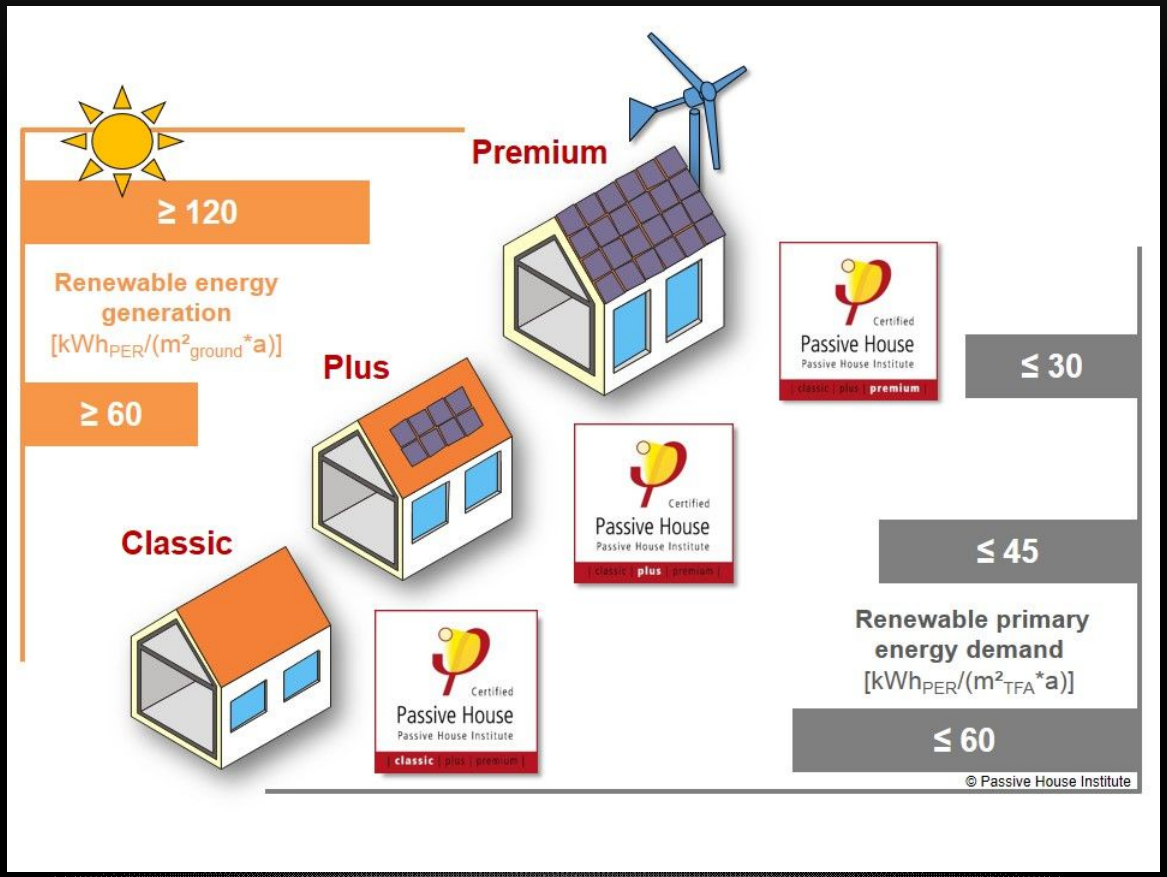
Passive House

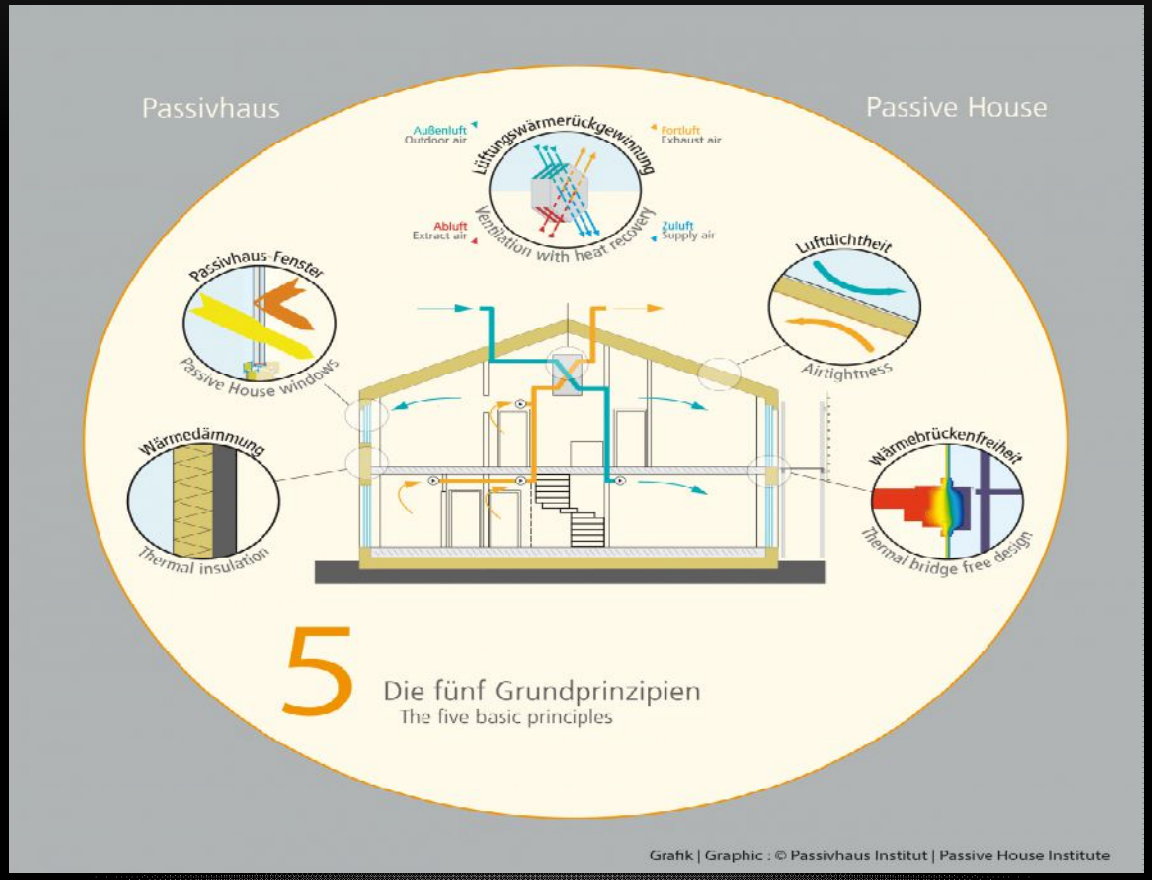
10 λόγοι που μισώ την εξοικονόμηση ενέργειας

ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ – ΠΟΛΥΤΕΧΝΙΚΗ ΣΧΟΛΗ
ΤΜΗΜΑ ΠΟΛΙΤΙΚΩΝ ΜΗΧΑΝΙΚΩΝ

Passive house standard

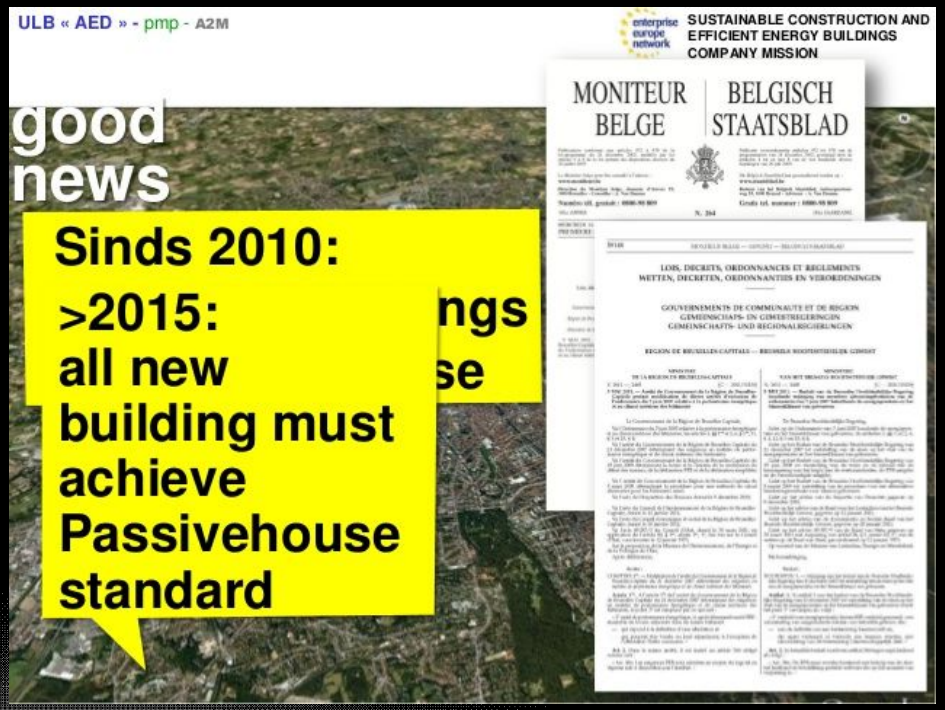


The 5 Pillars

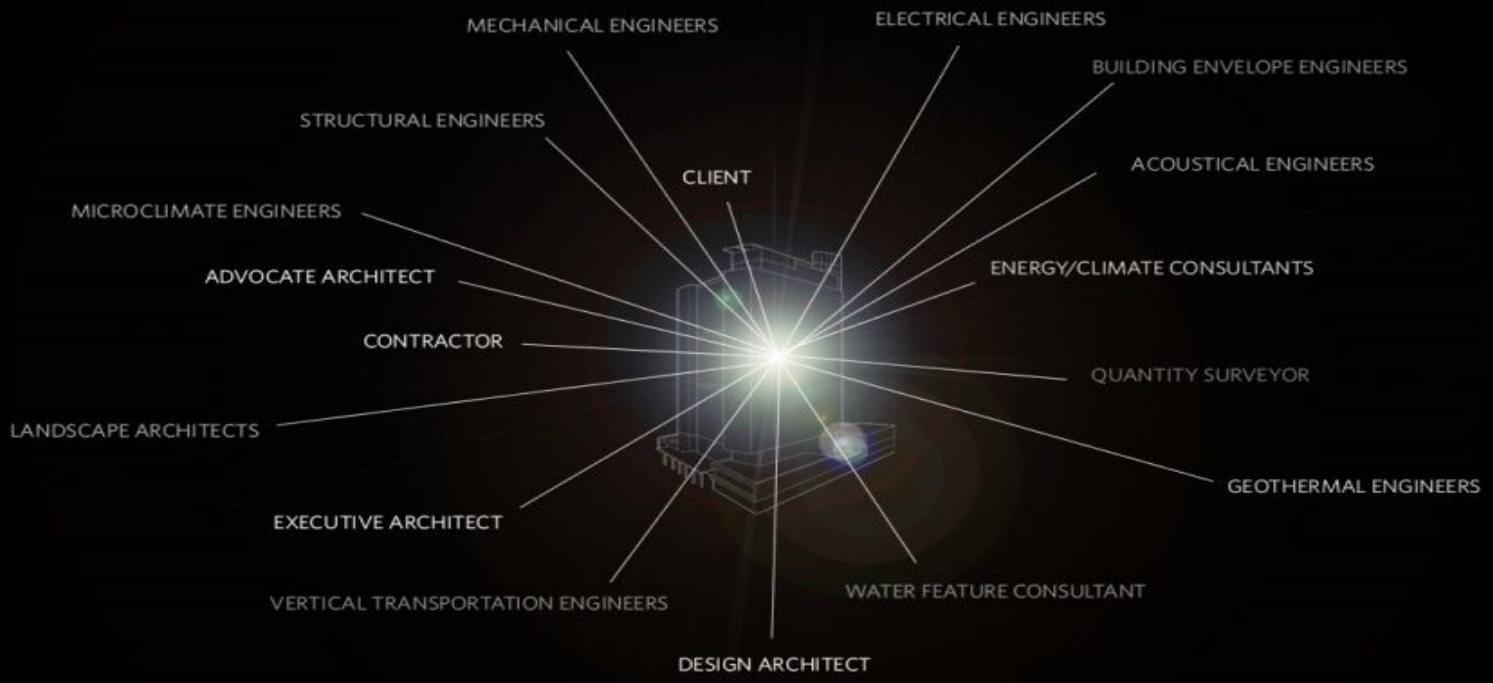


New York

Brussels

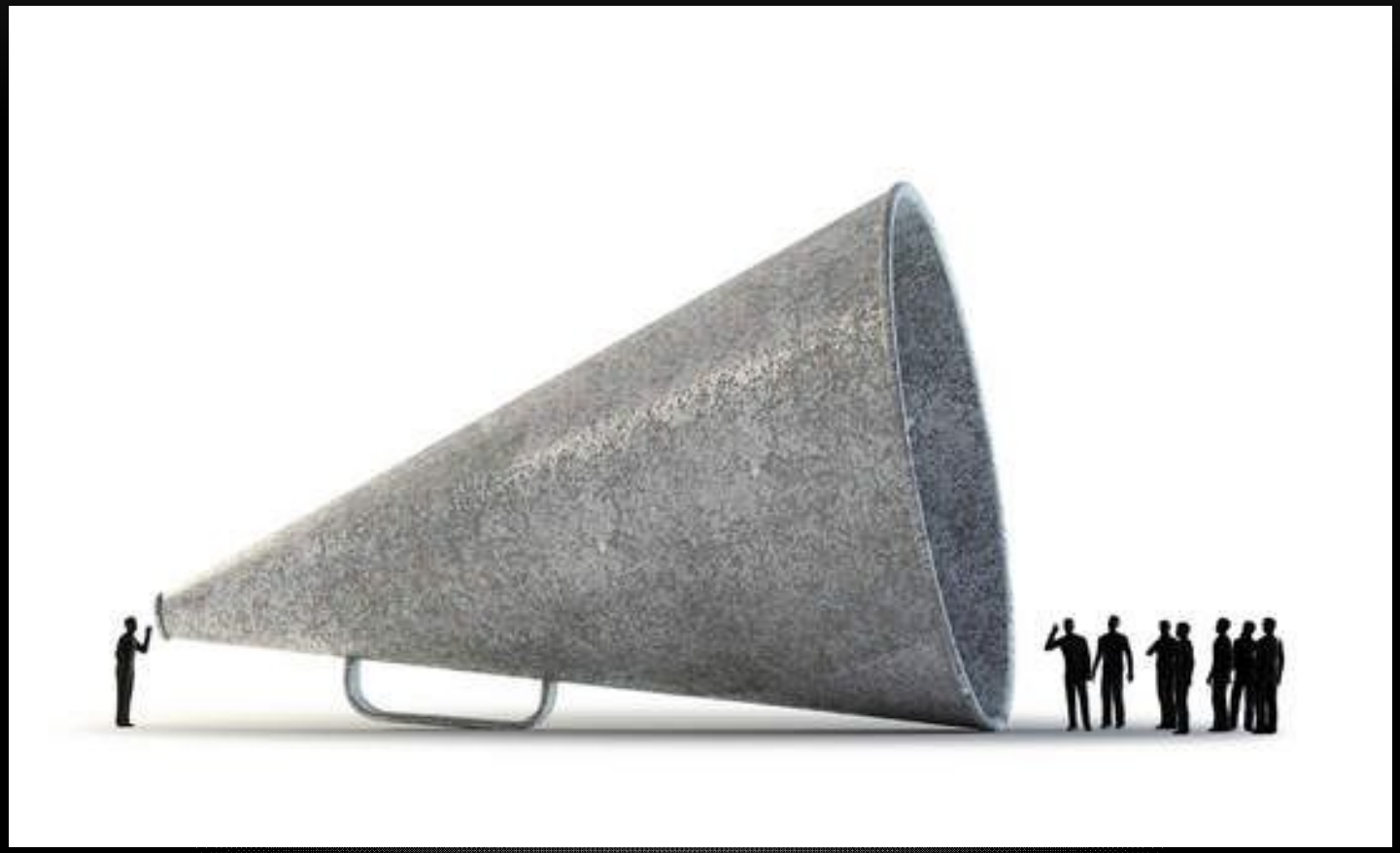


1. Integrated Design = Η βασική προϋπόθεση

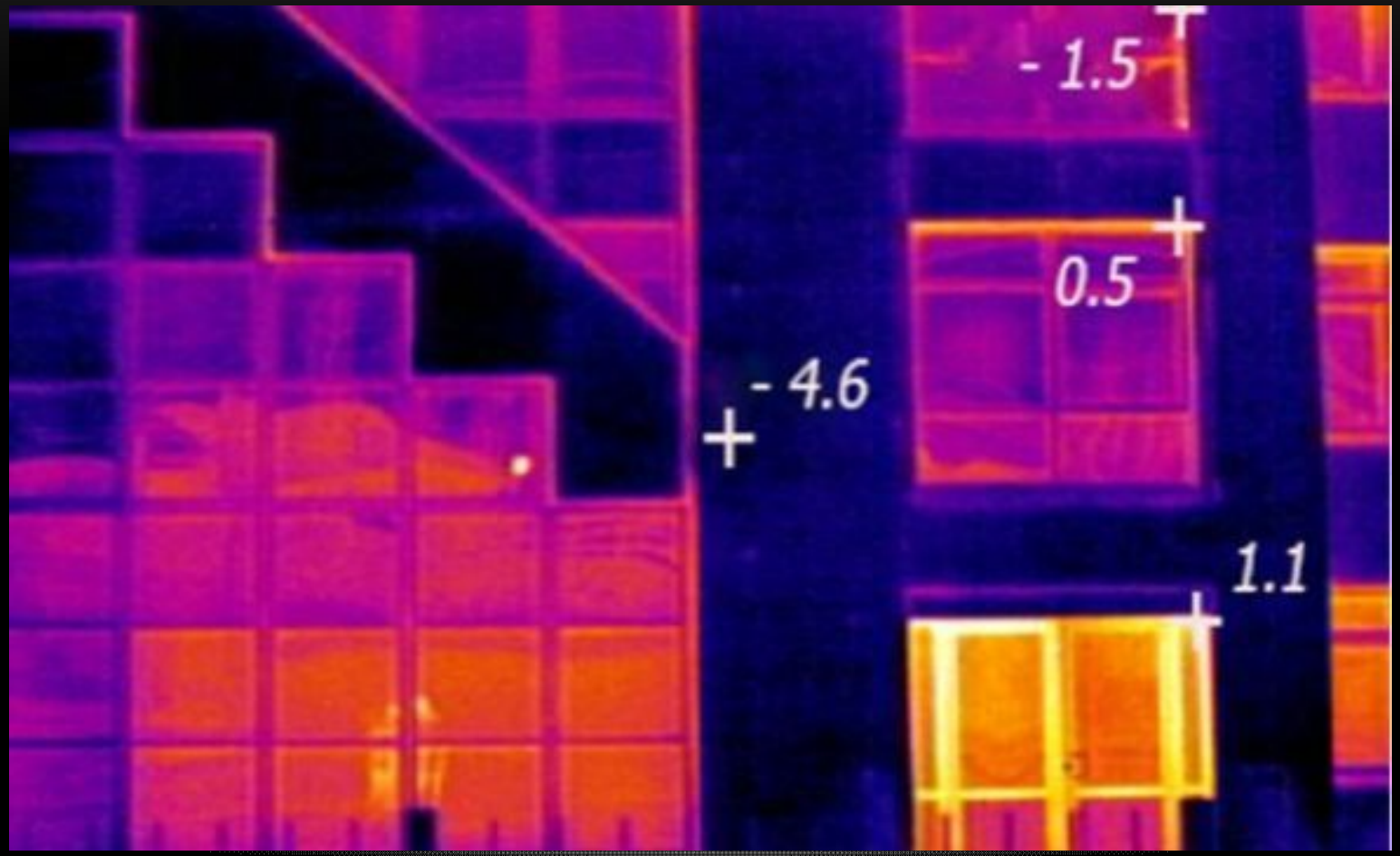


2. A+++ ή απλά Β?

3. Τα πολλά λόγια κουράζουν

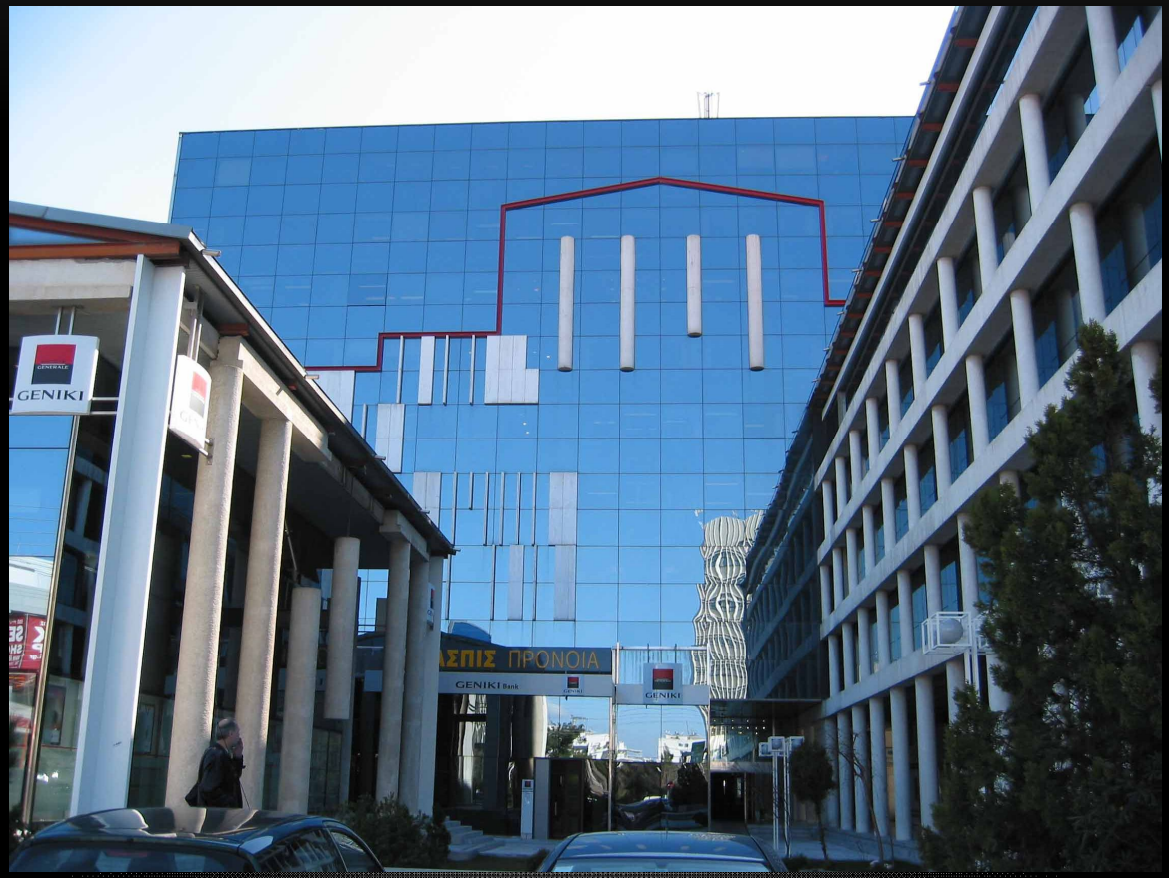


4. Θερμογέφυρες παντού



5. Σημασία στη λεπτομέρεια

6. Το γυαλί δεν είναι πια σέξι

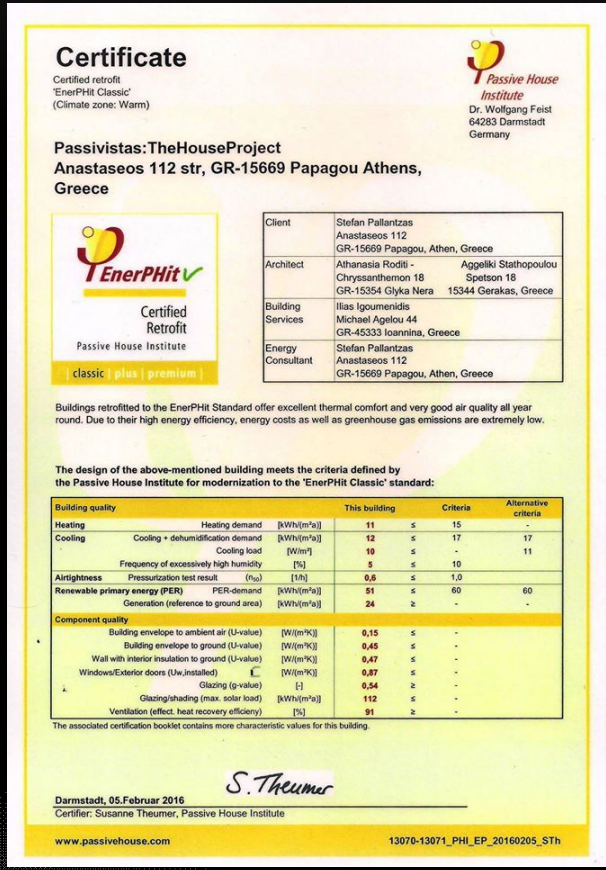


7. Τι είναι πράσινο τελικά?

8. Αερισμός? Ναι αλλά πώς?

9. Συστάσεις προς μηχανολόγους

10. Ζήσε την εμπειρία. Κατανόησε τη Διαφορά



Certificate

Certified retrofit
'EnerPHit Classic'
(Climate zone: Warm)

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany

Passivistas:TheHouseProject
Anastaseos 112 str, GR-15669 Papagou Athens, Greece

EnerPHit
Certified Retrofit
Passive House Institute
classic | plus | premium

Client	Stefan Pallantzas Anastaseos 112 GR-15669 Papagou, Athen, Greece
Architect	Athanasia Roditi - Aggeliki Stathopoulou Chryssanthemon 18 Spetson 18 GR-15354 Glyka Nera 15344 Gerakas, Greece
Building Services	Ilias Igoumenidis Michael Agelou 44 GR-45333 Ioannina, Greece
Energy Consultant	Stefan Pallantzas Anastaseos 112 GR-15669 Papagou, Athen, Greece

Buildings retrofitted to the EnerPHit Standard offer excellent thermal comfort and very good air quality all year round. Due to their high energy efficiency, energy costs as well as greenhouse gas emissions are extremely low.

The design of the above-mentioned building meets the criteria defined by the Passive House Institute for modernization to the 'EnerPHit Classic' standard:

Building quality			This building		Criteria	Alternative criteria
Heating	Heating demand	[kWh/(m²a)]	11	≤	15	-
Cooling	Cooling + dehumidification demand	[kWh/(m²a)]	12	≤	17	17
	Cooling load	[W/m²]	10	≤	-	11
	Frequency of excessively high humidity	[%]	5	≤	10	
Airtightness	Pressurization test result (n_{50})	[1/h]	0,6	≤	1,0	
Renewable primary energy (PER)	PER-demand	[kWh/(m²a)]	51	≤	60	60
	Generation (reference to ground area)	[kWh/(m²a)]	24	≥	-	-
Component quality						
	Building envelope to ambient air (U-value)	[W/(m²K)]	0,15	≤	-	
	Building envelope to ground (U-value)	[W/(m²K)]	0,45	≤	-	
	Wall with interior insulation to ground (U-value)	[W/(m²K)]	0,47	≤	-	
	Windows/Exterior doors (Uw,installed)	[W/(m²K)]	0,87	≤	-	
	Glazing (g-value)	[-]	0,54	≥	-	
	Glazing/shading (max. solar load)	[kWh/(m²a)]	112	≤	-	
	Ventilation (effect. heat recovery efficiency)	[%]	91	≥	-	

The associated certification booklet contains more characteristic values for this building.

S. Theumer

Darmstadt, 05.Februar 2016
Certifier: Susanne Theumer, Passive House Institute

www.passivehouse.com 13070-13071_PHI_EP_20160205_STh

ΥΠΟΛΟΓΙΣΑΜΕ

3.495,41 KWh/χρόνο

ΜΕΤΡΗΣΑΜΕ

3.440,61 KWh/χρόνο

ΜΕΣΗ ΜΕΓΙΣΤΗ ΘΕΡΜΟΚΡΑΣΙΑ ΚΑΛΟΚΑΙΡΙΟΥ

25,01 Cº

ΜΕΣΗ ΕΛΑΧΙΣΤΗ ΘΕΡΜΟΚΡΑΣΙΑ ΧΕΙΜΩΝΑ

20,18 Cº

ΜΕΣΗ ΤΙΜΗ ΣΥΓΚΕΝΤΡΩΣΗΣ CO2

618 ppm

ΜΕΣΗ ΣΧΕΤΙΚΗ ΥΓΡΑΣΙΑ

50%

Passive house : the red pill

This is your last chance. After this, there is no turning back. You take the blue pill—the story ends, you wake up in your bed and believe whatever you want to believe. You take the red pill—you stay in Wonderland, and I show you how deep the rabbit hole goes. Remember: all I'm offering is the truth, nothing more.

Κάντε το επόμενο βήμα τώρα, είστε τόσο κοντά!

Ευχαριστώ

www.eipak.org
www.passivistas.com

Βασισμένο σε ένα κείμενο του Βρετανού Αρχιτέκτονα Elrond Burrell