



NYPH 2020 Tech	nnical Worksho	ps				c	lesign <mark>P</mark>
	DesignPH SketchUp PHPP Ventilati	ion					
	DesignPH 2.0 A Powerful Tool	NYPH Members	General Admission	PHI CEUs			
	MODULE 01 BASIC FOR EVERYONE						
May 19th	01_Workflow: Modeling, Required Tools	Free	\$ 15	1.0 EC			
June 2nd	02_Solar: Location, Orientation, Axes, Shadow	Free	\$ 15	1.0 EC			
	MODULE 02 ADVANCED FOR PASSIVE HOUSE DESIGNE	ERS					
June 16th	03_Face Assignments: Exposure Type, U-Values, Creating Assemblies	Free	\$ 15	TBD			
June 30th	04_Face Assignments: Below Grade, Shading Context, Non- Thermal Faces	Free	\$ 15	TBD			
July 21st	05_Assignments: Thermal Bridge, TFA Surface	Free	\$ 15	TBD			
Sept 22nd	06_Window: Modeling, Components, Mullions and Reveals	Free	\$ 15	TBD			
Oct 6th	07_Window: Editing and Adjusting, Curtain Walls, Shading	Free	\$ 15	TBD			
	MODULE 03 PROFESSIONAL FOR ENERGY MODELERS				-		
TBD	08_Analysis: Run Simulations, Results Tracker	TBD	\$ 15	TBD			
	09_Shading: Analyzing Window Radiation, Trees and Irregular Shading	TBD	\$ 15	TBD			
	10_PHPP: Exporting .PPP File, Importing .PPP File, Finish off the model in PHPP	TBD	\$ 15	TBD			



DesignPH Review

Requirements	designPH 🤣
 What you'll need: A copy of the DesignPH 2.0 plugin Sketchup 3-D modeling software A copy of the PHPP v.8 or 9 (and Excel) 	
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https://foursevenfive.com/designph-2-0/	design PH 🗳
Image: Stand	
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* =	Extension Name			Author	Enable Disable			
.	Advanced Camera Tools Signed			SketchUp	Enabled	>		
*	designPH 2.0.06 Signed			Dave Edwards, Harald Malzer, Dragos Arnautu	Enabled	>		
-	dPH+ Rooms			Ed May, bldgtyp, llc	Enabled	>		
~	dPH+ Windows			Ed May, bldgtyp, llc	Enabled	>		
D	Dynamic Components Signed			SketchUp	Enabled	>		
	Ruby Code Editor Signed			Alexander C. Schreyer, www.alexschreyer.net	Enabled	>		
	Sanobox roots Signed Install Extension			SketchUp	Enabled	>		
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Start Desig	gnPH Plugin [Each time yo	u run Sketchup]	design \mathbf{PH} $arphi$
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%8 ∛9	Project overview Climate was changed, please re-analyse the model to update the results! The model has not been analysed! Climate New York Puddian branc Devolution		change
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Basics of Window Components in Sketchup





















































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	21		Heating degree hours [kKh/a]:	58.8			Window rou	gh openings	Installed in	Glazing	
	22	Quan- tity	Description	Deviation from north	Angle of inclination from the horizontal	Orien- tation	Width	Height	Selection from 'Areas' worksheet	Selection from 'Components' worksheet	Selecti
2	23			•	0		m	m		1-Sorting: LIKE LIST	1-Sortin
:	31	1	*1 Lobby	36.7	90	North	2.103	3.912	9-Wall_377830_N*Lobby	06ud-Intus Arcade 13 dbl SN51_28_6x14x4 (Ar): NOTE VT 0.506	05ud-Inti
:	32	1	1*1 Lobby	36.7	90	North	2.610	3.912	4-Wall_377812_N*Lobby	06ud-Intus Arcade 13 dbl SN51_28_6x14x4 (Ar): NOTE VT 0.506	05ud-Inti
	33	1	*1 Lobby	36.7	90	North	2.270	3.912	4-Wall_377812_N*Lobby	06ud-Intus Arcade 13 dbl SN51_28_6x14x4 (Ar): NOTE VT 0.506	05ud-Inti
	34	12	*12 Csmnt	36.7	90	North	1.183	1.346	17-Wall_327736_N	06ud-Intus Arcade 13 dbl SN51_28_6x14x4 (Ar): NOTE VT 0.506	05ud-Inti
	35	12	*12 Csmnt	36.7	90	North	0.824	1.346	29-Wall_1027181_N	06ud-Intus Arcade 13 dbl SN51_28_6x14x4 (Ar): NOTE VT 0.506	05ud-Inti
	36	12	*12 Fixed	36.7	90	North	0.457	1.346	17-Wall_327736_N	06ud-Intus Arcade 13 dbl SN51_28_6x14x4 (Ar): NOTE VT 0.506	05ud-Inti
Re	ady	Variants	PHIUS Vertification	ate U-Values	Areas Gro	ound Comp	onents Windo	Shading	Ventilation Additional Ver	nt Ventilation Schedule 🔒 Annual heat	+ 152%
40 / 50										NYPH NEW YORK bldg	typ

l	Use	e the 'Qua	ntity' Field in PHPP	designPH 🖗
le l	Insert	ੇ ⊨ਿ ਦ ੱ ਵ Page Layout Formulas	T80337 (Simplifies) ata Review View Developer	Q - Search Sheet © - ≜* Share ~
A136				
			S.8 Window rough openings Installed in	Glazing
21 22 23			Note: this ONLY works if the shading situation is the same for all the windows in the set. The exact same shading factor will	on from "Components" worksheet Select
31			be applied to all the windows in the set. For	s Arcade 13 dbl SN51_28_6x14x4 E VT 0.506 s Arcade 13 dbl SN51_28_6x14x4
32			tall towers with relatively little context shading	E VT 0.506 05ud-int p Arcade 13 dbl SN51_28_6x14x4 05ud-int E VT 0.506 05ud-int
34			though, this works ok in many succes.	s Arcade 13 dbl SN51_28_6x14x4 05ud-Int
35				
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2		c			V	14/	~	v	45	40	ALI
14	ĸ	5	-	0	v	vv	^	T	AF	AG	АП
15	Quan tity	- Description	Deviation from North	Angle of inclination from the horizontal	Orientation	Glazing width	Glazing height	Glazing area	Additional reduction factor winter shading	Additional reduction factor summer shading	Reduction factor temporary s protectio
16			[Degree]	[Degree]		w _G [m]	h _G [m]	$\mathbf{A}_{G}[m^{2}]$	r _{other,w} [%]	r _{other,s} [%]	z [%]
17	1	Win_N0-1L	65	90	East	0.28	0.71	0.2	14%	29%	
18	1	Win_N0-1U	65	90	East	0.28	0.66	0.2	14%	29%	
19	1	Win_N0-2L	20	90	North	0.61	0.71	0.4	26%	23%	
20	1	Win_N0-2U	20	90	North	0.61	0.66	0.4	26%	24%	
21	1	Win_N0-3L	335	90	North	0.28	0.71	0.2	10%	8%	
22	1	Win_N0-3U	335	90	North	0.28	0.66	0.2	18%	14%	
23	1	Win_N0-4	20	90	North	0.86	1.93	1.7	2%	2%	
24	1	Win_S0-1	200	90	South	1.32	2.18	2.9	32%	20%	
25	1	Win_S0-2	200	90	South	0.78	2.18	1.7	30%	23%	
26	1	Win_N1-1L	65	90	East	0.28	1.06	0.3	17%	33%	
27	1	Win_N1-1U	65	90	East	0.28	0.82	0.2	18%	36%	
28	1	Win_N1-2L	20	90	North	0.61	0.96	0.6	33%	30%	
29	1	Win_N1-2U	20	90	North	0.61	0.92	0.6	35%	34%	;
30	1	Win N1-3L	335	90	North	0.28	1.06	0.3	34%	28%	
4 h	Ver	ification Check	Variants Climate	U-Values	Areas Group	d Components	Windows	hading Ventilat	ion Additional Vent	Annual heating	A He L
ч. в.	Ver	oncer	Vananto	0 Valdes	Arcus	Gomponenta	1111d0113	ventual	Additional Vent	Announneuting	

