



nZED Compliant Specification: 6 BED

- Air Infiltration:** Due to structure: 4m3/hr.m2@50pa (-0.20 a/ch)
- U-Values:**
 - Floor:** U-Value: 0.12W/m2k. 150mm thick insulation with a thermal conductivity of 0.022W/mk. 30mm insulation strip to all edges of floor.
 - Walls:** U-Value: 0.15W/m2k. 350mm thick cavity wall with 110mm Thick Xtratherm Thin R Plus Cavity Insulation or eta with a thermal conductivity of below 0.022W/mk. Proprietary insulated cavity closers are to be installed to all openings. One course of thermal blocks are to be installed at ground floor level, to reduce cold bridging.
 - Roof:** U-Value: 0.13W/m2k. Insulation to ceiling joists (horizontal areas). 350mm fibreglass insulation - 150mm thick fixed between the joists with 200mm fibreglass insulation laid over. Thermal conductivity of below 0.04W/mk.
 - Windows/Doors:** U-Value: 1.2W/m2k. uPVC windows and doors with a frame factor of 0.7 and a solar gain factor of 0.63.
- Attic Access:** Attic access hatch is to be draught stripped & insulated.
- Thermal Bridging:** 0.08 x total exposed area (W/m2K) - refer to Appendix D in Part L 2011 Building regulations for details
- Air Tightness:** All windows and doors are to be sealed with the appropriate air tightness tape and membrane. Specialist Contractor to be appointed as required to carried out work
- Space & Water Heating System:** Air to Water Heat pump Split System - Hitachi 7.5KW, Model RAS-3WHVRP / RWV-3.0NRWE-26DS tested to I.S. EN 14825, with Hot Water cylinder to be 260L with a declared Loss Factor of 1.75kW/day. Design flow temperature 45 degrees; radiator heating throughout. Heat pump in operation 24hrs per day (Installer Sign off sheet required for this). Full time and temperature control. Primary circuit loss to be a boiler & thermal store within a single casing, with a Cylinder Thermostat present to Dwelling No.15.
- Light Fixtures:** 100% Light bulbs are to be Low Energy Bulbs
- Draught Strips to Ext Windows & Doors:** All external windows and doors are to arrive to site with their draught stripping intact and installed according to Manufacturers specification and details

NOTES

- This drawing is the property of Carlow County Council, it is a confidential document and must not be copied, used, or its content divulged without prior written consent.
- DO NOT SCALE. Use figured dimensions only, if in doubt ask.

KEY TO ELECTRICAL SYMBOLS

NOTE 1: INCLUDE FOR ALL NECESSARY BUILDERS WORKS AND ATTENDANCES FOR MECH. & ELEC. INSTALLATIONS. ALL CHASINGS TO BE MACHINE CUT.

NOTE 2: INDIVIDUAL SYSTEMS REQUIRED FOR FIRE AND CARBON DETECTION.

- EXTERNAL LIGHT
- PENDANT LIGHT
- DIMMABLE CHROME DOWN LIGHTS
- LIGHTING BATTEN
- DUAL GROUP IMMERSION HEATER
- 1 GANG LIGHT SWITCH
- 2 GANG LIGHT SWITCH
- COOKER SWITCH
- FRIDGE, EXTRACTOR, WASHING MACHINE ISOLATOR SWITCHES
- Mechanical Ventilation Unit
- STRIP LIGHT SHOWER SOCKET
- DOUBLE SOCKET-WORKTOP LEVEL
- SINGLE SOCKET-WORKTOP LEVEL
- SINGLE SOCKET
- DOUBLE SOCKET
- TV AERIAL SOCKET
- CONSUMER UNIT WITH ELCB
- TELEPHONE POINT
- WALL MOUNTED HEATING CONTROL
- DIGITAL ROOM STAG
- HEAT DETECTOR (EI 164 RC)
- SMOKE ALARM (EI 2110 MULTI-SENSOR)
- SMOKE ALARM (EI 166 RC OPTICAL)
- EXTRACT FAN SOCKET
- DOOR BELL
- DOOR BELL PUSH
- FUSEBOARD

MECHANICAL LEGEND

- New Radiator
- New Radiator

FIRE STOPPING

LOCATIONS OF FIRE STOPPING - WORKS BY APPROVED SPECIALIST CONTRACTOR

SERVICES LEGEND

- FOUL WATER AJ AND PIPEWORK
- SOIL VENT PIPE
- SURFACE WATER AJ AND PIPEWORK

No.	Date	Amendment / Issue	App.
A	04/03/2024	Planning Stage.	L.S.

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Carlow Local Authorities, A CPD Accredited Company

Project: NEW DWELLINGS & ALL ASSOCIATED SITE WORKS AT TOWNSEND AVENUE, BILBOA, BAHANA, CO. CARLOW.

Title: DWELLING 15 : FLOOR PLAN, SECTION & ELEVATIONS. (6 BED)

Drawn by:	R.S.	Job No:	
Checked by:	L.S.	Issue:	
Approved by:	L.S.	Drg. No:	
Scale:	1:100 @ 1:50 @A1		E-201
Date:	04/03/2024		A