DEAP for NEW-FINAL and EXISTING HOMES SURVEY FORM

Property address:

Assessor name / BER reg. no. | **Survey Date.**

Eircode: **MPRN:**

No. of storeys | No. of extensions | Upgrade works | SEAI grant (y/n)

Insulation Upgrade Indicators *indicate wall or roof type*

- ☐ Contractor comfirmation
- ☐ Visible in photos
- ☐ Invoices, receipts, emails
- ☐ Bead visible
- ☐ Drill Pattern visible
- ☐ Hollow knocking sound
- ☐ Acrylic/silicone render
- ☐ Additional wall thickness
- ☐ Metal Plaster sills
- ☐ metal flashing at soffit/barge
- ☐ Visible at vents/holes
- ☐ Deeper sockets
- ☐ Borescope Confirmation
- ☐ Other

Dwelling Type	Age: Dwelling	Age: Extension 1	Age:Extension 2
☐ detached house	☐ pre 1900	☐ pre 1900	☐ pre 1900
☐ semi detached house	☐ 1900 - 1929	☐ 1900 - 1929	☐ 1900 - 1929
☐ end of terrace	☐ 1930 - 1949	☐ 1930 - 1949	☐ 1930 - 1949
☐ mid terrace	☐ 1950 - 1966	☐ 1950 - 1966	☐ 1950 - 1966
☐ ground floor apartment	☐ 1967 - 1977	☐ 1967 - 1977	☐ 1967 - 1977
☐ mid floor apartment	☐ 1978 - 1982	☐ 1978 - 1982	☐ 1978 - 1982
☐ top-floor apartment	☐ 1983 - 1993	☐ 1983 - 1993	☐ 1983 - 1993
☐ basement apartment	☐ 1994 - 1999	☐ 1994 - 1999	☐ 1994 - 1999
☐ maisonette	☐ 2000 - 2004	☐ 2000 - 2004	☐ 2000 - 2004
Pick dwelling type that is closest to actual dwelling type	☐ 2005 - 2009	☐ 2005 - 2009	☐ 2005 - 2009
	☐ 2010 onwards	☐ 2010 onwards	☐ 2010 onwards

Type of Rating
- ☐ new-final dwelling
- ☐ existing dwelling

Purpose of Rating
- ☐ new: owner occupier
- ☐ sale
- ☐ private letting
- ☐ social housing letting
- ☐ grant support
- ☐ major renovation
- ☐ other

Wall construction Main Wall*
- ☐ stone ☐ wall thickness (mm)
- ☐ solid brick ☐ is wall semi exposed?
- ☐ cavity **Wall Insulation**
- ☐ solid concrete ☐ as built ☐ bead
- ☐ hollow block ☐ cavity fill ☐ EPS
- ☐ timber frame ☐ external ☐ Min fibre
- ☐ other/unknown ☐ internal ☐ dense

insulation thickness if observable(mm) ☐

Roof Construction: Main Dwelling*
- ☐ pitched - insulation btw joists
- ☐ pitched - insulation in rafters
- ☐ flat - insulation integral
- ☐ room in roof
- ☐ no heat loss roof
- ☐ other

Roof insulation thickness (mm) ☐ fibre ☐ warmcell ☐ EPS ☐ unknown ☐ dense

Ground Floor Construction: Main Dwelling*
- ☐ solid ☐ no heat loss ground floor
- ☐ suspended:sealed ☐ unsealed ☐
- ☐ above unheated basement
- ☐ heated basement
- ☐ other

Floor Insulation **Type of insulation (if any)**
thickness (mm) ☐ EPS ☐ (only if any observed) ☐ min fibre ☐ none ☐ unknown ☐ dense ☐

Wall construction Wall Type 2*
- ☐ no wall type 2 ☐ wall thickness (mm)
- ☐ stone ☐ is wall semi exposed?
- ☐ solid brick **Wall Insulation**
- ☐ cavity ☐ as built ☐ bead
- ☐ solid concrete ☐ cavity fill ☐ EPS
- ☐ hollow block ☐ external ☐ min fibre
- ☐ timber frame ☐ internal ☐ dense
- ☐ other/unknown

insulation thickness if observable(mm) ☐

Roof Construction: Roof Type 2*
- ☐ no heat loss roof type 2
- ☐ pitched - insulation btw joists
- ☐ pitched - insulation in rafters
- ☐ flat - insulation integral
- ☐ room in roof
- ☐ other

Roof insulation thickness (mm) ☐ fibre ☐ warmcell ☐ EPS ☐ unknown ☐ dense

Ground Floor Construction: Floor Type 2*
- ☐ no heat loss extension floor type 2
- ☐ solid
- ☐ suspended:sealed ☐ unsealed ☐
- ☐ above unheated basement
- ☐ other

Floor Insulation **Type of insulation (if any)**
thickness (mm) ☐ EPS ☐ (only if any observed) ☐ min fibre ☐ none ☐ unknown ☐ dense ☐

Wall construction Wall Type 3*
- ☐ no wall type 3 ☐ wall thickness (mm)
- ☐ stone ☐ is wall semi exposed?
- ☐ solid brick **Wall Insulation**
- ☐ cavity ☐ as built ☐ bead
- ☐ solid concrete ☐ cavity fill ☐ EPS
- ☐ hollow block ☐ external ☐ min fibre
- ☐ timber frame ☐ internal ☐ dense
- ☐ other/unknown

insulation thickness if observable(mm) ☐

Roof Construction: Roof Type 3*
- ☐ no heat loss roof type 3
- ☐ pitched - insulation btw joists
- ☐ pitched - insulation in rafters
- ☐ flat - insulation integral
- ☐ room in roof
- ☐ other

Roof insulation thickness (mm) ☐ fibre ☐ warmcell ☐ EPS ☐ unknown ☐ dense

Ground Floor Construction: Floor Type 3*
- ☐ no heat loss extension floor type 3
- ☐ solid
- ☐ suspended:sealed ☐ unsealed ☐
- ☐ above unheated basement
- ☐ other

Floor Insulation **Type of insulation (if any)**
thickness (mm) ☐ EPS ☐ (only if any observed) ☐ min fibre ☐ none ☐ unknown ☐ dense ☐

Wall construction Wall Type 4*
- ☐ no wall type 4 ☐ wall thickness (mm)
- ☐ stone ☐ is wall semi exposed?
- ☐ solid brick **Wall Insulation**
- ☐ cavity ☐ as built ☐ bead
- ☐ solid concrete ☐ cavity fill ☐ EPS
- ☐ hollow block ☐ external ☐ min fibre
- ☐ timber frame ☐ internal ☐ dense
- ☐ other/unknown

insulation thickness if observable(mm) ☐

Roof Construction: Roof Type 4*
- ☐ no heat loss roof type 4
- ☐ pitched - insulation btw joists
- ☐ pitched - insulation in rafters
- ☐ flat - insulation integral
- ☐ room in roof
- ☐ other

Roof insulation thickness (mm) ☐ fibre ☐ warmcell ☐ EPS ☐ unknown ☐ dense

Heat Loss Upper Floors (Floor Type 4)*
- ☐ no heat loss upper floor
- ☐ partially heated below
- ☐ exposed ☐ semi exposed

Floor Insulation **Type of insulation (if any)**
thickness (mm) ☐ EPS ☐ (only if any observed) ☐ min fibre ☐ none ☐ unknown ☐ dense ☐

**note:Actual U-value should be calculated and used if the wall /roof /floor construction detail is available on site or through documentation. Substantiation supporting the U-value calculation is required.*

Total Floor Areas, Heat Loss Floor Areas, Gross Heat Loss Wall Areas, Gross Heat Loss Roof Areas, Storey Heights* (internal dimensions only)

	Storey height (m)	Total floor area (m^2)	Heatloss Floor 1 Area (m^2)	Heatloss Floor 2 Area (m^2)	Heatloss Floor 3 Area (m^2)	Heatloss Floor 4 Area (m^2)	Heatloss Perimeter (m)	Heatloss Wall 1 Area (m^2)	Heatloss Wall 2 Area (m^2)	Heatloss Wall 3 Area (m^2)	Heatloss Wall 4 Area (m^2)	Heatloss Roof 1 Area (m^2)	Heatloss Roof 2 Area (m^2)	Heatloss Roof 3 Area (m^2)	Heatloss Roof 4 Area (m^2)
Ground / Lowest Floor															
First / Next Floor															
Second / Next Floor															
Third / Next Floor															
Basement															

living area (m^2)	room in roof area (m^2)	perimeter/total ground floor (P/A) ratio			% draughtstripping	Lighting design known (yes/no)? If yes, keep Wattage /Lumens proof on file.
		F type#1	F type#2	F type#3		

Thermal mass	light	med	heavy
external wall			
floor			
separating walls			
internal walls			
Overall thermal mass			

Room by Room record (use more than 1 row for a room if required)

OPENING DATA											ROOM DATA					
Room	Opening	opening dimensions (W x H or m^2)	Glazing details	Frame	Gap	over shading	direction	Wall / roof type	# of openable windows/ doors / attic hatches?	# windows/ doors/ hatches with draught-stripping	Chimney or Flueless	Open Flues	Fans / vents	Rads with or w/o TRVs?	Number of fixed lights	What type of fixed lights? Use more than 1 row if needed.
TOTALS																

** Gross areas have to be converted to net heat loss areas when entered into DEAP program by subtracting door and window areas from each wall type*

Ventilation Factors

draught lobby on main entrance
pressure test results available
If yes, enter adjusted result (ac/h)
number of sides sheltered
Pressure test result reference number
Is there uninsulated ducting on MVHR system outside dwelling envelope?

- natural ventilation
- positive input ventilation from loft
- positive input ventilation from outside
- whole house extract ventilation
- balanced whole-house mech. ventilation without heat recovery
- balanced whole-house mechanical ventilation with heat recovery
- exhaust air heat pump (EAHP) — air flow rate for EAHP (m^3/h)

DEAP manual contains guidance on using non default SFP and efficiency for mechanical ventilation units as well as identifying the air flow rate in EAHPs.

Mech. ventilation system details if available (e.g. model&number, along with # of rooms from which air is extracted and use of flexible/rigid ducting)

Lighting summary (total number of each bulb type from room by room record)

#Linear flourescent | #CFL | #Halogen lamps | #LED | #Halogen LV | #Incandescent/ unknown

Space heating system (general information)

Primary Heating System	Secondary Heating System	Primary Heating Fuel	Secondary Heating Fuel
radiator system	no secondary system	mains gas	no secondary system
storage heaters	radiator system	bulk LPG	mains gas
underfloor	storage heaters	bottled LPG	bulk LPG
warm air	underfloor	heating oil	bottled LPG
room heaters only	warm air	electricity	heating oil
community	room heaters only	heat from CHP	electricity
fan coil radiators	fan coil radiators	bioethanol	heat from CHP
other (describe briefly):	other (describe briefly):	other:	bioethanol
		biodiesel	other:
		housecoal	housecoal
		anthracite	anthracite
		smokeless	smokeless
		peat briquettes	peat briquettes
		sod peat	sod peat
		wood pellets	wood pellets
		wood chips	wood chips
			biodiesel

Gas / Oil / LPG Boilers — primary / secondary

Boiler type: standard; combi; condensing; back boiler; CPSU; range cooker; single burner; twin burner

Flue type: open; balanced; fan assisted

Mounting: wall; floor

Age: 1998 or later; pre 1998; oil: pre 1985; gas/ LPG pre 1979

Ignition: auto; permanent pilot

Manufacturer / make / model number

Solid Fuel Boilers — primary / secondary

- open fire + back boiler
- closed room heater + back boiler
- grate: rectangular / trapezium
- manual feed boiler
- auto feed boiler
- range cooker boiler with integral oven
- independent oven
- biomass boiler
- wood chip / pellet boiler
- MF / AF boiler in heated space?

Manufacturer / make / model number

Electric Boilers — primary / secondary

- direct acting
- dry core
- CPSU
- water storage
- dry core / water storage in heated space

Comments on heating system

If the heat pump differs from the options listed, enter details here

Electric Storage Heaters — primary / secondary

- modern / slimline
- convector
- integrated storage / direct acting (inc. room stat)
- fan assisted
- old (pre-1980) large volume

Control options: manual charge control; automatic / weather dependent; Celect-type

Gas Room Heaters — primary / secondary

- pre 1980
- coal effect - sealed flue
- coal effect - open to chimney
- flueless
- condensing
- back boiler (no rads)
- other (none of above)

Front: open-fronted; glass-fronted

Flue type: open; balanced; fan assisted

Warm Air Systems — primary / secondary

Ducted or Stub Ducted: on - off; modulating

Other Features (tick all that apply): fan assisted; condensing; with flue heat recovery

Age: 1998 or later; pre 1998

Other types: Room heater with in floor ducts; Electric electricaire

Oil Room Heaters — primary / secondary

- room heater / range
- room heater/range with boiler (no rads)

Age: pre 2000; 2000 or later

Solid Fuel Room Heaters — primary / secondary

- open fire in grate
- open fire with backboiler (no rads)
- closed room heater
- closed room heater with backboiler (no rads)
- stove (pellet-fired)
- flueless bioethanol

Comments on cooling system

If the heat pump differs from the options listed, enter details here

Heat Pumps / cooling — primary / secondary

- air-to-air; ground-to-air; water-to-air
- air-to-water; ground-to-water; water-to-water
- air-conditioner; Exhaust-air heat pump
- heat pump includes auxiliary electric heater

Manufacturer / make / model number

Electric Room Heaters — primary / secondary

- panel, convector, or radiant heater
- fan heater

Secondary heating make / manufacturer/model number

Individual CHP?

% heat from CHP

CHP efficiencies

Electrical %

Thermal %

Fuel

Heating system (Domestic Hot Water)

Primary Hot Water System

☐ from primary heating system ☐ gas instant: single point ☐ backboiler / kitchen range
☐ electric immersion ☐ gas instant: multi point ☐ gas ☐ oil ☐ SF
☐ electric instantaneous ☐ gas circulator pre 1998 ☐ gas circulator 1998 or later
If instantaneous combi boiler: ☐ keep hot facility controlled by ☐ timeclock ☐ no timeclock
If storage combi: store volume ☐ <55 litres ☐ >= 55 litres

Hot Water Cylinder, Insulation and Controls ☐ cylinder ☐ combi ☐ CPSU ☐ thermal store

☐ no access **Insulation:** ☐ no insulation primary pipework insulated ☐ **Controls:**
☐ capacity (litres) ☐ lagging jacket ☐ insulation cylinder thermostat ☐
☐ or dimensions ☐ factory fitted ☐ thickness (mm) independent timer ☐
Cylinder volume/dimensions does not include insulation thickness storage is outdoors ☐

Supplementary Summer Hot Water

☐ not applicable ☐ electric heater present for supplementary hot water heating*
**only if space heating and water heating cannot be separated and main water heating isn't electric. See DEAP manual*

Solar Water Heating System ☐ Yes ☐ No

☐ evacuated tube ☐ flat plate, glazed ☐ Flat plate unglazed
☐ solar collector area (m^2) ☐ area is "gross" area
☐ area is "aperture area
overshading: ☐ very little (<20%) ☐ modest (20-60%)
☐ significant (61-80%) ☐ heavy (>80%)

dedicated solar storage volume (litres) ☐
contained within combined cylinder ☐
contained within separate cylinder ☐
orientation ☐ tilt ° ☐
Solar panel make and model: ☐

Comments on water heating system

Showers and baths

☐ Bath in dwelling (y/n)? ☐ Is water use target (hot and cold) 125 l/p/d (y/n)?

Shower #	Is flow rate known? (y/n)	Shower type: Electric/ Unvented/ Vented/ Vented+pump	Flow restrictor? (y/n)	Flow rate (if known)?	WWHR efficiency and utilisation factor	
1						
2						
3						
4						
5						

Heating system (Controls)

Heating Controls (tick all that apply)

☐ no controls
☐ programmer / timeclock
☐ room thermostat number ☐
☐ TRV's % rads with TRVs ☐
☐ bypass
☐ load compensator
☐ weather compensator
☐ full zone control
☐ boiler energy management system
☐ delay start thermostat
☐ boiler interlock
☐ appliance thermostat
☐ appliance timeclock

Underfloor heating (UFH)

☐ in insulated timber floor ☐ whole house UFH
☐ in screed ☐ Partial UFH including living area
☐ in concrete ☐ Partial UFH not including living area

Pumps

☐ How many central heating pumps for space heating?
Central heating pump(s) outdoors ☐
☐ How many oil boiler fuel pumps?
Oil fuel pump(s) outdoors ☐
☐ How many gas boiler flue fans?

Comments on Heating Controls

Group Heating

Distribution Loss Factor and charge method

☐ pre 1991 full flow mid-high temp: not pre-insulated
☐ pre 1991 full flow low temp: pre-insulated
☐ 1991 or later variable flow mid temp: pre-insulated
☐ 1991 or later variable flow low temp: pre-insulated
See DEAP C1.1 for dist. loss factor derivation method

consumption charged: flat rate ☐ linked to use ☐

Heating system #1

☐ efficiency %
☐ proportion of group heating %
Fuel type of heating system ☐
Make and model of heating system ☐

Heating system #2

☐ efficiency %
☐ proportion of group heating %
Fuel type of heating system ☐
Make and model of heating system ☐

CHP / Waste Heat

☐ % heat from CHP (or power station)
☐ power station
☐ CHP
CHP efficiencies
☐ Electrical %
☐ Thermal %
Fuel ☐

Any other comments or details on assessment including items observed which affect the rating but not shown elsewhere on survey form/sketches.

DEAP SURVEY FORM - EXTERNAL PHOTOS

Please note: This sample list is only a recommendation of images required as evidence for inputs in your assessment and is not exhaustive. You should capture any additional photographs you consider necessary to support an entry in DEAP.

Where possible avoid capturing personal information or redact before uploading to DEAP

Photos of Dwelling Type

- [ ] Each elevation
- [ ] All extensions
- [ ] Adjoining buildings/ apartments/balconies
- [ ] Any external buildings incl. in assessement
- [ ] Compass showing the orientation of the dwelling

Photos supporting Age of Construction

- [ ] ESB/GAS Meter
- [ ] Name plate displaying year of build
- [ ] Stylistic evidence
- [ ] Glazing age printed between panes

Photos of Floor Types

- [ ] External vents to support suspended floors

Photos of Roofs

- [ ] Each roof type
- [ ] Solar array (PV or thermal)

Photos of Wall Types

- [ ] Each wall type
- [ ] Wall thickness at openings
- [ ] Wall type visible from meter box interior
- [ ] Cavity insulation drill pattern visible
- [ ] Cavity bead insulation visible
- [ ] External insulation (additional thickness at boundary, acrylic/silicone render, sills)

Photos of Window Types

- [ ] Each frame type, glazing type, date stamps, glazing spacer bars

Photos of Door Types

- [ ] All external door types
- [ ] Full door/window/panel unit if integrated (helps with measurement details)

Photos of Ventilation

- [ ] Ventilation covers visible externally
- [ ] Any chimneys
- [ ] Any flue types

Photos of Space Heating

- [ ] Outside boiler/heat pump unit
- [ ] Boiler/heat pump make & model
- [ ] Any flue types & condensing outlet
- [ ] Any indicators of fuel types
- [ ] Any frost sensors / weather compensators

Photos of Cooling

- [ ] Photograph(s) of outside unit

Photos of Renewables

- [ ] Installed PV/solar thermal system
- [ ] Wind Turbine system
- [ ] Micro-generation system

photograph name plates if possible

Personal Data

- [ ] Redact any personal images if captured
- [ ] Redact any personal information if captured
- [ ] Redact any vehicle reg plates if captured

Photos of Apartment Lobbies

- [ ] Heat emitters in corridors/lobbies

Photos of Porches/ Garages

- [ ] Door between porch/garage & house
- [ ] Heaters in porch/garage
- [ ] Lights in porch/garage

DEAP SURVEY FORM - INTERNAL PHOTOS

Please note: This sample list is only a recommendation of images required as evidence for inputs in your assessment and is not exhaustive. You should capture any additional photographs you consider necessary to support an entry in DEAP.

Where possible avoid capturing personal information or redact before uploading to DEAP

Photos supporting Age of Construction

- [ ] ESB/GAS Meter (if inside)
- [ ] Stylistic evidence
- [ ] Glazing age printed between panes
- [ ] Indicators of extensions

Photos supporting Floor types

- [ ] Changes of floor types
- [ ] Changes in floor levels
- [ ] Layers of floor build-up during construction

Photos of Roof Space

- [ ] Each roof type
- [ ] Insulation type, location (on ceiling or slope) showing depth measurement
- [ ] Any lights in the attic spaces
- [ ] Any ventilation systems within roof space
- [ ] Ducting type rigid/semi rigid
- [ ] Knee wall internal make-up and any insulation
- [ ] Draught-proofing on any attic doors/hatches

Photos of Wall Types

- [ ] Wall thickness measurement at openings
- [ ] Any indicators of internal insulation upgrade
- [ ] Layers of floor build-up during construction

Photos of Windows

- [ ] Type of Frames,
- [ ] Number of openings
- [ ] Glazing spacer bars & information stamps
- [ ] Draught-proofing of single-glazed frames

Photos of Doors

- [ ] All external door types
- [ ] Full door/window/panel unit if integrated (helps with measurement details)

Photos of Ventilation

- [ ] Internal vent covers & any closing mechanism
- [ ] Non-closeable vents
- [ ] Chimneys / dampers
- [ ] Open flues
- [ ] Vents for flueless combustion room heater
- [ ] Intermittent fans
- [ ] Ventilation system and any name plates
- [ ] Ducting type rigid/semi rigid & insulation

Photos of space heating

- [ ] Indoor boiler/heat pump unit & name plate
- [ ] Any room thermostats/sensors
- [ ] Programmer/timer capturing make/model
- [ ] Any control applications
- [ ] Central heating pump and any energy label for non-default central heating pump power
- [ ] Heat emitters (radiators, panel heaters)
- [ ] TRVs
- [ ] Flow switch
- [ ] Any room heaters Solid fuel/Gas/Oil/Electric & integrated controls
- [ ] Range/cooker with boiler
- [ ] Motorised valves
- [ ] Underfloor heating manifold

Photos of water heating

- [ ] Indoor boiler/heat pump unit & name plate
- [ ] Programmer/timer capturing make/model
- [ ] Any SEPARATE water heating timer
- [ ] Hot water storage type, showing label if present
- [ ] lagging jacket with thickness measurement
- [ ] factory fitted insulation with thickness measurement at pipe connections
- [ ] Any instantaneous water heater
- [ ] Immersion heater
- [ ] Cylinder thermostat
- [ ] Insulated primary pipework
- [ ] Bath
- [ ] Shower types
- [ ] flow restrictors and
- [ ] Waste water heat recovery with make/model

Photos of Cooling

- [ ] Cooling system(s) and nameplates

Photos of Lighting

Different bulb types

Photos of Renewables

- [ ] PV invertor & controls
- [ ] Solar powered pump

EVIDENCE CHECKLIST FOR NON-DEFAULT VALUES IN DEAP

This checklist is developed to assist you in checking you have collected the required information to support your BER. It is not exhaustive. Refer to the DEAP Manual & Survey Guide for more detailed information.

Survey Documents

- ☐ Letter of engagement
- ☐ Completed survey form
- ☐ Sketches/drawings with all relevant elevations, measurements, openings, sheltered sides etc.

Dwelling & Extension age

- ☐ A copy of legal documents
- ☐ Commencement notice from NBCO BCMS
- ☐ Homeowner knowledge in writing

For each Floor Type

- ☐ **New-build** - As-built drawings/specifications (signed off by the architect, engineer, or assigned certifier) stating the type & thickness of insulation installed or copies of Invoices with detailed description of materials (insulation type, thickness, quantity)
- ☐ **Existing** - Contractor sign-off stating the type & thickness of insulation installed & area insulated or copies of invoices with detailed description of materials (insulation type, thickness, quantity)
- ☐ Insulation certificate
- ☐ U-value calculation

For each Roof Type

- ☐ **New-build** - As-built drawings/specifications (signed off by the architect, engineer, or assigned certifier) stating the type & thickness of insulation installed or copies of Invoices with detailed description of materials (insulation type, thickness, quantity)
- ☐ **Existing** - Contractor sign-off stating the type & thickness of insulation installed & area insulated or copies of invoices with detailed description of materials (insulation type, thickness, quantity)
- ☐ Insulation certificate
- ☐ U-value calculation

For each Wall Type

- ☐ **New-build** - As-built drawings/specifications (signed off by the architect, engineer, or assigned certifier) stating the type & thickness of insulation installed or copies of Invoices with detailed description of materials (insulation type, thickness, quantity)
- ☐ **Existing** - Contractor sign-off stating the type & thickness of insulation installed & area insulated or copies of invoices with detailed description of materials (insulation type, thickness, quantity)
- ☐ Where the information above is not available, but evidence of upgrade works is measurable and observable, onsite indicators may be used as listed in Table 4.1 of DEAP Survey Guide
- ☐ Insulation certificate
- ☐ U-value calculation

For each Window Type

- ☐ Confirmation of window type/glazing specification installed (As-built drawings/ specifications or invoices)
- ☐ U-value and solar transmittance certification

For each Door Type

- ☐ Invoice or written confirmation from the supplier/manufacturer of door type installed
- ☐ U-value Certification

Thermal bridging factor (<0.15)

- ☐ Signed confirmation by the Design Certifier that the dwelling is designed in accordance with the ACDs and by the Assigned Certifier that the dwelling was constructed in accordance with the design **OR**

If a "Declaration of Intention to Opt Out of Statutory Certification" is provided, assigned confirmation by the building owner that the dwelling is designed in accordance with the ACDs and that the dwelling was constructed in accordance with the design

OR

- ☐ Drawings & schedule identifying all key junctions
- ☐ Drawings/sketches identifying all key junction lengths (where y-value is calculated)
- ☐ ACDs/details for all key junctions

And

- ☐ y-value calculation where a calculated y-value is used.

EVIDENCE CHECKLIST FOR NON-DEFAULT VALUES IN DEAP

This checklist is developed to assist you in checking you have collected the required information to support your BER. It is not exhaustive. Refer to the DEAP Manual & Survey Guide for more detailed information.

Air-tightness

- ☐ Air-pressure test result with the following details
  - ☐ Air tightness test result
  - ☐ Relevant test standard
  - ☐ Address of dwelling
  - ☐ Date of pressure test
  - ☐ Details of registered individual/organisation

Mechanical Ventilation System

- ☐ Evidence to support non-default performance data including make/model where available
- ☐ If the unit is inaccessible, then specifications, invoices or receipts stating the make/model
- ☐ Sign-off for configuration/ducting

Space Heating

- ☐ Photos/sign-off/manuals of make & model of heating appliances
- ☐ Documentation stating capability of programmer/remote sensors/apps

Non-default flow temperature for heat pump

- ☐ Designer/installer sign-off sheet
- ☐ Heating design sheet
- ☐ Radiator specifications with additional calculations if applicable

Water Heating

- ☐ Photos/sign-off/manuals of make & model of heating appliances
- ☐ Documentation stating capability of programmer/remote sensors/apps
- ☐ Confirmation of non-default shower flow rates including presence of flow restrictors including make/model (or evidence from specification / receipts, etc., where inaccessible)
- ☐ Confirmation of waste-water heat recovery performance including make/model (or evidence from specification/receipts, etc.)
- ☐ Confirmation of manufacturer's declared loss of installed storage cylinder
- ☐ Evidence to support low water usage (less than 125 l/p/d)
- ☐ Evidence to support insulated pipework
- ☐ Evidence to support solar water heating

Cooling

- ☐ Photos or confirmation of cooling appliance installed
- ☐ Evidence of non-default Seasonal Energy Efficiency Ratio (SEER) (e.g. Ecodesign data, EN14825 accredited test data)
- ☐ Designer/installer sign off sheet for heat pump.

Where applicable, evidence that the warm air heat pump does not provide cooling

- ☐ Details of how the function has been disabled or is not available in the product, with specific references to manufacturer's instruction manuals. This must be signed-off at commissioning by the same installer filling out the Designer/Installer sign-off form.

Lighting Design Known

- ☐ Drawings showing the **lighting plan** for the dwelling indicating the location of all fixed light fittings
- ☐ **Lighting schedule** stating the bulb used in each of the fixed light fittings identified in the lighting plan
- ☐ Documentation stating the **Bulb Power** (in Watts) and **Bulb Efficacy** (in Lumens/Watt) - manufacturer's documentation with a CE-marking stating relevant test standard, or test report from a test centre that is accredited to test to the relevant test standard.
- ☐ Confirmation of installation in accordance with the above documentation from by an Architect, Engineer or Assigned Certifier.

Renewables

- ☐ Photos/manuals of make & model of system installed
- ☐ Confirmation of performance data for PV panels, swept area of onsite turbines, etc.
- ☐ Sketches/drawings showing orientation/tilt/over shading for PV
- ☐ Evidence of the presence of the inverter and PV installed for each apartment in apartment development
- ☐ Sketches/drawings showing height and tallest nearby objects for onsite turbines