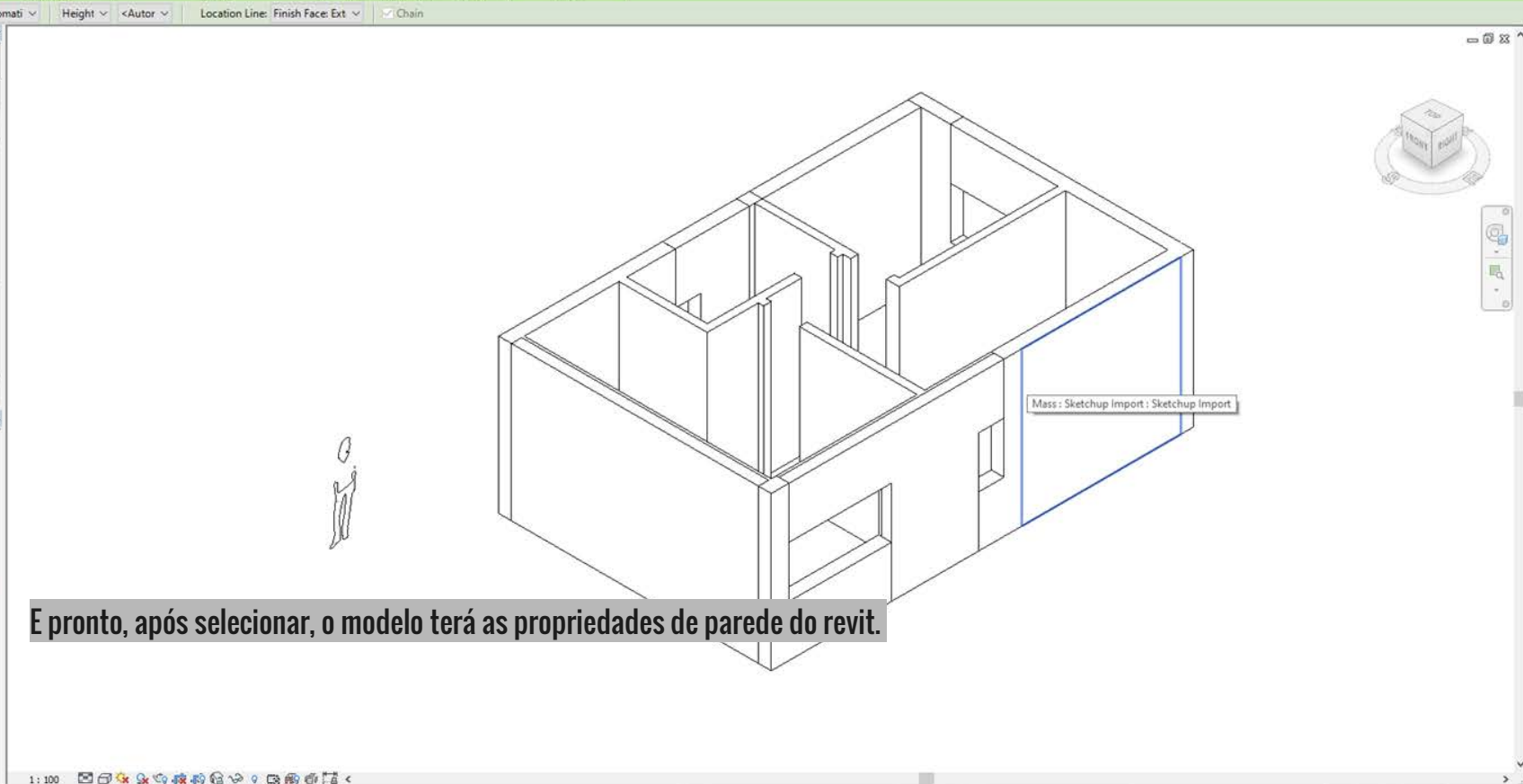
Schedules/Quantities

Sheets (all)

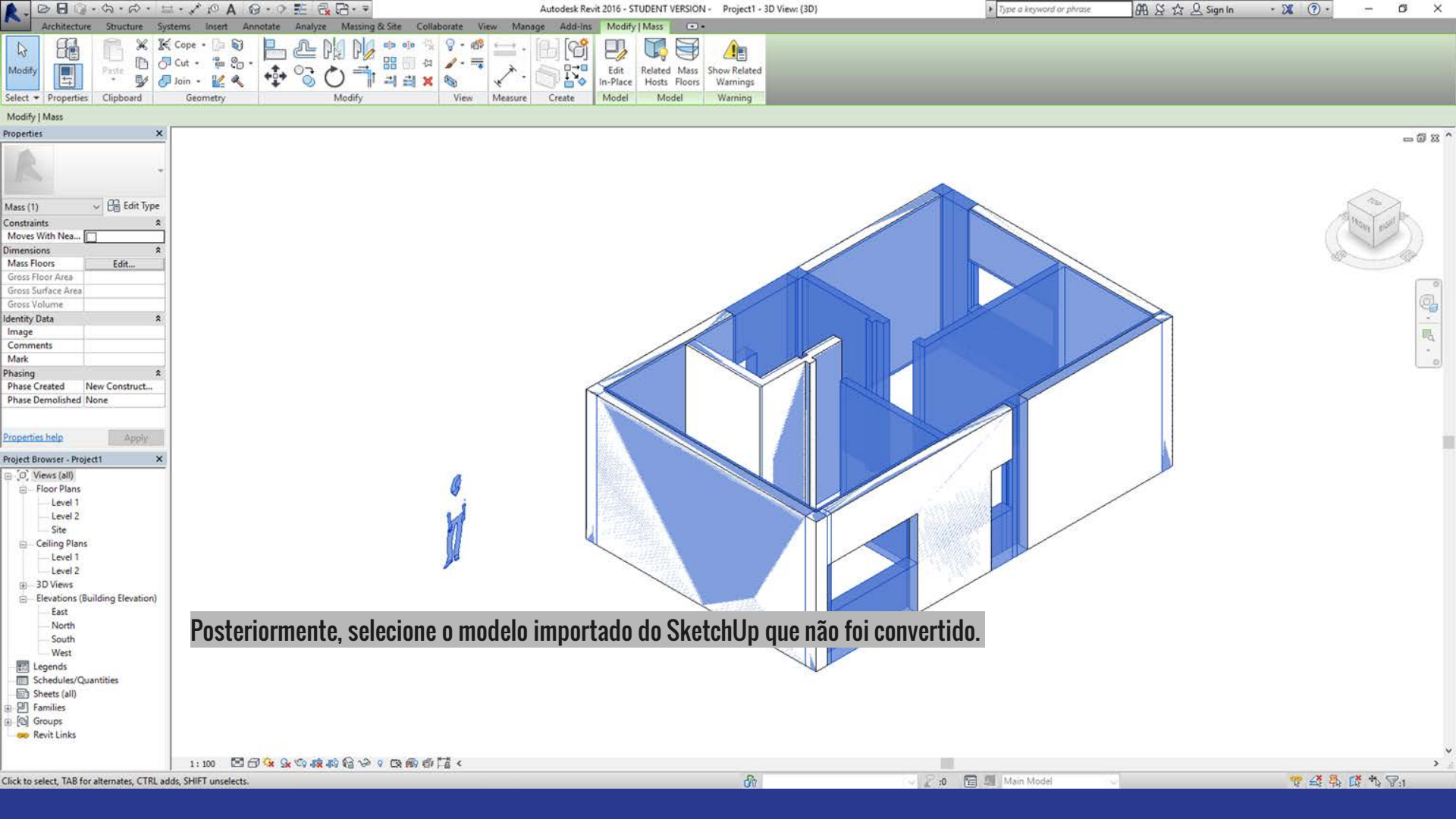
Families

Groups

Revit Links



E pronto, após selecionar, o modelo terá as propriedades de parede do revit.



Posteriormente, selecione o modelo importado do SketchUp que não foi convertido.



Modify | Mass

Properties

Mass (1) Edit Type

Constraints
Moves With Nea...

Dimensions
Mass Floors Edit...

Gross Floor Area
Gross Surface Area
Gross Volume

Identity Data
Image
Comments
Mark

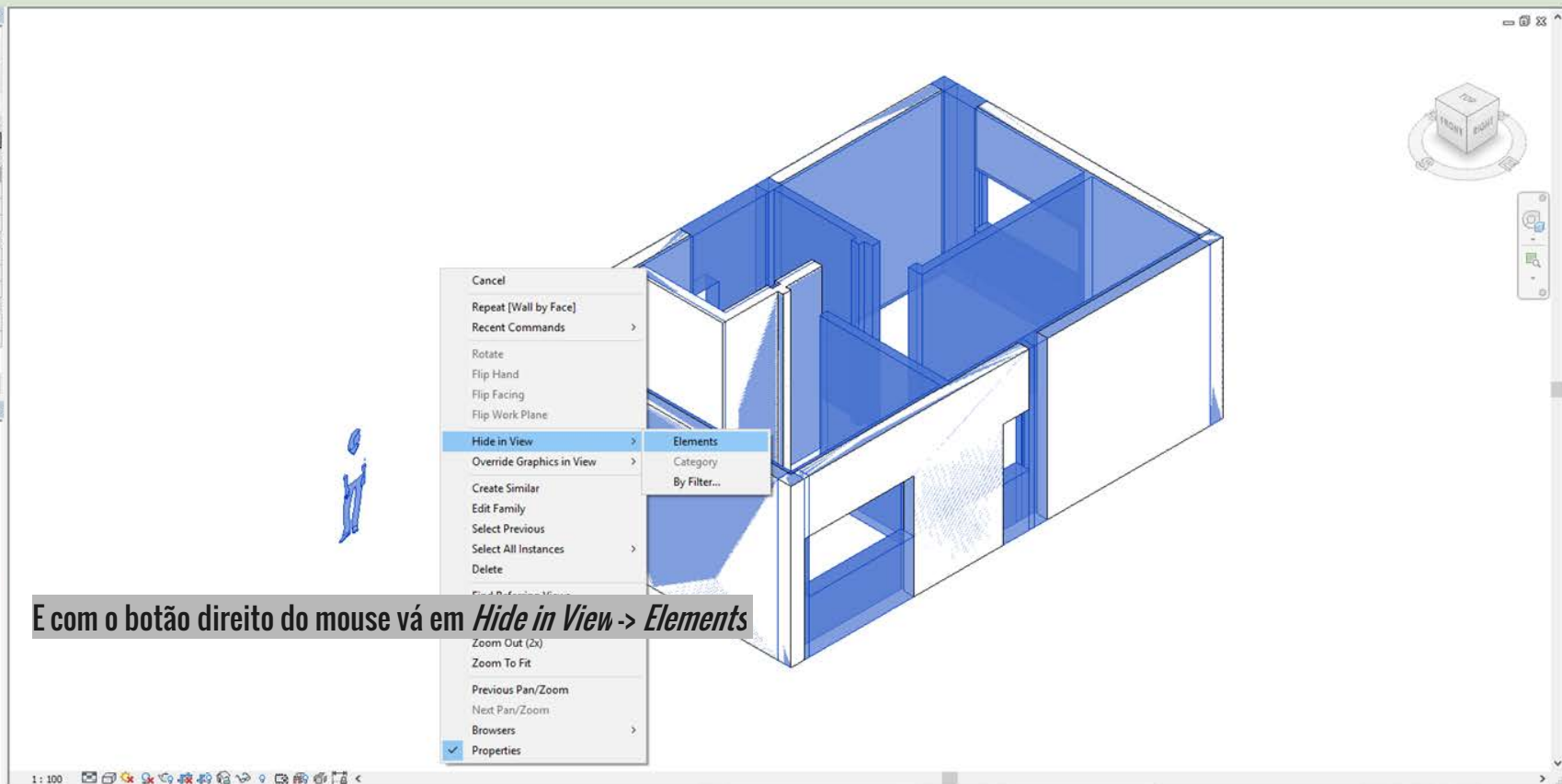
Phasing
Phase Created New Construct...
Phase Demolished None

Properties help Apply

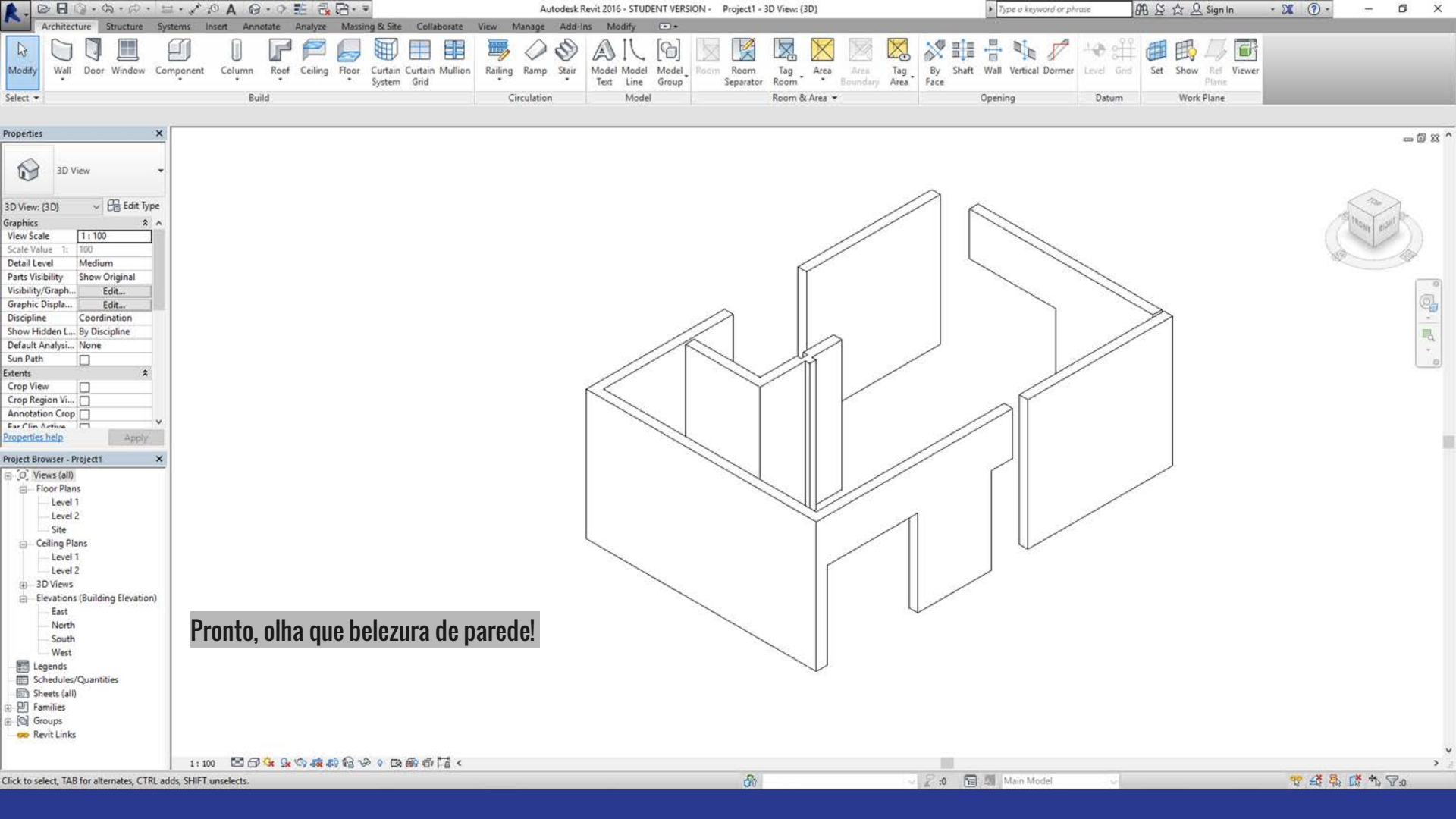
Project Browser - Project1

Views (all)

- Floor Plans
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E com o botão direito do mouse vá em **Hide in View -> Elements**



Architecture Structure Systems Insert Annotate Analyze Massing & Site Collaborate View Manage Add-Ins Modify

Modify Wall Door Window Component Column Roof Ceiling Floor Curtain System Mullion Railing Ramp Stair Model Model Text Model Group Room Room Separator Tag Room Area Area Boundary Tag Area By Face Shaft Wall Vertical Dormer Level Grid Set Show Ref Plane Viewer

Select Build Circulation Model Room & Area Opening Datum Work Plane

Properties 3D View

3D View: (3D) Edit Type

Graphics

View Scale 1:100

Scale Value 1: 100

Detail Level Medium

Parts Visibility Show Original

Visibility/Graph... Edit...

Graphic Displa... Edit...

Discipline Coordination

Show Hidden L... By Discipline

Default Analyti... None

Sun Path

Extents

Crop View

Crop Region Vi...

Annotation Crop

Properties help Apply

Project Browser - Project1

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Pronto, olha que beleza de parede!