

wrapt

Low energy homes, made easy



Wrapt was set up in 2022 by Colin Munro and Jamie Keats to offer a whole house retrofit service from design to completion. Colin Munro has a background in Development with over 10 years experience developing mixed use schemes with Link City, Jamie Keats has a background in architecture, having studied at the Centre for Alternative Technology and as R&D lead at CITU.

Wrapt are currently working alongside housing association Unity Housing and a handful of homeowners to deliver whole house retrofit across Yorkshire and the North West. In addition wrapt are working with UKRI, Leeds Beckett University and Otley Energy to develop a Social Housing funding methodology.

Delivery Principles:

Whole Project: Take ownership of design, delivery, handover.

Standardisation: driving speed and efficiency through using the same materials and techniques across multiple projects.

Data Driven: Modelling conducted and testing of before and after to prove energy savings.

Affordability: Achieve a retrofit methodology that can be realised through a funding package, through amplifying retrofits co-benefits.

Whole Life: Use natural materials to reduce embodied carbon and protect the building fabric from mould.

Demonstrator: Gledhow

Design: Jamie Keats
 Client: Wrapt Homes
 Construction: Team: Walden, M&J, Vince Scully
 MEP: Atamate
 Building Control: Sottec
 Budget: £55k
 Target heat demand: 52kwh/m²
 Baseline Energy demand
 Target Air tightness Target: 5ACH@50pa
 Baseline Air Tighness: 13ACH@50pa



Pre-Retrofit

Totals	361.2	8668	113
Wall 1 - Main	147.1	-	-
Wall 2 - Entrance	12.7	-	-
Roof 1 - Main	46.0	-	-
Roof 2 - Entrance	6.7	-	-
Floor	25.0	-	-
Window	32.5	-	-
External Door	5.3	-	-
Thermal Bridges	31.2	-	-
Infiltration	17.0	-	-
Ventilation	37.6	-	-
Fabric Element	HTC₁		

Post-Retrofit

Totals	167.3	4015	52
Wall 1 - Main	34.8	-	-
Wall 2 - Entrance	4.2	-	-
Roof 1 - Main	5.7	-	-
Roof 2 - Entrance	0.8	-	-
Floor	12.5	-	-
Window	32.5	-	-
External Door	5.3	-	-
Thermal Bridges	27.0	-	-
Infiltration	6.8	-	-
Ventilation	37.6	-	-
Fabric Element	HTC₁		