HelioScope Base Integration



systems

Helioscope vs. Base

/ Helioscope: Multiple designs as per a single project

✓ Base treats Helioscope Designs as Projects

- / Helioscope: No roof data, only field segments
 - ✓ Base treats Helioscope field segments as roof segments
- / Helioscope: Flexible layout options not supported in Base
 - \checkmark Base to support standard layouts that can be planned in Base as of now
- / Helioscope: Default values of spacing different than Base system constraints
 - \checkmark Base to display discrepancy and suggest the user to adapt the values in Base
 - \checkmark Base to let the user know when number of modules change after import



Uploading Helioscope Project to BASE

/ Click on "Open Project from K2 +"

DASHB	BOARD						BASE
	NEW PROJECT			OJECT FROM K2 DOCU APP		E 💽	OPEN PROJECT FROM K2 +
≡ :::		All	In progress 185	Completed 24	Realized 10	Search projects	
	PROJECTS						
Status		Planned installation \Rightarrow	Name ≑	Location 🗢	Customer ≑	Last modifi	ied 🗢



Uploading Helioscope Project to BASE

/ Click on Helioscope: <u>https://beta.helioscope.com/auth-tokens</u>





Getting the Helioscope Authorization Token

/ Click on the Helioscope Link

🗮 Menu	DASHBOARD	😂 BASE
Generation (⊕ 100 €	HELIOSCOPE IMPORT	\otimes
Save	Enter your Helioscope token here	
└────────────────────────────────────	No authentication token yk visit <u>HelioScope</u> to generate an auth token for validation.	
News		
Chat		
Brendan		
Version 3.1.40.1	After creating the project, they will be forwarded to Base. Check your entries and fill in any missing fields.	



Getting the Helioscope Authorization Token

/ Copy Token ID

UHelioScope

Click to Minimize

All Projects

💡 Project Configuration 🕞

Libraries

Auth Tokens

Name: Create

Name: Projects Token ID: K2n7fd50QqUhViRpa1HvlqbmhWAJwR Created at: Jun 29, 2022 8:41 AM

🛞 Revoke



Enter the Token ID to Link Accounts

HELIOSCOPE IMPORT

AUTHENTICATION TOKEN

K2n7fd50QqUhViRpa1HvlqbmhWAJwR

No authentication token yet? Visit <u>HelioScope</u> to generate an auth token for validation.

LOG IN

After creating the project, they will be forwarded to Base. Check your entries and fill in any missing fields.



Select Project from Helioscope Import

🗮 Menu		DASHBOARI						BASE
Open proj	HELIOSCOPE	IMPORT			-			\otimes
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News	ShareRail - Standing seam		New Mexico			07/28/2022, 2:00 PM		
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💬 Chat	Mau-SpecialConsiderations-DualRailMX			Coral 2628-1, Residencial Victoria			07/26/2022, 9:03 AM	
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		In progress	•	Rhode Island 14kW Sample	United States, Providence	Renewable Energy Solutions	08/04/2022, 1:15 PM	
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Open Project Design

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Indo Redo	Field Segment 1 Field Segment 2	East West East West	Landscape	10 10	
lews					
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Brendan					
40.1 Af	ter creating the project, they will be forwarded to Base. Check your entries and	fill in any missing fields.			
	BACK CANCEL				CREATE PROJECT
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Review Inputs and Complete Design





/ Define field segments that correlate to the roof outline, better to use Shift key for 90-degree snapping/ Define keep out zones where no modules should be placed instead of splitting the roof into segments





/ Use option to set azimuth to one of the roof edges





/ Keep default alignment. Base only supports field alignment "block"

Design 1		7	Pr	eferences
Saved <	>		Showin	g Array
Mechanical Ke	O epouts	Electr	rical A	O dvanced
« back to list			[1
Field Segment	1			
Modules: 42 (13 Area: 496.9 m ²	.4kWp)	(set m	ax kWp)
Description	Field Se	gmen	:1	
Trina Solar, TS	M-PD14	320 (May16)	(*
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Peak Spacing	0	m		
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/ If known, update the various spacing values to match with desired K2 system

Automatic La	ayout R	lules		
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Peak Spacing	0	m]	



- / It is possible to update/edit segments and re-import from the Base roof page, without re-creating the project
 - Or to manually edit the Base layout to match Helioscopes in case of discrepancies





- / Systems specific guidelines:
 - Tilt up in Base is only supported on rectangular roof shapes, so use the same when importing from Helioscope



(Tips and Tricks) on Helioscope Summary

- / Define field segments that correlate to the roof outline, better to use Shift key for 90-degree snapping
- / Define keep out zones where no modules should be placed instead of splitting the roof into segments
- / Use option to set azimuth to one of the roof edges
- / Keep default alignment. Base only supports field alignment "block"
- / Tilt up is only supported on rectangular roof shapes, so the same when importing
- / If known, update the various spacing values to match with desired K2 system
- / It is possible to update/edit segments and re-import from the Base roof page, without re-creating the project
 - Or to manually edit the Base layout to match Helioscopes in case of discrepancies
- / Consider module dimensions
- / Consider tilt up angle
- / Draw pitch roofs as rectangular or hip roof shape



/ D Dome R² 10°





/ Hints to design Tilt-Up Single Row in Helioscope to improve exportation proces:



/ Hints to design Simple Tilt in Helioscope to improve exportation proces:





/ Hints to design CrossRail DualRail and MiniRail XPRess in Helioscope to improve exportation process:





/ Hints to design CrossRail, DualRail, and MiniRail XPRess in Helioscope to improve exportation process:



Also, check the difference for the area

Helioscope Automatic Layout Rules - SharedRail

Tips to design Shared Rail in Helioscope to improve the importation process:



We recommend using a building height of up to 9.14 m or 30ft.

We recommend using a tilt between 9° to 55°. This slope will be imported as the roof slope in Base.

You can keep this value as O since it is a SharedRail.

Please keep this value as 0.0169 m or 2/3" since it is considered the width of the Mid-clamp.

The minimum setback recommend is 0.26 m or 0.83 ft

We recommend using this alignment option as the default.





We recommend creating each side of the roof, so the Base tool can correctly calculate the span based on the roof's zones.



Thank you for your attention



k2-systems.com



base.k2-systems.com



