三里屯另外一个项目中在立面设计过程中使用概念体量及图案式幕墙嵌板族创建

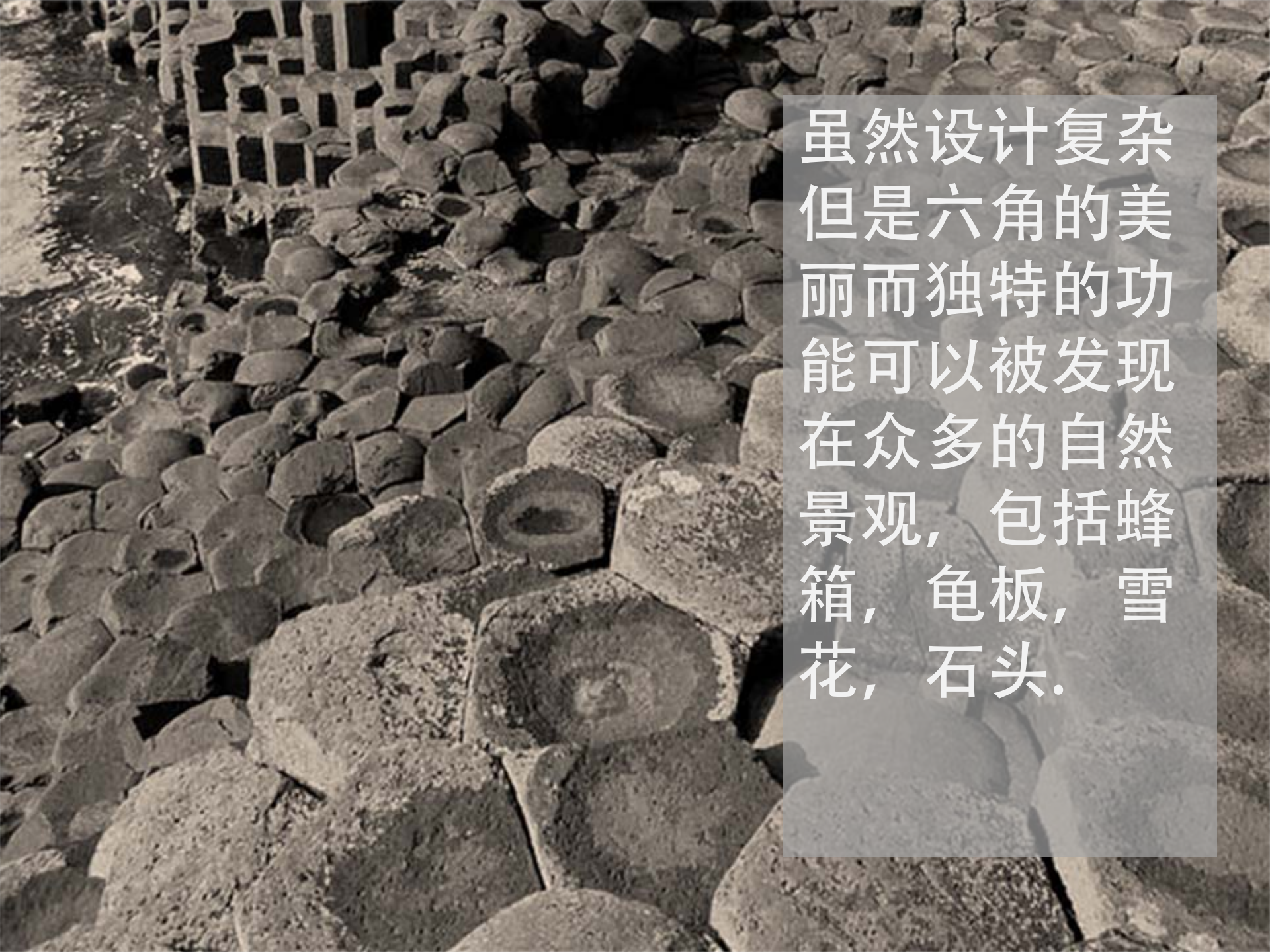
CONCEPTUAL MASS

PATTERN BASE PANEL

HOK 2007-2010 项目

立面设计要求创建特色得六角形幕墙

HOK 2007-2010 项目



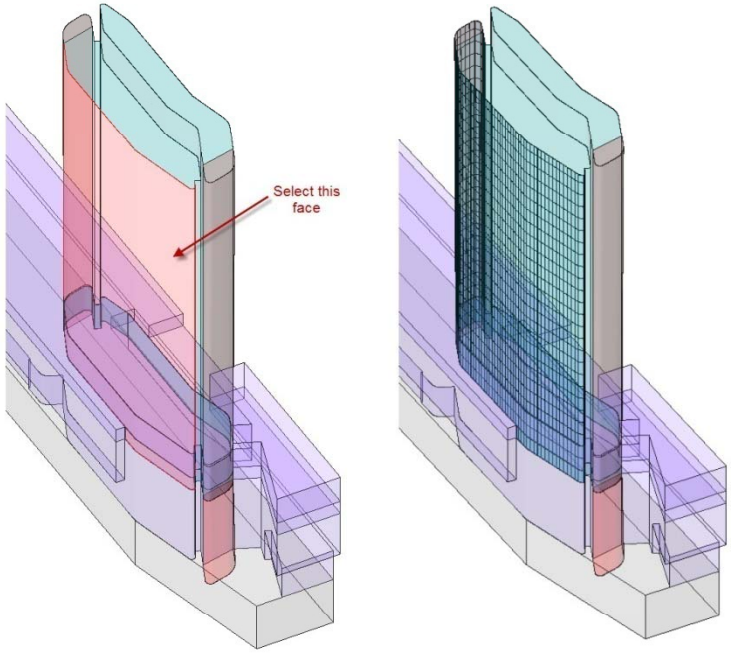
虽然设计复杂但是六角的美丽而独特的功能可以被发现在众多的自然景观，包括蜂箱，龟板，雪花，石头.

Curtain System by Face

Curtain System by Face

The first step is to make the Shell workset active.

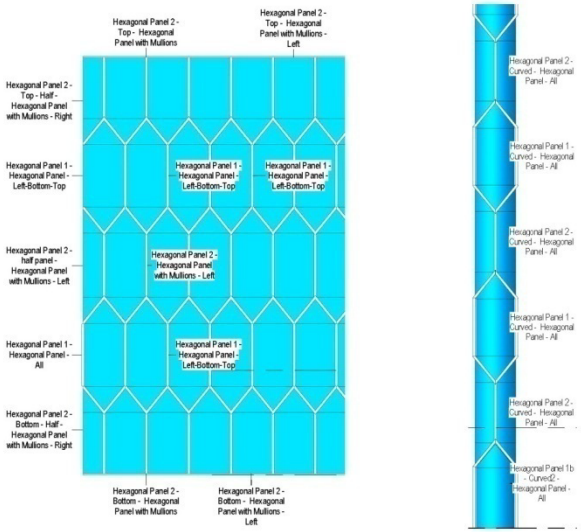
Select a surface to apply a curtain panel. Curtain System : 1625 x 4400mm . Create System.



It is best to create a face for each system. This takes a bit longer, but you will have more visibility control of the curtain systems. Also, you may need to put the different parts of the curtain systems on different worksets. This will allow you to have more control of the display. The model contains worksets for Shell, Shell - Back, and Shell - Front. This naming convention follows the views in 3D in the project.

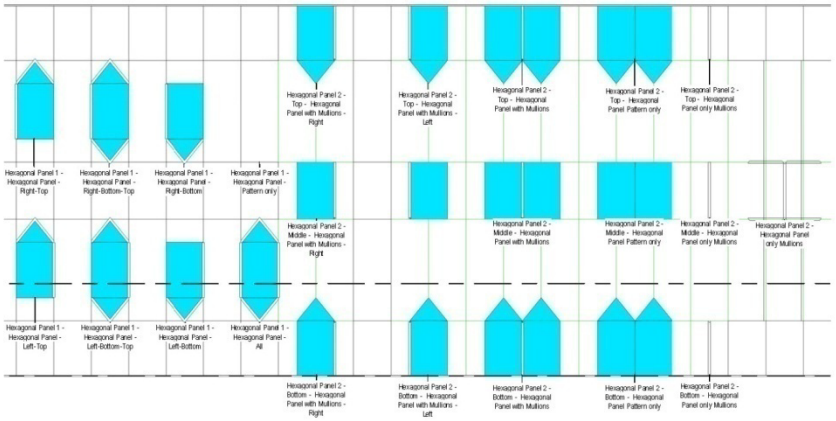
The following pages describe how to edit the curtain grids and apply custom panels to achieve a hexagonal panel appearance.

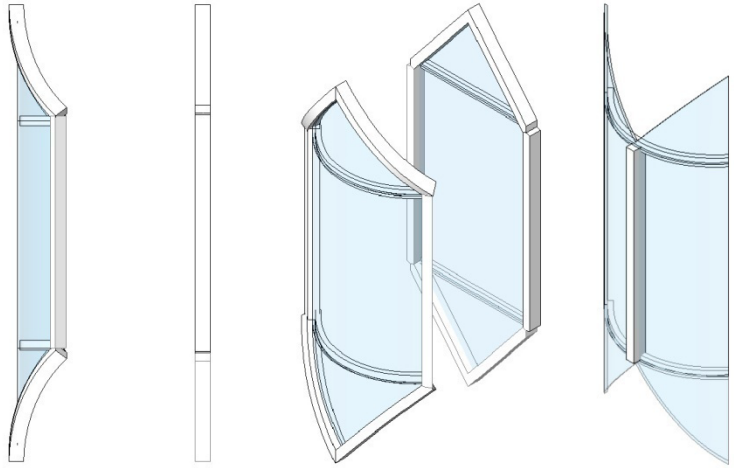
Revit2010之前，我们使用‘幕墙系统’CURTAIN WALL PANEL建立面



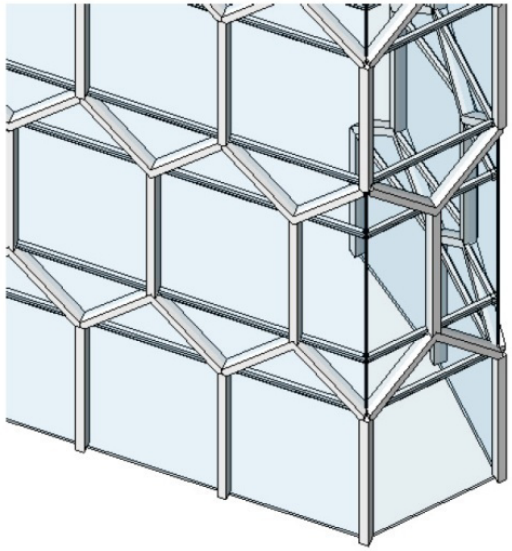
The view on the left specifies the panels to use to achieve a hexagonal appearance. This is a modified system of the panels viewed previously and demonstrates the process of building simple families in the beginning of the project, and later adding more levels of detail or refining as needed.

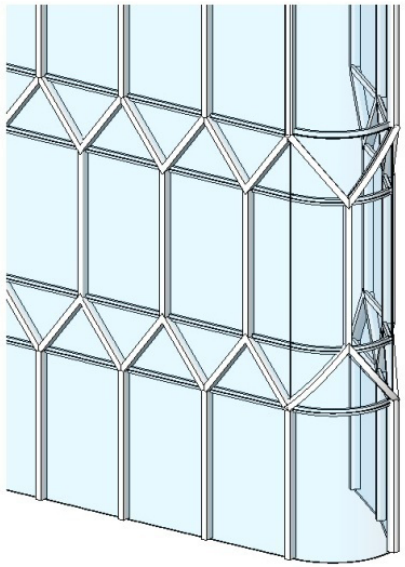
The panels have two levels of detail. Coarse detail level shows line work and panels. The medium and fine detail are meant to show mullions and panels. The coarse detail is ideal for elevations where mullions may become distracting.



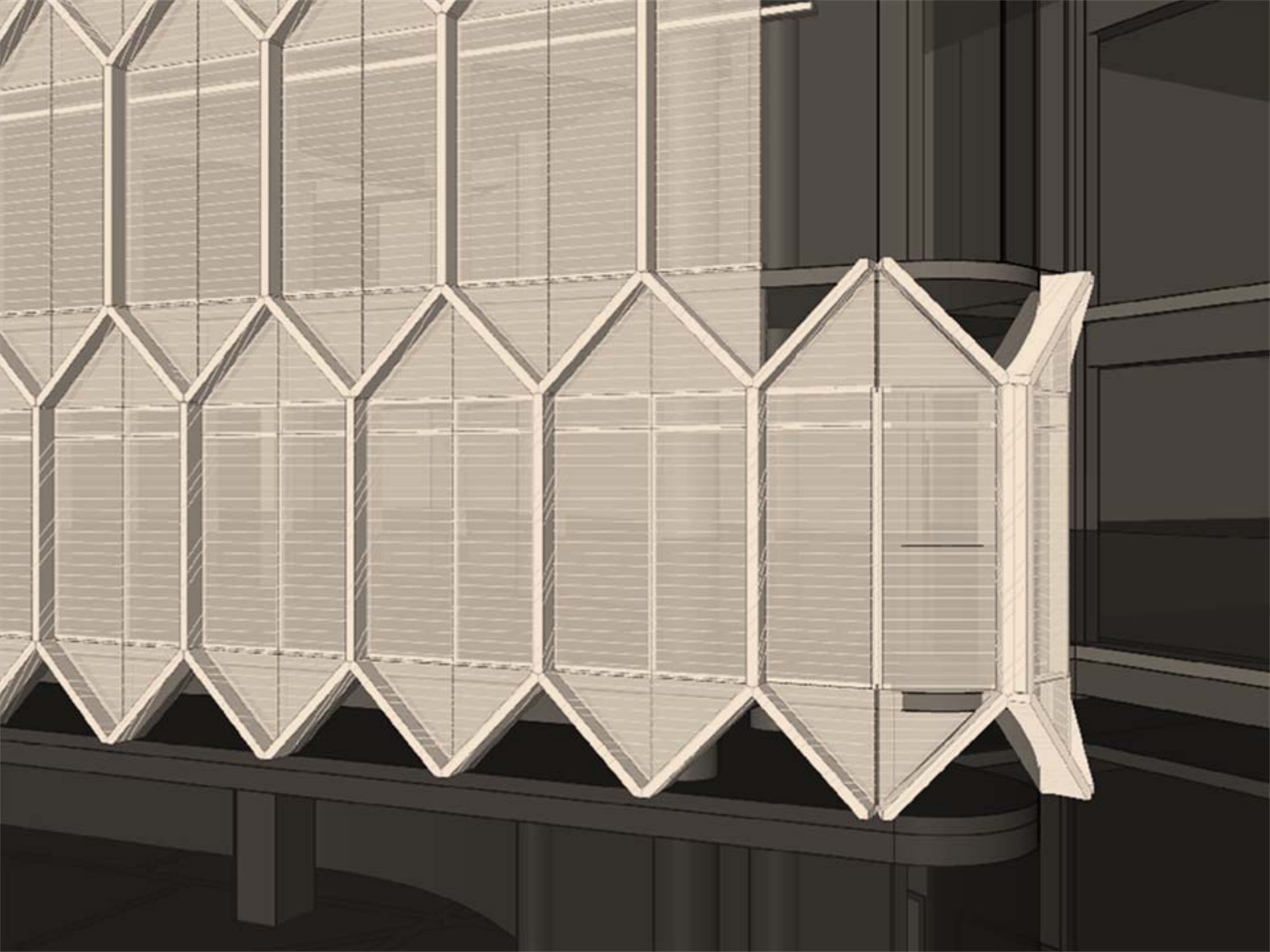


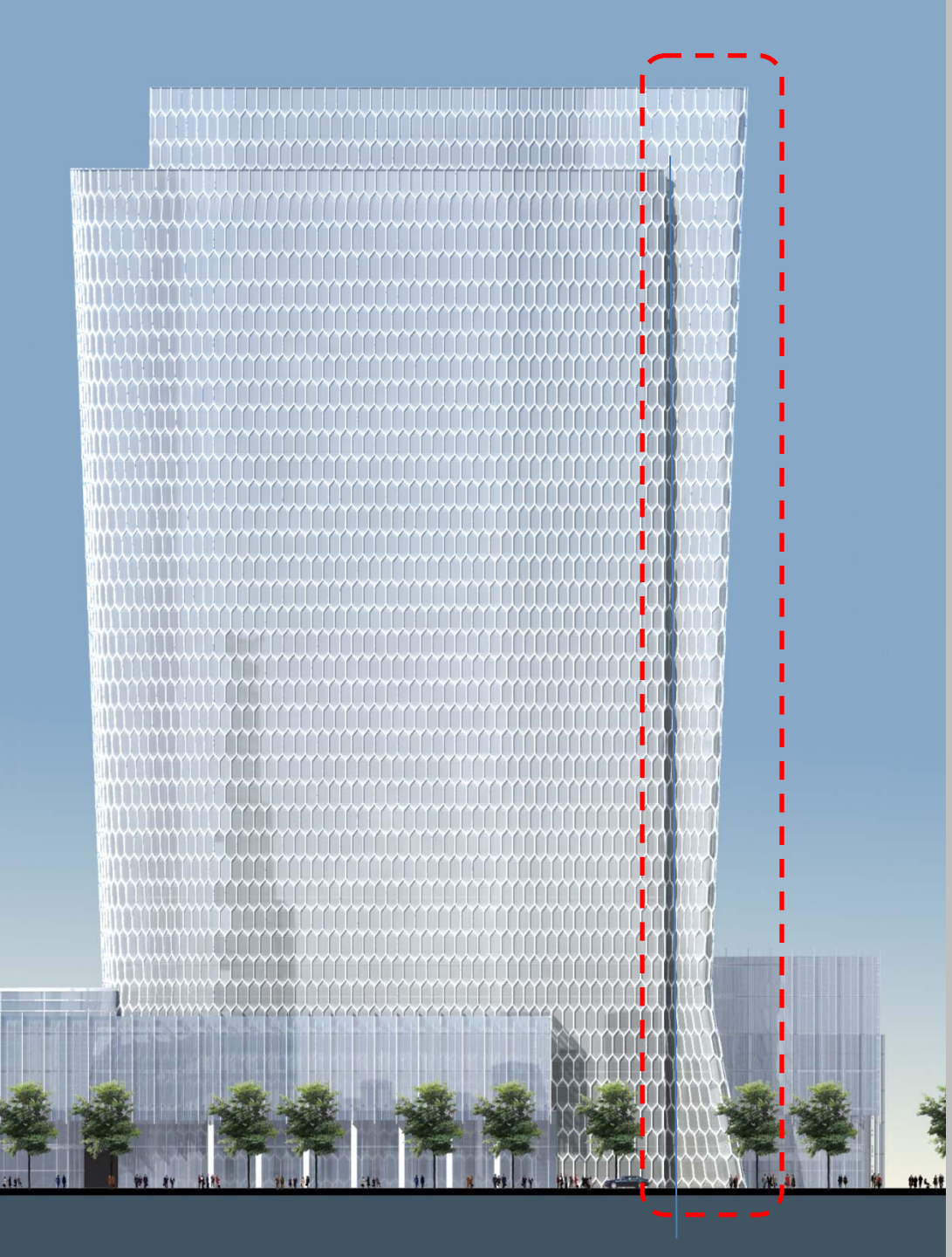
This illustration shows the difference between a straight panel and curved panel.



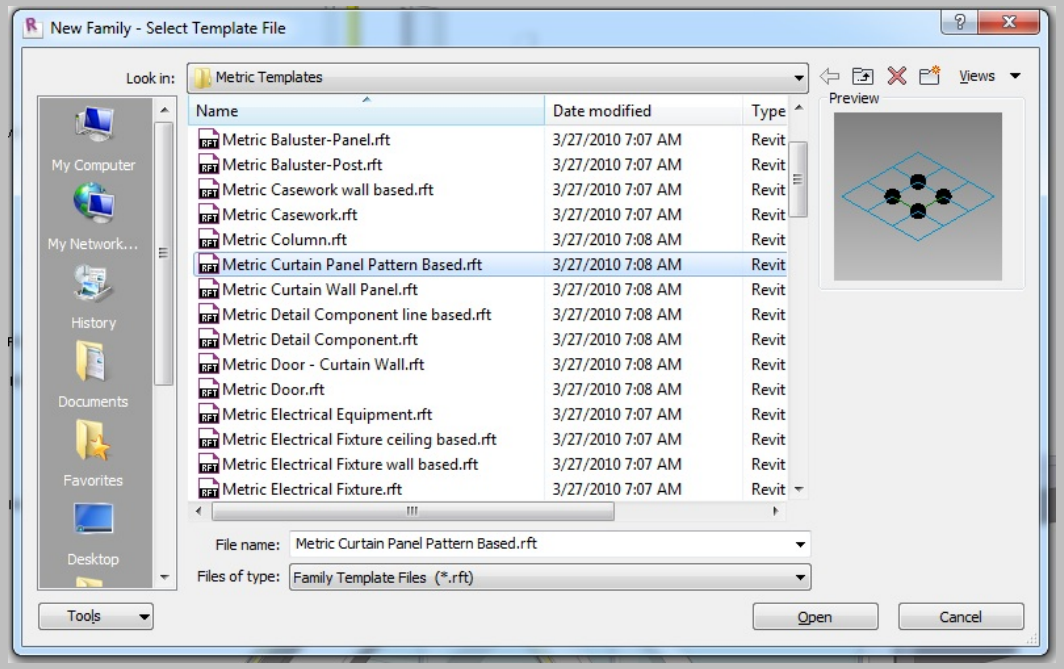


There are two ways of dealing with the curved area of the mass. The view of the left shows a typica straight panel The view on the Right shows the same curtain system with a curved panel.

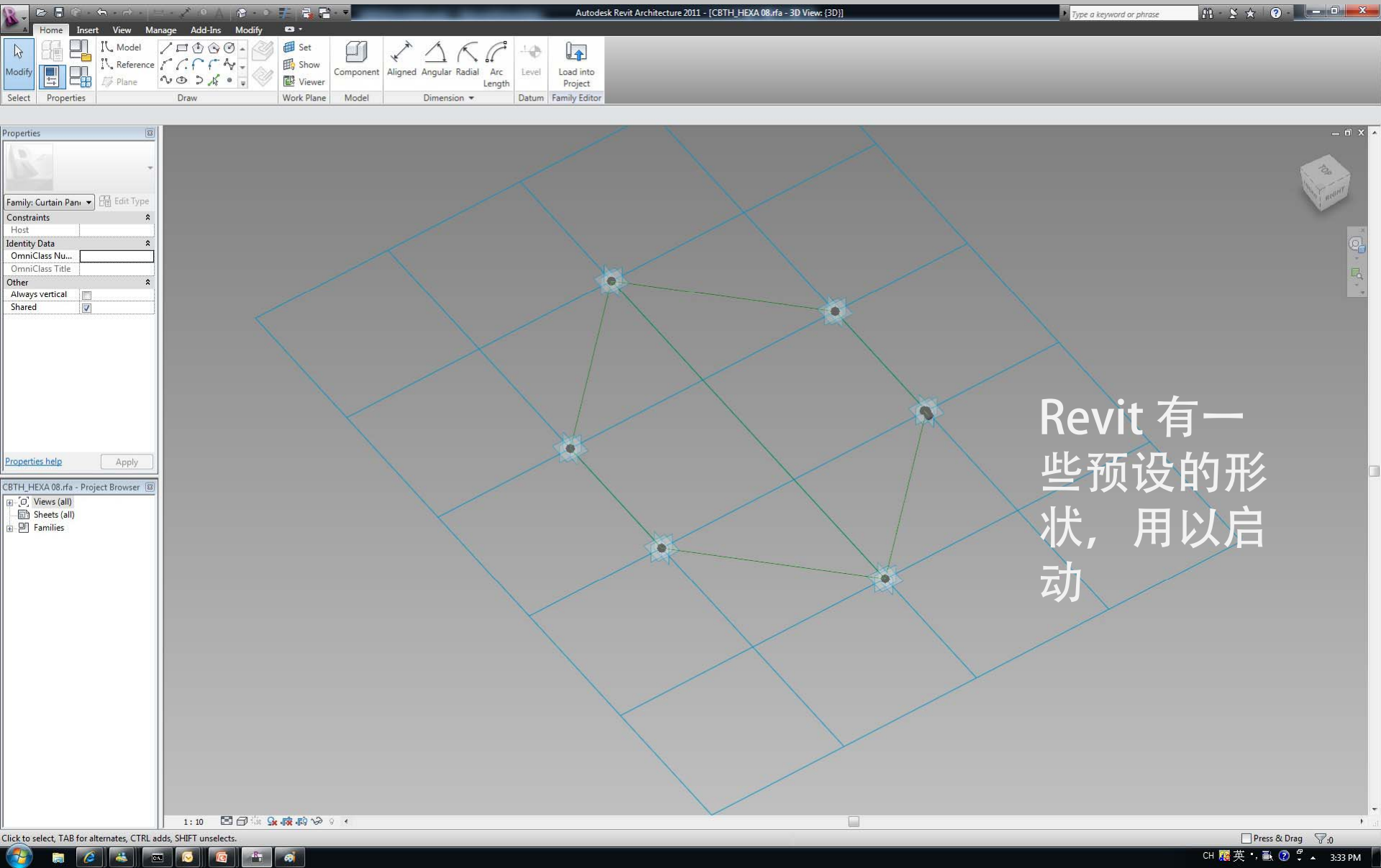


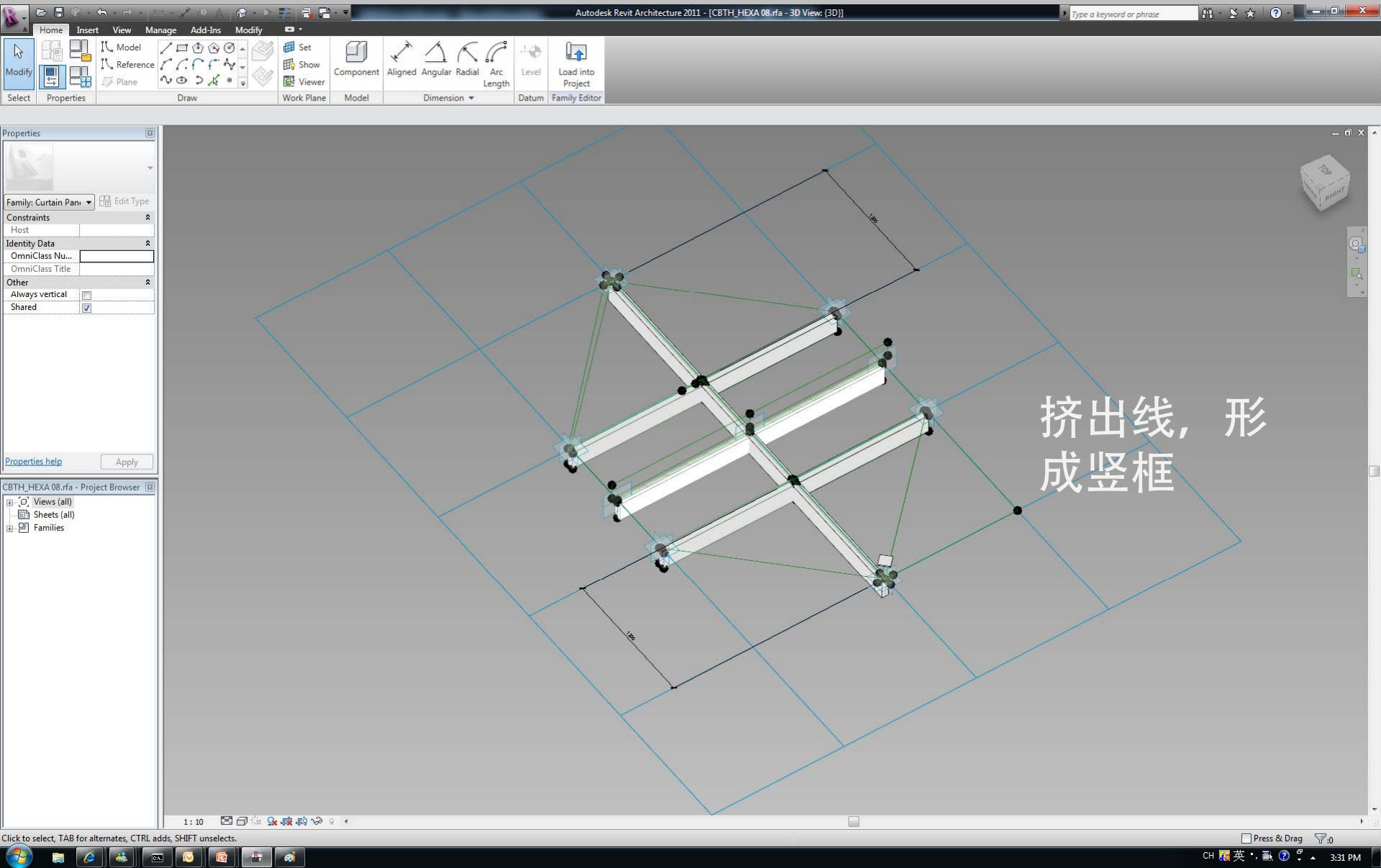


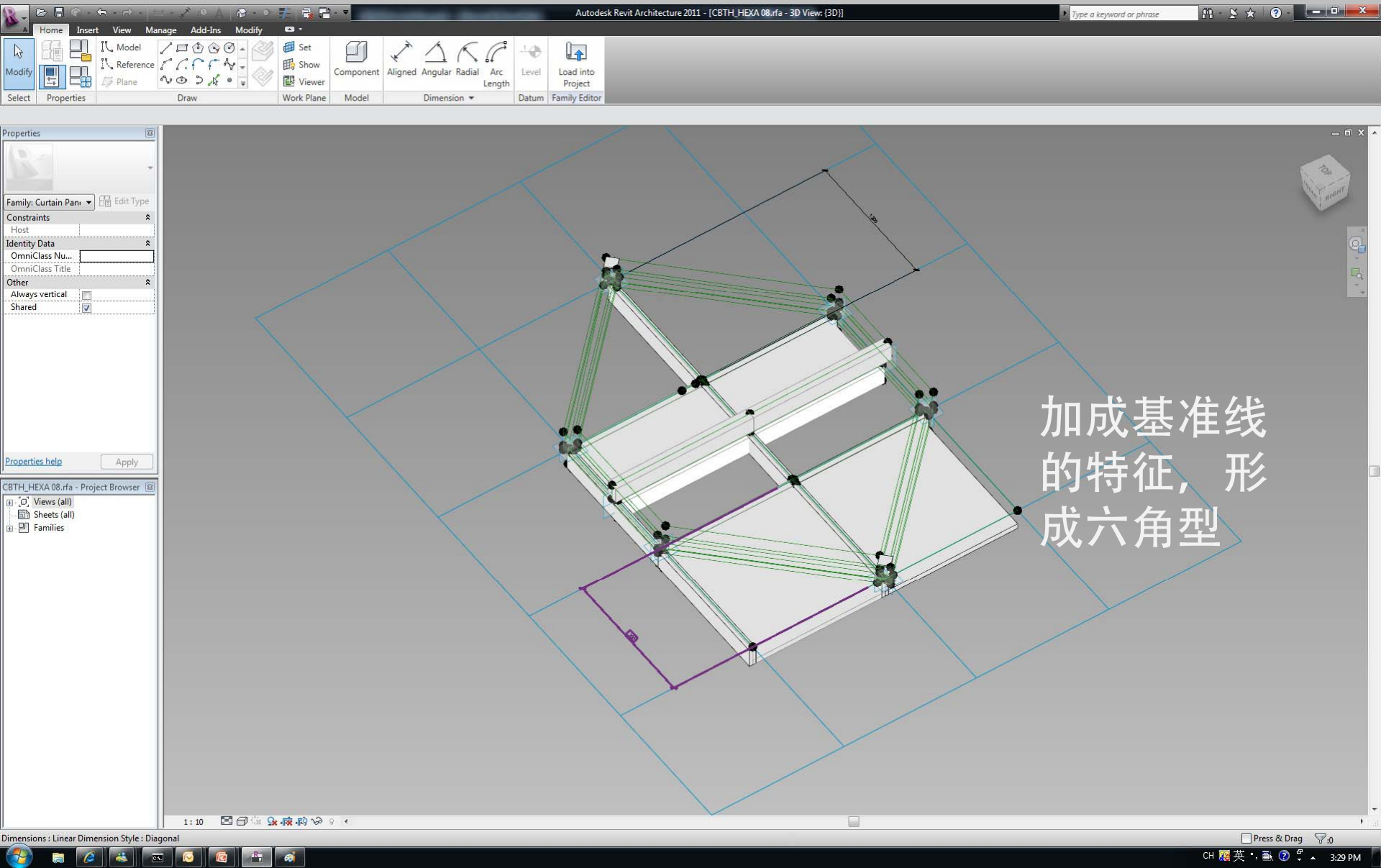
我们最大的挑战发生在北部角落立面倾斜前进的双弧部分

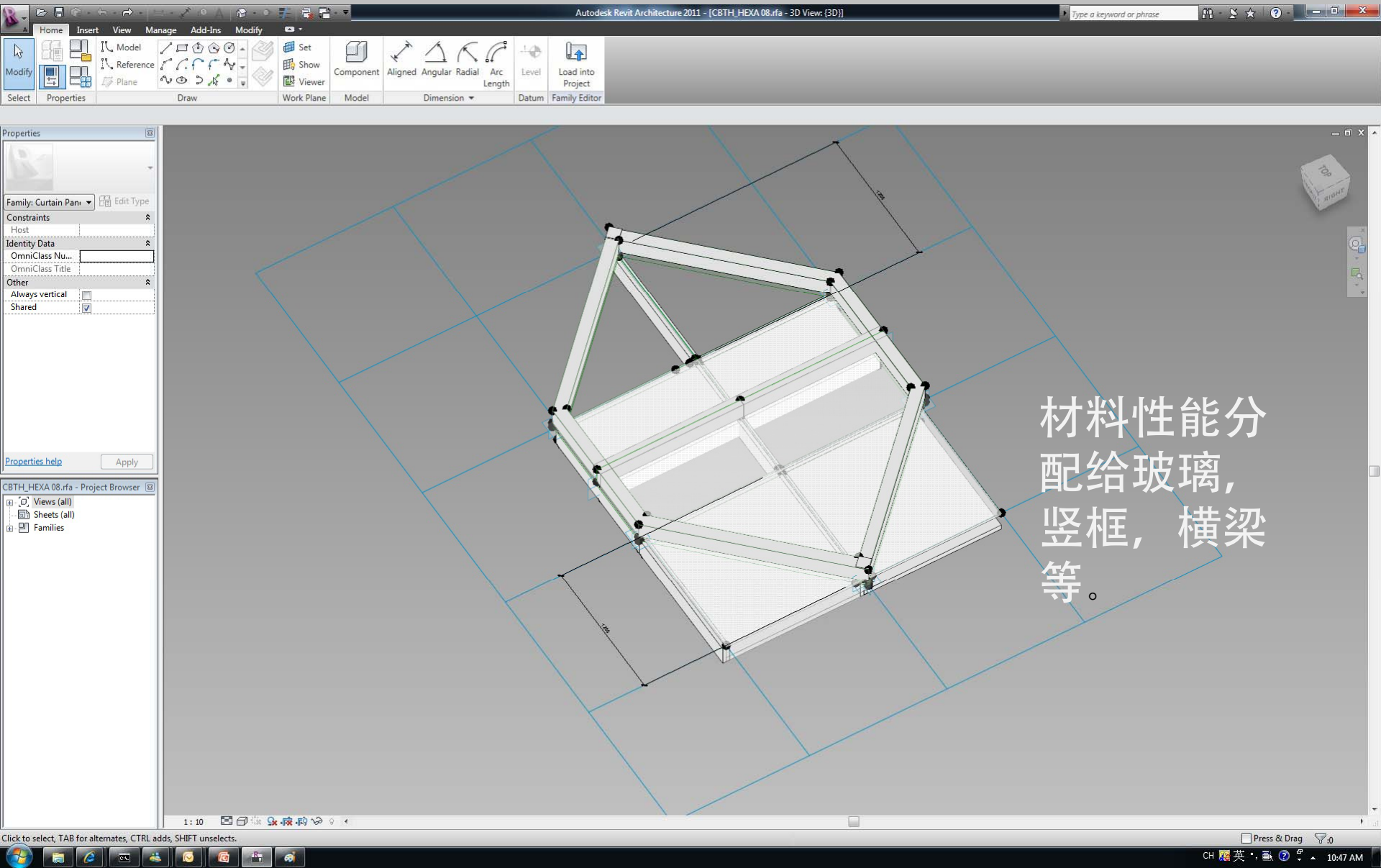


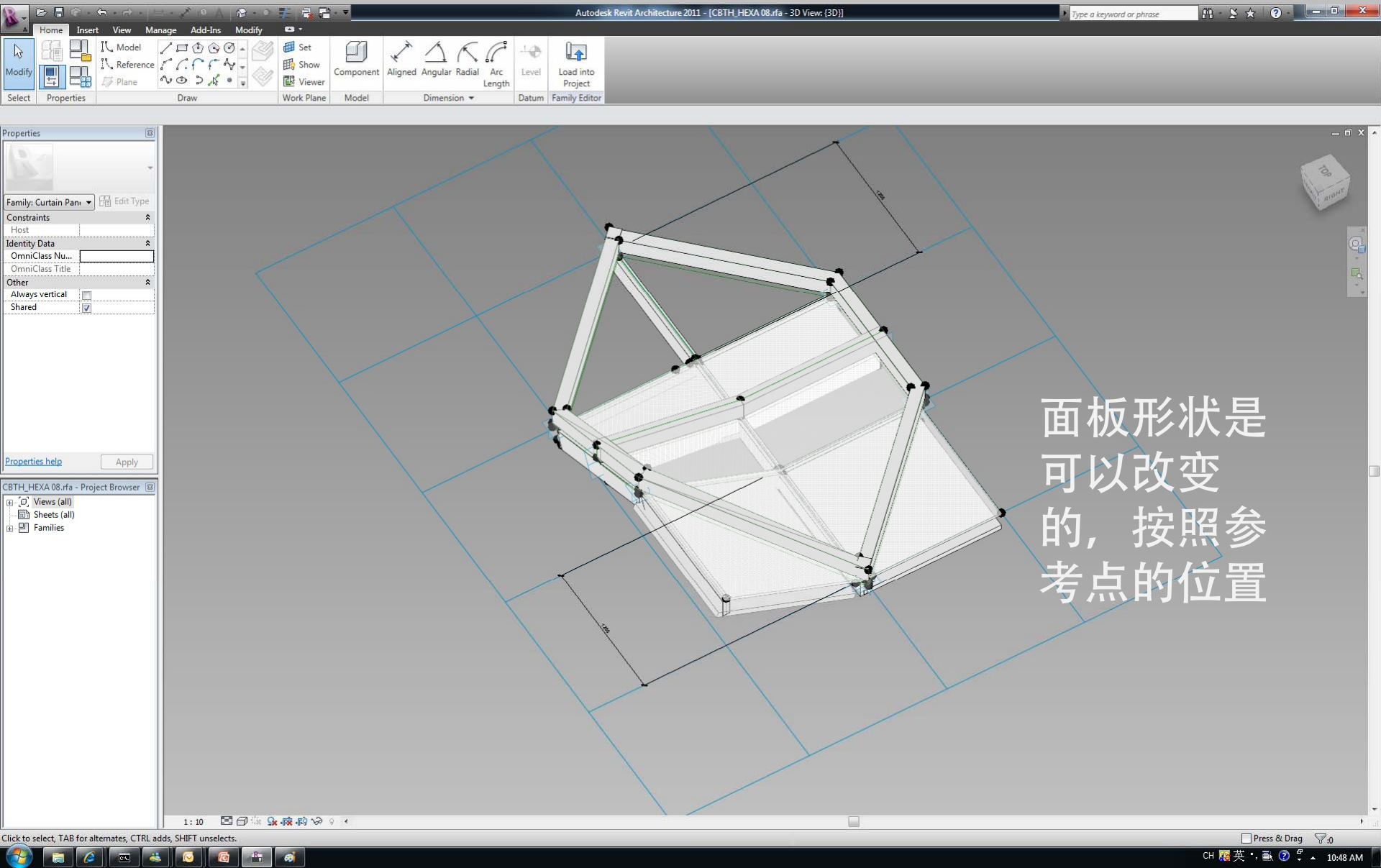
然后，Revit 2011年引进的图案式幕墙嵌板族创建组，帮助建立一个非线性表面六角墙板

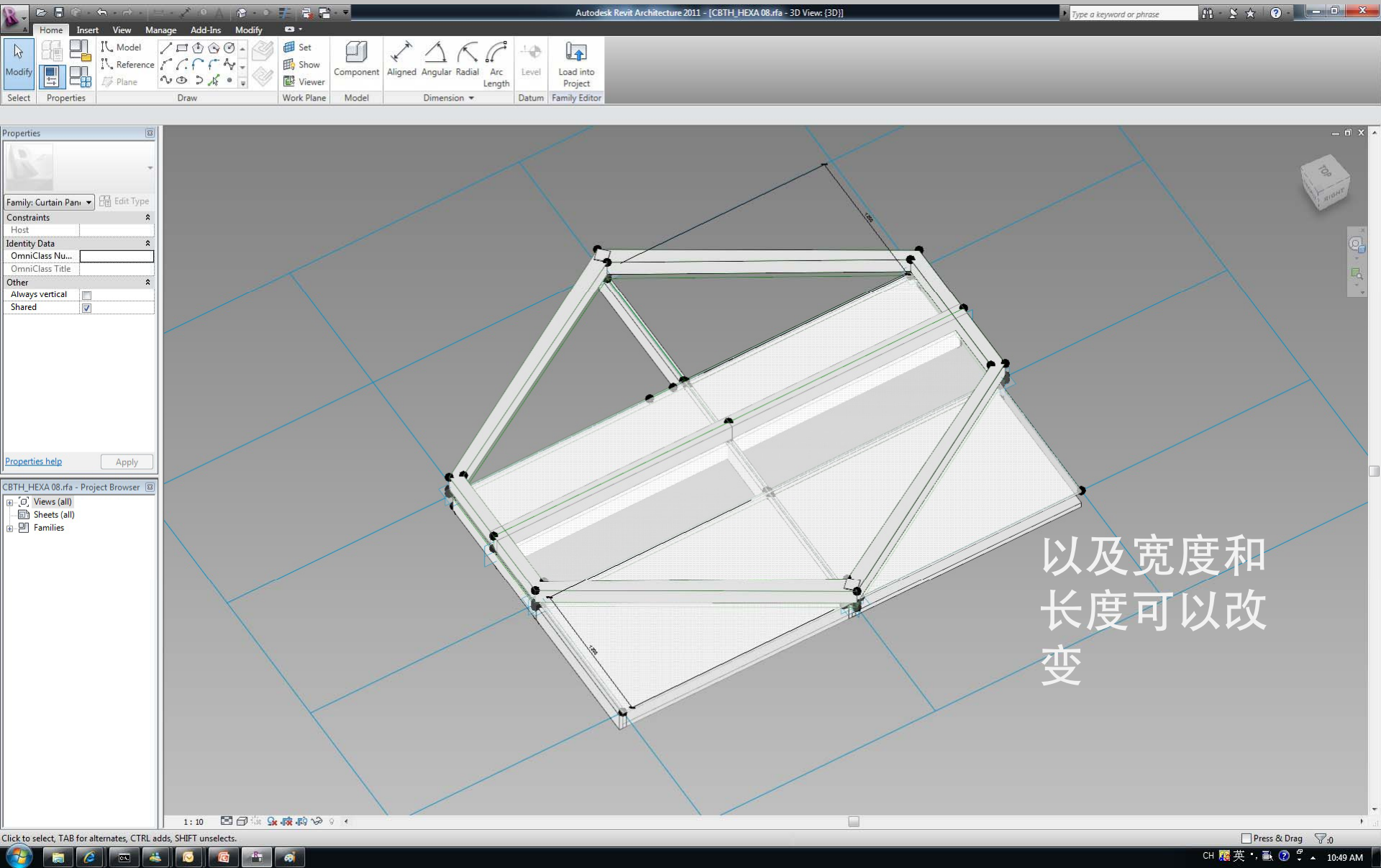

Autodesk Revit Architecture 2011 - [CBTH_HEXA 08.rfa - 3D View: {3D}]
Type a keyword or phrase
Home
Insert
View
Manage
Add-Ins
Modify
Modify
Model
Reference
Plane
Set
Show
Viewer
Component
Aligned
Angular
Radial
Arc Length
Level
Load into Project
Select
Properties
Draw
Work Plane
Model
Dimension
Datum
Family Editor
Properties
Family: Curtain Pane
Edit Type
Constraints
Host
Identity Data
OmniClass Nu...
OmniClass Title
Other
Always vertical
Shared
Properties help
Apply
CBTH_HEXA 08.rfa - Project Browser
Views (all)
Sheets (all)
Families
TOP
RIGHT
Revit 有一些预设的形状，用以启动
1 : 10
Click to select, TAB for alternates, CTRL adds, SHIFT unselects.
Press & Drag
:0
CH
英
3:33 PM

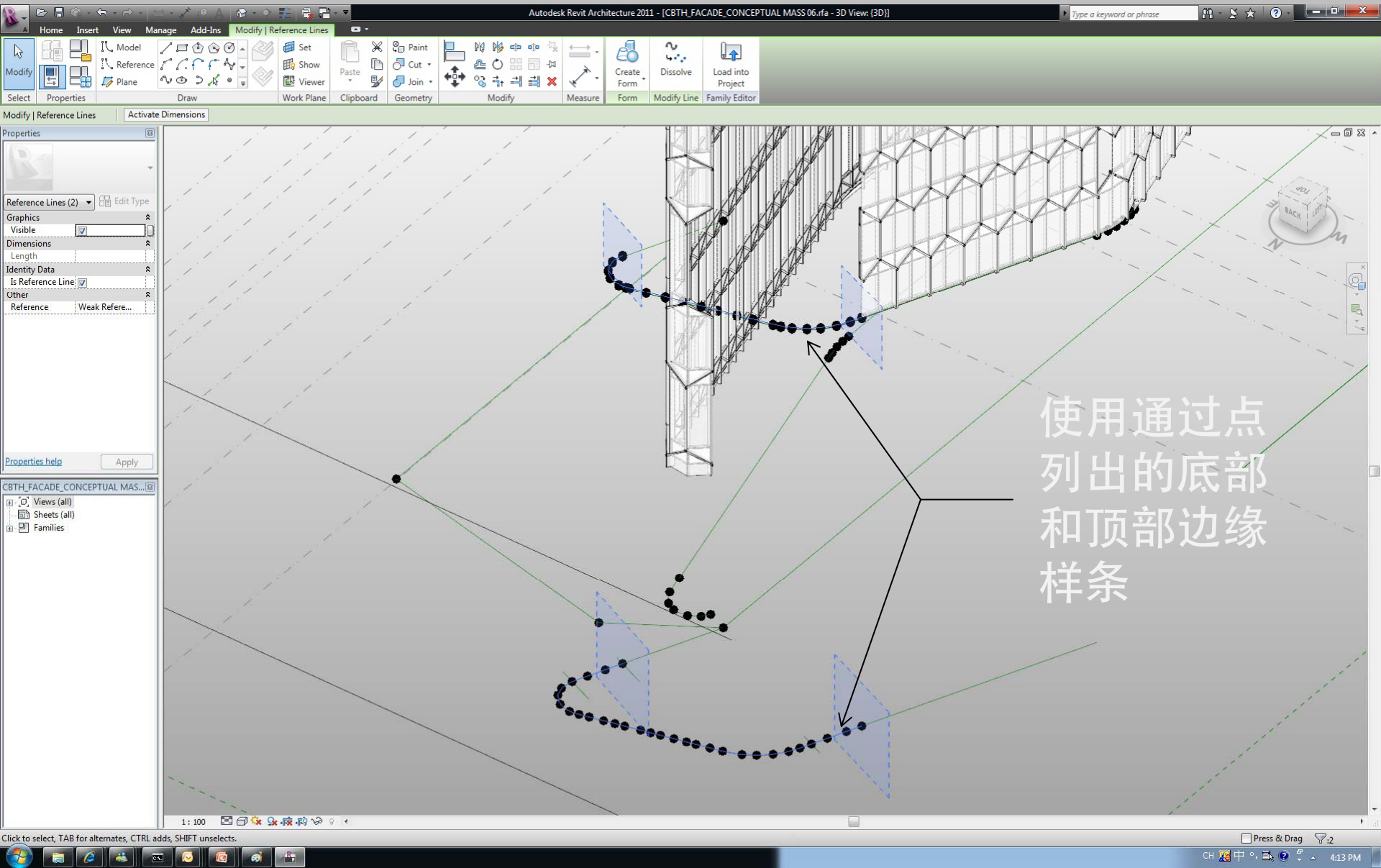

Autodesk Revit Architecture 2011 - [CBTH_HEXA 08.rfa - 3D View: {3D}]
Type a keyword or phrase
Home
Insert
View
Manage
Add-Ins
Modify
Modify
Model
Reference
Plane
Set
Show
Viewer
Component
Aligned
Angular
Radial
Arc Length
Level
Load into Project
Select
Properties
Draw
Work Plane
Model
Dimension
Datum
Family Editor
Properties
Family: Curtain Pane
Edit Type
Constraints
Host
Identity Data
OmniClass Nu...
OmniClass Title
Other
Always vertical
Shared
Properties help
Apply
CBTH_HEXA 08.rfa - Project Browser
Views (all)
Sheets (all)
Families
挤出线，形成竖框
1 : 10
Click to select, TAB for alternates, CTRL adds, SHIFT unselects.
Press & Drag
3:31 PM

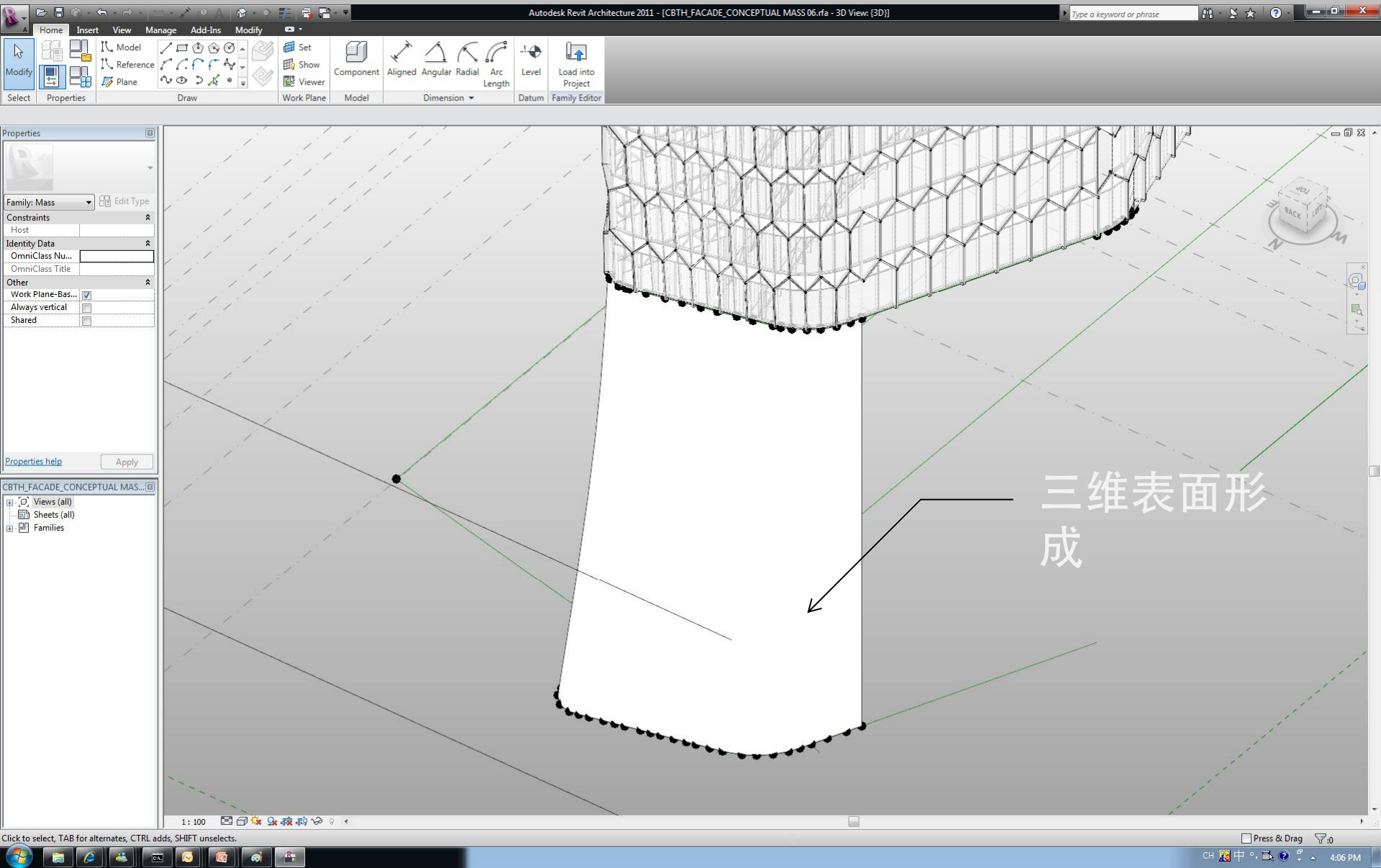

Autodesk Revit Architecture 2011 - [CBTH_HEXA 08.rfa - 3D View: {3D}]
Type a keyword or phrase
Home
Insert
View
Manage
Add-Ins
Modify
Modify
Model
Reference
Plane
Set
Show
Viewer
Component
Aligned
Angular
Radial
Arc Length
Level
Load into Project
Select
Properties
Draw
Work Plane
Model
Dimension
Datum
Family Editor
Properties
Family: Curtain Pane
Edit Type
Constraints
Host
Identity Data
OmniClass Nu...
OmniClass Title
Other
Always vertical
Shared
Properties help
Apply
CBTH_HEXA 08.rfa - Project Browser
Views (all)
Sheets (all)
Families
加成基准线的特征，形成六角型
1 : 10
Dimensions : Linear Dimension Style : Diagonal
Press & Drag
3:29 PM

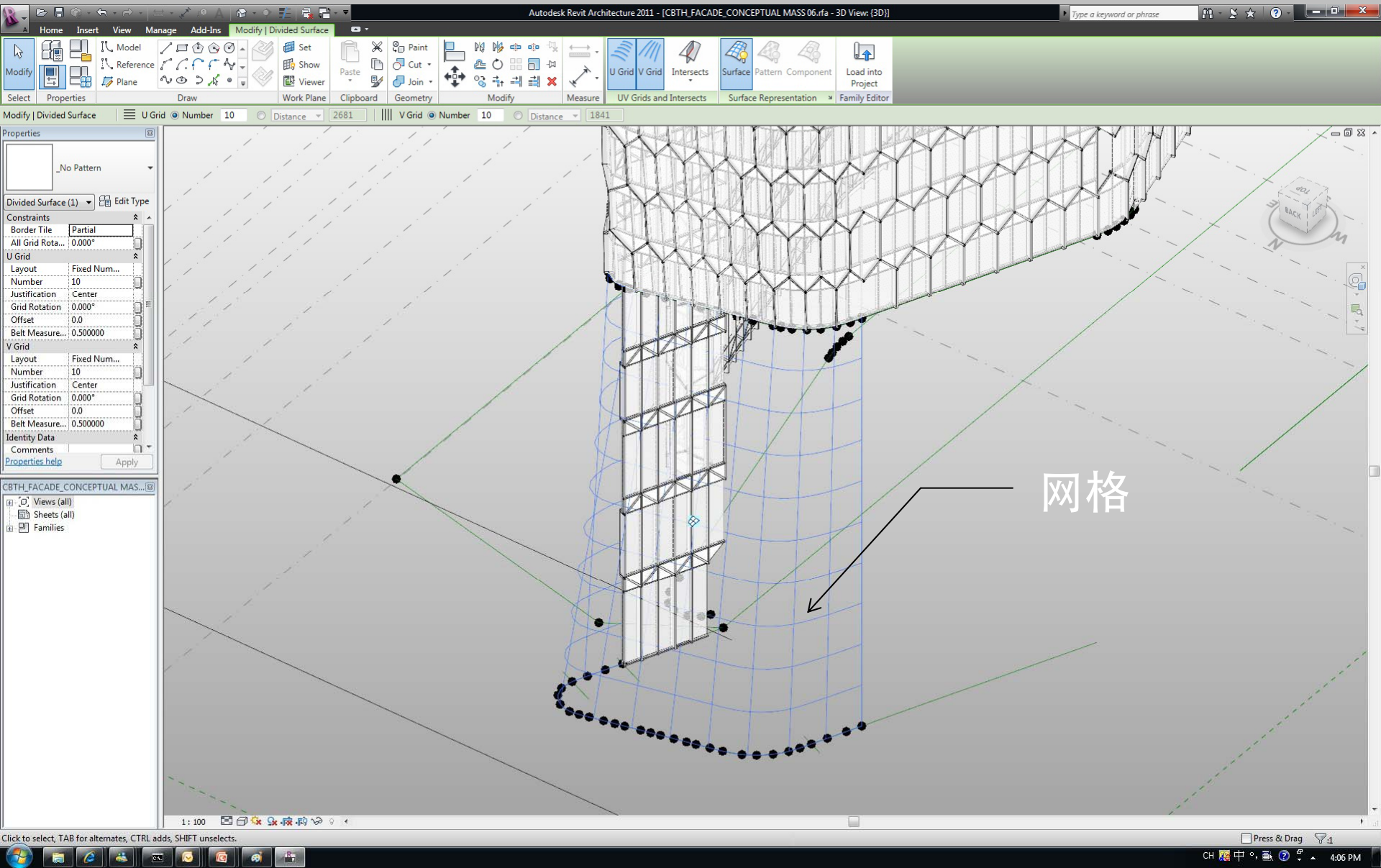

Autodesk Revit Architecture 2011 - [CBTH_HEXA 08.rfa - 3D View: {3D}]
Type a keyword or phrase
Home
Insert
View
Manage
Add-Ins
Modify
Modify
Model
Reference
Plane
Set
Show
Viewer
Component
Aligned
Angular
Radial
Arc Length
Level
Load into Project
Select
Properties
Draw
Work Plane
Model
Dimension
Datum
Family Editor
Properties
Family: Curtain Pane
Edit Type
Constraints
Host
Identity Data
OmniClass Nu...
OmniClass Title
Other
Always vertical
Shared
Properties help
Apply
CBTH_HEXA 08.rfa - Project Browser
Views (all)
Sheets (all)
Families
TOP
RIGHT
1250
1250
材料性能分配给玻璃，竖框，横梁等。
1 : 10
Click to select, TAB for alternates, CTRL adds, SHIFT unselects.
Press & Drag
:0
CH
英
10:47 AM

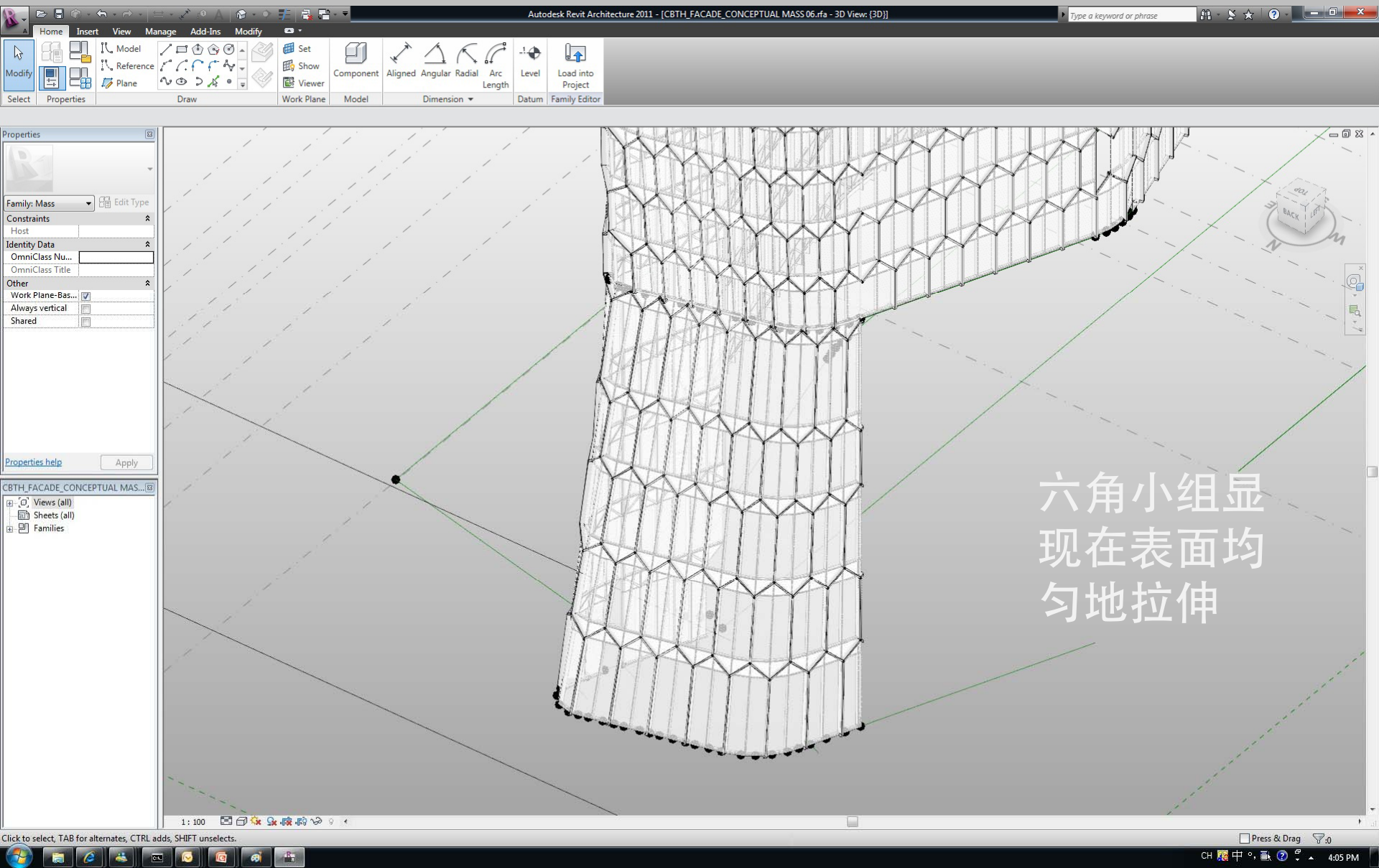
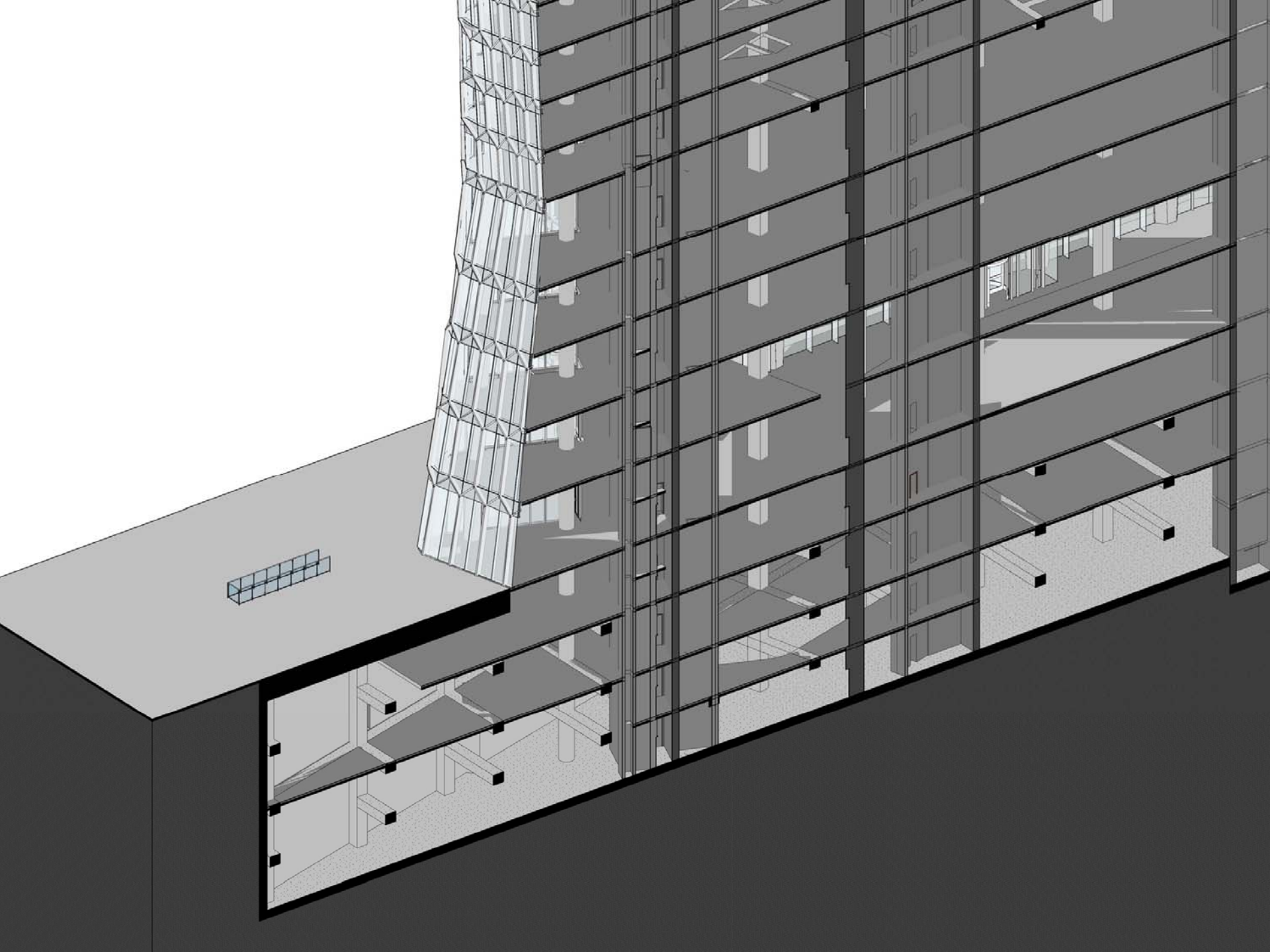

Autodesk Revit Architecture 2011 - [CBTH_HEXA 08.rfa - 3D View: {3D}]
Type a keyword or phrase
Home
Insert
View
Manage
Add-Ins
Modify
Modify
Model
Reference
Plane
Set
Show
Viewer
Component
Aligned
Angular
Radial
Arc Length
Level
Load into Project
Select
Properties
Draw
Work Plane
Model
Dimension
Datum
Family Editor
Properties
Family: Curtain Pane
Edit Type
Constraints
Host
Identity Data
OmniClass Nu...
OmniClass Title
Other
Always vertical
Shared
Properties help
Apply
CBTH_HEXA 08.rfa - Project Browser
Views (all)
Sheets (all)
Families
TOP
RIGHT
1250
1250
面板形状是
可以改变
的，按照参
考点的位置
1 : 10
Click to select, TAB for alternates, CTRL adds, SHIFT unselects.
Press & Drag
:0
CH
英
10:48 AM


Autodesk Revit Architecture 2011 - [CBTH_HEXA 08.rfa - 3D View: {3D}]
Type a keyword or phrase
Home
Insert
View
Manage
Add-Ins
Modify
Modify
Model
Reference
Plane
Set
Show
Viewer
Component
Aligned
Angular
Radial
Arc Length
Level
Load into Project
Select
Properties
Draw
Work Plane
Model
Dimension
Datum
Family Editor
Properties
Family: Curtain Pane
Edit Type
Constraints
Host
Identity Data
OmniClass Nu...
OmniClass Title
Other
Always vertical
Shared
Properties help
Apply
CBTH_HEXA 08.rfa - Project Browser
Views (all)
Sheets (all)
Families
以及宽度和
长度可以改
变
1 : 10
Click to select, TAB for alternates, CTRL adds, SHIFT unselects.
Press & Drag
10:49 AM


Autodesk Revit Architecture 2011 - [CBTH_FACADE_CONCEPTUAL MASS 06.rfa - 3D View: {3D}]
Home
Insert
View
Manage
Add-Ins
Modify | Reference Lines
Modify
Model
Reference
Plane
Set
Show
Viewer
Paste
Paint
Cut
Join
Create Form
Dissolve
Load into Project
Select
Properties
Draw
Work Plane
Clipboard
Geometry
Modify
Measure
Form
Modify Line
Family Editor
Modify | Reference Lines
Activate Dimensions
Properties
Reference Lines (2)
Edit Type
Graphics
Visible
Dimensions
Length
Identity Data
Is Reference Line
Other
Reference
Weak Refere...
Properties help
Apply
CBTH_FACADE_CONCEPTUAL MAS...
Views (all)
Sheets (all)
Families
使用通过点
列出的底部
和顶部边缘
样条
1 : 100
Click to select, TAB for alternates, CTRL adds, SHIFT unselects.
Press & Drag
4:13 PM


Autodesk Revit Architecture 2011 - [CBTH_FACADE_CONCEPTUAL MASS 06.rfa - 3D View: {3D}]
Type a keyword or phrase
Home
Insert
View
Manage
Add-Ins
Modify
Modify
Model
Reference
Plane
Set
Show
Viewer
Component
Aligned
Angular
Radial
Arc Length
Level
Load into Project
Select
Properties
Draw
Work Plane
Model
Dimension
Datum
Family Editor
Properties
Family: Mass
Edit Type
Constraints
Host
Identity Data
OmniClass Nu...
OmniClass Title
Other
Work Plane-Bas...
Always vertical
Shared
Properties help
Apply
CBTH_FACADE_CONCEPTUAL MAS...
Views (all)
Sheets (all)
Families
三维表面形成
1 : 100
Click to select, TAB for alternates, CTRL adds, SHIFT unselects.
Press & Drag
4:06 PM


Autodesk Revit Architecture 2011 - [CBTH_FACADE_CONCEPTUAL MASS 06.rfa - 3D View: {3D}]
Home
Insert
View
Manage
Add-Ins
Modify | Divided Surface
Modify
Select
Properties
Model
Reference
Plane
Draw
Set
Show
Viewer
Work Plane
Paste
Clipboard
Paint
Cut
Join
Geometry
Modify
Measure
U Grid
V Grid
Intersects
UV Grids and Intersects
Surface
Pattern
Component
Surface Representation
Load into Project
Family Editor
Modify | Divided Surface
U Grid
Number
10
Distance
2681
V Grid
Number
10
Distance
1841
Properties
_No Pattern
Divided Surface (1)
Edit Type
Constraints
Border Tile
Partial
All Grid Rota...
0.000°
U Grid
Layout
Fixed Num...
Number
10
Justification
Center
Grid Rotation
0.000°
Offset
0.0
Belt Measure...
0.500000
V Grid
Layout
Fixed Num...
Number
10
Justification
Center
Grid Rotation
0.000°
Offset
0.0
Belt Measure...
0.500000
Identity Data
Comments
Properties help
Apply
CBTH_FACADE_CONCEPTUAL MAS...
Views (all)
Sheets (all)
Families
网格
1 : 100
Click to select, TAB for alternates, CTRL adds, SHIFT unselects.
Press & Drag
4:06 PM


Autodesk Revit Architecture 2011 - [CBTH_FACADE_CONCEPTUAL MASS 06.rfa - 3D View: {3D}]
Type a keyword or phrase
Home
Insert
View
Manage
Add-Ins
Modify
Modify
Model
Reference
Plane
Set
Show
Viewer
Component
Aligned
Angular
Radial
Arc Length
Level
Load into Project
Select
Properties
Draw
Work Plane
Model
Dimension
Datum
Family Editor
Properties
Family: Mass
Edit Type
Constraints
Host
Identity Data
OmniClass Nu...
OmniClass Title
Other
Work Plane-Bas...
Always vertical
Shared
Properties help
Apply
CBTH_FACADE_CONCEPTUAL MAS...
Views (all)
Sheets (all)
Families
六角小组显
现在表面均
匀地拉伸
1 : 100
Click to select, TAB for alternates, CTRL adds, SHIFT unselects.
Press & Drag
4:05 PM