Instant Fence & Railing Rails and Handrails
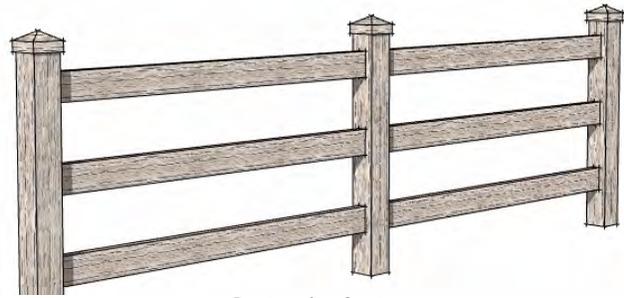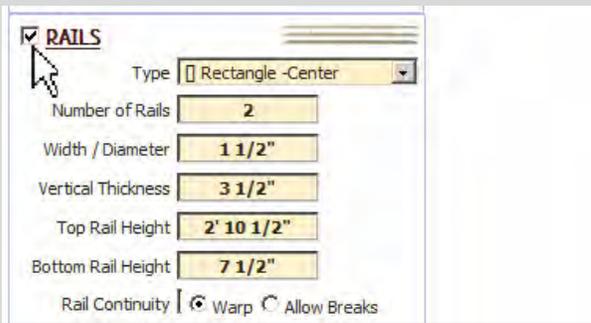
RAILS

Type	[] Rectangle -Center
Number of Rails	2
Width / Diameter	1 1/2"
Vertical Thickness	3 1/2"
Top Rail Height	2' 10 1/2"
Bottom Rail Height	7 1/2"
Rail Continuity	⦿ Warp ○ Allow Breaks

RAILS

Type	[] Rectangle -Center
Number of Rails	[] Rectangle -Center
Width / Diameter	[] Rectangle -Offset
Vertical Thickness	[] Rectangle -Side
	O Round -Center
	O Round -Side

RAILS

Type	[] Rectangle -Offset
Number of Rails	[] Rectangle -Center
Width / Diameter	[] Rectangle -Offset
Vertical Thickness	[] Rectangle -Side
	O Round -Center
	O Round -Side

RAILS

Type	[] Rectangle -Side
Number of Rails	[] Rectangle -Center
Width / Diameter	[] Rectangle -Offset
Vertical Thickness	[] Rectangle -Side
	O Round -Center
	O Round -Side

RAILS

Type	O Round -Center
Number of Rails	[] Rectangle -Center
Width / Diameter	[] Rectangle -Offset
Top Rail Height	[] Rectangle -Side
	O Round -Center
	O Round -Side

RAILS

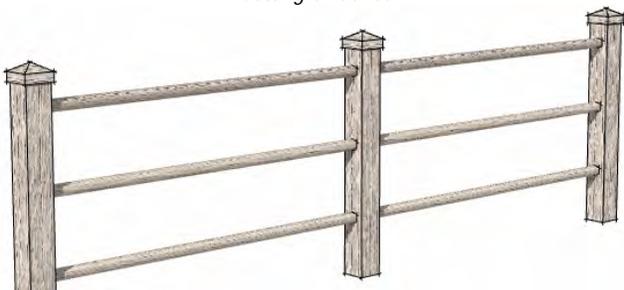|	
Type	O Round -Side
Number of Rails	[] Rectangle -Center
Width / Diameter	[] Rectangle -Offset
Top Rail Height	[] Rectangle -Side
	O Round -Center
	O Round -Side

Rectangle -Center

Rectangle -Offset
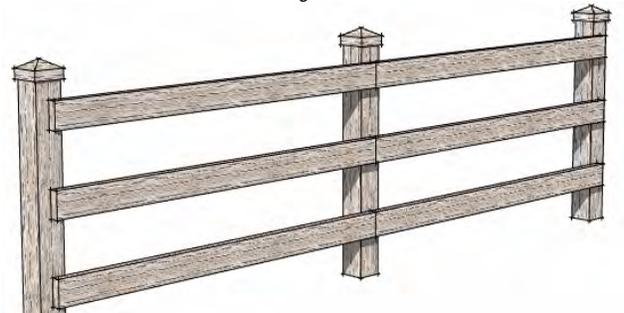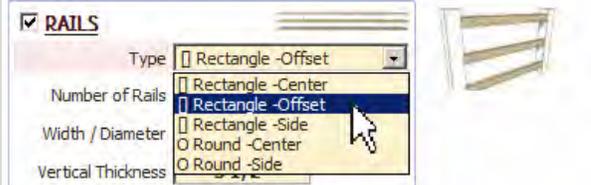
Rectangle -Center
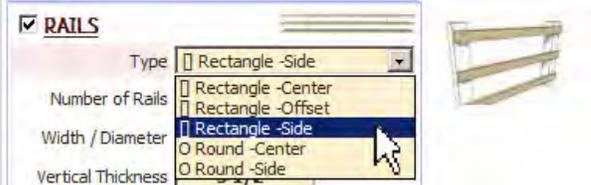
Round -Center
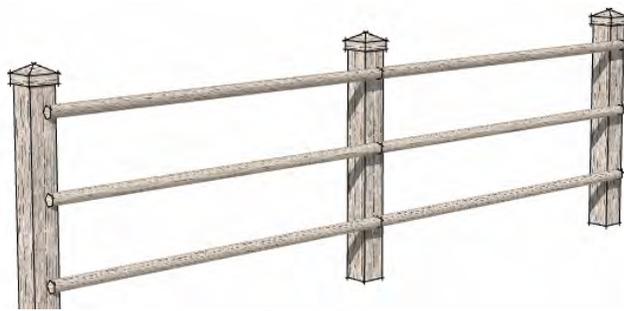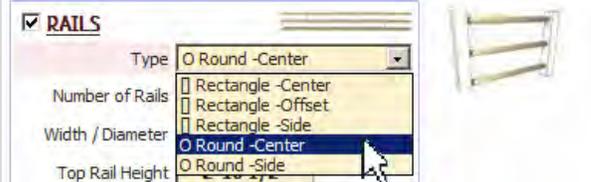
Round -Side

Rail Parameters.

Number of Rails

☑ **RAILS**

Type	[] Rectangle -Center ▾
Number of Rails	**3**
Width / Diameter	3"

Width / Diameter

☑ **RAILS**

Type	[] Rectangle -Offset ▾
Number of Rails	3
Width / Diameter	**3"**
Vertical Thickness	6"

Vertical Thickness

☑ **RAILS**

Type	[] Rectangle -Offset ▾
Number of Rails	3
Width / Diameter	3"
Vertical Thickness	**6"**
Top Rail Height	4' 4"

Top Rail Height

Number of Rails	3
Width / Diameter	3"
Vertical Thickness	6"
Top Rail Height	**4' 4"**
Bottom Rail Height	1' 4"

Bottom Rail Height

Width / Diameter	3"
Vertical Thickness	6"
Top Rail Height	4' 4"
Bottom Rail Height	**1' 4"**

☐ **HANDRAIL**

Rail Continuity *Applies to sloped condition.*

Vertical Thickness	6"
Top Rail Height	4' 4"
Bottom Rail Height	1' 4"
Rail Continuity	⦿ Warp ○ Allow Breaks

☐ **HANDRAIL**

Vertical Thickness	6"
Top Rail Height	4' 4"
Bottom Rail Height	1' 4"
Rail Continuity	○ Warp ⦿ Allow Breaks

☐ **HANDRAIL**

Handrail Types

HANDRAIL

Type	[] Rectangular Cap Rail ▼
Width / Diameter	8"
Vertical Thickness	3"
Top	6'
Rail Continuity	○ Warp ● Allow Breaks

HANDRAIL

Type: [] Rectangular Cap Rail ▼

- [] Rectangular Cap Rail
- O Round Cap Rail
- [] Rectangle
- O Round

Width / Diameter

Vertical Thickness

HANDRAIL

Type: O Round Cap Rail ▼

- [] Rectangular Cap Rail
- O Round Cap Rail
- [] Rectangle
- O Round
- {} Mushroom

Width / Diameter

Top

HANDRAIL

Type: [] Rectangle ▼

- [] Rectangular Cap Rail
- O Round Cap Rail
- [] Rectangle
- O Round
- {} Mushroom
- O Radius Edge

Width / Diameter

Vertical Thickness

Top

HANDRAIL

Type: O Round ▼

- [] Rectangular Cap Rail
- O Round Cap Rail
- [] Rectangle
- O Round
- {} Mushroom
- () Radius Edge
- () Rounded

Width / Diameter

Top

Location

Rail Continuity

HANDRAIL

Type: {} Mushroom ▼

- [] Rectangular Cap Rail
- O Round Cap Rail
- [] Rectangle
- O Round
- {} Mushroom
- () Radius Edge
- () Rounded
- () Iron 1

Width / Diameter

Vertical Thickness

Top

Location

HANDRAIL

Type: () Radius Edge ▼

- [] Rectangular Cap Rail
- O Round Cap Rail
- [] Rectangle
- O Round
- {} Mushroom
- () Radius Edge
- () Rounded
- {} Iron 1
- {} Iron 2

Width / Diameter

Vertical Thickness

Top

Location

Rail Continuity

HANDRAIL

Type: () Rounded ▼

- [] Rectangular Cap Rail
- O Round Cap Rail
- [] Rectangle
- O Round
- {} Mushroom
- () Radius Edge
- () Rounded
- {} Iron 1
- {} Iron 2
- {} Wood 1

Width / Diameter

Vertical Thickness

Top

Location

Rail Continuity

Type: {} Iron 1 ▼

- [] Rectangular Cap Rail
- O Round Cap Rail
- [] Rectangle
- O Round
- {} Mushroom
- () Radius Edge
- () Rounded
- {} Iron 1
- {} Iron 2
- {} Wood 1
- Wood 2

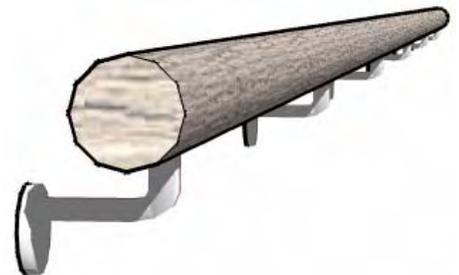Width / Diameter

Vertical Thickness

Top

Location

Rail Continuity

☐ RAIL ENDS
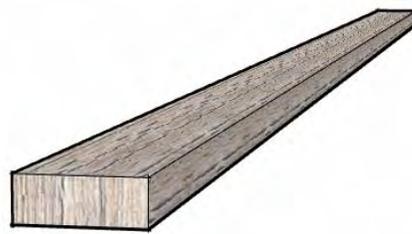
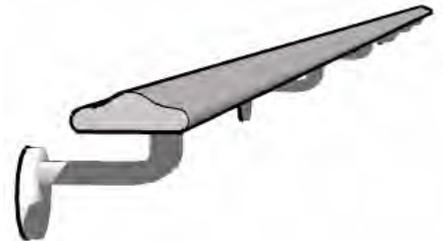*Rectangular Cap Rail*
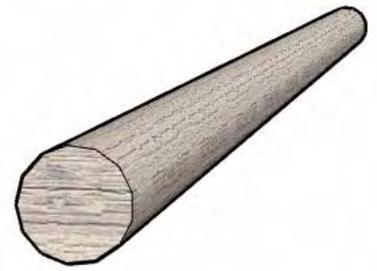
Round Cap Rail
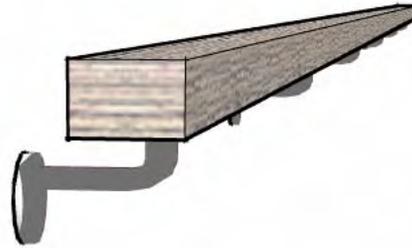
Rectangle

Round

Mushroom

Radius Edge

Rounded

Iron 1

Iron 2

Wood 1

Vali Architects - Instant Scripts SketchUp Plugins - Instant Fence & Railing - www.valiarchitects.com

Wood 2

Wood 3

Wood 4

Wood 5

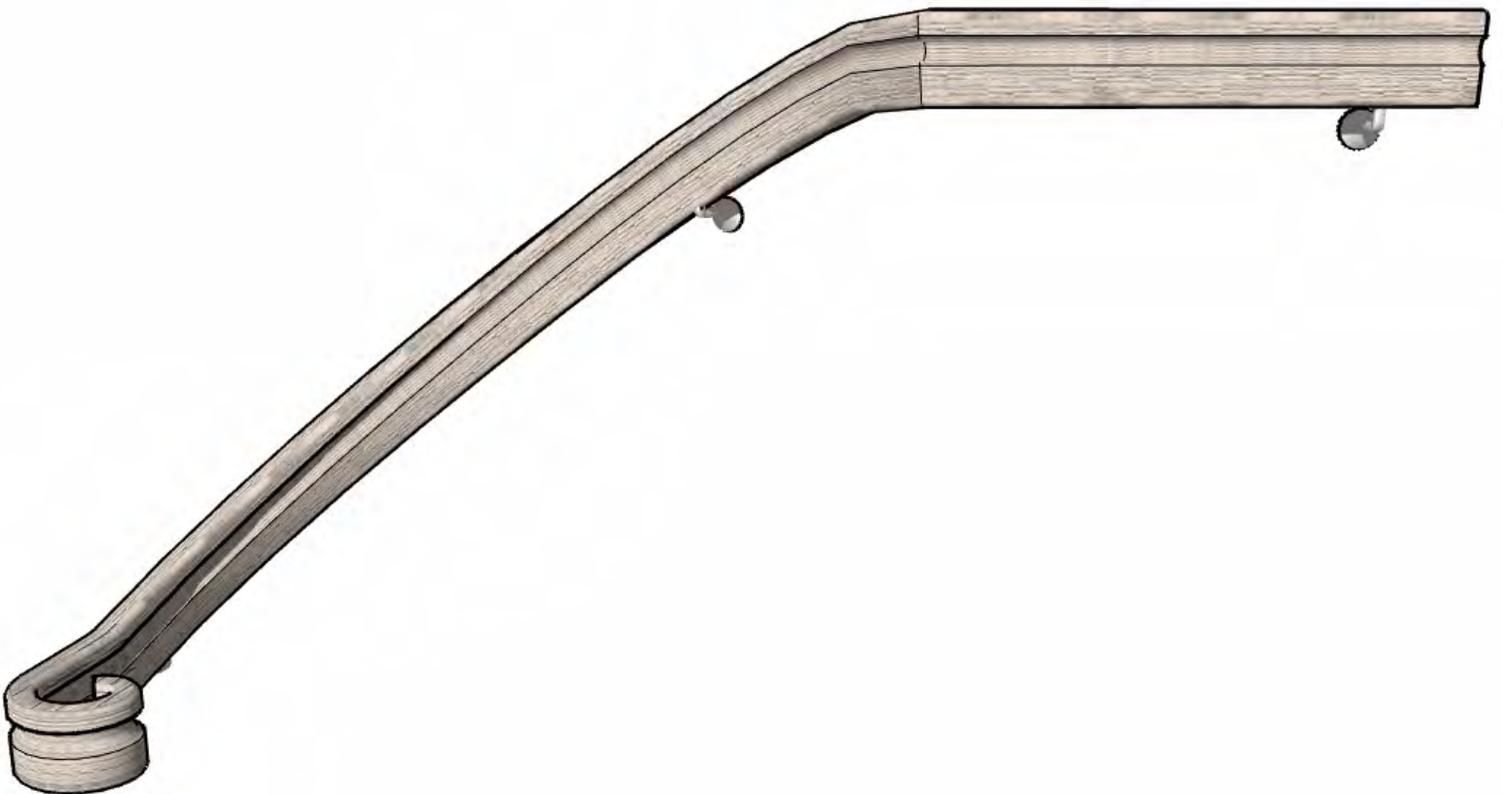*User Component Profile*

"VA_sample_cap_rail" is shown here. But any user profile can be used.

1. *Draw custom 2D shape and make it into a component*

2. *Set axis where center of railing is to be. Z direction should be out of face.*

    .

3. *Start Instant Fence Railing as usual. Choose "User Component Profile" and select the new component from the menu.*
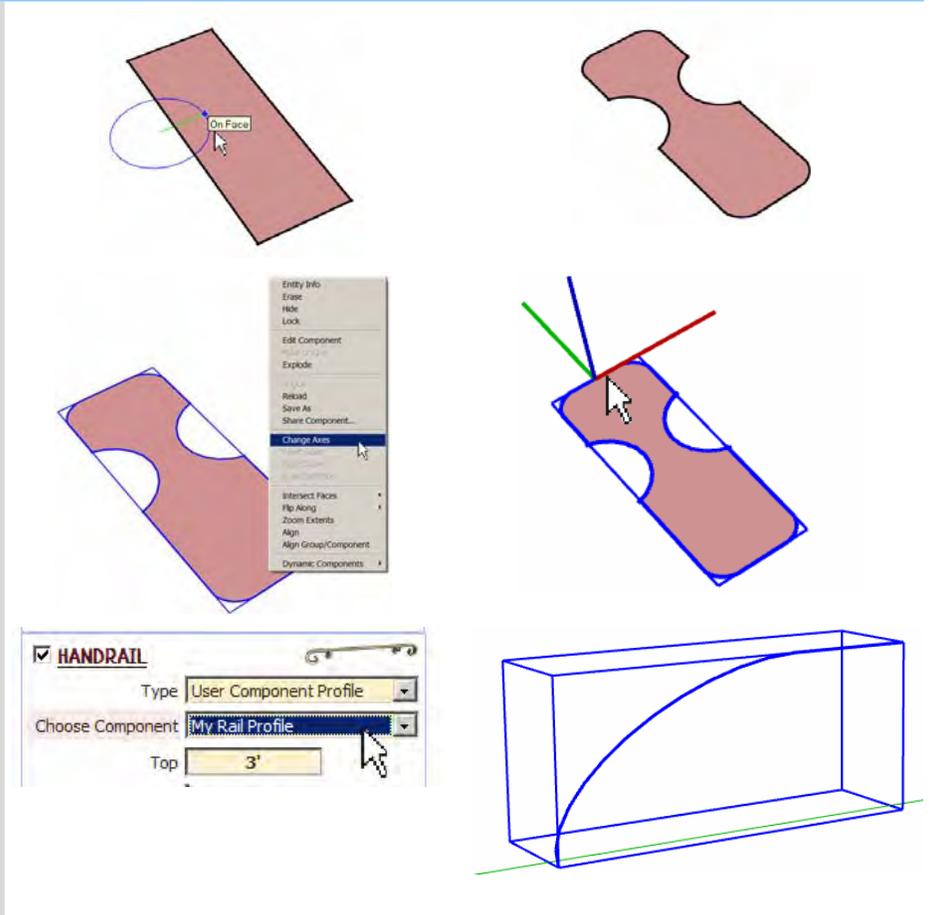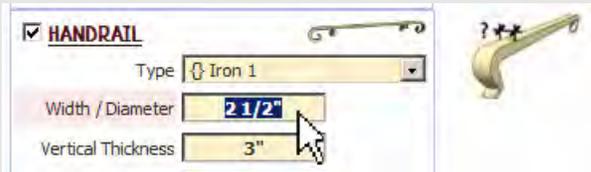
The output is a railing using the new custom profile and aligns material textures. Note: This differs from the SketchUp follow me tool because it twists the railing to maintain a vertical / horizontal cross section.
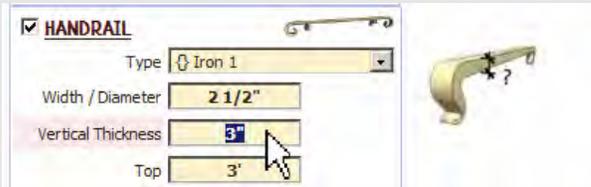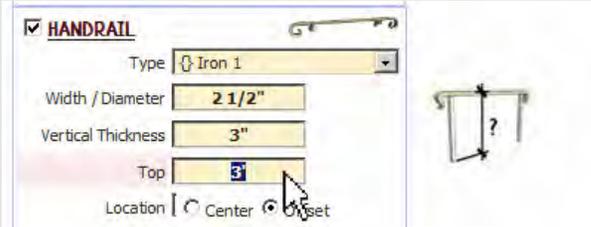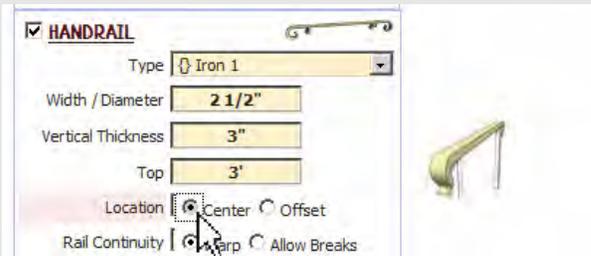
Handrail Parameters

Width / Diameter

☑ **HANDRAIL**

Type	{} Iron 1
Width / Diameter	**2 1/2"**
Vertical Thickness	3"

Vertical Thickness

☑ **HANDRAIL**

Type	{} Iron 1
Width / Diameter	2 1/2"
Vertical Thickness	**3"**
Top	3'

Top

☑ **HANDRAIL**

Type	{} Iron 1
Width / Diameter	2 1/2"
Vertical Thickness	3"
Top	**3'**
Location	○ Center ● Offset

Location: Center

☑ **HANDRAIL**

Type	{} Iron 1
Width / Diameter	2 1/2"
Vertical Thickness	3"
Top	3'
Location	● Center ○ Offset
Rail Continuity	● Warp ○ Allow Breaks

Location: Offset

☑ **HANDRAIL**

Type	{} Iron 1
Width / Diameter	2 1/2"
Vertical Thickness	3"
Top	3'
Location	○ Center ● Offset
Offset Distance	4"

Offset Distance

Vertical Thickness	3"
Top	3'
Location	○ Center ● Offset
Offset Distance	**4"**
Rail Continuity	● Warp ○ Allow Breaks

Rail Continuity: Warp *Applies to sloped condition*

Top	3'
Location	○ Center ● Offset
Offset Distance	4"
Rail Continuity	● Warp ○ Allow Breaks
Warp Severity	○ Low ● Med ○ All

Rail Continuity: Allow Breaks

Location ○ Center ● Offset	
Offset Distance **4"**	
Rail Continuity ○ Warp ● Allow Breaks	
☐ BRACKETS	

Warp Severity: Low

Offset Distance **4"**	
Rail Continuity ● Warp ○ Allow Breaks	
Warp Severity ● Low ○ Med ○ All	
☐ BRACKETS	
☐ RAIL ENDS	

Warp Severity: Med

Location ○ Center ● Offset	
Offset Distance **4"**	
Rail Continuity ● Warp ○ Allow Breaks	
Warp Severity ○ Low ● Med ○ All	
☐ BRACKETS	
☐ RAIL ENDS	

Warp Severity: All

Location ○ Center ● Offset	
Offset Distance **4"**	
Rail Continuity ● Warp ○ Allow Breaks	
Warp Severity ○ Low ○ Med ● All	
☐ BRACKETS	
☐ RAIL ENDS	

Handrail Brackets

☑ BRACKETS	
Locations ○ Posts ● Wall	
Bracket Spacing **4'**	
☐ RAIL ENDS	

Posts

☑ BRACKETS	
Locations ● Posts ○ Wall	
☐ RAIL ENDS	

Wall

☑ BRACKETS	
Locations ○ Posts ● Wall	
Bracket Spacing **4'**	
☐ RAIL ENDS	

Bracket Spacing (Wall)

☑ BRACKETS	
Locations ○ Posts ● Wall	
Bracket Spacing **4'**	
☐ RAIL ENDS	

Handrail Ends

RAIL ENDS
Type:] Return -Level

RAIL ENDS
Type: - Extension
- Extension
ADA
] Return
] Return -Level
] Return -Radius
] To Post
] To Post -Radius
_ To Grade
C Scroll
S Scroll
S Scroll Long
@ Volute

FENCING
Type
Fencing Location
Top
Bottom (+/-)
Thickness / Diameter

RAIL ENDS
Type: ADA

FENCING

RAIL ENDS
Type:] Return

RAIL ENDS
Type:] Return -Level

RAIL ENDS
Type:] Return -Radius

RAIL ENDS
Type:] To Post

RAIL ENDS
Type:] To Post -Radius

RAIL ENDS
Type: _ To Grade

RAIL ENDS
Type: C Scroll

RAIL ENDS
Type: S Scroll

RAIL ENDS
Type: S Scroll Long

RAIL ENDS
Type: @ Volute
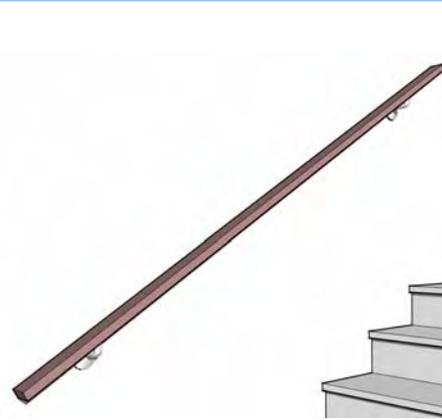
Extension
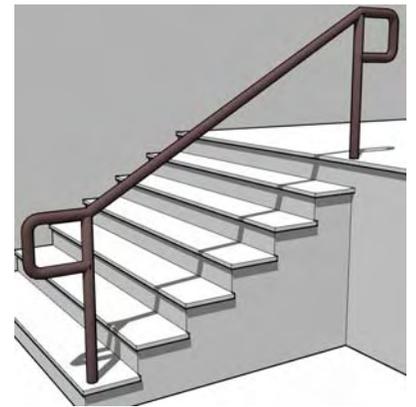
ADA
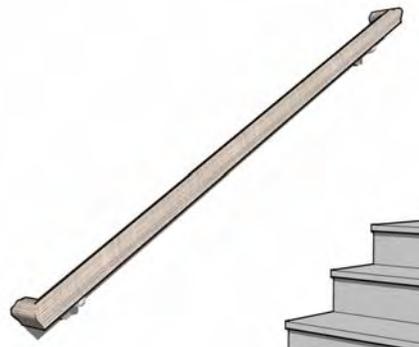
Return
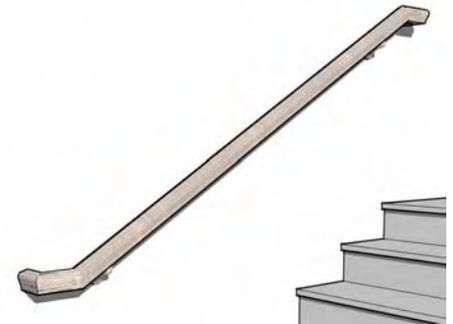
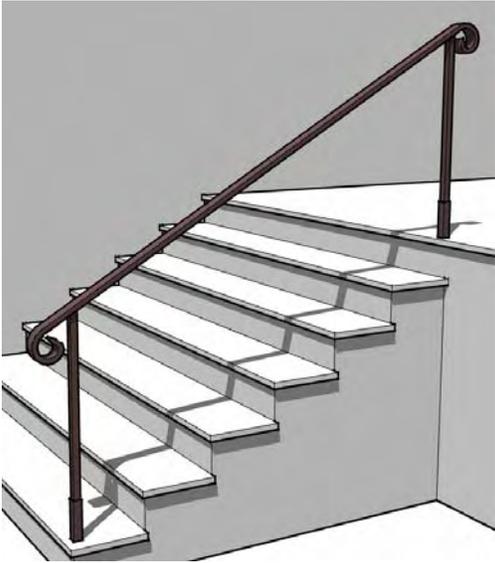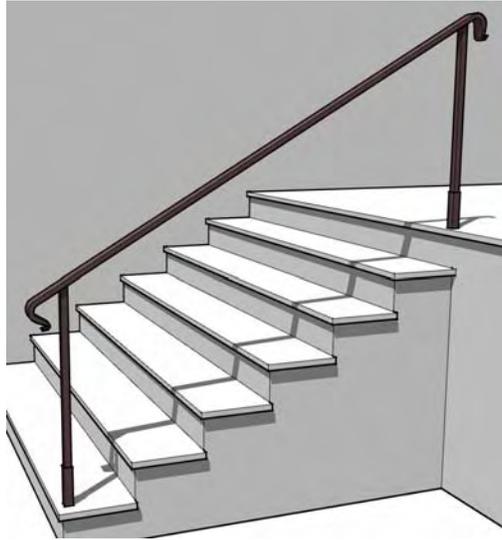*Return-Level*
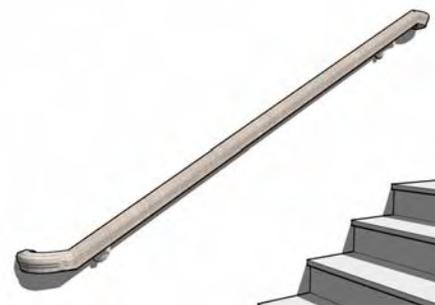
Return -Radius
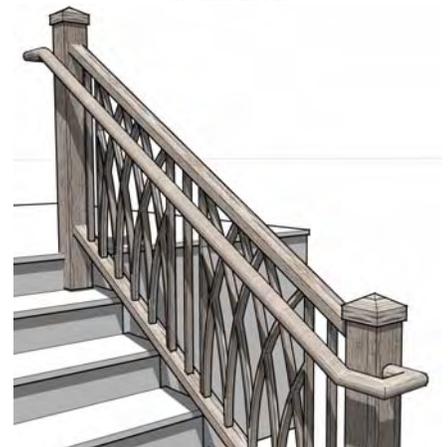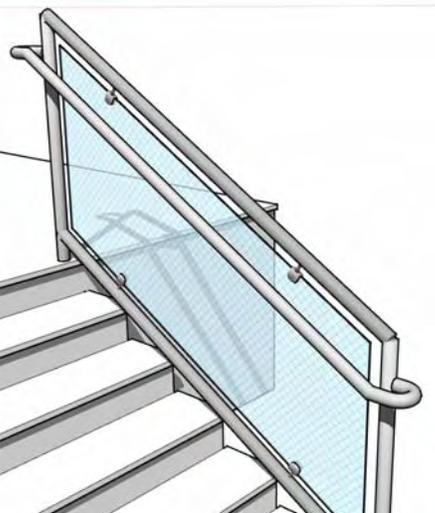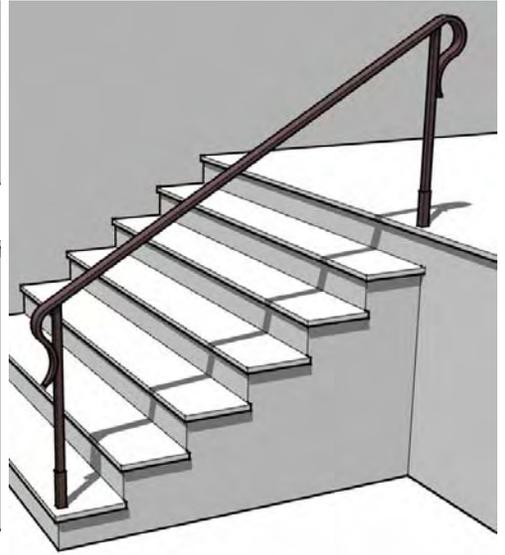

To Post

To Post -Radius
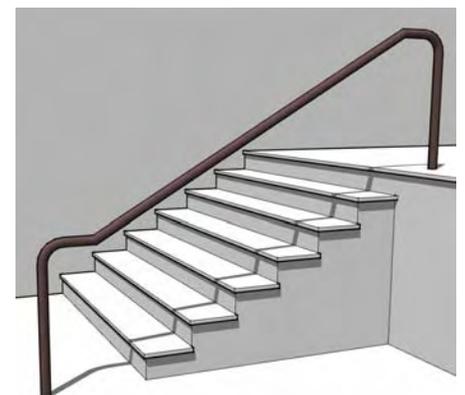
To Grade

C Scroll

S Scroll

S Scroll Long

Volute

Note: A volute will only be modeled if the handrail is sloped. It will be located at the low end or ends.
Not all rail profiles will have a decorative end cap.