AnyRail 7 manual

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1 Getting Started

We've designed AnyRail[™] to be as straightforward as possible. You can start experimenting with layouts as soon as you've installed the software. However, it's probably a good idea to read through this Getting Started guide.

1.1 Setting up

The **Settings** tab enables you to set up AnyRail to suit your way of working. Most of the default settings should be OK for now. However, you probably want to choose a measurement system and specify a work area right away.

1.1.1 Choosing a measurement system

By default, all measurements are metric. However, you can change this.

To specify a measurement system

1. Click the Settings tab:



2. Click Measurement system:



If you select **English fractional units**, AnyRail shows all measurements using fractions, e.g. 20 ³/₄. If you select **English decimal units**, the same value appears as 20.75. AnyRail accepts measurements in both formats.

1.1.2 Specifying a work area size

In AnyRail, you can set the outer limits of your work area.

To specify a work area size

- 1. Click the Settings tab.
- 2. Find the Work Area group:

File	Home	Show	Insert	Track libraries	Object	libraries (Jser object libr	aries	Settings	
P	7 Decima	ls:	Length	100	Grid	Endpoint	1.5	Minir	num radius 1	3
Moasuro	2	•	Width	50 J Width	1	Connection	1.5	Minir	num radius 2	0
system	זיי ז™					Control poir	nt 2	Minir	num radius 3	
	Units			Work area		Si	zes		Flex	

3. Enter a Length and Width.

1.1.3 Creating a table top

For indoor layouts, you'll probably want to draw a train table.

To add a table top

1. Open the Insert tab and find the Table top group:

File	Home	e Show	Insert	Track libraries	Object libraries	User object librari	ies	Settings			
Add line	Add surface	Add Wid Add rectangle	dth 10 ight 10	Add circle	Radius 10	Add image	Free	I ← → I ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Add height contour	Add ruler	Add text
Lines				Surfaces				Table top	Height contour	Ruler	Text

2. Click Template:

Template			
R			
L-0			
L-90			
L-180			
L-270			
L-Oi			
L-90i			
	Desition		
	X 0		
	y 0		
		ОК	Cancel

3. Select a template, change the values to match the desired dimensions, and click OK.

TIP: Use the **Position** coordinates to put the left top corner of the table top in a certain location.

Template	
L-180	
L-270	400
L-Oi	100
L-90i	300 200
L-180i	100
L-270i	
U-0	0.011/m
	x 0 y 0
	OK Cancel
	Cainei

The table top appears on the work area.



NOTE: Make sure the work area is large enough to contain the table top.

TIP: If none of the templates fits your needs, you can use the Free form function.

1.1.4 View drawing scale

This is roughly the scale at which things are displayed on screen. This is not to be confused with your modeling scale.

Don't rely on this for precise measurements, as the actual sizes depend on the size of your monitor.

To zoom in or zoom out

For fast zoom, press CTRL and use the mouse wheel.

Or:

1. Locate the View Scale slider in the lower right corner:



2. Move the slider to change the view scale.

Or:

1. Click the Home tab.



2. Select a View Scale.

When you set the view scale to 1:10, one centimeter in the plan represents 10 about centimeters in reality. However, this does not take into account your real screen size.

TIP: To quickly zoom, press CTRL and use the mouse wheel.

TIP: To zoom using the keyboard, press CTRL + or CTRL -.

NOTE: This setting has nothing to do with the train scale i.e.: TT, O, HO, etc. The train scale depends on which track library you use.

1.2 Track Libraries

The first thing you need is some track!

AnyRail keeps track in libraries, and has one for all the well-known manufacturers, including Atlas, Märklin, Lionel, Roco, Peco, and many others. Each piece of track matches the original as closely as possible - some of them were even created using the manufacturer's original CAD files.

1.2.1 Opening a track library

To open a Track Library

1. Click the Track libraries tab:

File	Home	Show Insert	Track libra	aries Obje	ect libraries	User object	libraries	Settings		
Aristo-C	raft • Lionel •	PLAYMOBIL -	USA	A Track LLC 👻	Mamod 🕶	Heyn 👻	Accucraft 🕶	KM1 🗸		
Bachmar	nn • Peco •	Sunset Valley Railro	ad 👻 Lior	nel 👻	Peco 👻	REGNER -	Hübner 🔻	Peco 👻	0	c
LGB 👻	Piko 🕶	Train Line 👻				Thiel 👻	Märklin 👻	Ypsilon 👻	•	-
		G	Star	ndard gauge	SM-32	Ш	1			

You'll see a group for each scale.

- 2. Click the name of the manufacturer to open the list of track libraries.
- 3. Select a track library:

File Home Show Insert Trac	k libraries Object librarie	User object	libraries Settings									
Aristo-Craft × Lionel × PLAYMOBIL × Bachmann × Peco × Sunset Valley Railroad × IGB × Piko × Train Line ×	USA Track LLC × Mamoo Lionel × Peco ×	 Heyn * REGNER * Thiel * 	Accucraft • KM1 • Hübner • Peco • Märklin • Yosilon •	0	s	H0	00	π	N	z	Eishindo	• Lego •
G	Standard gauge SM-33	11	I	*	·	*	Ť	Ť	*	*	т	Lego
									Arnolo	d *	Brawa *	British Fine
	N Bachmann E-Z Tra	:k					ų×		Atlas - Bachm	nann 🕶	Darstaed * Endo *	C+L Finesca Fast Tracks
	Part number Descri	otion Small t	track icons 🗌 Short tool	tips		_			~	N Bach N Bach	mann E-Z Tr mann	ack 🔓
	44801 44802 44804 44	311 44815 4482	20 44821 44822 44823	3 4482	4 4482	= 5 44829	9-1					
	44829-2 44829-3 44831	14832 44833 44	4834 44835 44836 44	840 44	■ 1841 441	841-1 4	4842					
	44843 44852 44853 44	3 54 44855 4485	66 44859 44860 4859	4486	1 4486	2 44863	3					
	44864 4863 44869 448	69-D 44875 448	876 44887 44897 448	91 448	99-1 44	899-2 4	4899-3					
	44899-4 46799											

You can have as many libraries open as you want. Don't worry, AnyRail won't link incompatible track pieces – unless you tell it to (see The AnyRail Settings Tab).

TIP: To open all the libraries used in a plan at once, click Open used libraries on the Home tab.

1.2.2 Browsing a track library

To browse a track library

The status bar at the bottom of the screen shows detailed information about the track.

H0 Kato Unitrack	Ψ×		
Part number O Description O Code D Small track icons D Short tooltips			
===-======	- 1		
2-105 2-111 2-120 2-130 2-140 2-141 2-142 2-143 2-150 2-151 2-152 2-1	53		
2-160 2-170 2-180 2-181 2-193 2-210 2-220 2-230 2-240 2-241 2-242R 2-2	42L		
*-	_		
2-250 2-251 2-252R 2-252L 2-260 2-270 2-280 (R370-22 5) H0 Kato Unitrack (urve radius ?	37cm angle 2	22
			_
2-841 2-850 2-851 S61R S61L 2-211 2-212 2-860 2-861 S94Q S97P 2-8	62		
2-280 (B370-22.5) H0 Kato Unitrack Curve radius 37cm angle 22.59			

- 1. Hover the mouse over the track to see the tooltip.
- 2. You'll see the full information in the status bar.

1.2.3 Closing a track library

To close a Track Library

• Click the little cross in the right upper corner of the track window:

H0 At	las Co	de 100	D	₽ ×
 Part 	numbe	r 🔿 De	escription	Close
Smi	all track rt toolti	icons ps		
	_	_	_	
150	151	152	153	
-				
155	168	171	172	
		*	×	

NOTE: You can also close a library the same way you opened it.

1.3 Docking and undocking a library window

Drag the Library window around like any other window. You can also *dock* it. This means that it will stop floating and stick to the edge of the main window.

To dock a Library window

• Drag the library onto one of the docking stickers:



TIP: To avoid docking, hold down *CTRL* while you move the library.

To undock a Library window

• Drag the library by the title bar to undock:



Nesting libraries

• Nest a library by dropping it onto the title bar of another library. Use the tabs to switch libraries:

00/H0 Peco Setrack Code 100	 μ×
\odot Part number \bigcirc Description \square Small track icons \square Short too	ltips
	1
ST200 ST201 ST202 ST203 ST204 ST205 ST220 ST221 ST22	2
	14
ST225 ST226 ST227 ST230 ST231 ST235 ST238 ST250 ST24	0
	-
ST241 ST244 ST245 ST247 ST-261 ST-263 ST-264 ST-266 ST-26 (Set) (Set) (Set) (Set) (Set)	57)
E = ■ +++	
ST-268 ST-269 ST270 PL-11 (Set)	
H0 Atlas Code 100 00/H0 Peco Setrack Code 100	
00/H0 Peco Setrack Co	de 100

TIP: To un-nest a library, drag it away by its tab.

1.4 Working with track

AnyRail is designed to make working with track quick and easy.

1.4.1 Adding track

To add a track Piece

There are three methods for adding new track:

Method 1: Click

• Click the track and the piece appears on the work area:

H0 Rc	co Lin	е							ą	×
Part	numbe	r 🔿 De	escriptio	n 🔿 Co	ode	Small t	rack ico	ns 🗌 S	hort tool	tips
		_		_		1	1			
42406	42410	42412	42413	42411	98000	98001	98002	98003	98008	
				_	_	_				
42419	42421	42422	42423	42424	42425	42426	42427	42428	42430	
	_									
42408	42409	42440	42441	42454	42497	42498	42448	42451	42488	
				42	2454 (D\	WW15),	H0 Rocc	Line, Th	ireeway ti	urnou
									/	
42489	42493	42496	42464	42465	42472	42473	42470	42471	42476	
							R	\mathbf{k}		
42477	42400	42401	42414	42615	42615	42616	42617	42267		

Method 2: Drag and drop

• Drag the piece from the library onto the work area:



Method 3: SHIFT-click to connect to the most recently added component

• Click piece while holding down the *SHIFT* key, and the new part automatically connects to the most recently added part:

H0 Roco Line	₽×
Part number O Description O Code	
Small track icons Short tooltips	
42406 42410 42412 42413 42411 98000	
98001 98002 98003 98008 42419 42421	
42422 42423 42424 42425 42426 42427	
42423 (R3), H0 Roco Line, Curve r	adius 4
42428 42430 42408 42409 42440 42441	
12/15/ 12/197 12/198 12/18 12/151 12/188	
42454 42457 42450 42440 42451 42400	

TIP: To undo the most recent action, click the Undo button, or press Ctr/-Z.

1.4.2 Track appearance

A few general settings control how track appears on your screen. You can find these in the ribbon Show tab:



• Select between the different styles.

Example 1: Centerline



Example 2: Track



Example 3: Detailed



NOTE: AnyRail displays sleepers for aesthetic reasons, only. The position shown is not intended to be exact, though the width is correct.

Example 4: Centerline with roadbed



NOTE: To avoid disappointment, use this option to check that the roadbed fits on your train table and that the tracks are not too close to each other. Of course you also have to take into account the width of the trains and the necessary extra clearance in curves.

1.4.3 Track build style

Track can have different build styles. This influences the drawing in 2D, but also in 3D.

Select the track first, so the Track tab appears.



Standard

The track is displayed as-is, both in 2D and 3D.



Hidden

The track is displayed as a dotted line in 2D. In 3D, it will be hidden, and a tunnel is created if necessary.



Embankment

In 2D, small lines indicate that the track is on an embankment. In 3D, the ground is shaped as an embankment.



Bridge

In 2D, trellis is drawn over the bridge. In 3D, the track is put on pillars.





1.4.4 Moving and connecting track

Use the mouse to move and connect your track pieces. By default, only track from the same track system can be connected. However, you can override this (see The AnyRail **Settings** Tab).

To connect track



1. Drag the track close to the target. Blue dots appear to indicate the endpoints that will connect.



2. Release the mouse button. A circle marks the connection point.

AnyRail will shift and rotate the track to create a perfect connection.

1.4.5 Disconnecting track

You can disconnect track using the popup menu or the ribbon.

To disconnect an endpoint using the popup menu



• Right-click the connection and select Disconnect.

The track does not move, but the connection disappears.

To disconnect an endpoint using the ribbon



1. Click the connection to select it.

The Connection tab opens automatically.

2. Click Disconnect on the Connection tab.

TIP: You can also press *DEL* on the keyboard to remove a selected connection.

To disconnect the track using the popup menu



• Right-click the track and select **Disconnect**.

To disconnect the track using the ribbon



1. Click the track to select it.

The Track tab appears automatically.

2. Click Disconnect.

1.4.6 Selecting track

Obviously, you can select one section of track by simply clicking it.

However, you can also use the mouse to select several pieces of track, and then move or alter them as one.

To select track



• Hold down the left mouse button and draw a box to select multiple pieces.



Selected track is highlighted in bold green.

• Drag one to drag them all.



• Use the handle to rotate the selection.



Depending on what you've selected, extra tabs appear on the ribbon.

Other ways to select or deselect pieces 17

CTRL + click each piece



• CTRL-click to add or remove a part to the selection.

Double-click a piece to extend the selection



• Double click to extend the selection in a logical manner.

Triple-click to select all connected track



SHIFT-click to extend the selection

Before:



• *SHIFT*-click to select the route from an already selected part to here.

After:



The shortest route is selected.

To deselect a single piece

• CTRL-click the piece.

To deselect all the pieces

• Press ESC.

NOTE: You can also copy, paste and delete track in the standard Windows way.

TIP: If you open AnyRail twice, you can copy and paste elements from one layout to the other.

1.4.7 Gluing track

If you want to make sure that you don't accidentally move track, you can glue it down!

To glue track

Method 1:



• Right-click the track and select Glue.

Method 2:



• Click the track to select it, then click Glue on the ribbon.

If you want to know whether track is glued, hover over it, and look in the status bar:



The status bar shows a glue pot whenever you hover over glued track.

1.4.8 Turntables

Many turntables require a special adapter or transition track from the same library in order to connect them to the regular tracks at the required angles.



Adapter track is used. Full information on a track element is always on the status bar when you hover it.

1.4.9 Closing gaps

If you use sectional track, you'll often find that it's difficult to make a perfect fit when your design becomes more complex.

Some manufacturers provide all sorts of filler track just for this purpose.

Sometimes you can make the track fit by using the play (wiggle room) in the track. While this can be considered cheating, sometimes you don't even notice that you're doing just that when laying real track.

In AnyRail, you can cheat a little bit as well.

In general, to close a small gap, you can often disconnect a stretch of track and rotate it one or two degrees to make your plan fit.

To close a gap

- Switch off Autoconnect in the Settings tab. When you do that, track will no longer jump into position, but will be left just where you dropped it. If there is another piece of track within the Distance (defined in the Settings tab, under Autoconnect) a connection will be made to it.
- 2. Disconnect a stretch of track and rotate it one or two degrees so it will fit.
- 3. Put the track back in place and make sure to connect the outer ends.
- 4. Turn Autoconnect back on.

NOTE: Only resort to this technique after you've tried to make your track plan fit properly.

1.4.10 Creating a helix

A Helix is a corkscrew made from track, with the purpose of bringing trains to another level of your layout.

In AnyRail, they're easy to generate from a single curve.

To create a helix

1. Right-click a single, unconnected curve of your choice. This can be a piece of flex, after you've used the curve flex function.



2. Select Create helix

eate helix	
tartpoint height	0
ndpoint height	40
lumber of loops	6
lope percentage	3.3%
leight per turn	6.67
Direction	
Clockwise	
Counterclockwise	

3. Enter the required values.

AnyRail displays the slope and the height clearance for the values entered.

- 4. Click OK.
- 5. To get an impression of the result, use the **3D view** from the **Home** tab:



1.5 Flex track

Many sectional track manufacturers also provide *flex track*. Flex track can be used to fill gaps. Its looser curves also give your layout a more natural look.

1.5.1 Basic Handling

Some libraries contain *flex track*, designed to be bent, stretched and trimmed. You can do this to AnyRail flex track by using the control points. These are the little crosses that appear at either end of a piece, and on either side of it. Dragging the control point changes the track.



AnyRail checks the track as you shape it and paints it red if:

- You over-stretch it
- You bend it into overly tight curves (likely to derail a train)

NOTE : Of course, these features can be switched off.

To connect flex track

• Connect flex track in the usual way by dragging it near another part.

Or:

• Drag one of the outer control points onto another endpoint.



AnyRail smoothes out the curves of the resulting track.

TIP: Pressing SHIFT while dragging a control point keeps it in a straight line.

1.5.2 Curves, straights and easements from flex

AnyRail can create (near) perfect arcs, easements and straights from flex track.

To create a straight, curve or easement

• Right-click the flex and select Straight flex..., Curve flex... or Easement flex....



Alternatively:

• Click the flex, and select from the ribbon.

Object libraries User object libraries	Settings	Tools Track							
end sward front forward Standard - Hidden - Embankment	O Bridge E	Extend selection Select section Select stretch	Disconnect	Add Remove solators isolators	Change direction	ut Lock heigh Track	Set Smooth t height slope		Straight flex Curve flex Easement flex
4			•					•	

A straight

• Set the length.

Set flex straight
Length 92
OK Cancel

A curve

Creating a precise curve (circular arc) is similar to straightening a piece of track.

• Set the angle and the radius of the curve.



An easement

An easement provides a smooth transition between a straight and a curve. Real railways always use them to avoid wear and tear, and to permit higher speeds. They also increase passenger comfort.

• Set the angle and the radius of the easement. Don't forget to indicate whether it's a left or right easement.



1.5.3 Parallel flex track

AnyRail can create parallel flex track.

To create parallel track

1. Right-click the flex track and select Add parallel flex....



2. In the dialog box, set a **Distance** and a position for the new flex track.



3. Click OK to see the result.



1.6 The ribbon and the popup menu

The ribbon

When you select something, the ribbon shows you what you can do with it and grays out any options that don't apply.

Example 1: Select a flex

A piece of track is selected. The Track tab opens.

		-					-		Tools	
File	Home	Show	Insert	Track libraries	Object libraries	User object li	oraries	Settings	Track	
Delete	Glue Rota	te Flip	Elevate	Layer: Layer 1	Send to Senc back backwa	Bring to Bring rd front forwa	rd C) Standard) Hidden) Embankment	○ Bridge	Ex Se Se
					+					7
						+				,

Example 2: Select a flex, a surface, and some text

The track, the surface, and the text are selected. A tab for each appears. A fourth tab appears for functions that apply to the selection as a whole. A fifth tab provides grouping functions.



The popup menu

A handy feature of AnyRail is the menu that "pops up" with relevant options whenever you right-click something.

Example 1: Right-click a stretch of track

• Right-click to open the popup menu.



Options that don't apply to the selection are grayed out.

Example 2: Right-click a connection

• Right-click to open the popup menu.



There's a description of each option in the Reference guide. The next couple of chapters cover the more commonly used ones.

1.7 Pieces, stretches and sections

AnyRail thinks of your track as being made up of *pieces*, *stretches* and *sections*.

Pieces and stretches

A *piece* of track is just that – any one of the components you select from the Track Libraries. A *stretch* of track is a piece and all pieces connected to it. Many AnyRail options apply to stretches rather than pieces. A *section* of track is something that *you* create, and requires more explanation.



In orange is a color coded section.

Sections

A section is a stretch of track with a specific function or purpose, as defined by you. You can turn any stretch - that is a connected group of pieces - into a section, as long as both ends have an isolator.

Sections are useful in both conventional and digital operation:

- In conventional (analog) operation, you need to feed stretches of track individually to control trains independently of each other. This enables you, e.g., to switch off a section's power to stop a train for a red signal.
- In digital operation, especially with a PC, it is often handy to know where trains are so that the software can control them. Usually, the layout is divided into sections of track, each with its own occupancy detector. The shorter the sections, the more accurate the positional information.

NOTE: Once you've created a section, you can change its properties such as color, name and usage. You can also see a list of sections. This is helpful when calculating how many occupancy detectors you need.

1.7.1 Working with sections

Here are the two methods for creating a section.

Method 1: Creating a section from selected track

1. Select the track for the section.



2. Right-click the selected track and click Create section. Or just click Create section on the ribbon.

braries User object libraries User object libraries Standard Hidden Hidden Embankment	Settings	Tools Track Extend selection Select section Select stretch	isconnect Add	Change direction Remove isolators Track	Lock Set Smooth height height slope	abel Create	
		Delete Addisolators Greate section Cat Copy Seearch these parts Details					

Method 2: Creating a section from isolated track

1. Right-click and isolate each connection.



A triangle indicates an isolated connection.

A natural endpoint does not require an isolator.

2. Right-click within the isolated tracks and select Create section.



The newly created section changes color:



TIP: Of course, you can also use the ribbon to create the section. Left-click one piece of track within the isolated tracks to select it, and click **Create Section** in the ribbon.

To change a section's properties

1. Left-click a piece of track in the section.

The ribbon opens the **Track** tab with a *Section* group:



2. Select or enter a Description and enter a Name.

The name appears on the layout.

The software tries to find the best way to position the text.

To change a section's color

1. In the ribbon Track tab, Section group, select Color.



A selection of colors appears. Click More colors... for more choices.

2. Select a color.

The section changes color.

1.8 Working with height

Few model railway layouts are entirely on the same level. Fortunately, AnyRail can handle track at varying heights.

If you want to make sure that the height of a certain point is not changed accidentally, right-click it, and select **Lock height**.



The point turns blue and yellow to indicate that its height is locked:



When the height is locked, the connection is colored blue and yellow, and drawn as a diamond. Also, a lock is shown in the status bar when hovered.

1.8.1 Displaying heights

Before working with heights, it helps to switch on their display.

To display heights

1. In the ribbon Show tab, find the Info group:

	₽ 🖓 🛓									
File	Home	Show	Insert T	rack libraries Object lib	oraries User object librarie	s Settings				
O Centerlin	ne 🗌 Road	bed	✓ Hidden track	Endpoints	✓ Flex too long	 Sections 	Label	✓ Slope percentages	✓ Glue	 Control points
○ Track	Trace		✓ Visible track	 Connections 	✓ Flex too sharp curves	✓ Name	Part nuer	✓ Height	Reverse loops	Pages
 Detailed 		[Track ends	✓ Track control points	Inaccurate connections	Description	Part code	Vertical clearance	Guides	
				Track		Section		Inf	fo	

2. Tick Slope percentages and Height.

Heights and slopes now appear on the track:

22% 05 22% 22% 15 22% 2

1.8.2 Specifying heights

There are various ways to create a slope, or set the height of track.

As it can be on a slope, a piece of track doesn't necessarily have a single height. AnyRail works out the height based on the track's endpoints and connections.

You can specify a certain height for a stretch of track, and then ease the connected track into sensible gradients.

AnyRail will show a warning if slopes are too steep.

TIP: If your tracks cross, make sure you leave enough headroom for the lower train, and any possible overhead lines! Bear in mind the thickness of the tracks, the sleepers, and the actual bridge.

To set selected track to a certain height

1. Right-click the selected track, and click Set height....

 bject libraries Settings Standard Bridge Hidden Embankment 	Tools Track Extend selection Select section Select stretch Change direction Lock Select stretch Change direction Lock Select stretch Track
2.2%	0 5 2.2% 2.2% ✓ Delete Rotate ▲ Flip ✓ Set height ✓ Oisconnect ✓ Smooth slope ✓ Cut ✓ Search these parts ✓ Details

Or just click Set height... on the ribbon.

2. Enter a value for the height.

4	2.2%	0 5	-2.2%			1 5	2.2%	2
			Set height					
			Height		1.5 T			
				ОК	Cancel			
4	6.5%	1.5		1.5		1.5	2.2%	2
	- N	1		+		1		
		•						
AnyRail	has set the	height to	the given	n value.				

NOTE: Steep gradients are displayed in red.

To specify a height for a point

This function is useful when you want to set the height of an individual point.

• Click the point (this is an endpoint or a connection), and set the Height on the ribbon.

To create a slope

This function creates a slope starting from a connection or an endpoint.

- 1. Right-click the point (this is an endpoint or connection), and select Create slope....
- 2. Enter heights for startpoint, endpoint and slope percentage. Select the direction in which to create the slope from this connection.



AnyRail created the slope:



To create a smooth slope

Sometimes, it's useful to create a slope between two points, where AnyRail calculates a linear descent percentage. This is called a smooth slope.

There are a few restrictions when creating a slope from point A to point B.

- All the track on the slope should be connected.
- There should be only one 'path' from A to B.
- The path may go through turnouts and crossings, but the path may not split to a third point.

NOTE: This feature works best when A and B have a different height!

Example

The height of point A is 0. The Height of point B is set to 5.

- 1. Select the stretch for which you want a smooth slope.
- 2. Click Smooth slope to create a linear slope.



The height at each point is calculated to make a smooth slope:



Too steep slopes are displayed in red.

To set the maximum percentage for slopes

All gradients exceeding this value are displayed in red.

1. Open the ribbon Settings, and locate Slopes.

Object libr	aries Us	er object libraries	Settings						
Endpoint	1.5	Minimum radius 1	36	Distance	0.3	Maximum %	3	✓ Autoconnect	Snap to grid
Connection	1.5	Minimum radius 2	0	Angle (°)	3	Min. vertical clearance	0	Distance 1.2	
Control point	2	Minimum radius 3						\checkmark Allow mixed rails	
Size	25	Flex		Tolera	nces	Slopes		Behavi	or

2. Set Maximum %.

1.9 The status bar

There's a lot to keep track of if you use all of AnyRail's features. The good news is that the status bar is a mine of information:

cm (53.36, 17.11) (48.19, 17.42, 0.63) 23 Layer 1 Layer 1 42410 (G1), H0 Roco Line, Straight 23cm. Main (Detection) 🖻 1:5 - 🕂 🕂

See below for the meaning of each field.

To customize the status bar

• Right-click the status bar to change the active fields.



1.10 More than just track

Being enthusiasts ourselves, we suspect that your layout will contain more than just track!

For this reason, AnyRail enables you to draw shapes onto your layout to represent scenery, such as stations or landscape features.

Of course, you can draw your train table or your garden.

You can also mark track as hidden, and add text labels and position them as required.

Additionally there are plenty of predefined elements.




1.10.1 Adding lines and surfaces

To add a line

- 1. Open the **Insert** tab.
- 2. Click Add line.

D 🖻		₹										
File	Home	Show	Insert	Track libraries	Object libraries	User object libra	aries	Settings				
Add Line	Add line	Add Hei ectangle	dth 10 ight 10	A	Radius 10	Add image	Free form	← → □□ Template Module	Height contour	Add ruler Ruler	Add text Text	

3. Click for each point on the line.



4. Double click to finalize.

TIP: You can also right-click on the work area, and select Add line from the popup menu.

To add a surface

- 1. Open the Insert tab.
- 2. Click Add surface.



3. Click for each corner.



4. Double click to finalize.

TIP: You can also right-click on the work area, and select Add surface from the popup menu.

To add a point to the line or surface

- 1. Right-click where you want to add a point.
- 2. Select Add point.



A new point is added.

TIP: You can add a point by hovering over the line and pressing 'p'.

To delete a point

- 1. Right-click the point.
- 2. Select Delete point.



TIP: To quickly delete a point, click it and press Delete.

To move a point

• Simply drag the point to move it.

To position a point

Sometimes you need to precisely position a point.

- 1. Click the point to activate it.
- 2. Enter the precise \mathbf{x} and \mathbf{y} position.

File	Home	Show	Insert	Track libra	aries	Object li	ibraries	User object
x 37.22 y 9.35		Move point Move line	Nor Rou Curv	mal corner nd corner ved corner	Delete	Add point	\rightarrow	**
Point								

To create round corners

You can create round or curved corners for points that have neighboring points. The points at the end of the line cannot be set to round or curved.

- A Round corner is a perfect arc. A part of a circle.
- A Curved corner is a curve halfway to each neighboring point.



1.10.2 Manipulating surfaces

This topic covers a few special functions for surfaces.

To move a line



1. Hover on a line and press SHIFT. The line becomes bold.



2. Drag the line while holding down *SHIFT* to change the shape.

To resize the shape



1. Hover on a point and press SHIFT. All the shape's points light up...



2. Drag the point to enlarge or shrink the shape.

1.10.3 Adding text

You can place text anywhere on your layout plan, for example to label features or make notes to yourself.

To add text

- 1. Find the ribbon Insert tab, and click Add Text.
- 2. Click in the work area.
- 3. Enter your text and press Enter.

NOTE: Depending on the scale of your drawing, the initial text may be very small. To change the size, left-click the text, and set the size in the ribbon.

NOTE: To create a newline, use SHIFT-Enter.

To change the appearance

• Left-click on the text and select one of the options from the ribbon Text tab.

To edit existing text

• Double-click the text.

To move the text

• Place the cursor on the text, left-click and hold to drag the text.

You can also add names to sections of track. See Working with Sections.

1.10.4 Adding rulers

To add a ruler

- 1. Find the Insert tab, and click Add Ruler.
- 2. Click in the work area.
- 3. Size the ruler by dragging its end points.

To change the appearance

• Left-click on the ruler and select one of the options from the ribbon Rulers tab.

To move the ruler

• Place the cursor on the ruler, left-click and hold to drag the ruler.

1.10.5 Predefined elements

AnyRail has a number of predefined elements that you can find in the Object libraries tab.

These include:

Scenery elements



Signals





Structures



1.10.6 Groups

You can combine lines, surfaces and text into a Group. Other types of elements cannot be grouped.

To create a group

- 1. Select all the elements that should form the group.
- 2. Open the Groups tab that appears.
- 3. Click Group.

```
NOTE: Track cannot be grouped.
```

1.11 Layers

AnyRail layers let you show or hide different parts of your layout plan while you're working on it, e.g. to hide scenery while working on track.

It's up to you how to arrange them. A layer can contain all sorts of elements, on all heights. (Really, a layer is just an arbitrary group of elements.)

There is always one active layer. This layer is always visible. New elements are always added to the ative layer.

1.11.1 The Layers pane

Maintain your layers using the Layers pane.

From this pane, you can add, delete, and rename layers. You can also pick which layers are visible.

To add a layer

- 1. Navigate to the Home tab.
- 2. Click Layers.



3. Click Add layer.



To remove a layer

• In the layers pane, click the little red cross to delete a layer.

CAUTION: Deleting a layer deletes all the elements it contains! If you press **Delete layer** by accident, you can always use **Undo** (Ctrl-Z).

To rename a layer

• In the layers pane, double click the layer name so you can edit it.

NOTE: AnyRail makes sure that each layer has a unique name.

To make a layer visible or invisible

• In the layers pane, click the lamp in front of the layer name.

NOTE: You cannot make the active layer invisible.

To lock a layer

• In the layers pane, click the padlock in front of the layer name.

NOTE: You cannot lock the current layer.

NOTE: The active layer is bold and has a green background.

TIP: Click a layer name to make it the active layer.

1.11.2 Moving objects to another layer

Of course, it might happen that you decide to move something to another layer. That's easy.

To move objects to another layer

- 1. Select the objects.
- 2. In the ribbon, select the target layer.

Example



1.12 3D Viewer

AnyRail provides a way to get a 3D impression of your design.

To go to the 3D View

• Click 3D View on the Home tab.



1.12.1 Navigating

The 3D viewer provides two different cameras.



Standard camera

This camera allows you to quickly go around the layout using the mouse only.

The camera is aimed at one point, initially at the center of your layout, the pivot point.

To navigate

• Use the mouse wheel to zoom in and out

- Hold down the left mouse button and move the mouse to move around the focal point. The pivot point remains the same.
- Hold down the right mouse button and move the mouse to pan. This changes the pivot point.

FPS camera

This camera works much like the camera in a *First person shooter* type of game. You can move around, and just get to see whatever you look at. You need to use the mouse and the arrow keys on your keyboard.

To navigate

- Hold down the left mouse button and move the mouse to change the viewing direction.
- Use the arrow keys to move forward, backwards, and sideways. Hold down the right mouse button to double your speed.

Tip: In case you get lost, click the Camera back to starting point button.



1.12.2 Lights

You can change the lights for the scene.

There is a light at each corner, a top light, and ambient light.

• Move sliders to change the light.



1.12.3 Snapshot

You can take a snapshot of the 3D view at any time.

To make a snapshot

• Click the snapshot button.



1.13 User objects

You can save your creation as a *user object* for later reuse. You can even share user objects with other AnyRail users.

1.13.1 Creating a user object

You can create a user object out of a single line or surface, or from any *group* which can contain lines, surfaces and text.

To create a user object

1. Right-click the group and select Save as object.



A dialog appears.

2. Select a category and fill out the other fields.

Description		
Category	Unspecified	×
Scale	Scenery	
Name Manufacturer	House	
Part number	I Bridge	
Description	C Tunnel	
	Train	
Author		
Author	Vehicle Ship Crossing Signal/Light Animal	

3. When done, click OK.

Category Image: Category Scale H0 Name Peterbilt tractor Manufacturer Tonkin Part number 389 Description Tractor Truck Author Steve	Description		
Category Unspecified Scale H0 Name Peterbilt tractor Manufacturer Tonkin Part number 389 Description Tractor Truck Author Steve			
Scale H0 Name Peterbilt tractor Manufacturer Tonkin Part number 389 Description Tractor Truck Author Steve OK Cancel	Category	Unspecified	
Name Peterbilt tractor Manufacturer Tonkin Part number 389 Description Tractor Truck Author Steve	Scale	HO	
Manufacturer Tonkin Part number 389 Description Tractor Truck Author Steve	Name	Peterbilt tractor	
Part number 389 Description Tractor Truck Author Steve	Manufacturer	Tonkin	
Description Tractor Truck Author Steve OK Cancel	Part number	389	
Author Steve	Description	Tractor Truck	
OK Cancel	Author	Steve	
			OK Cancel

The user object is added to the correct library in the User object libraries tab.

1.13.2 Managing user objects

To take a look at your user objects, open the User object libraries tab.



To update your user objects

1. Make sure you have a working internet connection.

2. In the User object libraries tab, click Download new items.

To open a library of user objects

The items are ordered per scale, per manufacturer in alphabetical order.

• Select a library to open it.

The user objects are displayed just like the regular track items.

Boley Dept	: 1-87, H0			Į×
		D		
2032, 20 Skiploader 76	59-17, International 00 Fire Brush Truck	3001-96, 2003 GMC Topki Single Axle Box Truck	ick 3018-86, Auxilliary Tan	3018-86, k Double Tanker
			00m <mark>j0</mark>	
3018-86, Tank with Trailer	er 3019-27, 3024 Police Van Trimm	-00, Tree 4111-16, 41 ner Truck Cement Mixer 76	113-96, Internati 00 Dual Axle Fla	onal tbed
0	())	1000	0	
4114-26, Flatb Wrecker	ed 4114-26, Typica Longbed Truck	4125-17, International 7600 Single Axle Flatbed	4127-99, Garbage Truck	4173-87, Crew Cab Fire Tanker
¢©:			()	
4506-86, Cement Mixer	4511-86, Coal 4573 Dump Truck Cit	3-87, Crew Cab N/A, 12m S ty Fire Engine Trailer	Spine Truck 040 Delivery Tr	02, ruck

NOTE: Your own objects have a blue border.

To share a user object

If you've created an object you want to share, you can upload it to the AnyRail servers.

1. Right-click the object's button and click Details.



2. Check the details one more time and click Share (upload).

Details				
Category	[🚙 Vehicle	9	~
Scale		HO		~
Name		Flatbed Wre	ecker	
Manufacturer		Boley Dept	1-87	~
Part number		4114-26		
Description		Internationa	al Flatbed Wrecker	
Author		William N. (Coxe, Jr.	
C:\Users\Dav	vid\AppData\Loca	l\AnyRail\U	doRepos500\H0\Boley Dep	ot 1-87∖25b20444-91d7-₄
L				
			Share (upload)	Reset
	Delete		ОК	Cancel

3. Please read the warning carefully before you click OK.

Warning	
Ţ	You agree to DONATE this object to the Public Domain (The whole world) and will not make any claims to ownership after it is uploaded.
	OK Cancel

NOTE: Other people won't see your objects right away - we have to approve them first.

1.14 Finishing up

Once you've completed the design, you'll need to get it in some sort of usable form. It's simplest just to print the layout. However, you can also save parts of it as pictures – useful for emailing your friends or to publish your track plan on a forum.

In addition, you can view lists of materials and sections.

1.14.1 Saving your work

You can save AnyRail design files just as you would with any other Windows software. You might also find **Save as** useful for recording different stages of your design.

To save your file

• From the File tab, select Save.

To save your file with a new name and location

• From the File tab, select Save As. A standard file window opens, allowing you to save a copy of your file. The old one is untouched.

Auto-save

AnyRail auto-saves your work every 10 minutes in a separate folder. If AnyRail closes in a normal way, these auto-saved files (except for one) are deleted to preserve disk space.

In case your computer crashes, or if AnyRail terminates in an unexpected way, you can find a recent copy in the **Autosave folder**.

To find an auto saved file

- 1. Open the File tab.
- 2. Select Help.
- 3. Click the button tagged Autosave Folder.

NOTE: The most recent file you find is probably your best choice.

1.14.2 Print preview

Color ink is expensive! Also, it can be annoying to wait while a design prints out, only to discover that the settings were not quite right. For this reason, AnyRail enables you to see what your printout is going to look like.

To preview your printout

• From the File tab, click Print. AnyRail displays a preview of your printout.

1.14.3 Printing your design

To print your design

- 1. From the File tab, select Print.
- 2. Review your settings and click the Print button.

The design prints at the specified scale, using several pages if required.

NOTE: Printing a large layout in a large scale takes a lot of processing power and resources. Each page is a picture, so it might take a while depending on your computer.

TIP: To print your layout to real size, set the view scale to 1:1. However, before clicking **OK**, check the number of pages it will take!

1.14.4 Generating pictures

You can either create a picture of whatever is in view, or of the complete plan.

To generate pictures

- 1. If required change the view scale. The scale slider is in the lower right corner of the status bar.
- 2. Use the scroll bars to get the exact picture you want if you need to crop the layout.
- 3. From the ribbon File tab, select Export As, then in the right pane, click Picture.

A window appears:

Expo	Export picture								
۲	Entire plan View area only								
S	Size								
	Width 1889 Height 1889								
	Units	 pixels 	\bigcirc cm	inches					
	DPI 96								
	OK Cancel								

4. Click OK. A standard File window opens.

5.Save the file in the required graphics format.

WARNING: THIS IS NOT THE SAME AS SAVING YOUR TRACK PLAN! These pictures cannot be reloaded into AnyRail.

1.14.5 Generating a 3D file

You can generate a 3D file that can be imported into most 3D drawing programs. The available formats are: stl, dae, ply, 3ds, stp and obj.

To create a 3D File

- 1. Open the File tab.
- 2. Select Export as.
- 3. Select 3D File.
- 4. Choose which categories you wish to export.
- 5. Type or select a file name, and press Save.

1.14.6 Generating a TrainPlayer file

You can generate an intermediate file that can be imported by *TrainPlayer*, a program that simulates running trains on a layout. For more information, please go here.

To create a TrainPlayer file

- 1. Open the File tab.
- 2. Select Export as.
- 3. Select TrainPlayer export file.
- 4. Type or select a file name, and press Save.

1.14.7 Generating a list of materials

The list of materials contains all the track you've placed on the layout. It also shows the total track length, and the track length per track element.

To generate a list of materials

- 1. Open the Home tab.
- 2. Here, select List of materials.

The list of materials opens:

*Track 2 2501, N Atlas Code 80, Straight 4 7/8". 2 2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 2 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 50 2513, N Atlas Code 80, Straight 4 7/8". (bulk) 12 2515, N Atlas Code 80, Straight renailer 4 7/8". (bulk) 11 2521, N Atlas Code 80, Straight renailer 4 7/8". (bulk) 11 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2701, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (remote) 3 2702, N Atlas Code 80, Straight 4 7/8". (5° (remote) 3 2702, N Atlas Code 80, Straight 4 7/8". 15° (remote) 3 2501, N Atlas Code 80, Straight 4 7/8". (15° (remote) 2 *Track lengths 9 25/32 2513, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2515, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2515, N Atlas Code 80, Straight 7/8". (bulk) 58 3/4 2517, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Straight renailer 4 7/8". (bulk) 53 27/3	*Track 2 2501, N Atlas Code 80, Curve radius 9 13/16", angle 30° 2 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 50 2513, N Atlas Code 80, Straight 47/8". (bulk) 12 2515, N Atlas Code 80, Straight 47/8". (bulk) 12 2517, N Atlas Code 80, Straight 47/8". (bulk) 11 2521, N Atlas Code 80, Straight rerailer 47/8". (bulk) 11 2521, N Atlas Code 80, Straight rerailer 47/8". (bulk) 11 2521, N Atlas Code 80, Straight 47/8". (sulk) 11 2521, N Atlas Code 80, Right turnout 47/8". (sulk) 12 2701, N Atlas Code 80, Right turnout 47/8". (semote) 3 2702, N Atlas Code 80, Straight 47/8". (semote) 3 2501, N Atlas Code 80, Straight 47/8". (semote) 2 *Track lengths 9 25/32 2513, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Straight 47/8". (sulk) 58 3/4 2515, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2513, N Atlas Code 80, Straight 47/8". (sulk) 58 3/4 2515, N Atlas Code 80, Straight 47/8". (sulk) 53 27/32 2513, N Atlas Code 80, Curve radius 11 3/32", angle 15° 12 15/16 2701, N Atlas	Combine flex	
2501, N Atlas Code 80, Straight 4 7/8". 2 2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 2 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 50 2513, N Atlas Code 80, Straight 4 7/8". (bulk) 12 2515, N Atlas Code 80, Straight 4 7/8". (bulk) 12 2517, N Atlas Code 80, Straight 4 7/8". (bulk) 11 2521, N Atlas Code 80, Straight 4 7/8". (bulk) 11 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2701, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (remote) 3 2702, N Atlas Code 80, Straight 4 7/8". 10' *Track lengths 9 25/32 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 5/32 2513, N Atlas Code 80, Curve radius 9 13/16", angle 30° (bulk) 58 3/4 2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N	2501, N Atlas Code 80, Straight 4 7/8". 2 2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 2 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 50 2513, N Atlas Code 80, Straight 4 7/8". (bulk) 12 2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 7 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2701, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2701, N Atlas Code 80, Left turnout 4 7/8". 15° (memote) 3 2702, N Atlas Code 80, Straight 4 7/8". 9 25/32 2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2517, N Atlas Code 80, Straight 4 7/8". 9 25/32 2501, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Straight 4 7/8". 9 25/32 2510, N Atlas Code 80, Straight 4 7/8". 9 25/32 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2513, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2514, N Atlas Code 80, Straight 4 7/8". 58 3/4 2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701	*Track	
2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 2 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 50 2513, N Atlas Code 80, Curve radius 9 13/16", angle 15° 12 2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 7 2517, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 7 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 3 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (remote) 3 2701, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 *Track lengths 2 2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° (bulk) 40 21/32 2513, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 58 3/4 2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 53 27/32 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Left turnout 4	2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 2 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 50 2513, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 12 2517, N Atlas Code 80, Straight 47/8". (bulk) 11 2521, N Atlas Code 80, Straight 47/8". (bulk) 11 2517, N Atlas Code 80, Straight renalier 47/8". (bulk) 11 2517, N Atlas Code 80, Straight renalier 47/8". (bulk) 11 2517, N Atlas Code 80, Straight 47/8". (sple) 3 2701, N Atlas Code 80, Right turnout 47/8". 15° (remote) 3 2702, N Atlas Code 80, Straight 47/8". (sple) 9 2510, N Atlas Code 80, Straight 47/8". (sple) 9 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2513, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 12 5/7/32 2521, N Atlas Code 80, Straight 47/8". (bulk) 53 27/32 2521, N Atlas Code 80, Right turnout 47/8". 15° (remote) 29 9/16	2501, N Atlas Code 80, Straight 4 7/8".	2
2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 50 2513, N Atlas Code 80, Straight 4 7/8". (bulk) 12 2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 7 2517, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 11 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 3 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (remote) 3 2701, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 *Track lengths 2 *10, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 2511, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 58 3/4 2517, N Atlas Code 80, Curve radius 11 3/32", angle 30° 512 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2521, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 <td>2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 50 2513, N Atlas Code 80, Straight 47/8". (bulk) 12 2515, N Atlas Code 80, Straight 47/8". (bulk) 11 2521, N Atlas Code 80, Straight reniler 47/8". (bulk) 11 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2701, N Atlas Code 80, Left turnout 47/8". 15° (remote) 3 2702, N Atlas Code 80, Straight 47/8". 15° (remote) 3 2701, N Atlas Code 80, Straight 47/8". 15° (remote) 3 2510, N Atlas Code 80, Straight 47/8". angle 30° 10 1/4 2511, N Atlas Code 80, Straight 47/8". angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 11 3/32", angle 15° 128 5/32 2513, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 50 27/32 2521, N Atlas Code 80, Right turnout 47/8". (bulk</td> <td>2510, N Atlas Code 80, Curve radius 9 13/16", angle 30°</td> <td>2</td>	2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 50 2513, N Atlas Code 80, Straight 47/8". (bulk) 12 2515, N Atlas Code 80, Straight 47/8". (bulk) 11 2521, N Atlas Code 80, Straight reniler 47/8". (bulk) 11 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2701, N Atlas Code 80, Left turnout 47/8". 15° (remote) 3 2702, N Atlas Code 80, Straight 47/8". 15° (remote) 3 2701, N Atlas Code 80, Straight 47/8". 15° (remote) 3 2510, N Atlas Code 80, Straight 47/8". angle 30° 10 1/4 2511, N Atlas Code 80, Straight 47/8". angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 11 3/32", angle 15° 128 5/32 2513, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 50 27/32 2521, N Atlas Code 80, Right turnout 47/8". (bulk	2510, N Atlas Code 80, Curve radius 9 13/16", angle 30°	2
2513, N Atlas Code 80, Straight 4 7/8". (bulk) 12 2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 7 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2701, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 3 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (remote) 3 2701, N Atlas Code 80, Straight 4 7/8". 9 25/32 2510, N Atlas Code 80, Straight 4 7/8". 9 25/32 2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2513, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2513, N Atlas Code 80, Curve radius 9 13/16", angle 30° 12 85/32 2513, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 12 15/16 2701, N Atlas Code 80, Curve radius 11 3/32", angle 15° 12 15/16 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout	2513, N Atlas Code 80, Straight 4 7/8". (bulk) 12 2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 7 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 3 2702, N Atlas Code 80, Straight 7/8". 9 *Track lengths 2 *Track lengths 9 2511, N Atlas Code 80, Straight 4 7/8". 9 2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 *Track lengths 9 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 2513, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 2514, N Atlas Code 80, Curve radius 11 3/32", angle 15° 128 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 2510, N Atlas Code 80, Left turnout 4 7/8". 15° (remote) 29 2702, N Atl	2511, N Atlas Code 80, Curve radius 9 13/16", angle 15°	50
2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 7 2517, N Atlas Code 80, Straight rerailer 4 7/8". (bulk) 11 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 3 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (remote) 3 2701, N Atlas Code 80, Straight 4 7/8". 15° (remote) 3 *Track lengths 2 2501, N Atlas Code 80, Straight 4 7/8". 9 25/32 2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2513, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2515, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2517, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Right turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32"	2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 7 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 11 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (memote) 3 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (memote) 3 2701, N Atlas Code 80, Straight 4 7/8". 15° (memote) 2 *Track lengths 9 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 5/32 2513, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 5/32 2513, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2515, N Atlas Code 80, Right turnout 4 7/8". 15° (memote) 29 9/16 2702, N Atlas Code 80, Right turnout 4 7/8". 15° (memote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32" *Connections 129	2513, N Atlas Code 80, Straight 4 7/8". (bulk)	12
2517, N Atlas Code 80, Straight rerailer 4 7/8". (bulk) 11 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 3 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (remote) 3 2701, N Atlas Code 80, Left turnout 4 7/8". 15° (remote) 2 *Track lengths 2 2501, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 5/32 2513, N Atlas Code 80, Curve radius 9 13/16", angle 30° (bulk) 58 3/4 2517, N Atlas Code 80, Curve radius 9 13/16", angle 30° (bulk) 58 3/4 2517, N Atlas Code 80, Curve radius 9 13/16", angle 30° (bulk) 53 27/32 2513, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 53 27/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2510, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2510, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32"	2517, N Atlas Code 80, Straight rerailer 4 7/8". (bulk) 11 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2701, N Atlas Code 80, Curve radius 11 3/32", iso (remote) 3 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (remote) 2 *Track lengths 2 *Track lengths 9 25/32 2510, N Atlas Code 80, Straight 4 7/8". 9 25/32 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 5/32 2513, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2517, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2511, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2511, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2511, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2511, N Atlas Code 80, Left turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32" *Connections 129	2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk)	7
2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 3 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (remote) 3 *Track lengths 2 *Track lengths 925/32 2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2513, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 8 3/4 2513, N Atlas Code 80, Curve radius 9 13/16", angle 30° (bulk) 58 3/4 2513, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 58 3/4 2517, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 53 27/32 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32"	2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 42 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 3 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 2 *Track lengths 2501, N Atlas Code 80, Straight 4 7/8". 15° (manual) 2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 5/32 2513, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 5/32 2513, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 58 3/4 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 5/16 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Left turnout 4 7/8". 15° (menote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32" *Connections 129	2517, N Atlas Code 80, Straight rerailer 4 7/8". (bulk)	11
2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 3 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 2 *Track lengths 2 2510, N Atlas Code 80, Straight 4 7/8". 9 25/32 2510, N Atlas Code 80, Straight 4 7/8". 9 25/32 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 5/32 2513, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Left turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32"	2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 3 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 2 *Track lengths 2 2511, N Atlas Code 80, Straight 4 7/8". 9 25/32 2510, N Atlas Code 80, Straight 4 7/8". 9 25/32 2511, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 5/32 2513, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 58 3/4 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Left turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32" *Connections 129	2521, N Atlas Code 80, Curve radius 11 3/32", angle 15°	42
2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 2 *Track lengths 9 25/32 2501, N Atlas Code 80, Straight 4 7/8". 9 25/32 2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 5/32 2513, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2515, N Atlas Code 80, Straight rangle 15° 121 5/32 2517, N Atlas Code 80, Straight rerailer 4 7/8". (bulk) 58 3/4 2521, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2571, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32"	2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 2 *Track lengths 9 25/32 2510, N Atlas Code 80, Straight 4 7/8". 9 25/32 2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 5/32 2513, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2515, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2517, N Atlas Code 80, Straight 47/8". (bulk) 52 7/32 2517, N Atlas Code 80, Straight rerailer 4 7/8". (bulk) 52 7/32 2521, N Atlas Code 80, Straight terrailer 4 7/8". (bulk) 52 7/32 2521, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32" *Total track length: 129	2701, N Atlas Code 80, Right turnout 4 7/8". 15º (remote)	3
*Track lengths 2501, N Atlas Code 80, Straight 4 7/8". 9 25/32 2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 5/32 2513, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2515, N Atlas Code 80, Straight 4 7/8". (bulk) 52 7/32 2517, N Atlas Code 80, Straight rerailer 4 7/8". (bulk) 52 7/32 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16	*Track lengths 2501, N Atlas Code 80, Straight 4 7/8". 9 25/32 2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 5/32 2513, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2515, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2517, N Atlas Code 80, Straight erailer 4 7/8". (bulk) 527/32 2517, N Atlas Code 80, Straight erailer 4 7/8". (bulk) 527/32 2517, N Atlas Code 80, Straight erailer 4 7/8". (bulk) 527/32 2517, N Atlas Code 80, Straight erailer 4 7/8". (bulk) 527/32 2517, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2701, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32" *Total track length: 129	2702, N Atlas Code 80, Left turnout 4 7/8". 15º (manual)	2
2501, N Atlas Code 80, Straight 4 7/8". 9 25/32 2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 5/32 2513, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Straight erailer 4 7/8". (bulk) 58 3/4 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Left turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16	2501, N Aflas Code 80, Straight 4 7/8". 9 25/32 2510, N Atlas Code 80, Curve radius 9 13/16", angle 30° 10 1/4 2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 5/32 2513, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Straight 4 7/8". (bulk) 52 7/32 2517, N Atlas Code 80, Straight 47/8". (bulk) 52 7/32 2521, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: *Total track length: 39'-4 21/32"	*Track lengths	
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2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 5/32 2513, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2517, N Atlas Code 80, Straight 4 7/8", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Straight reailer 4 7/8". (bulk) 53 27/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16	2511, N Atlas Code 80, Curve radius 9 13/16", angle 15° 128 5/32 2513, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2517, N Atlas Code 80, Straight 4 7/8", under 30° (bulk) 40 21/32 2517, N Atlas Code 80, Straight reailer 4 7/8". (bulk) 53 27/32 2517, N Atlas Code 80, Straight reailer 4 7/8". (bulk) 53 27/32 2517, N Atlas Code 80, Straight reailer 4 7/8". (bulk) 52 27/32 2517, N Atlas Code 80, Straight runout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32"	2510, N Atlas Code 80, Curve radius 9 13/16", angle 30°	10 1/4
2513, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 53 27/32 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16	2513, N Atlas Code 80, Straight 4 7/8". (bulk) 58 3/4 2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 2/1/32 2517, N Atlas Code 80, Curve radius 11 3/32", angle 15° 53 27/32 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32"	2511, N Atlas Code 80, Curve radius 9 13/16", angle 15°	128 5/32
2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Straight rerailer 4 7/8". (bulk) 53 27/32 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16	2515, N Atlas Code 80, Curve radius 11 3/32", angle 30° (bulk) 40 21/32 2517, N Atlas Code 80, Straight rerailer 4 7/8". (bulk) 53 27/32 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32"	2513, N Atlas Code 80, Straight 4 7/8". (bulk)	58 3/4
2517, N Atlas Code 80, Straight rerailer 4 7/8". (bulk) 53 27/32 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32"	2517, N Atlas Code 80, Straight rerailer 4 7/8". (bulk) 53 27/32 2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32" *Connections 129	2515, N Atlas Code 80, Curve radius 11 3/32", angle 30º (bulk)	40 21/32
2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32"	2521, N Atlas Code 80, Curve radius 11 3/32", angle 15° 121 15/16 2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32" *Connections 129	2517, N Atlas Code 80, Straight rerailer 4 7/8". (bulk)	53 27/32
2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32"	2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote) 29 9/16 2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32" *Connections 129	2521, N Atlas Code 80, Curve radius 11 3/32", angle 15°	121 15/16
2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32"	2702, N Atlas Code 80, Left turnout 4 7/8". 15° (manual) 19 11/16 *Total track length: 39'-4 21/32" *Connections 129	2701, N Atlas Code 80, Right turnout 4 7/8". 15° (remote)	29 9/16
*Total track length: 39'-4 21/32"	*Total track length: 39'-4 21/32" *Connections 129	2702, N Atlas Code 80, Left turnout 4 7/8". 15º (manual)	19 11/16
	*Connections 129	*Total track length:	39'-4 21/32"
*Connections 129		*Connections	129

TIP: Copy and paste the list into a spreadsheet for further processing.

1.14.8 Generating a list of sections

The list of sections is very useful when assigning occupancy detectors.

To generate a list of sections

1. Open the **Home** tab.

2. Here, select List of sections.

The List of sections opens:

List of s	ections		
App SID SID Stat Stat TR/	proach Left proach Right ING 1 ING 2 INGS tion Limits Left tion Limits Right ACK 1 ACK 2	Detection Detection Detection Detection Detection Detection Detection Detection Detection	0.86 m 1.33 m 1.08 m 1 m 1.13 m 1.63 m 1 m 1.27 m 1.02 m
		Save F	Print Close

TIP: Copy and paste the list into your spreadsheet program for further processing.

1.15 Licensing

With the trial version, you can freely use AnyRail for small layouts of up to 50 elements.

If you want to go beyond that, you need to buy a license key that unlocks the software and lifts this restriction.

To register, first buy a license on our website.

You will immediately receive an email stating your registered user name and license key.

To register AnyRail

1. Open the File tab, and click Register.



2. Copy and paste the necessary information from your registration email.

egistration		
Customer name	John Smith	
License key	ABCD-EFGH-IJKL-MNOP	
This product is NOT re	gistered.	

NOTE: Make sure to enter both your registered name and the key exactly as these are stated in your license details. Both need to match - including uppercase and lowercase letters and interpunction - for the license to work.

3. Click OK.

NOTE: You may use your license on multiple computers, as long as you are the one using the software yourself. The license may not be shared with others.

1.15.1 Updates and upgrades

Whether or not you have a license for AnyRail, you can always update your installation for free. *Updates* can be recognized by a difference in the minor version number, e.g. 7.15.0 to 7.19.0, or in the patch number, e.g. 7.15.0 to 7.15.1.

Upgrades can be recognized by a difference in the major version number, e.g. **7**.27.0 to **8**.1.0. Whether upgrades are free depends on your current license.

To check the current license

• Open the File tab, and select Help.

File	Home	Show	Insert	Track libraries	Object libraries	User object libraries	Settings
New							
Save		Su	pport			E	nuRail
Save as		($\widehat{\mathcal{D}}$	Help			ngrian
Open			\cdot				
3D View						This product is reg Your license is vali	gistered. d for version 6 and 7.
Info		E		AnyRail Website			
Recent d	esigns						
Print		Too	ols				
Export a	s			0.11			
Help	_		φĪ	Options			
Options		r	\sim				

AnyRail indicates for which major versions your license is valid.

INFO: Of course, AnyRail will never overwrite an existing licensed version. If you install a newer version for which you do not have a license, the new version will be installed next to the old version.

To check for updates and upgrades

- 1. Open the File tab, and select Help.
- 2. Click Check for updates to find out if your version is current.



AnyRail automatically contacts us to see if a newer version is available. If so, it will ask you whether you want to update.

Update options

Depending on your settings, AnyRail regularly checks for updates automatically.

To view or change the update options

- 1. Open the File tab, and select Help.
- 2. Click Update options.

2 Reference Guide

This part of the user manual lists each AnyRail feature and function.

TIP: If you're new to AnyRail, please read Getting Started first.

2.1 Features

This chapter lists those AnyRail features that need some extra explanation.

2.1.1 Glue

You can *glue* certain elements, such as track and predefined elements, so that you can't accidentally move them.

To glue track

• Right-click the element, and select Glue.

2.1.2 Rotate

Any element or selection of elements can be rotated.

Method 1

1. Select the elements. A selection box with a handle appears.



2. Use the handle to rotate the selection with the mouse.

NOTE: If the handle is red, the selection cannot be rotated. Usually this is caused by glued items.

Method 2

1. Select the elements. Depending on what you select, various extra tabs appear on the ribbon:

									Tools	
File	Home	Show	Insert	Track libraries	Object libraries	User object libraries	Settings	Track	Surfaces	Selection
Delete	Glue Rotat	ie Flip	Elevate	Layer:	Send to back backward	Bring to Bring front forward		1	1	1

2. Click Rotate ...

A new window appears:

Rotate			
Angle (°) 0			
180° (counterclockwise)	0		(clockwise) -180°
+90 +30 +10 +5 +21/2 +1 +1/4	0 -1/4	-1 -21/2 -5	-10 -30 -90
		ОК	Cancel

- 3. Enter an angle or use the slider. Your selection rotates as you change the angle. You can also use the buttons to rotate a certain number of degrees. The O button resets the rotation to the start position.
- 4. Click OK.

NOTE: Using the slider will change the angle in full degrees. However, the angle may be changed an arbitrary amount by entering a value in the edit box, i.e. 23.7.

2.1.3 Flip

Some elements can be *flipped* (i.e. turned into a mirror image of themselves). You can use this feature to invert your complete layout if you wish. AnyRail will automatically replace each element with its mirrored counterpart. AnyRail shows a list of elements that cannot be mirrored.

To flip an element or a selection of elements

- 1. Select the elements to flip. For track, all connected track is flipped automatically when a subselection of it is flipped.
- 2. In the ribbon, select Flip.

The elements are mirrored. If the action cannot be completed, a list of problem elements is displayed. These elements don't have a mirrored counterpart.



Ţ	The following parts cannot be flipped: - 13000, G LGB, Crossing 11 13/16". - 12360, G LGB, Threeway turnout 14 3/4". 30° (remote)
	OK Cancel

2.2 The Quick Access Toolbar (QAT)

The Quick Access Toolbar is the list with small icons at the top left of the window.



Don't worry if you can't remember the small icons! If you hover over them you'll see a tooltip.

To change to Quick Access Toolbar

- 1. Right-click the function you want to add to the Quick Access Toolbar.
- 2. Select Add to Quick Access Toolbar.

Example

• Open the Show tab, right-click Roadbed and select Add to Quick Access Toolbar.



The function is added.



TIP: To reset AnyRail to its original settings, shut it down and start it again while holding SHIFT down.

2.3 The ribbon

All functions available in AnyRail can be accessed through the ribbon.

The ribbon is the part at the top of the window where the functions are displayed.

The ribbon is organized into tabs. A tab is organized into groups.



When you resize the AnyRail window, the ribbon resizes as well. Groups might collapse.



To open a collapsed group, simply click the little arrow on it.

Sometimes, the ribbon takes too much space. To fold it, double-click one of its tabs (not the File tab).

Double-click a tab again to unfold it.



Tabs

Not all tabs are visible at all times. The tabs to work on track, lines, rulers, etc. only appear when you have selected these elements and are highlighted in green.

	80	⊂ ₹										Tools	-
File	Ho	me S	Show	Insert	Track libraries	Object l	ibraries	User ob	oject librari	es	Settings	Track	
Delete	Glue	S. Rotate	Flip	Elevate	Layer:	Send to back	Send backward	Bring to front	Bring forward	•	Standard Hidden Embankment	O Bridge	Extend selection Select section Select stretch
					General								

2.4 Ribbon Tab reference

In the following, each function on each tab is listed and explained.

2.4.1 File tab, 2D view

This in fact is not a real tab. It is the backstage button.

Click it to open.

File	Home	Show	Insert		
New					
		Re	cent de		
Save as					
Open					
3D View					
Info					
Recent d	esigns				
Print					
Export a		l l	D T T		
Help		Į.	FI		
Options		F	R		
Exit		Į.	h h		
Languag	es	F	tt		
Register		F	C D		

Function	Description					
New	Start a new layout					
Save	Save the layout					
Save As	Save the layout by a new name					
Open	Open an existing layout from disk					
3D View	Switch to a 3D view					
Info	Info on your current design					
Recent designs	The files you have opened most recently					
Print	Print the layout or change print settings					
Export as	Export the layout in various formats					
Help	Help, updates, and registration					
Options	Program options					
Exit	Quit the program					
Languages	Change to another language					
Register	Register the software with your license key. Only available when you've not already registered					

Info

Click Info to find these options.

File	Home	Show	Insert	Track libraries	Object libraries
New					
		Al	oout Shelf	10.any	
Save as			•	List of materials	
Open		l	•—		
3D View		F			
Info				List of sections	
Recent d	lesigns				
Print			8-8-8-	List of labels	
Export a	s	Ľ			
Help					
Options				Notes	
Exit					
Languag	es				
Register					

Function	Description
List of materials	The list of all elements used in your track plan
List of sections	The list of sections you defined for your track plan
List of labels	The list of labels you gave to items, such as turnouts
Notes	Your notes for this plan

Recent designs

Click Recent designs to see the files you recently used.

Print

Click Print to find these options.



Function	Description
Print	Print the plan
Copies	The number of copies to print
Portrait/Landscape	The paper orientation
Suppress empty pages	Do not print pages with nothing on it
Selection	Print only what is selected in the plan
Print scale	Set the print scale in various ways
Print alignment markers	Print markers on the page corners to make it easier to align them
Print date/time and name	Print this info on each page
Print page numbers	Print a page number on each page
Print scale	Print the scale on each page
Print Setup	Setup printer, paper size, etc.

Export as

Click the Export As button to find these options.



FUNCTION	Description
Picture	Create a picture of your plan
PDF	Create a PDF file
DXF	Create a 2D export of the trace, that you could use for a laser cutter
3D File	Create a 3D file that can be imported in most 3D viewers
Trainplayer export file	Create a file that can be interpreted by Trainplayer. Trainplayer is a program to simulate running trains that can be found here: Trainplayer
JMRI Layout file	Creates a file that can be opened in JMRI PanelPro. More info is here: JMRI

Help

Click the Help button to find these options.

File	Home	Show Insert	Track libraries	Object libraries	User object libraries	Settings
New						+iiiiii
		Support			E	nuBail
Save as		\bigcirc	Help		VS/	
Open		\cdot			This product is NO	DT registered
3D View					This product is No	of registered.
Info			AnyRail Websit	e	About AnyRail	
Recent d	lesigns				Version 7.0.9 (Apr	15 2024)
Print		Tools			Copyright (C) 200	4-2024 DRail Software
Export a			Ontions		DRail Software is software. The lega	not responsible for any damage caused by the use of this I responsibility will never exceed the price paid for this
Help		9	options		software.	
Options						
Exit			Autosave folde	er		
Languag	jes					
Register		Updates			Registration	
		\bigcirc	Check for updat	ies	R	Register
			Update option:	s		

Function	Description
Help	Open this documentation
AnyRail Website	Go to the AnyRail website
Options	Open the options dialog
Autosave folder	Open the folder with the automatically saved files. Use this function in case AnyRail stopped or was stopped in an unexpected way, and you want to recover the layout you were working on
Check for updates	Contact the AnyRail server and see if there are any updates
Update options	Set the automatic update function
Register	Register the software with a license key
options	

Options

This button opens a new window where you can set additional options.

General options

	Options	\times
General Libraries	General options	
Texts	User Interface Options	
Languages	Center work area Border width S Rulers Top Left Bottom Right Width 0.4	
	Color scheme White ✓	.]
	Don	e

Function	Description
Center work area	Uncheck to draw the work area in the left upper corner of the screen. Check to center the work area
Border width	The border width when not having a centered work area
Rulers	Side rulers
Width	Side rulers width
Color scheme	Overall color scheme
Show splash screen	Show the logo while starting the program

Libraries

	Options		×
General Libraries	Track and objec	ts	
Colors Texts	Displayed libraries		
Languages	 ✓ G ✓ SM-32 ✓ I ✓ S ✓ OO ✓ N ✓ T ✓ Lego ✓ Symbols 	 ✓ Standard gauge ✓ II ✓ 0 ✓ H0 ✓ TT ✓ Z ✓ Miscellaneous ✓ Slot car ✓ 1:1 	
			Done

Select the scales for which you want to use the track and object libraries.

Colors

	Options	×
General Libraries	Default colors	
Colors	Track	
Languages	Track Rails Roadbed Trace Undo Defaults	
	Grids	
	Grid Undo Defaults	
	General	
	Search Undo Defaults	
·J	Done	

Set the default colors for the various types of items. The slider is to change the transparency.

Texts

	Options	
General	٨	
Libraries	A Text options	
Colors		
Texts	Part numbers	
anguagos		
Languages		Shield
	Labels	
		CI. II
	Small V Italic	Shield
	Slope percentage	
	Small Italic	Shield
	Sections	
	A Arial Unicode MS	
	Small Italic	Shield
	Height	
	A Arial Unicode MS -	
	Small Italic	Shield
	Height contours	
	A Arial Unicode MS -	
	Small	✓ Shield
	Vertical clearance	
	🗚 Arial Unicode MS 👻	
	Small Italic	✓ Shield
		Done

Set the text properties per category.

Languages



Select your preferred language from the drop down box.

2.4.2 File tab, 3D view

This in fact is not a real tab. It is the backstage button.

Click it to open.

		-
File	Home	
2D Desig	ın view	
Help		
Exit		
Function	Description	_

2D View	Switch to the 2D design view
Help	Help, updates, and registration
Exit	Quit the program

2.4.3 Home tab, 2D view

The Home tab contains functions you probably use most often.



Function	Description
Cut	Remove whatever's selected, and keep it in the Paste buffer. Shortcut is $CtrI-X$
Сору	Keep a copy of whatever's selected in the Paste buffer. Shortcut is $Ctrl-C$
Paste	Paste whatever's in the Paste buffer. Shortcut is <i>Ctrl-V</i>
Layers	Open the layers pane
3D View	Open the 3D view. This may take a few seconds for larger layouts
Open used libraries	Open the libraries that are used by the current plan
Active	Activate Search. Select from the drop down box to highlight the items in the plan
Combine flex	Highlight all flexes with the same part number
View scale	Set the display scale
Fit to window	Find the largest scale such that the work area fits the window
List of materials	Show a bill of materials
List of sections	Show a list of all the isolated sections
List of labels	Show a list of all the part labels
Notes	Writing pad for your notes
Languages	Change the program's language

2.4.4 Home tab, 3D view

The Home tab contains functions you probably use most often.



Function	Description
2D View	Open the 2D design view
Track	Show the track
Ground	Show the ground
Tunnels	Show the tunnels
No sky/Blue sky/Cloudy	Select a background
	Use the standard camera
	Use the FPS camera
Ē	Return the camera to its start position
Snapshot	Make a snapshot
Lights	Set the brightness for each light. There is a light on each of the four corners, a top light and an ambient light
Shadows	Display shadows

2.4.5 Show tab

The Show tab contains functions to control what's currently displayed.

File	Home Show	/ Insert Tr	ack libraries Object lib	oraries User object librarie	s Settings										
O Centerli	ne 🗌 Roadbed	✓ Hidden track	✓ Endpoints	✓ Flex too long	✓ Sections	Label	✓ Slope percentages	✓ Glue	 Control points 	✓ Objects	✓ Lines	✓ Height contours	✓ Texts	Lower limit	-100
O Track	Trace	✓ Visible track	 Connections 	✓ Flex too sharp curves	✓ Name	Part number	✓ Height	Reverse loops	Pages	✓ User objects	✓ Surfaces	- Numbering	✓ Rulers	Upper limit	500
 Detailed 	1	Track ends	 Track control points 	Inaccurate connections	Description	Part code	Vertical clearance	Guides		Groups	✓ Table tops		✓ Tunnels		
			Track		Section		Inf	0			S	how		Height	in view

Function	Description
Centerline	Show only a single line for the track
Track	Show the track. The outer lines of what's drawn are the actual rails
Detailed	Draw track with details. The sleepers have the actual width, but not the actual position and distance from each other
Roadbed	Show the roadbed of the track. The actual width of the sectional elements is used here. Make sure to tick this box if you want to check if the track fits on the baseboard, and does not overlap
Trace	Show a trace of the given Width under all track. This can be used to check clearances
Width	Width of the trace
Hidden track	Show all track labeled Hidden. This is dotted track in tunnels, hidden staging yards, etc.
Visible track	Show all track not labeled Hidden. This is all track in plain sight
<i>Ŧŧŧ</i> œŧ ⁱ ends	ව්අහෝදර්ෂා boundaries between the sectional track elements
---------------------------------	--
Endpoints	Show element endpoints
Connections	Show connections between elements
Track control points	Show flex track control points
Flex too long	When checked, overstretched flex appears red
Flex too sharp curves	When checked, too-tightly curved flex tracks appear red, orange and yellow
Inaccurate connections	Mark connections that don't fit perfectly with a red dot
Sections	Show sections
Name	Show the name of the section. This only shows when there's enough room. The software determines a position and orientation for the text
Description	Show the description of the section. This shows only when there's enough room
Label	Show the label for each part
Part number	Show a part number on each track element. The software tries to scale the font down on smaller parts. If this is not possible, the track number won't show
Part code	Show a part code on each track element, if available. The software tries to scale the font down on smaller parts. If this is not possible, the track code won't show
Slope percentages	This shows the percentage of the gradient (if any). 1% means one unit of descent/ascent per 100 units of distance, e.g. 1 cm per meter. When the slope is too steep, this percentage will be shown in red. See Settings to set the maximum slope
Height	Show the heights
Vertical clearance	Show the distance between the lower and upper track where tracks cross. Please note that this is the top-rail to top-rail distance
Glue	Show glue indicators
Reverse loops	Show reverse loops. Only shows the shortest loops in case of multiple overlapping loops
Guides	Show circle center point for curved track
Control points	Show line and surface control points
Pages	Show the pages as the layout would be printed in the current print scale
Objects	Show predefined objects
User objects	Show user objects

Function Groups	<i>Description</i> Show groups
Lines	Show lines
Surfaces	Show surfaces
Table tops	Show table tops
Height contours	Show height contours
- Numbering	Numbering of the height contours
Texts	Show texts
Rulers	Show rulers
Tunnels	Show tunnels
Lower limit	Only show all elements with a height of at least this value. Together with the Upper limit , this allows you to define a horizontal slice of your layout
Upper limit	Only show all elements with a height below this value

2.4.6 Insert tab

On the Insert tab are elements that can be added to the layout.

File	Home	Show	Insert	Track libraries	Object libraries	User object libra	aries	Settings			
Add line	Add surface	Add Wid Add Hei	dth 10 ight 10	Add	Radius 10	Add image	Free form	H←→ □□ Template Module	Add height contour	Add ruler	Add text
Lines				Surfaces				Table top	Height contour	Ruler	Text

Function	Description
Add line	Add a line. You can use wider lines to draw streets or rivers
Add surface	Add a surface. This function can be used to draw shapes, the train table, or even your garden
Add rectangle	Add a rectangle with the given measurements
Width	Width of the rectangle to add
Height	Height of the rectangle to add
Add circle	Add a circle with the given radius
Radius	Radius of the circle to add
Add image	Add an image
Free form	Add a free form table top
Template	Add a table top from a template
Module	Add a module table top
Add height contour	Add a height contour for landscaping
Add ruler	Add a ruler. The length and style can be set afterwards
Add text	Add text. The font and size can be set afterwards

2.4.7 Track libraries tab

On the Track libraries tab you can find all supported track libraries.

File	Ho	ome	Show	Insert	Track libraries	Obje	ct libraries	User object	libraries	Settings												
Aristo-0	Craft 🕶	Lionel -	PLAYMO	BIL -	USA Track	LLC -	Mamod 🕶	Heyn 👻	Accucraft -	KM1 -								Eishindo 🕶	Lego 🕶			Symbols 🕶
Bachma	ann *	Peco 🕶	Sunset V	alley Railroa	ad • Lionel •		Peco 👻	REGNER -	Hübner 🕶	Peco *	0	S	HO	00	Π	N	7			Miscellaneous	Slot	
LGB -		Piko 🕶	Train Line	÷ *				Thiel 🕶	Märklin 🕶	Ypsilon 🕶	*	*	*	*	-	*	*			*	car *	
			G		Standard	gauge	SM-32	11		I								Т	Lego			Symbols

Note that the libraries are sorted by scale or gauge.

Click on the little down arrow to open a folded group (e.g. HO in the picture).

Click a manufacturer's name to get a list of the track systems we support.

TIP: Most people only use one gauge. To hide all gauges you are not going to use, go to the Options.

2.4.8 Object libraries tab

On the Object libraries tab you can find all the predefined objects, such as signals, trees, and structures.



The icon indicates the sort of objects that you'll find.

Click the small arrow to open the list of supported libraries.

TIP: Most people only use one gauge. To hide all gauges you are not going to use, go to the Options.

2.4.9 User object libraries tab

On the User object libraries tab you can manage your user objects.

File	Home	Show	Insert	Track librarie	s Object	libraries Us	er object lib	raries Sett	tings													0
These its	ems were crea	ted by our	users.	A		-	Digikeijs	Fleischmann	Lenz	MTB	Peco	PIKO	PIKO	ADDIE-MODELLLionel *	American Flyer	Lionel			Auhagen			
Please v	erify the dime	nsions befo	ore buying t	hem.		CIRCUITRON	Digitrax	HOrnby-acHO	Lionel	MTH	Radio Shack	Pola		MenardsWoodland Scenics *	Gilbert	Scenery Unlimited	HO	00		N	7	Micc
				new it	ems	CTI Electronic	s ESU	KATO	Littfinski DatenTechnik	Möllehem Gårdsproduktion	Roco				GreenLight	Twin Whistle	*	-		÷	*	*
				Us	er objects				1:1			G	11	0		S			TT			

The items are ordered per scale, per manufacturer in alphabetical order.

Click **Download new items** to download items that others have shared.

Viewer

1. Click Viewer to view all the items:

User	objects				ų ×
Filter :					Load
NR	IMAGE SCALE	MANUFACTURER	PART NUMBER	DESCRIPTION	AUTHOR
		There	are no items to show	Ι.	

2. Click the Load button to populate the viewer.

User	object	s						д >	×
Filter :							Load	ł	
NR	IMAGE	SCALE	MANUFACTURER	PART NUMBER	DESCRIPTION	AUTHOR			
905	Ģ ¶Ģ	H0	Simplon Model	156K	Cassa manovra scam	Ciortato		_	
506		H0	Faller	157	Warehouse with Ram	Ferdi Lieber	nberg		
152	0	0	Lionel	160 A	Long Unloading Bin	Donald Rei	man		
1513		00	EFE	16103	Leyland PD2				
677		H0	Kibri	16150	Ballastwagen	ghislain ruy	men		
837		H0	Pola	162	Townhouse During D	JOHN T RO	GMAN		
150	-	0	Lionel	164	Log Loader	Michael Kao	czmarek		
908	8 .	H0	Simplon Model	169K	Deposito gasolio	Ciortato			
704	r	H0	LEB	17	Cr-S-RR-A-VI Cible H	Christophe	COCHET		
589	-	H0	Fine Scale Miniatures	170	Sawmill	Allen Harris			
913		H0	Simplon Model	170K	Deposito lubrificanti	Ciortato			
597	P***	H0	Heljan	1736	Passerelle pour pieto	Jean-Paul B	ernard		
911		H0	Simplon Model	175K	Serbatoio gasolio	Ciortato			
2222		N	KATO	176-5317	Union Pacific E9A	friscochoct	aw		
1005									

3. Use the Filter to find items.

User	objects	s				Į×
Filter :	town	I				Load
NR	IMAGE	SCALE	MANUFACTURER	PART NUMBER 🔺	DESCRIPTION	AUTHOR
837		H0	Pola	162	Townhouse During D	JOHN T ROGMAN
2050	_	N	Faller	232170	Old town wall set	Ambro 54
2086	-	N	Faller	232170	Old town wall set	Ambro 54
2093		N	Faller	232171	Old town tower with	. Ambro 54
1999		N	Faller	232175	Old-Town house wit	Ambro 54
2003		N	Faller	232176	Old-Town houses wit	Ambro 54
2065	100	N	Faller	232177	Town house with arc	Ambro 54
1980	Bank	N	Faller	232266	Row of town houses	Ambro 54
2113	- ter	N	Faller	232303	Townhall	Ambro 54
1958		N	Faller	232307	2 Town houses (2)	Ambro 54
1974	6 0.0	N	Faller	232307	2 Town houses (1)	Ambro 54
1938		N	Faller	232311	Town House (1)	Hans Schaefer
1956		N	Faller	232311	Town House (2)	Hans Schaefer
1983	0.00	N	Faller	232311	2 Town houses (1)	Ambro 54
	1000					

2.4.10 Settings tab

Use the Settings tab to change the overall settings of the software.

AnyRail remembers settings between sessions, but also saves them with each layout.

File	н	ome Sh	ow	Insert	Track libraries	Obje	ect libraries Use	er object libraries	Setting	s							
7	7	Decimals:		Length	500	🖌 Gri	id	Endpoint	1.5	Minimum radius 1	36	Distance	0.3	Maximum %	3	✓ Autoconnect	✓ Snap to grid
		2	-	Width	500	Size 5	50	Connection	1.5	Minimum radius 2	0	Angle (°)	3	Min. vertical clearance	0	Distance 1.2	Size 1
system	*					V Bac	ckground	Control point	2	Minimum radius 3						Allow mixed rails	;
	l	Jnits			Wor	k area		Siz	es	Flex		Tolera	nces	Slopes			Behavior

Function	Description
Measurement system	Choose from cm, mm, inches with fractions or decimals
Decimals	Set the display accuracy of all values
Length	The length of the work area on screen. Make it somewhat larger than your train table
Width	The width of the work area on screen. Make it somewhat larger than your train table
Grid	Show a grid with a Size, possibly in the Background
Endpoint	The drawing size of an endpoint. An endpoint is the outer end of a piece of track
Connection	The drawing size of a connection. The connection is the circle denoting that two pieces of track are connected
Control point	The drawing size of the control points. These are the points to manipulate flex track and lines
Minimum radius 1	Radius 1 used for determining when Flex too sharp curves triggers, indicated by a red centerline
Minimum radius 2	Radius 2, 0 (inactive) or larger than radius 1, indicated by an orange centerline
Minimum radius 3	Radius 3, 0 (inactive) or larger than radius 2, indicated by a yellow centerline
Distance	The maximum distance allowed allowed between connecting endpoints
Angle	The maximum angle allowed between connecting endpoints
Maximum %	The maximum percentage allowed on slopes
Min. vertical clearance	The minimum vertical distance allowed for track crossings
Autoconnect	Automatically connect track when endpoints are close enough
Distance	The minimum distance to make Autoconnect trigger
Allow mixed rails	When checked, any track with the same gauge will connect. Uncheck to make sure you use the correct transition track
Snap to grid	Makes lines and surfaces snap to an underlying grid with Size. The left upper point of the line or surface is aligned with the grid

2.5 Context sensitive tabs and popup menus

Some tabs only display in specific cases, depending on what you've currently selected on screen.

These tabs have a green glow.

When you right-click an object, a popup menu comes up, giving you fast access to the most frequently used features.

2.5.1 Track tab and menu

The Track tab appears when track is selected.



The track popup menu appears when you right-click the track.

	Delete
C	Rotate
	Flip
F	Glue
$\stackrel{\uparrow}{=}$	Set height
22	Disconnect
фтр	Add isolators
œ	Create section
/	Smooth slope
÷	Cut here
%	Cut and connect here
\mathcal{K}	Cut
	Сору
Q	Search these parts
	Details

Function	Description
Delete	Delete the selected track
Glue	Glue the selected track to prevent accidentally moving it
Rotate	Rotate the selected track and all connected track with it
Flip	Mirror all selected track with all connected track
Elevate	Increase or decrease the height of the selected track
Layer	Move selected track to another layer
Send to back	Send this track to the back of all elements with the same height
Send backward	Send this track one step back relative to all elements with the same height
Bring to front	Bring this track on top of all the elements with the same height
Bring forward	Bring this track one step further to the top relative to all elements with the same height
Standard	The track is displayed as-is, both in 2D and 3D
Hidden	The track is displayed as a dotted line in 2D. In 3D, it will be hidden, and a tunnel is created if necessary
Embankment	In 2D, small lines indicate that the track is on an embankment. In 3D, the ground is shaped as an embankment
Bridge	In 2D, trellis is drawn over the bridge. In 3D, the track is put on pillars

Extention selection	<i>Description</i> Enlarge the selection in a logical way. Double click on the track has the same result
Select section	Only when sections are used: select the complete section
Select stretch	Select all connected track
Disconnect	Disconnect the selected track
Add isolators	Insert isolators at the outer ends of the current selection
Remove isolators	Remove all isolators in the current selection
Change direction	For single track only: add an arrow to indicate one way track
Cut	Cut the track in two. Only for simple curves and straights
Cut here	Cut the track at the mouse position
Cut and connect here	Cut and connect the track at the mouse position
Lock height	Lock the heights for the endpoints of the track
Set height	Set the height of the selected track
Smooth slope	Create a slope for the selected track
Create helix	Create a helix from the currently selected, unconnected curve
Label	Set a label for the selected track element
Create section	Turn the selection, or isolated track, into a section
Search this part	Highlight all the same parts in the plan
Details	Show details and positions of the selected track

Section functions

Whenever a section is defined for the selected track, the tab has a few additional functions.

Remove sections	▼
Function	Description
Remove sections	Remove the section definitions. The track itself is not removed
Name	Enter a name for the section here
Description	Select or enter a description here
Color	Select a color for the section

2.5.2 Endpoint tab and menu

Clicking on an endpoint (the small line and triangle at the end of the track) reveals the Endpoint tab.

	<								Tools
File	Home	Show	Insert	Track lib	aries	Object libraries	User object libraries	Settings	Endpoint
Lock Crea height slope	Height Height te e	0 t		x y Direction (º) Posi	5.37 16.77 90 tion	Connect			

The endpoint popup menu appears when you right-click an endpoint.

\bigcirc	Lock height
%	Create slope
P	Connect

Function	Description
Lock height	Lock the height so it cannot be changed by accident. Be careful using this function and make sure that you check the heights surrounding it to confirm the slopes are all OK
Create slope	Create a slope with a certain percentage
Height	The height of this point
x	The <i>x</i> coordinate of this point
у	The y coordinate of this point
Direction(°)	The direction of the endpoint
Connect	Connect this endpoint to a nearby other endpoint

2.5.3 Connection tab and menu

Clicking on a connection (the small circle between two pieces of track) reveals the Connection tab.

🗎 🗃 🗔 🗠 🤜 🔻				Tools
File Home Show Insert	Track libraries	Object libraries User object libraries	Settings	Connection
Lock Create height slope Height	x 28.37 y 16.77 Direction (°) 90 Position	Disconnect Connection		

The connection popup menu appears when you right-click a connection.

\bigcirc	Lock height
%	Create slope
$\mathcal{O}_{\mathcal{O}}$	Disconnect
\bigtriangledown	Add isolator

Function	Description
Lock height	Lock the height so it cannot be changed by accident. Be careful using this function and make sure that you check the heights surrounding it to confirm the slopes are all OK
Create slope	Create a slope with a certain percentage
Height	The height of the connection
x	The <i>x</i> coordinate of the connection
у	The y coordinate of the connection
Direction (°)	The direction of the connection
Disconnect	Remove the connection and disconnect the track
Add/Remove isolator	Adds or removes the isolator between the two pieces of track. Use this to create sections

2.5.4 Lines tab and menu

The Lines tab is only available when a line or one of its points is selected.

The popup menu is available when you right-click a point or a line.

Point functions

• Outer point tab

										Tools	
File	Home	Show	Insert	Track libraries	Obje	ect libraries	User	object libraries	Settings	Lines	
x 15.21 y 15.39	● M ○ M	love point love line	 Norm Round Curve 	al corner d corner d corner d corner po	ete Adr int poir Po	d nt Dint	> →	>-0	- □ ◇	[^] Size 1 ▼ ▼	
• 01	uter poi	nt pop	up me	υחפ							
⊡o De	lete point d point										
🦾 Res	sume draw	ing									
• Ini	ner poin	it tab									Tools
File	Home	Show	Insert	Track libra	iries	Object libr	aries	User object lil	oraries	Settings	Lines
x 30.2 y 20.15	•	Move poi Move line	nt N R C	ormal corner ound corner urved corner	Delete	Add point	Cut here				

• Inner point popup menu

Point

- Delete point
- 🔏 Cut here

Function	Description
x	The x coordinate of this point
у	The y coordinate of this point
Move point	Move only this point
Move line	Move the whole line
Normal corner	The corner defined by the neighboring points
Round corner	A perfect arc
Curved corner	An elliptic corner
Delete point	Delete the current point
Add point	Add a point close to the current point
End styles	Select an end style
Size	End style size
Resume drawing	Continue to draw a line from here
Cut here	Cut the line in two

Line functions

• Tab

	Tools	
File Home Show Insert Track libraries Object libraries User object libraries Setting	gs Lines	
Delete Glue Rotate Flip Elevate Layer: Layer 1 Bend to Send to Send Bring to Bring back backward front forward Bing to Bring back backward front for the send backgroup backg	Diffusion Diffusion Normal comers Dashed	ve as
General	Lines Ob	jects

• Popup menu



Function	Description
Delete	Delete the line
Glue	Glue the line to avoid moving it by accident
Rotate	Rotate the line
Flip	Mirror the line
Elevate	Increase or decrease the height
Layer	Select to move the lined to another layer
Send to back	Send this line to the back of all elements with the same height
Send backward	Send this line one step back relative to all elements with the same height
Bring to front	Bring this line on top of all the elements with the same height
Bring forward	Bring this line one step further to the top relative to all elements with the same height
Line width	Set the drawing width of the line
Height	Set the height of the line. A line has one height, it can not be tilted
Background	Put this line in the background
Line color	Set the drawing color of the line
Transparency	Slide to set the transparency of the line
Rounded points	Round the points (for larger line widths)
Normal corners	Set all corners to normal
Round corners	Set all corners to perfect arcs
Curved corners	Set all corners to elliptical curves
Dashed	Create a dashed line with dash lengths Dash A and Dash B
Save as object	Create a user object from the selected lines
Add point	Add point at cursor

2.5.5 Surfaces tab and menu

The Surfaces tab is only available when a surface, or one of its points is selected.

The popup menu is available when you right-click a point or a surface.

Point functions

• Tab

D 🖻 8										Tools
File	Home	Show	Insert	Track librari	es Object lib	oraries	User object lil	oraries	Settings	Surfaces
× 31.97 y 20.85	•	Move point Move surfac		Normal corner Round corner	Delete Add					
			Point	Curved corner	point point					

• Popup menu



Function	Description
x	The x coordinate of this point
у	The y coordinate of this point
Move point	Move only this point
Move surface	Move the whole surface
Normal corner	The corner defined by the neighboring points
Round corner	A perfect arc
Curved corner	An elliptic corner
Delete point	Delete the current point
Add point	Add a point close to the current point

Surface functions



• Popup menu

	Delete
C	Rotate
	Flip
	Glue
	Add point
ļ.	Group
	Ungroup
	Save as object
$\overset{_{}}{_{}}$	Cut
	Сору

Function	Description
Delete	Delete the surface
Glue	Glue the surface to avoid moving it by accident
Rotate	Rotate the surface
Flip	Mirror the surface
Elevate	Increase or decrease the height
Layer	Select to move the surface to another layer
Send to back	Send this surface to the back of all elements with the same height
Send backward	Send this surface one step back relative to all elements with the same height
Bring to front	Bring this surface on top of all the elements with the same height
Bring forward	Bring this surface one step further to the top relative to all elements with the same height
Line width	Set the drawing width of the outline
Height	Set the height of the surface. A surface has one height, it can not be tilted
Background	Put this surface in the background
Line color	Set the drawing color of the line
Fill color	Set the fill color of the surface
Transparency	Slide to set the transparency of the surface
Normal corners	Set all corners to normal
Round corners	Set all corners to perfect arcs
Curved corners	Set all corners to elliptical curves
Rounded points	Round the points (for larger outline widths)
Convert to table top	Convert the surface into a free form table top
Convert to height contour	Convert the surface into a height contour
Save as object	Create a user object from the selected surfaces
Load image	Load an image to fill the surface
Remove image	Remove the image that fills the surface
Width, Height, Angle	Set the size of the image (in your measurement units), and the orientation
Maintain aspect ratio	Keep the aspect ratio of the original image
Follow outline	Image follows resizing of surface. Surface should be rectangular
Adjust outline	Recalculates the surface outline so it fits the picture exactly

2.5.6 Rulers tab and menu

The Rulers tab appears when a ruler or one of it endpoints is selected.

Apart from simply dragging its endpoints, you can either click the ruler or one of its endpoints to manipulate it.

Ruler point

• Tab:

	6	∽ ∩ ₹							Tools
	File	Home	Show	Insert	Track libraries	Object libraries	User object libraries	Settings	Rulers
x y	47.35 117.55	Ruler po	 Mov Mov Mov 	re point re ruler					

• The ruler point does not have a popup menu.

Function	Description
x	The x coordinate of this point
у	The y coordinate of this point
Move point	Move only this endpoint of the ruler
Move ruler	Move the whole ruler

Ruler

• Tab

		₹							Tools			
File	Home	Show	Insert	Track libraries	Object librar	ies	User object libraries	Settings	Rulers			
Delete	Glue Ro	otate Flip	Elevate	Layer:	Horizontal Vertical	Length Scale Height	50 1:1	Change style	Font Aria Size 60	al Unicode t 👻	Line width 🕻).4
General								Rule				

• Popup menu



Function	Description
Delete	Delete the ruler
Glue	Glue the ruler to avoid accidentally moving it
Rotate	Rotate the ruler
Flip	Mirror the ruler
Elevate	Increase or decrease the height
Layer	Move the ruler to another layer
Horizontəl	Position the ruler horizontally. Click again to put it upside down
Vertical	Position the ruler vertically. Click again to put it the other way around
Length	Set the length of the ruler
Scale	The scale of the ruler. The displayed length is relative to the modeling scale
Height	Height of the ruler
Change style	Change the way the ruler looks
Font	Set the font of the ruler text
Size	Set the font size of the ruler text
Line width	Ruler line width
Line color	Color of the ruler

2.5.7 Texts tab and menu

The Texts tab appears only when text is selected.

D 🖻		~ ₹								Tools	
File	Ho	me	Show	Insert	Track libraries	Object librari	es	User object libraries	Settin	gs Texts	
Delete	Glue	Rotate.	Flip	Elevate	Layer: Layer 1 🔹	Horizontal Vertical Decolor 🕶	Font Size	Arial Unicode MS	x y Height	46.47 141.36 0	Edit text
			Gener	al				Text	t		

The text popup menu appears when you right-click the text.

\diamond	Delete
C	Rotate
	Flip
	Glue
	Edit text
	Group
	Ungroup
$\overset{_{}}{_{}}$	Cut
Ĉ	Сору

Function	Description
Delete	Delete selected text
Glue	Glue selected text to avoid accidentally moving it
Rotate	Rotate the selected text
Flip	Mirror the selected text
Elevate	Increase or decrease the height
Layer	Select a layer for the text
Horizontal	Position the text horizontally. Click twice to position the text upside down
Vertical	Position the text vertically. Click twice to position it the other way around
Color	Set a color for the selected text
Font	Select a font
Size	Select a font size
x	The x position of the text
у	The y position of the text
Height	Draw height of the text
Edit text	Click to edit the text. This can also be achieved by double clicking the text

TIP: Quickly start editing text by double-clicking it.

2.5.8 Selection tab

The Selection tab is only available when multiple items are selected.



Function	Description
Delete	Delete the selected items
Glue	Glue the selected items to avoid moving it by accident
Rotate	Rotate the selected items
Flip	Mirror the selected items
Elevate	Increase or decrease the height of everything in the selection
Layer	Select to move the selected items to another layer
Send to back	Send selected items to the back of all elements with the same height
Send backward	Send selected items one step back relative to all elements with the same height
Bring to front	Bring selected items on top of all the elements with the same height
Bring forward	Bring selected items one step further to the top relative to all elements with the same height

2.5.9 Groups tab and menu

The Groups tab is only available when multiple groupable items are selected, or a group.



The group popup menu appears when you right-click the group.



Function	Description
Delete	Delete the group
Glue	Glue the group to avoid moving it by accident
Rotate	Rotate the group
Flip	Mirror the group
Elevate	Increase or decrease the height
Layer	Select to move the group to another layer
Send to back	Send this group to the back of all elements with the same height
Send backward	Send this group one step back relative to all elements with the same height
Bring to front	Bring this group on top of all the elements with the same height
Bring forward	Bring this group one step further to the top relative to all elements with the same height
Group	Group selected lines and groups (only available when applicable)
Ungroup	Ungroup this group (only available when applicable)
x	The left top x coordinate of the group
у	The left top y coordinate of the group
Height	Draw height of the group
Description	Description for the group (only available when applicable)
Save as object	Create a user object from the group