DEAP for NEW-FINAL and EXISTING HOMES SURVEY FORM

Property address:

Assessor name / BER reg. no.

Survey Date:

Eircode | **MPRN**

Number of storeys | **Number of bedrooms** | **Number of extensions**

Dwelling Type

- ☐ detached house
- ☐ semi detached house
- ☐ end of terrace
- ☐ mid terrace
- ☐ ground floor apartment
- ☐ mid floor apartment
- ☐ top-floor apartment
- ☐ basement apartment
- ☐ maisonette

Pick dwelling type that is closest to actual dwelling type

Age: Dwelling	Age: Extension 1	Age:Extension 2
☐ pre 1900	☐ pre 1900	☐ pre 1900
☐ 1900 - 1929	☐ 1900 - 1929	☐ 1900 - 1929
☐ 1930 - 1949	☐ 1930 - 1949	☐ 1930 - 1949
☐ 1950 - 1966	☐ 1950 - 1966	☐ 1950 - 1966
☐ 1967 - 1977	☐ 1967 - 1977	☐ 1967 - 1977
☐ 1978 - 1982	☐ 1978 - 1982	☐ 1978 - 1982
☐ 1983 - 1993	☐ 1983 - 1993	☐ 1983 - 1993
☐ 1994 - 1999	☐ 1994 - 1999	☐ 1994 - 1999
☐ 2000 - 2004	☐ 2000 - 2004	☐ 2000 - 2004
☐ 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 occupation
- ☐ 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 **Roof insulation**
- ☐ pitched - insulation in rafters thickness (mm) fibre ☐
- ☐ flat - insulation integral warmcell ☐
- ☐ room in roof EPS ☐
- ☐ no heat loss roof ☐ unknown dense ☐
- ☐ other

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 **Roof insulation**
- ☐ pitched - insulation btw joists thickness (mm) fibre ☐
- ☐ pitched - insulation in rafters warmcell ☐
- ☐ flat - insulation integral EPS ☐
- ☐ room in roof ☐ unknown dense ☐
- ☐ other

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 **Roof insulation**
- ☐ pitched - insulation btw joists thickness (mm) fibre ☐
- ☐ pitched - insulation in rafters warmcell ☐
- ☐ flat - insulation integral EPS ☐
- ☐ room in roof ☐ unknown dense ☐
- ☐ other

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 **Roof insulation**
- ☐ pitched - insulation btw joists thickness (mm) fibre ☐
- ☐ pitched - insulation in rafters warmcell ☐
- ☐ flat - insulation integral EPS ☐
- ☐ room in roof ☐ unknown dense ☐
- ☐ other

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.	Thermal mass	light	med	heavy
		F type#1	F type#2	F type#3			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

- [ ] radiator system
- [ ] storage heaters
- [ ] underfloor
- [ ] warm air
- [ ] room heaters only
- [ ] community
- [ ] fan coil radiators
- [ ] other (describe briefly):

Secondary Heating System

- [ ] no secondary system
- [ ] radiator system
- [ ] storage heaters
- [ ] underfloor
- [ ] warm air
- [ ] room heaters only
- [ ] fan coil radiators
- [ ] other (describe briefly):

Primary Heating Fuel

- [ ] mains gas
- [ ] bulk LPG
- [ ] bottled LPG
- [ ] heating oil
- [ ] electricity
- [ ] heat from CHP
- [ ] bioethanol
- [ ] other:
- [ ] housecoal
- [ ] anthracite
- [ ] smokeless
- [ ] peat briquettes
- [ ] sod peat
- [ ] wood pellets
- [ ] wood chips
- [ ] biodiesel

Secondary Heating Fuel

- [ ] no secondary system
- [ ] mains gas
- [ ] bulk LPG
- [ ] bottled LPG
- [ ] heating oil
- [ ] electricity
- [ ] heat from CHP
- [ ] bioethanol
- [ ] other:
- [ ] housecoal
- [ ] anthracite
- [ ] smokeless
- [ ] peat briquettes
- [ ] sod peat
- [ ] wood pellets
- [ ] 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
- [ ] biomass boiler
- [ ] wood chip / pellet boiler
- range cooker boiler with
  - [ ] integral oven
  - [ ] independent oven
- 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

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

Individual CHP? [ ]

[ ] % heat from CHP

CHP efficiencies

[ ] Electrical %

[ ] Thermal %

Fuel

Heat Pumps [ ] primary [ ] secondary

- [ ] air-to-air
- [ ] air-to-water
- [ ] gas-fired - ground / water
- [ ] ground-to-air
- [ ] ground-to-water
- [ ] gas-fired, air source
- [ ] water-to-air
- [ ] water-to-water

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

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.