## autodesk®

White Paper

## Autodesk<sup>®</sup> Revit<sup>®</sup> Stairs Crib sheet

This document is being provided as a simple reference to graphically demonstrate how the different stair parameters available for stairs in Autodesk Revit 6.0 impact the geometry of those stairs.

The default stairs shown on the next page are used as the base example. Each subsequent page modifies, from the default, one parameter at a time and highlights the results of that change.

The description of that change is provided below the images and in some cases, additional notes are provided to further explain the results or note additional parameters which may impact the geometry.

pe Prope	erties		Autodesk Revit - [Project1 - 3D View: {3D}]
Familur	Sustem Familu: Stair	▼ Lord	Eile Edit View Modelling Drafting Site Tools Settings Window
Lanniy.	Joystenni anniy. Stair		
<u>T</u> ype:	7" max riser 11" tread	Duplicate	Press + Drag
Type Para	ameters:	<u> </u>	
	Parameter	Value	
Minimum 1	Fread Depth	0' 11"	
Maximum	Riser Height	0' 7"	
Begin witl	h Riser		
End with I	Riser		
Extend Be	elow Base	0' 0"	
Trim String	gers at Top	Do not trim	
Tread Thi	ckness	0' 2"	
Riser Typ	e	Straight	
Riser Thio	xness	0' 0 1/4"	
Riser to T	read Connection	Extend Riser Behind Tread	
Nosing Le	ength	0' 1"	and a second sec
Nosing Pr	ofile	Stair Nosing - Pan : Stair Nosing - P	
Apply No:	sing Profile	Front Only	
Right Strin	nger	Closed	
Left String	ger	Closed	
Middle Str	ingers	0	
Stringer T	hickness	0' 2"	
Stringer H	leight	1' 0"	
Open Strii	nger Offset	0' 0"	
Stringer C	Carriage Height	0' 21/2"	
Landing C	Carriage Height	0' 7"	
Monolithic	: Stairs		
Landing C	)verlap	0' 0"	
	e of Minder	Smooth	

**Default Stairs** 

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			File Edit View Modelling Drafting Site Tools Settings Window Help
<u>F</u> amily:	System Family: Stair	Load	_ 8
<u>T</u> ype:	7" max riser 11" tread		
Type Pa	rameters:	<u>R</u> ename	
	Parameter	Value	
Minimum	Tread Depth	0' 11"	
Maximum	n Riscr Height	<u> </u>	
Begin wi	ith Riser		
End with	Ricer		
Extend B	Below Base	0' 0"	
Trim Strin	ngers at Top	Do not trim	
Tread Th	nickness	0' 2"	
Riser Ty	pe	Straight	
Riser Thi	ickness	0' 0 1/4"	
Riser to	Tread Connection	Extend Riser Behind Tread	
Nosing L	.ength	0' 1"	
Nosing P	Profile	Stair Nosing - Pan : Stair Nosing - P	
Apply No	osing Profile	Front Only	
Right Str	ringer	Closed	
Left Strin	nger	Closed	Provent and a second seco
Middle St	tringers	0	
Stringer	Thickness	0' 2"	
Stringer	Height	1' 0"	
Open Str	ringer Offset	0' 0"	
Stringer	Carriage Height	0' 2 1/2"	
Landing	Carriage Height	0' 7"	
Monolithi	ic Stairs		
Landing	Overlap	0' 0"	
Undersid	de of Winder	Smooth	
<< <u>P</u> r	eview OK	Cancel Apply	

Begin with Riser turned OFF

pe Properties		Autodesk Revit - [Project1 - 3D View: {3D}]
Family System Family Stair		Eile Edit View Modelling Drafting Site Tools Settings Window Hel
<u>ranniy.</u> joysteni ranniy. Stali	Load	<u>6</u>
Type: 7" max riser 11" tread	✓ <u>D</u> uplicate	Press + Drag 🗸
Type Parameters:	<u> </u>	
Parameter	Value	
Minimum Tread Depth	0' 11"	
Maximum Riser Height	0' 7"	
Begin with Riser		
End with Riser		
Extend Below Base		
Trim Stringers at Top	Do not trim	
Tread Thickness	0' 2"	
Riser Type	Straight	
Riser Thickness	0' 0 1/4"	
Riser to Tread Connection	Extend Riser Behind Tread	
Nosing Length	0' 1"	Processo -
Nosing Profile	Stair Nosing - Pan : Stair Nosing - P	
Apply Nosing Profile	Front Only	and a second sec
Right Stringer	Closed	Personal International Interna
Left Stringer	Closed	
Middle Stringers	0	Province of the second se
Stringer Thickness	0' 2"	
Stringer Height	1' 0"	
Open Stringer Offset	0' 0"	
Stringer Carriage Height	0' 2 1/2"	
Landing Carriage Height	0' 7"	
Monolithic Stairs		
Landing Overlap	0' 0"	
	Smooth	

End with Riser turned OFF

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<u>T</u> ype:	7" max riser 11" tread	<u>▼</u> <u>D</u> up	licate					<b>v</b>	P	Pre	ess + Drag	7
Type Par	rameters:	<u>R</u> en	name	1	Project1 -	Section: S	ection 2					_ 🗆 ×
	Parameter	Value			Г	~	~			Level 2		<b></b>
Minimum	Tread Depth	0' 11"			1				· —	10' - 0"		
Maximum	n Riser Height	0' 7"				1						
Begin wi	ith Riser								$\neg$			
End with	Riser					⊢						
Extend B	elow Base					L						
Trim Strin	ngers at Top	Match Level										
Tread Th	nickness	0' 2"					Ļ					
Riser Typ	pe	Straight										
Riser Thi	ickness	0' 0 1/4"							ł			
Riser to 1	Tread Connection	Extend Riser Behind Tread						-				-1
Nosing L	ength	0' 1"						00000	Ŧ			
Nosing P	rofile	Stair Nosing - Pan : Stair Nosing	g-P									///
Apply No	osing Profile	Front Only			Project1 -	3D View: {	3D}					- 🗆 ×
Right Stri	inger	Closed				-	-				$\sim$	
Left Strin	nger	Closed							_			_
Middle St	tringers	0					_					
Stringer	Thickness	0' 2"				_		-1				
Stringer I	Height	1' 0"					-	1			1	
Open Str	ringer Offset	0' 0"						4	_		S	
Stringer	Carriage Height	0' 2 1/2"						1	$\sim$			10000
Landing	Carriage Height	0' 7"					1	′ <b>(</b>	17			
Monolithi	c Stairs						L	-				
Landing	Overlap	0' 0"							4			
Undersid	le of Winder	Smooth	-			1/						
<< <u>P</u> re	eview OK	Cancel	Apply	•	//				J			ب // ف

"Trim Stringers at Top" set to "Match Level"

Type Properties		X Autodesk Revit	_ 🗆 ×
Eamily: System Family: Stair	Load	<u>File Edit View Modelling Drafting Site Tools Settings Window H</u>	<u>l</u> elp
Type: 7" max riser 11" tread	Duplicate	Press + Drag	7
Type Parameters:	<u>R</u> ename	Project1 - Section: Section 2	<u>- 0 ×</u>
Parameter	Value	Level 2	
Minimum Tread Depth	0' 11"		
Maximum Riser Height	0' 7"		
Begin with Riser			
End with Riser			
Extend Below Base	<mark>8'-8''</mark>		
Trim Stringers at Top	Match Landing Stringer		
Tread Thickness	0 2"		
Riser Type	Straight		
Riser Thickness	0' 0 1/4"		
Riser to Tread Connection	Extend Riser Behind Tread		
Nosing Length	0' 1"		-
Nosing Profile	Stair Nosing - Pan : Stair Nosing - P		▶ //₂
Apply Nosing Profile	Front Only	Project 20 View (20)	
Right Stringer	Closed	Tojecti - 3D View: (3D)	
Left Stringer	Closed		
Middle Stringers	0		
Stringer Thickness	0' 2"		
Stringer Height	1' 0"		
Open Stringer Offset	0' 0"		
Stringer Carriage Height	<u>0', 2,1/</u> 2"		
Landing Carriage Height	1' 0"		
Monolithic Staire			
Landing Overlap	0' 0"		
Underside of Winder	Smooth 🗸		
<< <u>P</u> review O	K Cancel Apply		•

# "Trim Stringers at Top" set to "Match Landing Stringer"

Sets the top of the stair to have the same apparent offset as around the landings (as controlled by Landing Carriage Height – see below)

pe Prope	erties			×	限 Auto	desk Revi	t - [Project1	- Sectio	n: Sectio	on 2]		
Familur	Sustem Familur Stair		1 Lord		🐻 <u>F</u> ile	<u>E</u> dit ⊻iev	v <u>M</u> odelling	<u>D</u> rafting	Sjte <u>T</u> o	ools <u>S</u> ettings	: <u>W</u> indo	w <u>F</u>
Earniy.	System Family, Stail	<u></u>	Load									_
<u>T</u> ype:	7" max riser 11" tread	<u>•</u>	Duplicate.					T	ß	Press	+ Drag	Y
Type Para	ameters:		<u>R</u> ename									
	Parameter		/alue									
Minimum 1	Fread Depth	0' 11"										
Maximum	Riser Height	0'7"										
Begin witl	h Riser											
End with I	Riser									Γ.		
Extend Be	low Base	0' 0"								Lev	el 2	
Trim Strip	gers at Top	Do not trim								10'	- 0"	J
Tread Thi	ckness	0' 6"	<u> </u>	٦								
Riser Typ	c —	Straight										
Riser Thic	kness	0'01/4"										
Riser to T	read Connection	Extend Riser Behi	ind Tread			J	n					
Nosing Le	ngth	0' 1"								7		
Nosing Pr	ofile	Stair Nosing - Pan	i : Stair Nosing - P		l ( 1	5						
Apply No:	sing Profile	Front Only										
Right Strin	nger	Closed				2						
Left String	ger	Closed				+	_ L_			-		
Middle Str	ingers	0										
Stringer T	hickness	0' 2"										
Stringer H	leight	1' 0"					$\langle$					
Open Stri	nger Offset	0' 0"										
Stringer C	arriage Height	0' 21/2"										
Landing C	arriage Height	0' 7"										
Monolithic	Stairs											
Landing C	)verlap	0' 0"										
I Inderside	e of Winder	Smooth		-								

"Tread Thickness" set to 6" (default is 2")

<u>Note</u>: the stringer bottom stays equidistant from the bottom of the tread resulting in a downward movement of the top of the stringer.

Type Proper	ties			🔀 🔣 Au	odesk	Revit -	[Projecti	l - 3D Vie	w: {3D	}]		_ [] :
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<u>F</u> amily: [	System Family: Stair		Load									_ 8 :
<u>T</u> ype:	7" max riser 11" tread	<b>_</b>	<u>D</u> uplicate					<b>v</b>		Press	: + Drag	$\nabla$
Type Paran	neters:		<u>R</u> ename									
	Parameter	Value		<b>_</b>								
Minimum Tr	ead Depth	0' 11"										
Maximum R	iser Height	0' 7"									7	
Beain with	Riser								_		Tal	
End with Ri	iser								-			
Extend Belo	ow Base	0' 0"							10	1		
Trim Stringe	ers at Top	Do not trim						S	V			
Tread Thiol	AC35	8'-2"										
Riser Type		None						and the second second		-		
Riser Thield	<u>ness</u>	0' 0 1/4"					1 Sugar	. 1				
Riser to Tre	ead Connection	Extend Riser Behind Tr	ead			4						
Nosing Len	gth	0' 1"					Concession of the local division of the loca	-				
Nosing Prot	file	Stair Nosing - Pan : Sta	air Nosing - P			15-	Concerner .					
Apply Nosir	ng Profile	Front Only				1 free		77				
Right String	jer	Closed										
Left Stringe	er	Closed	-		,		manal /					
Middle Strin	ngers	0				Para and						
Stringer Thi	ickness	0' 2"										
Stringer He	ight	1' 0"					Here and the second sec					
Open String	ger Offset	0' 0"			the second second							
Stringer Ca	rriage Height	0' 21/2"						1				
Landing Ca	rriage Height	0' 7"						U L	-			
Monolithic S	Stairs							V	A			
Landing Ov	/erlap	0' 0"							A			
Underside (	of Winder	Smooth		-					V			
								<u> </u>	J			
<< Previ	iew nK	Cancel	Apply									
			- PPG									١

"Riser Type" set to "None"

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<u>F</u> amily:	System Family: Stair		Load									
<u>T</u> ype:	7" max riser 11" tread	<b>_</b>	<u>D</u> uplicate					<b>_</b>	P	Pre	ess + Drag	V
Tupe Par	rameters:		<u>R</u> ename		Project1 -	Section: Se	ection 2					_ 🗆 ×
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	Parameter	Value	·			Þ			-	<b>\</b> <u>'</u>	_evel 2	
Minimum	Tread Depth	U' 11"				σ			q;		10.0	
Davia	h Riser Height	U' /"				//		$\leq 1$	1	⊀∖		
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End with	i Riser Jolow Booo									2		00000
Trim Strin	neluw Dase	Do pottrim				<u> </u>		V				
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Riser Thi	ickness	0' 0 1 /4"							<u> </u>	- <u>H</u>		
Riser to 1	Tread Connection	Extend Riser Rehind T	read					San Constant	C			
Necimi	ength	0' 2"						1000				-
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Apply No	sing Profile	Front Only			n ·	20 V. (	20)					
Right Stri	inger	Closed			Project I -	3D VIEW: {	3D}					
Left Strin	nger	Closed										-
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Stringer *	Thickness	0' 2"			$\sim$		/		2			
Stringer I	Height	1' 0"										
Open Str	ringer Offset	0' 0"			1			17				
Stringer (	Carriage Height	0' 21/2"				$\sim$	1			- X		1000
Landing	Carriage Height	0' 7"				1						
Monolithia	c Stairs					1						
Landing	Overlap	0' 0"					Y		1			
Undersid	le of Winder	Smooth	-				11		1			
<< <u>P</u> re	eview OK	Cancel	Apply		1			Y				

### "Riser Type" set to "Slanted"

<u>Note</u>: This parameter is dependent on the Nosing Length and Nosing profile. The nosing length is measured from the end of the profile to the back of the next lower tread. A slanted riser goes from the back of the profile to the back of the tread below as whatever angle is required to fill the gap.

Type Properties	×	Autodesk Revit - [Example Stair.rvt - Section: Section 2]
		🔝 File Edit View Modelling Drafting Site Tools Settings Window Help
Eamily: System Family: Stai	ir <u>L</u> oad	
<u>Iype:</u> 7" max riser 11" tre	ead <u>D</u> uplicate	Press + Drag
Type Parameters:	<u>R</u> ename	
Parameter	Value 🔺	
Minimum Tread Depth	0' 11"	
Maximum Riser Height	0' 7"	
Begin with Riser		
End with Riser		
Extend Below Base	0' 0"	01. 10
Trim Stringers at Top	Do not trim	
Tread Thickness	0' 2"	
Riser Type	Streight	
Riser Thickness	0' 1"	
Riser to Tread Connection	Extend Riser Behind Tread	
Nosing Length	0' 1"	
Nosing Profile	Stair Nosing - Pan : Stair Nosing - P	
Apply Nosing Profile	Front Only	
Right Stringer	Closed	
Left Stringer	Closed	
Middle Stringers	0	
Stringer Thickness	0' 2"	
Stringer Height	1' 0"	
Open Stringer Offset	0' 0"	
Stringer Carriage Height	0' 2 1/2"	
Landing Carriage Height	0' 7"	
Monolithic Stairs		
Landing Overlap	0' 0"	<b>`</b>
Underside of Winder	Smooth	
<< <u>P</u> review	OK Cancel Apply	
		Click to select, TAB for alternates, CTRL adds, SHIFT unselects. Left a

"Riser Thickness" set to 0' 1" (default is 1/4")

Type Properties		🛛 🙀 Autodesk Revit - [Example Stair.rvt - Section: Section 2]
		File Edit View Modelling Drafting Site Tools Settings Window Help
Eamily: System Family: Stair	Load	×
Type: 7" max riser 11" tread	▼ <u>D</u> uplicate	▼ 🖭 🔽 Press + Drag
Type Parameters:	<u>R</u> ename	
Parameter	Value	
Minimum Tread Depth	0' 11"	
Maximum Riser Height	0' 7"	
Begin with Riser		
End with Riser		
Extend Below Base	0' 0"	
Trim Stringers at Top	Do not trim	
Tread Thickness	0' 2"	
Riser Type	Straight	
Riser Thiekness	U' U 174"	
Riser to Tread Connection	Extend Tread Under Riser	
Nosing Length	0' 1"	
Nosing Profile	Stair Nosing - Pan : Stair Nosing - P	
Apply Nosing Profile	Front Only	
Right Stringer	Closed	
Left Stringer	Closed	
Middle Stringers	0	
Stringer Thickness	0' 2"	
Stringer Height	1' 0"	
Open Stringer Offset	0' 0"	
Stringer Carriage Height	0' 21/2"	
Landing Carriage Height	0' 7"	
Monolithic Stairs		
Landing Overlap	0' 0"	
Underside of Winder	Smooth	
<< Preview OK	Cancel Apply	
		Click to select, TAB for alternates, CTRL adds, SHIFT unselects. Left i

"Riser to Tread Connection" set to "Extend Tread Under Riser" (default is Extend Riser Behind Tread)

Type Properties				<u>j</u>	≤	🧏 Auto	desk F	?evit ·	[Example	e Stair.rvt	- Secti	on: Sect	ion 2]		_ 🗆 🗵
-			_			🐻 <u>F</u> ile	<u>E</u> dit	⊻iew	<u>M</u> odelling	<u>D</u> rafting	Sjte <u>T</u>	ools <u>S</u> el	ttings 🛛	<u>//</u> indow	<u>H</u> elp
Eamily: Syste	em Family: Stair		<u> </u>	Load											_ 8 ×
<u>Type:</u> 7" ma	ax riser 11'' tread		<u> </u>	)uplicate						T	ß	P	ress + Di	rag	7
Type Parameters	c			<u>R</u> ename											<b></b>
Pa	rameter		Value	▲											
Minimum Tread D	epth	0' 11"													
Maximum Riser H	leight	0' 7"													
Begin with Riser															
End with Riser															
Extend Below Ba	ase	0' 0"													
Trim Stringers at	Тор	Do not trim													
Tread Thickness	:	0' 2"				Г									2 -
Riser Type		Straight											+	10'-	
Riser Thickness		0' 1"					ſ	_		_	/	$\frown$		10 -	0
Riser to Tread Co	onnection	Extend Riser B	ehind Tread								· / .	0'-3" レーレ	N		
Nosing Length		0' 3" 🤍									$< 1^{-7}$	1 1	h.		
Nosing Profile		Stair Nosing - F	<sup>p</sup> an : Stair No	sing - P											
Apply Nosing Pro	ofile	Front Only									- X -		1		
Right Stringer		Closed					,					$\Box$	<u>/</u>		
Left Stringer		Closed										$\leftarrow$	1		
Middle Stringers		0													
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Stringer Height		1' 0"								L			_		
Open Stringer Of	ffset	0'0"													
Stringer Carriage	e Height	0' 21/2"								- AND	~				
Landing Carriage	e Height	0'7"													
Monolithic Stairs															
Landing Overlap		0'0"													
Underside of Win	nder	Smooth		<b>_</b>											
															-
<< <u>P</u> review	ОК	Can	cel	Apply		•									
						Click to	select	, TAB	for alter	nates, CT	RL adds	s, SHIFT	unsele	ects. L	eft a 🛛 🎵

"Nosing Length" set to 3" <u>Note</u>: The nosing length is measured from the end of the profile to the back of the next lower tread.

Type Properties		Autodesk Revit - [Example Stair.rvt - 3D View: {3D}]
		File Edit View Modelling Drafting Site Tools Settings Window Help
Eamily: System Family: Stair	Load	
Type: 7" max riser 11" tread	▼ <u>D</u> uplicate	Press + Drag
Type Parameters:	<u>R</u> ename	
Parameter	Value	
Minimum Tread Depth	0' 11"	
Maximum Riser Height	0' 7"	Front
Begin with Riser		
End with Riser		
Extend Below Base	0' 0"	
Trim Stringers at Top	Do not trim	
Tread Thickness	0' 2"	Diale
Riser Type	Straight	Right
Riser Thickness	0' 1"	
Riser to Tread Connection	Extend Riser Behind Tread	
Nosing Length	0' 1"	
Nosing Profile	<u>Stair Nosing - P</u> an : Stair Nosing - P	
Apply Nosing Profile	Front, Left and Right	
Right Stringer	None	
Left Stringer	None	
Middle Stringers	0	
Stringer Thickness	0' 2"	
Stringer Height	1' 0"	
Open Stringer Offset	0' 0"	
Stringer Carriage Height	0' 21/2"	
Landing Carriage Height	0' 7"	
Monolithic Stairs		
Landing Overlap	0' 0"	
Underside of Winder	Smooth	
<< Preview OK	Cancel Apply	
		Click to select, TAB for alternates, CTRL adds, SHIFT unselects. Left a

"Apply Nosing Profile" set to "Front Left and Right" (Other option are – "Front Only", "Front and Left", "Front and Right") Note: Left and/or Right nosing will only be visible if "Right Stringer" and/or "Left Stringer" parameters are set to "None" or "Open".

Type Properties	1	🛛 📝 Autodesk Revit - [Example Stair.rvt - 3D View: {3D}]
		File Edit View Modelling Drafting Site Tools Settings Window Help
Eamily: System Family: Stair	Load	
Type: 7" max riser 11" tread	Duplicate.	▼ Press + Drag ▼
Electric In the second second		
Type Parameters:	<u>R</u> ename	
Parameter	Value 🔺	
Minimum Tread Depth	0' 11"	
Maximum Riser Height	0' 7"	
Begin with Riser		
End with Riser		
Extend Below Base	0' 0"	
Trim Stringers at Top	Do not trim	
Tread Thickness	0' 2"	
Riser Type	Straight	
Riser Thickness	0' 1"	
Riser to Tread Connection	Extend Riser Behind Tread	
Nosing Length	0' 1"	
Nosing Profile	Stair Nosing - Pan : Stair Nosing - P	Open
Apply Nosing Profile	Frent Only	
Right Stringer	Open	
Left Stringer	None	
Middle Stringers		
Stringer Thickness	0' 2"	
Stringer Height	1' 0"	
Open Stringer Offset	0' 0"	
Stringer Carriage Height	0' 2 1/2"	
Landing Carriage Height	0' 7"	
Monolithic Stairs		None
Landing Overlap	0' 0"	
Underside of Winder	Smooth	
<< <u>P</u> review OK	Cancel Apply	
		Click to select, TAB for alternates, CTRL adds, SHIFT unselects. Left a

"Right Stringer" set to "Open" / "Left Stringer" set to "None" (default is "Closed")

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			1	<u>F</u> ile	<u>E</u> dit <u>V</u> iew	<u>M</u> odelling	<u>D</u> rafting	Sjte	<u>T</u> ools	<u>S</u> ettings	<u>W</u> indow	<u>H</u> elp
<u>H</u> amily:	System Family: Stair	<u> </u>	Load									
<u>T</u> ype:	7" max riser 11" tread	<b>_</b>	<u>D</u> uplicate					<b>–</b>	B	Pre:	ss + Drag	7
Type Par	ameters:		<u>R</u> ename		Example Sta	air.rvt - 3D	View: {3	D}				-D×
	Parameter	Value	<b>_</b>						4	500		
Minimum	Tread Depth	0' 11"						-7				
Maximum	n Riser Height	0' 7"					5	T				
Begin wit	th Riser						-	2				
End with	Riser											
Extend B	elow Base	0' 0"				2						
Trim Strin	ngers at Top	Do not trim										
Tread Th	ickness	0' 2"										
Riser Typ	0e	None					The second					
Riser Thi	ckness	0' 1"					- EP	R				
Riser to 1	Tread Connection	Extend Riser Behind Ti	read				-4	-A				<b>_</b>
Nosing L	ength	0' 1"										• //
Nosing P	rofile	Default			(- C).			>_W				
Apply No	sing Profile	Front Only			-xample Sta	air.rvt - Ele	vation: l	allou	t or So	uth		
Right Stri	inger	None								$\exists$		<u> </u>
Left Strin	ider	None										
Middle St	ringers	2										
Stringer	Thickness	0' 2"			_				_			
Stringer I	Height	1' 0"										
Open Str	inger Offset	0' 0"										
Stringer (	Carriage Height	0' 2 1/2"										
Landing	Carriage Height	0' 7"										
Monolithi	c Stairs								_			
Landing	Overlap	0' 0"			· - +			·	+ -			
Undersid	le of Winder	Smooth			1	0.   1.	- 0" [1	·- U"				-1
	4				オ	1	1		ৰ			) - C
<< <u>P</u> re	eview. OK	Cancel	Apply	كار								<u> </u>
				Click	to select,	TAB for all	ternates,	CTRI	_ adds,	SHIFT u	Inselects	:. Left a 🛛 🎵

"Middle Stringers" set to "2" <u>Note</u>: Middle Stringers will be spaced equidistant along their centerlines from the outside edge of the treads.

Type Properties	×	Autodesk Revit
Eamily: System Family: Stair	Load	<u>File E</u> dit <u>V</u> iew <u>M</u> odelling <u>D</u> rafting S <u>i</u> te <u>T</u> ools <u>S</u> ettings <u>W</u> indow <u>H</u> elp
Type: 7" max riser 11" tread	Duplicate	Press + Drag
Type Parameters:	<u>R</u> ename	Example Stair.rvt - 3D View: {3D}
Parameter	Value	
Minimum Tread Depth	0' 11"	
Maximum Riser Height	0' 7"	
Begin with Riser		
End with Riser		
Extend Below Base	0' 0"	
Trim Stringers at Top	Do not trim	
Tread Thickness	0' 2"	
Riser Type	Straight	
Riser Thickness	0' 1"	
Riser to Tread Connection	Extend Riser Behind Tread	
Nosing Length	0' 1"	
Nosing Profile	Default	
Apply Nosing Profile	Front Only	Example Stair.rvt - Elevation: West
Right Stringer	Closed	
Left Stringer	Closed	
Middle Stringers	0	
Stringer Thickness	<u> </u>	
Stringer Height	1' 3"	
Open Stringer Offset	<u> </u>	
Stringer Carriage Height	0' 2 1/2"	
Landing Carriage Height	0' 7"	
Monolithic Stairs		
Landing Overlap	0' 0"	
Underside of Winder	Smooth	
<< Preview OK	Cancel Apply	
		Click to select, TAB for alternates, CTRL adds, SHIFT unselects. Left a

"Stringer Height" set to 1' 3" (default is 1' 0")

Type F	Properties	×	🙀 Autodesk Revit	_ 🗆 ×
<b>F</b>			<u>File E</u> dit ⊻iew <u>M</u> odelling <u>D</u> rafting Site <u>T</u> ools <u>S</u> ettings <u>W</u> indow	<u>H</u> elp
<u>F</u> am	illy: System Family: Stair	Load		
<u>Type</u>	e: 7" max riser 11" tread	▼ <u>D</u> uplicate	Press + Drag	
Туре	e Parameters:	<u>R</u> ename	Example Stair.rvt - 3D View: {3D}	_D×
	Parameter	Value 🔺		
Minir	mum Tread Depth	0' 11"		
Max	imum Riser Height	0' 7"		
Begi	in with Riser			
End	with Riser			
Exte	end Below Base	0' 0"		
Trim	) Stringers at Top	Do not trim		
Trea	ad Thickness	0' 2"		
Rise	er Type	None		
Rise	er Thickness	0' 1"		
Rise	er to Tread Connection	Extend Riser Behind Tread		-
Nosi	ing Length	0' 1"		• //
Nosi	ing Profile	Default		
Арр	ly Nosing Profile	Eront Only	R Example Stair.rvt - Elevation: Callout of South	
Righ	nt Stringer	Open		
Left	Stringer	Open		
Mide	de Stringers			
Strin	nger Thickness	0' 2"		
Strin	nger Height	1'_ 0"		
Ope	n Stringer Offset	0' 3"		
Strin	nger Carriage Height	0' 2 1/2"		
Land	ding Carriage Height	0' 7"		
Mon	olithic Stairs		📗 📋 🔤 Level 1 🚄	
Land	ding Overlap	0' 0"		
Und	erside of Winder	Smooth		-1
			Click to select, TAB for alternates, CTRL adds, SHIFT unselects	s. Left a

"Open Stringer Offset" set to 3" <u>Note</u>: This parameter only works when the left and/or right string is set to open – the dimension is measured as shown above.

Туре Ргор	erties		×	🔣 Autode	sk Revit -	[Example	Stair.rvt	- Eleva	tion: West	]	_ 🗆 ×
				🐻 <u>F</u> ile <u>E</u>	dit <u>V</u> iew	Modelling	<u>D</u> rafting	Sjte <u>T</u> o	ools <u>S</u> ettin	gs <u>W</u> indo	w <u>H</u> elp
Eamily:	System Family: Stair		Load		_				-		_ 8 ×
<u>T</u> ype:	7" max riser 11" tread	<b>-</b>	Duplicate				<b>V</b>	P	Pres	s + Drag	7
Type Pa	rameters:		<u>R</u> ename								<u> </u>
	Parameter	Value	<b>_</b>	$\mathbb{H}//$							
Minimum	Tread Depth	0' 11"		<b>I</b> IX/							
Maximun	n Riser Height	0' 7"		IH/V							
Begin wi	ith Riser										
End with	n Riser										
Extend E	elow Base	0' 0"									
Trim Strin	ngers at Top	Do not trim									
Tread Th	nickness	0' 2"		IH I							
Riser Ty	pe	Straight									
Riser Thi	ickness	0' 1"		H							
Riser to	Tread Connection	Extend Riser Behind Tread	k l		$ \_ \frown $						
Nosing L	.ength	0' 1"			—//						1
Nosing P	Profile	Default									
Apply No	osing Profile	Front Only				`					
Right Str	inger	Closed									
Left Strin	nger	Closed				、		1			
Middle St	tringers	0			\$	$\sim$	K I				
Stringer	Thickness	0' 2"			2	'X	5 1		-		
Stringer	Height	1' 0"			v		~ "		$\pi' \searrow$	_	
Open Str	ringer Offset	<u> </u>			~			<hr/>		$\neg$	
	Carriage Height	0' 21/2"			$\sim$				Ш		
Landing	Carriage Height	0'7'									Lev€
Monolithi	ic Stairs										0'-
Landing	Overlap	0' 0"									•
Undersid	ae of Winder	Smooth									
											_
<< <u>P</u> r	eview OK	. Cancel	Apply	<u> </u>							
				Click to se	elect, TAB	for alterna	ates, CTI	RL adds	, SHIFT u	nselects.	Left i

"Stringer Carriage Height" set to 2<sup>1</sup>/<sub>2</sub>" (default)

Type Prop	erties		×	🔣 Autoc	lesk Revit ·	· [Example	Stair.rvt -	Elevation:	West]	- 🗆 ×
				🐻 <u>F</u> ile	<u>E</u> dit <u>V</u> iew	<u>M</u> odelling	<u>D</u> rafting S	<u>ite T</u> ools	<u>Settings</u> <u>W</u> ind	ow <u>H</u> elp
Eamily:	System Family: Stair		Load							_ 8 ×
<u>T</u> ype:	7" max riser 11" tread	•	<u>D</u> uplicate	<u> </u>			7	<b>P</b>	Press + Drag	7
Type Par	rameters:		<u>R</u> ename		6				#/	-
	Parameter	Value	▲							
Minimum	Tread Depth	0' 11"							//	
Maximum	n Riser Height	0' 7"				//			$T_{I}$	
Begin wi	ith Riser				- IA	/				
End with	Riser	<b>V</b>			ľ					
Extend B	elow Base	0' 0"			⊢ Ħ-				_ <del>_</del>	
Trim Strin	ngers at Top	Do not trim								
Tread Th	iickness	0' 2"								
Riser Typ	pe	Straight								
Riser Thi	ickness	0' 1"								
Riser to 1	Tread Connection	Extend Riser Behind Tre	ad							
Nosing L	ength	0' 1"								
Nosing Pi	rofile	Default			= \   [				++/	
Apply No	osing Profile	Front Only			٩T					
Right Stri	inger	Closed								
Left Strin	nger	Closed	-		$\sim$					
Middle St	tringers	0								
Stringer 1	Thickness	0' 2"								
Stringer I	Height	1' 0"								
Open Str	ringer Offset	0' 0"								
Stringer (	Carriage Height	0' 21/2"								
Landing (	Carriage Height	0' 6"								
Monulithi	<del>o Steire</del>									
Landing	Overlap	0' 0"								
Undersid	le of Winder	Smooth								
										-
<< <u>P</u> re	eview OK	Cancel	Apply							►
				Click to	select, TAB	for alterna	ates, CTRL	. adds, SH	IFT unselects	. Left i

"Landing Carriage Height" set to 6" (default is 7")

pe Properties	×	Autodesk Revit - [Example Stair.rvt - 3D View: {3D}]
Eamily: System Family: Stair	Load	File Edit View Modelling Drafting Site Tools Settings Window Help
Type: 7" max riser 11" tread	<u>D</u> uplicate	Press + Drag
Type Parameters:	<u>R</u> ename	
Parameter	Value 🔺	
Minimum Tread Depth	0' 11"	
Maximum Riser Height	0' 7"	
Begin with Riser		
End with Riser		
Extend Below Base	0' 0"	
Trim Stringers at Top	Do not trim	
Tread Thickness	0' 2"	
Riser Type	Straight	
Riser Thickness	0' 1"	
Riser to Tread Connection	Extend Riser Behind Tread	
Nosing Length	0' 1"	
Nosing Profile	Default	
Apply Nosing Profile	Front Only	
Right Stringer	Closed	
Left Stringer	Closed	
Middle Stringers	0	
Stringer Thickness	0' 2"	
Stringer Height	1' 0"	
Open Stringer Offset	0' 0"	
Stringer Carriage Height	0' 2 1/2"	
anding Carriage Height	0' 6"	
Monolithic Stairs		
anding Overlap	0"	
Underside of Winder	Smooth 🗨	
<< <u>P</u> review	DK Cancel Apply	Click to select, TAB for alternates, CTRL adds, SHIFT unselects. Left a

### "Monolithic Stairs" turned "On"

This parameter makes the configuration, more or less, a single mass. The stringers are automatically "opened" treads and risers are maintained as somewhat separate elements for purposes of applying different materials.

Type Properties	×	Autodesk Revit - [Example Stair.rvt - 3D View: {3D}]
Family: Quatom Family: Stair		Eile Edit View Modelling Drafting Site Tools Settings Window Help
Eamily. Joystem Family. Stair	Load	
<u>I</u> ype: 7" max riser 11" tread	Duplicate	Press + Drag
	Bename	
Type Parameters:		
Parameter	Value 🔺	
Minimum Tread Depth	0' 11"	
Maximum Riser Height	0' 7"	
Begin with Riser		וו חי היי
End with Riser		
Extend Below Base	0' 0"	
Trim Stringers at Top	Do not trim	
Tread Thickness	0' 2"	
Riser Type	Straight	
Riser Thickness	0' 1"	
Riser to Tread Connection	Extend Riser Behind Tread	
Nosing Length	0' 1"	
Nosing Profile	Default	
Apply Nosing Profile	Front Only	
Right Stringer	Closed	
Left Stringer	Closed	
Middle Stringers	0	
Stringer Thickness	0' 2"	
Stringer Height	1' 0"	
Open Stringer Offset	0' 0"	
Stringer Carriage Height	0' 2 1/2"	
Landing Carriage Height	0' 6"	
Monolithic Stairs		
Landing Overlap	0' 6"	
Underside of Winder	Stepped 🚽	
<< Preview OK	Cancel Apply	
		Click to select, TAB for alternates, CTRL adds, SHIFT unselects. Left a

"Landing Overlap" set to 6" (default is 0) and "Underside of Winder" set to "Stepped" (default is "Smooth")

This value is available when Monolithic Stairs is turned on and impacts only the stepped underside of winders. The measurement is taken from the end of the Nosing Profile to the back of the solid (monolithic) winder for the step below