Certificate

Certified retrofit 'EnerPHit Classic' (Climate zone: Cool-temperate)



Hotel Marcel New Haven, Tapestry Collection by Hilton 500 Sargent Drive, 06511 New Haven, United States of America



Client	Becker & Becker 21 Bridge Square 06880 Westport, USA	
Architect	Becker & Becker 21 Bridge Square 06880 Westport, USA	
Building Services	LN Consulting 208 Flynn Ave. 05401 Burlington, USA	
Energy Consultant	Steven Winter Associates, Inc. 61 Washington St 06854 Norwalk, USA	

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	l	Criteria	Alternative criteria	
Airtightness	Pressurization test i	result (n ₅₀)	[1/h]	0,9	≤	1	
Renewable primary energy (PER) PER-demand		[kBTU/(ft²yr)]	47,9	≤		49,1	
Component qua	lity						
Building envelope to ambient air (U-value)		[hr.ft².°F/BTU)]	51,19	≥	37,86		
Building envelope to ground (U-value)		[hr.ft².°F/BTU)]	1,70	≥	9,50	Exemption	
Wall with interior insulation to ambient air (U-value)			[hr.ft².°F/BTU)]	17,80	≤	16,22	
Windows/Exterior doors (Uw,installed)		[BTU/hr.ft²°F)]	0,17	≤	0,15	Exemption	
	Windows (Uw,insta	alled)	[BTU/hr.ft²°F)]	0,11	≤	0,20	
		Glazing (g-value)	[-]	0,49	≥	0,33	
Ver	<mark>ntilation (effect</mark> . heat re	covery effi <mark>ciency)</mark>	[%]	84	≥	75	

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

Darmstadt

08.09.2023

Certifier: Dragos Arnautu, PHI