

DEPARTMENT OF EDUCATION & SCIENCE
Planning and Building Unit

Energy Information Form TGD 006

This form shall be completed and submitted at Stage 3

1. School:

Project Title:

Type of Project¹:

School Roll Number:

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Pupil Enrolment ²:

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Total unheated floor Area²:

	m^2
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Total heated floor Area²:

	m^2
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No. of storeys²:

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Total Enclosed Volume²:

	m^3
	m^3

Floor to ceiling² Min.
Height² Max.

	m
	m

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2. Element:	(A) Area: m ²	(B) Design U Value ³ : W/m ² °C	(C) = (A)x(B) Heat Losses: W/°C
I Ground Floor:			
ii External Wall ⁴ Opaque Surface 1:			
iii External Wall ⁴ Opaque Surface 2:			
iv External Wall ⁴ Opaque Surface 3:			
v) External Doors:			
vi Roof ⁴ Opaque Surface 1:			
vii Roof ⁴ Opaque Surface 2:			
viii Roof ⁴ Opaque Surface 3:			
ix Glazing Windows:			
x Glazing Clerestory:			
xi Glazing Other Vertical:			
xii Glazing Horizontal:			
xiii Glazing Near-Horizontal ⁵ :			
(D) Total:		(E) Total:	

Whole Building U value: = $\frac{(E)}{(D)}$ = _____ W/m ² °C	Aspect Ratio ⁶ = $\frac{(D)}{(A)i}$ = _____
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Vertical Glazing:	Horizontal Glazing:
$\frac{(A)ix + x + xi}{(A)ii + iii + iv + v + ix + x + xi} \times 100 = \text{_____} \%$	$\frac{(A)xii + xiii + xi}{(A)vi + vii + viii + xii + xiii} \times 100 = \text{_____} \%$

3. Daylighting Design⁷

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Min Daylight Factor⁸:

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Max Daylight Factor⁸:

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Avg Daylight Factor⁸:

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Energy Information Form – Notes:

Please read these prior to completing the energy information form, if at Stage 4 the information contained in the completed Stage 3 form differs by greater than 10 % then this form should be resubmitted at Stage 4 with the differences highlighted.

1. Project type may be New School, Extension, Refurbishment or a combination of the latter two. Please be specific. Identify if school is a Primary or Post Primary School
2. Specify separately for new school, extension and refurbishment areas
3. The Design U Values required are the average U values for each element, taking account of any cold bridges etc
4. Surface areas: the value required is the total exposed external surface areas and not the nominal area of the various elements
5. Near horizontal may be taken as 45° or less
6. Aspect Ratio is the ratio of the total area of all enclosing elements of the building envelope (floor, walls, windows, roofs, etc.), to the ground floor area
7. Detail how the design has been developed in relation to the use of passive solar design
8. Give details of each value requested and name the room / space to which it applies.
9. Specify the room/ space and note equipment served if appropriate i.e. canopy etc. and detail flow rates in air changes per hour and m³/sec. Note P.E. Hall and changing rooms separately
10. Specify if an indirect hot water cylinder with an integral high recovery multi coil heat exchanger, a gas fired instantaneous hot water generator with minimum storage/ buffer tank, electric water heaters or a hybrid of all three solutions. Identify P.E. Halls separately if appropriate
11. If applicable, identify P.E. Halls separately if appropriate
12. Identify P.E. Halls etc. separately if appropriate
13. Give details of boiler load make up, identifying hot water, variable temperature and constant temperature heating loads
14. Give details for each boiler and design safety margins
15. Give details of the type of heating to the P.E. Hall and ancillary areas including heat losses and heat generation plant sizes
16. If applicable, if mixed fuel types, specify each and identify the systems they serve.
17. Specify type of controls for the main plant and the distribution space heating, along with room controls where specified
18. List out for various room types i.e. General classrooms, Specialist rooms, P.E. Hall, Library, Corridors, toilets etc.
19. Specify type and area used
20. Specify type of lighting control i.e. manual, presence detection only, daylight sensing only, combined presence detection and daylight sensing