# DT775 - ARCH1280 NZEB Project: Residential Dwelling - Pierce Fahy

Article 9(1) of the EPBD requires Member States to ensure that by 31 December 2020, all new buildings are nearly zero-energy buildings (NZEB).

## (EU) 2016/1318 benchmarks the energy performance of NZEB for new dwellings as:

15-30 kWh/(m<sup>2</sup>.y) of net primary energy with, typically, 50-65 kWh/(m<sup>2</sup>.y) of primary energy use covered by 35 kWh/(m<sup>2</sup>.y) of on-site renewable sources.

### Part L 2017 reprint requires that:

to demonstrate acceptable primary energy consumption and CO2 emission rates have been achieved for a nearly zero energy dwelling the EPC and CPC should be no greater than the MPEPC at 0.30 and the MPCPC at 0.35 respectfully.



o'mahony pike architects

Total Envelope Area	143.21					
		Ι			Overall	Overall
Junction description	North	South	East	West	(mm)	(m)
ground floor - external wall	7,148	-	7,945	2,995	18,088	18.08
ground floor - party wall	-	10,298	-	-	10,298	10.29
ground floor - threshold	2,700	-	-	-	2,700	2.
ground floor - cill	3,150	-	H	2,250	5,400	5.
upper floor - external wall	7,148	-	7,945	2,995	18,088	18.08
upper floor - party wall	-	100,298	-	-	100,298	100.29
terrace door head	-	-	-	2,700	2,700	2.
upper floor - window head	3,150	-	-	2,250	5,400	5.
balcony - external wall	-	-	-	1,385	1,385	1.38
external wall corner	5,400	-	-	-	5,400	5.
party wall - external wall	-	5,400	-	-	5,400	5.
window jamb steel frame	2,700	-	-	5,400	8,100	8.
window jamb concrete	8,100	-	-	10,800	18,900	18.





