













			Exten	sion Manager		
Exten	ision Manager	Home	Manage ╹		Ed M. 👤	¢
\$ \$	Extension Name			Author	Enable Disable	
8	Advanced Camera Toc Signed	bls		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	>
Ø	Dynamic Components Signed			SketchUp	Enabled	>
>_	Ruby Code Editor Signed			Alexander C. Schreyer, www.alexschreyer.net	Enabled	>
	Sandbox Foots Signed			SketchUp	Enabled	>
>	Install Extension					











































Shading Surfaces: 'Non-Th	ermal'		designPH 🌮
▶ * 🞑 � ◙ � ↓ ↔ ∅ /- ♡- ☑	🤨 Example_01 - SketchUp Pro 2019 Î ਦ 🚸 🚿 💠 😋 📑 🖉 😤	< Al	/8 💠 /3 /2 💢 🕸 🎕 🗟 😵 »
	Entity Info Erase Hide Explode Select	•	Entity Info Layers
	Area Make Component Make Group Intersect Faces Reverse Faces Flip Along Soften/Smooth Edges Zoom Selection	* * *	Un-assigned O Projected building footprint 1 Treated Floor Area 100% 1 Treated Floor Area 60.0% 1 Treated Floor Area 50.0%
	Create a New dPH+ Room(s) dPH+ Room Data dPH+ TFA	* *	7 Treated Floor Area 30.0% 7 External Door 8 External Wall - Ambient
	Convert face to window component Insert window / door component Run analysis on selection Set face as ground plane Update window frame / glazing types Re-draw windows Modify window reveal depth		9 External Wall - Ground 10 Roof/Ceiling - Ambient 11 Floor slab / Basement ceiling 14 Temperature zone X 18 Partition Wall to Neighbour
() () Select objects. Shift to extend select. Drag mouse to select multip	Assign U-value (Multiple faces) Assign area group (Multiple faces)		✓ Non-thermal
30 / 58	Assign thermal bridge (Multiple edges) Analyse window shading	•	NYPH PASSIVE HOUSE bldgtyp



C	Custom /	Assemblie	s?				designPH
•				designPH main			
sianDU	<i>iD</i>						
0.06 reg	ristered to: ed may [] In	register 2.01 [Help & Support	1 Wiki Manuali II anguage: EN				
Overvie	w Results H	eat balance Climate	Vent +IHG Areas U	value editor Assem	blies Components	Shading Export	
U-va			A			latera el insulation	-2 -
	Assembly ID: 01u	3	Assembly name	My New Wall Assembly	0.12		$m^{2}k$
			Heat transfer resistance, o	uter surface, r _{so} (m ² K/W):	0.04	Additional O-value (W	iii (c) 0.0
Layer	Partial surface 1	Lambda value (W/mK)	Partial surface 2 (optional)	Lambda value (W/mK)	Partial surface 3 (option	al) Lambda value (W/mK)	Thickness (mm)
1	Stucco	0.24		0.0		0.0	20.0
2	Insulation	0.04		0.0		0.0	200.0
4	Masoury	0.0		0.0		0.0	0.0
5		0.0		0.0		0.0	0.0
6		0.0		0.0		0.0	0.0
7		0.0		0.0		0.0	0.0
8		0.0		0.0		0.0	0.0
5	Surface percentage 1:	100.0	Surface p	ercentage 2: 0.0		Surface percentage	3: 0.0
Thickne 42	U-val 2.0 (W/m ² 0.18	ue ² K): 77		Error %	6: 0.000		
						NYPH NEW YOR	



	• • •		des	signPH main		
◎ ● ● ▶ セ ≦ 龄 ፼ ゅ ≬ ⊕ ∅ ↓- ♡- ፬-	🖲 🕴 🔥 👔 design PH	φ				
	2.0.06 regis	tered to: ed may [Unregiste	r 2.01 [Help & Sup	oort] [Wiki Manual] [anguage: EN 👌	
Climate: US0055c - New York Building type: Dwellow	Overview	Results Heat ba	lance Climat	te Vent.+IHG	Areas U-val	ue
15.5 kWh/m ² a TFA 136 m ² (Estimated for NJ storeys)	editor	ssemblies Compon	ents Shading	Export		-
Heat Loss Form Factor 2.56	v Asser	mblies (default)				
	Grp. no.	Area group	Assembly no.	Assembly name	Total thickness (m)	U-value (W/m ² K)
	7	External Door	89ud	Wall 7 - New Dormer	0.21	0.22
	8	External Wall - Ambient	83ud	PH External wall	0.42	0.22
	10	Roof/Ceiling - Ambient	84ud	Wall 8 - Cellar	0.45	0.20
	11	Floor slab / Basement ceiling	85ud	Wall 3 - Partywall	0.35	0.30
	14	Temperature zone X	88ud	Wall 6 - New CMU	0.33	0.24
		r artition wai to Neighbour	0/00	Wall 5 - New Civic	0.45	0.20
	▼ Asser	mblies (user-defin	ed)			
	iD	Assembly name	Total thicknes	s U-value (W/m ² K) Inte	ernal insulation?
	83ud	PH External wall	0.42	0.2	18	
	84ud	Wall 8 - Cellar	0.4478	0.1	76	
	85ud	Wall 3 - Partywall	0.346	0.2	98	
	86ud	Wall 4 - Exg Brick	0.435	0.	2	
	87ud	Wall 5 - New CMU	0.4506	0.2	01	
	88ud	Wall 6 - New CMU	0.3302	0.2	35	
Image: Image: Select objects. Shift to extend select. Drag mouse to select multiple.	89ud	Wall 7 - New Dormer	0.21265	0.2	25	
	↓ show more.	(10 rows hidden) ↓				

Construc	tions a	nd U-Values							designPH 4
Cirrate building 24.540	Konneller Konneller Konneller Konneller Konneller Konneller Konneller Konneller	- Sketch/g Pro 2019		(Unregister 2.0) (Help & Su nce Climate Vent. Shading Export	designPH mai pport) [Wiki Manual +IHG Areas	n [Language: [EN 0]] U-value			
TV 13 Heat to	6 in ² (Edimeted for 2.0 storeys) es Form Factor 2.56		Total area xip Total area xil Door 0.00 xil Will - Ambient 87.47 xil Will - Ambient 86.86 0.00 0.00 persture zone X 30.03	Area weighted U-value (V/m ² K) 0.21 0.24 0.10 0.27	Av. temp. factor 1.00 0.60 1.00 0.60	Ann. htg. degree hours (HKh/a) 64.00 64.00 64.00 64.00 64.00 64.00 64.00 64.00 64.00	Transmission heat losses (kWh/a) 1179-17 24.37 606-66 693.87 296-18	Q_t (kWh/m ² a) 8.70 0.18 3.76 6.59 2.20	
Transmission h	eat loss (o	Area weighted U-value	Av. temp.	Ann. htg.	degree	hours	Transmission	heat losses	Q_t
	(m²)	(W/m²K)	factor	()	kKh/a)		(KVV)	1/a)	(kWh/m²a)
7 - External Door	0.00	0.01	4.00		64.00		1170		
3 - External Wall - Ambient	87.47	0.21	1.00		64.00		1179	.17	8.70
- External Wall - Ground	2.70	0.24	0.60	64.00			24.	0.18	
10 - Root/Celling - Ambient 11 - Floor slab / Basement	81.80 86.86	0.10	0.60		64.00 64.00		893	.87	6.59
12 -	0.00				64.00				
13 -	0.00				64.00				
4 - Temperature zone X	30.03	0.21	0.75		64.00		298	18	2.20
18 - Partition Wall to Neighbour	264.43	0.30	0.00		64.00		0.0	0	0.00
	553.29						2905	.25	21.43
5 / 58					-		(NEW YOF	bldgtyp









Window C	ompo	nei	nts:	Jus	st li	ike	PF	IPF)						d	esign P	I ÿ
						d	lesignPH	l main									
desian DH 🕖																	
2.0.06, registered to: ed.may [Unre	egister 2.0] [Help	o & Supp	ort] [Wiki	Manual] [Langua	ige: E	N 😂]				_						
Overview Results He	at balance	Climate	Ven	t.+IHG	Are	as	U-value	e editor	As	ssembli	es C	ompoi	nents 📕	Shading	Export		
▼ Glazing (user-define	ed)																
ID		Descr	ption					(a-value				U	l-value (W/m	2 K)		
01ud		PH GI	zing					_	0.5					0.6			
02ud									0.0					0.0			
03ud									0.0					0.0			
04ud									0.0					0.0			
05ud									0.0					0.0			
06ud									0.0					0.0			
07ud									0.0					0.0			
Frames (user-define ID Description	u- frame, Left (W/m ² K)	U- frame, Right (W/m ² K)	U- frame, Bottom (W/m ² K)	U- frame, Top (W/m ² K)	Width, Left (m)	Width, Right (m)	Width, Bottom (m)	Width, Top (m)	Psi spacer, Left (W/mK)	Psi spacer, Right (W/mK)	Psi spacer, Bottom (W/mK)	Psi spacer, Top (W/mK)	Psi installation Left (W/mK)	Psi , installation Right (W/mK)	Psi , installation Bottom (W/mK)	Psi , installatior Top (W/mK)	η, χ_G((W/K
01ud PH-FRAMES: average thermal q	uality 0.75	0.75	0.75	0.75	0.11	0.11	0.11	0.11	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.0
02ud	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
O3ud	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
05ud	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0
														NYPH	NEW YORK PASSIVE HOUSE	bldg	typ

















New York Passive House: Getting Started with DesignPH

4) Export to .PPP	designPH 🤣
	e • • designPH main	
	designPH 9) »
	2.0.06, registered to: ed.may [Unregister 2.0] [Help & Support] [Wiki Manual] [Language: EN 😋]	
	Overview Results Heat balance Climate Vent.+IHG Areas U-value editor Assemblies Components Shading Export Export	•
$\boldsymbol{\mathcal{Y}}$	Selective export options	
	Standard export Tables to be exported to PHPP: ALL Use this option when making the first export of your model to a blank PHPP. Default values will be exported to the Ventilation sheet and othe give a more complete result in PHPP.	rs to
	▼ Geometry + components Tables to be exported to PHPP: Treated Floor Area, Opaque surfaces, Thermal bridges, Windows, Shading, Assemblies (user-calculated U-values), Glazing (user- defined), Frames (user-defined), Assemblies (user-defined), Projected building footprint Use this option when you want to export updated geometry to PHPP, but don't want to overwrite changes you have made to the Ventilation si PHPP.	heet in
49 / 58		use brugtyp

4) Export to .PPP					designPH 9
		🍕 Example	e - SketchUp Pro 2019		
					\$ 🔎 💢 🕸 🕸 🛱 🍕 🐧 »
Save As:	DesignPH_Export_1.ppp				lain
Tags:					
	DesignPH_Example		Q		Manual] [Language: EN C] nt.+IHG Areas U-value prt
Name		^ Size	Kind	Date Added	
					nk PHPP. Default values will be exported to the
					Windows, Shading, Assemblies (user-calculated d), Assemblies (user-defined), Projected building
					P, but don't want to overwrite changes you have
)	Windows, Shading, Projected building footprint
New Folder			Cancel	Save	
U U U Sciect Objects, Simit it	о ехтепи закот. Блад тойзе то закот т	ապրթ.		_	Measurements
50 / 58					NYPH NEW YORK bldgtyp



) Open your 'PHPP_V9.6 a	a_EN_Tools.x	lsm' l	File	designPH 🤣
	► PHPP 9.6a	Q Search		
	PHPP 9.6a		+	
Name	 Date Modified 	Size	Kind	
▶ 01_PHPP	 Today at 3:34 PM 		Folder	
02_PHPP_Variants	 Mar 3, 2018 at 3:42 PM 		Folder	
▶ 03_PHeco	Nov 24, 2018 at 3:24 PM		Folder	
v 04_PHPP_Tools	 Sep 7, 2019 at 12:53 PM 		Folder	
Final_protocol_worksheet_manual.pdf	Jul 9, 2016 at 10:13 PM	17 KB	Adobe PDF document	
Final_Protocol_Worksheets_Ventilation.xls	Dec 1, 2018 at 9:11 AM	44 KB	Microsoft Excel 3ksheet stationery	
PHPP_V9.6a_EN_Tools.xism	Jun 20, 2017 at 9:28 AM	271 KB	Microsoft ExcelWorkbook (.xlsm)	
▶ 05_ERP	Dec 1, 2018 at 4:38 PM		Folder	
PHPP 9.6a.zip	 Jul 22, 2016 at 10:11 AM 	32.1 MB	ZIP archive	
PHPP_ComponentsPHPP9_201902_DE_EN.xlsm	Feb 28, 2019 at 2:41 PM	1.3 MB	Microsoft ExcelWorkbook (.xlsm)	
PHPP9_Intro_EN_2016.pdf	 Jul 6, 2016 at 10:22 AM 	241 KB	Adobe PDF document	
README_PHPP_EN_9.6a.txt	 Jul 9, 2016 at 10:12 PM 	4 KB	Plain Text Document	
📓 Macintosh HD > 🔝 Users > 🏠 EM > 🔃 Dropbox > 🛗 bldgtyp-00 >	🛅 00_PHPP > 🚞 PHPP 9.6a > 🚞 04_PHP	P_Tools > 🛅 PHP	P_V9.6a_EN_Tools.xism	
1 of	12 selected, 329.38 GB available			
			NYPH \$	bldgtyp

New York Passive House: Getting Started with DesignPH

5) C	Click 'Import'
	● ● □ □ □ □ Home Insert Page Layout Formulas Data Review View Developer ≜+ Share ∨ C10 ▲ ✓ ∽
	A B C D E F G H I J K
	Import and export of PHPP data sets
	The macros contained in this file serve to import and export PHPP data sets in PHPP version 9.6a. 2 3 Entry data from versions of the PHPP 8 can be imported by using the button "Import from V8". 4 Procedure. 5 Porce the desired action: 6 Select the desired action: 7 "Export" saves all data entries of an open PHPP into a text file (.PPP extension). 9 "import" loads all data entries from such a PPP file into an open PHPP. 10 For the option "Import from V[" open a file[t] PHPP 9 and an empty PHPP 9. The macro transfers data entries directly. 11 Please note: 12 When the structure of the PHPP workbook that you want to import or export has been changed (inserting or deleting rows or columns, moving cells, etc.) the results of the import/formoses cannot be foreseen. 11 In the case of exporting, you have the choice to export formulas in the data entry cells or only the corresponding values. 16 In case that the import macro is interrupted unexpectedly, you will have to activate automatic calculation in Excel again (matrix tables).
	18 In case errors occur, a list with all errors will appear at the end of the process. 20 Import 21 Import 23 Export
	Zb import rom V6
	Ready
53 / 58	NEW YORK bldgtyp

	design PH
Note: be sure BOTH your new Blank PHPP AND the 'Tools' files are open at the same time for this to work.	PHPP-Import 1. Select PHPP file Data will be imported into the file selected here. NEW Blank PHPPxilsx Select PPP file and import data input Finish
54 / 58	NY PH NEW YORK PASSIVE HOUSE bldgtyp

Home	Insert	ਜ਼ਿ ⊮ਾ ੴਂ ਵ Page Layout Formulas Data √ ƒx	Review	NEW_Blank_PH View Developer	IPP						Q - Search S	heet	≗+ Share	• • • •
1 2														
· _ ·	к	L	м	N O	Р	Q	R	S	т	U	V	w	х	Y
30														
31					A	rea	a input							
32	Area no.	Building assembly description	To group No.	Assigned to group	Quan- tity	× (a [m]	x	b [m]	+	User deter- mined [m ²]	-	User sub- traction [m²]	-
33		Projected building footprint	0	Projected building footprint		X (х		+	0.00	-)
34		Treated floor area	1	Treated floor area	1	X (х		+	135.56	-)
40		Exterior door	7	Exterior door		X (х		+		-) -
41	1	Floor_001_D	11	Floor slab / Basement ceiling	1	х(6.50	х	1.83	+		-) -
42	2	Floor_002_D	11	Floor slab / Basement ceiling	1	X (6.50	х	3.41	+		-) -
43	3	Floor_003_D	11	Floor slab / Basement ceiling	1	X (6.68	х	6.50	+		-) -
44	4	_004_W	11	Floor slab / Basement ceiling	1	X (6.50	х	0.45	+		-) -
45	5	Floor_005_D	11	Floor slab / Basement ceiling	1	X (6.50	х	1.00	+		-) -
46	6	Wall_006_S	9	External wall - Ground	1	X (1.83	х	1.47	+		-) -
47	7	Surface_007_W	14	0	1	х(2.32	х	1.56	+		-) -
48	8	Surface_008_W	14	0	1	X (4.94	х	2.32	+		-) -
10	9	Surface 009 H	14	0	1	x (2.30	x	1.62	+		- 1		L) -
	Verifica	ation Check Climate		Areas	Compone	nts		5	Shading	0	/entilation	🗅 Ad	Iditional V 斗	
	Verifica	ation 🔒 Check 🔒 Climate	U-Values	Areas Ground	Compone	ents	Windows	5	Shading		/entilation	Ad	Iditional V +	





	designPH 9
Questions?	
58 / 58	bldgtyp