



after refurbishment

GENERAL INFORMATION	
Building owner	Iveagh Trust
Address	Mount Anthony, Rathmines, Dublin 6W
Number of dwellings	16 before refurbishment 27 after refurbishment (including 9 additional on top floor)
Number of floors	2 before refurbishment, 3 after
Average size of the dwellings	39.70 m ² before refurbishment 40.44 m ² after refurbishment
Total heated floor area	828 m ² before refurbishment 1242 m ² after refurbishment (including addition of upper floor)
Year of construction	–
Year of refurbishment	2005
Has the refurbishment been carried out while the dwelling was occupied?	yes
Has an independent quality assurance been carried out?	no
Total building costs	105.000 €
Building costs concerning energy recovery	19.394 €



INITIAL SITUATION/LOCAL CONDITION	<ul style="list-style-type: none"> • Conditions were poor in terms of thermal comfort • windows were single glazed • walls were not insulated, with risk of condensation • Little to no roof insulation
TYPE OF REFURBISHMENT (MEASURES WHICH HAVE BEEN CARRIED OUT)	<ul style="list-style-type: none"> • Walls were drylined with 72.5 mm ThermaWall insulation • Light thermal block used for upper new floor • single glazed windows replace with double glazed single glazed windows • New Gas boiler installed
WHY HAVE THE MENTIONED MEASURES BEEN CARRIED OUT?	These measures were carried out to improve the comfort of the residents. The residents are senior citizen and therefore require have additional requirements over and above the normal requirements of a typical occupant of social housing.

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ENERGY RELATED ACTIVITIES			
Exterior components	<ul style="list-style-type: none"> • double glazed windows • dryline external walls with 72.5 mm Thermawall (lamada value of 0.025W/mK) • addition of extra floor allows for better insulated roof (200 mm fibreglass at ceiling plus 500 mm on slope) 		
Systems engineering	<ul style="list-style-type: none"> • New gas boiler Potterton Suprima 502 		
ENERGY RELATED INDICATORS			
	Initial situation	After refurbishment	Reduction
Energy performance	310.28 kWh/m ² a	167.91 kWh/m ² a	%
Energy consumption	kWh/a	kWh/a	%
CO ₂ -emission	61,395	33,22	kg/m ² a
Heating system	gas boiler, efficiency unknown (< 70 %)	gas boiler Potterton Suprima (79 % efficiency)	
DHW-system	gas & electricity	gas & electricity	
Monitoring system	No monitoring in place		
Regional energy costs	Not available		

PROMOTION	
SUBSIDIES	Funding was granted through the Capital Loan and subsidy scheme which is funded by the Department of Government & Local Government. While this loan is normally for the construction of new housing, the Iveagh Trust secured funding for Mount Anthony, as new units were provided through the addition of an upper floor and also some units increased their floor area and therefore were also considered as new units.
STATEMENT	
CONTACT	Codema Unit 50, Taylor's Lane Dublin 8 Fon: +353 1 410 0562 mailto: edel.giltenane@codema.ie