LAW APPLICATION FEES BYE

REF. NO.:	914/1045			CERTIFICATE NO.: _	15 47	40
PROPOSAL:	Prefat dassion	unit	(#)			. •
LOCATION: _	St Ronano	National	School	Deons Rath	DZZ	v
APPLICANT:_	Pu. So Neill	P.P.				

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CLASS	DWELLINGS/AREA LENGTH/STRUCTURE	RATE	AMI. OF FEE REQUIRED	AMT. LODGED	BALANCE DUE	RED. FFE APPL.	AMIT. OF PED. FEE
A	Dwelling (Houses/Flats)	@ £ 55	5 ≡				
В	Domestic Ext. (Improvement/ Alts.)	@ £30					
Ċ	Building for office or other comm. purpose	@ £3.50 per M ² or £70	Exi	in By			
D	Building or other structure for purposes of agriculture	@ £1.00 per M ² in excess of 300 M ² Min. £70					
E	Petrol Filling Station	@ £200					A
E	Dev. of prop- not coming within any of the forgoing classes	£70 or £9 per .1 hect. whichever is the greater					

Column Certified:	Signed:	Grono f	Grade: D/TI	_ Date: 27/6/91.
Column 1 Endorsed:	Signed:		Grade:	_ Date:
Columns 2,3,4,5,6 &	7 Certified:	Signes: 1 Mills	~Grage: 7 .	
Columns 2,3,4,5,6 &	7 Endorsed:	Signed:	Grade:	Caces

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LICATION COVERNET (FLANKING AND DEVELOPMENT) ACTS, 1963 TO 1982

ASSESSED OF FINANCIAL CONTRIBUTION

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STATE OF ASSESSABATE

THE ASSESSMENT

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DATE:

STERE IN CONTRIBUTIONS REGISTERS

THE OWNER CONTROL ASSISTANT GRACE

LOCATION COVERNOM (FLANNING AND DEVELOPMENT) ACTS, 1983 TO 1982

eg, ref.:

CAT. REG. 4

ESTATIONS INVOLVED: WARTER/FOUL SETTING SUFFACE WARREN

LEED OF SITE:

FLOOR AREA OF FREEDIN PROPOSITION

ensured by:

PERCONDENSE ENDONE IN THE PROPERTY OF THE PARTY OF THE PROPERTY OF THE PROPERT

Differentan contributations register:

many Galvin.

Register Reference : 91A/1045

Date : 1st July 1991

DUBLIN COUNTY COLLEGE

Development : Pre-fabricated classrooms

: Deansrath Primary School, Clondalkin LOCATION

Applicant : Rev. S. O'Neill

: PERMISSION/BUILDING BYE-LAW APPROVAL App. Type

Planning Officer : M.GALVIN

Date Recd. : 24th June 1991

Attached is a copy of the application for the above development . Your report would be appreciated within the next 28 days.

Yours faithfully,

for PRINCIPAL OFFICER

No objections. See previous. report deted 22/7/91. Jacker Kelly. EHO. 16/8/91.

PLANNING DEPT. DEVELOPMENT CONTROL SECT 70.00....

> SUPER. ENVIRON. HEALTH OFFICER, 33 GARDINER PLACE, DUBLIN 1.

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PLANNING DEFI.

DEVELOPMENT CONTROL

Register Reference : 91A/1045

Date : 1st July 1991

Date ... 22.08.91

Time /0.00

Development : Pre-fabricated classrooms

LOCATION : Deansrath Primary School, Clondalkin

Applicant : Rev. S. O'Neill

App. Type : PERMISSION/BUILDING BYE-LAW APPROVAL

Planning Officer : M.GALVIN

Date Recd. : 24th June 1991

Attached is a copy of the application for the above development . Your report would be appreciated within the next 28 days.

DUBLIN CO. COUNCIL

Date received in sanitary Services -3 JUL 1991

SAN SERVICES - Beturned - Between - Betw

FOUL SEWER

Available.

DUBLIN COUNTY COUNCIL

1 3 AUG 1991

ENVIRONMENTAL HEALTH

SURFACE WATER

Available.

SENIOR ENGINEER, SANITARY SERVICES DEPARTMENT, 46/49 UPPER O'CONNELL STREET, DUBLIN 1 20/8 Min 20/7/21.



Register Reference: 91A/1045

Date : 1st July 1991

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DUBLIN COUNTY COUNCIL

Mary Galvin.

Register Reference: 91A/1045

Date : 1st July 1991

Development : Pre-fabricated classrooms

LOCATION

: Deansrath Primary School, Clondalkin

Applicant

: Rev. S. O'Neill

App. Type

: PERMISSION/BUILDING BYE-LAW APPROVAL

Planning Officer : M.GALVIN

Date Recd. : 24th June 1991

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Yours faithfully,

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No abjections. See previous report deted 22/1/91. Jacker Kelly. EHO. 16/8/91.

PLANNING DEPT.
DEVELOPMENT CONTROL SECT

Date ... 23 08 91

Time ... 9.00

John O'Veilly
SUPER.ENVIRON. HEALTH OFFICER,
33 GARDINER PLACE,
DUBLIN 1.

19/8/91

CS * 5.40

Register Reference : 91A/1045

Date : 1st July 1991

Development : Pre-fabricated classrooms

LOCATION : Deansrath Primary School, Clondalkin

PLANNING DEPT.
DEVELOPMENT CONTROL SECT

Applicant : Rev. S. O'Neill

Date 13-08-1991

: PERMISSION/BUILDING BYE-LAW APPROVAL

Planning Officer : M.GALVIN

App. Type

Time

~

Date Recd. : 24th June 1991

Attached is a copy of the application for the above development . Your report would be appreciated within the next 28 days.

Dublin Co. Council

Dublin Co. Council

Date received in Sanitary Services

-3 Jul 1991

Returned

Returned

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SURFACE WATER

Available.

SENIOR ENGINEER, SANITARY SERVICES DEPARTMENT, 46/49 UPPER O'CONNELL STREET, DUBLIN 1 20/8 Min 20/3/21 (Wal)

PLANNING	DEPT.
DEVELOPMENT CO	NTROLSECT
Date 13.08-199	
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Register Reference : 91A/1045

Date : 1st July 1991

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P/3721/71

COMHAIRLE CHONTAE ATHA CLIATH

Record of Executive Business and Manager's Orders

Register Reference : 91A/1045

Date Received : 24th June 1991

Correspondence : Very Rev. S. O'Neill, P.P.,

Name and : St. Roman's Presbytery,

Address

Deansrath,

Dublin 22.

Development : Pre-fabricated classrooms

Location

: Deansrath Primary School, Clondalkin

Applicant : Rev. S. O'Neill

App. Type : Permission

Zoning

Eman search CH ST STALT III

(MG/BB)

Report of Dublin Planning Officer dated 7th August, 1991.

This is an application for PLANNING PERMISSION to erect single classrooms (2 no.) at Deansrath Primary School, Clondalkin for Rev. S. O'Neill.

Reg. Ref. No. XA 1993 refers to a grant of permission for a school building at this 5 acre site.

Additional classroom accommodation comprising 2 no. pre fabricated units have been erected on foot of grants of permission under Reg. Ref. No. 89A/1147 and 90A/1391.

The current application provides for the erection of classroom accommodation immediately to the south of the existing building. The proposed building is similar in design to the existing prefabricated units on site.

Environmental Health officer's report states no objection.

Sanitary Services Report.

I recommend that a decision to GRANT PERMISSION be made under the Local Government (Planning and Development) Acts, 1963-1990 subject to the following (6) conditions:-

CONDITIONS / REASONS

COMHAIRLE CHONTAE ATHA CLIATH

Record of Executive Business and Manager's Orders

Reg.Ref: 91A/1045

Page No: 0002

Location: Deansrath Primary School, Clondalkin

- Of the development to be carried out in its entirety in accordance with the plans, particulars and specifications lodged with the application save as may be required by the other conditions attached hereto.

 REASON:To ensure that the development shall be in accordance with the permission and that effective control be maintained.
- 02 That before development commences, approval under the Building Bye- Laws be obtained and all conditions of that approval be observed in the development.

 REASON: In order to comply with the sanitary Services Acts, 1878-1964.
- 03 That the requirements of the Chief Fire Officer be ascertained and strictly adhered to in the development.

 REASON: In the interest of safety and the avoidance of fire hazard.
- 04 That the requirements of the Supervising Environmental Health Officer be ascertained and strictly adhered to in the development.

 REASON: In the interest of health.
- 05 That off-street car parking arrangements to be in accordance with the requirements of the Planning Authority. In this regard an additional 2 no. off-street car parking spaces to be provided on site prior to the use of the new pre-fabricated classrooms.
- D6 That the water supply and drainage arrangements, including the disposal of surface water, be in accordance with the requirements of the County Council. In this regard the applicant is requested to submit details of (1) Internal watermain network to serve the proposed development. (2)

 -Existing watermain network on site, prior to the commencement of development.
- 06 REASON: In order to comply with the Sanitary Services Acts, 1878-1964.

COMHAIRLE CHONTAE ÅTHA CLIATH

Record of Executive Business and Manager's Orders

Reg.Ref: 91A/1045

Page No: 0003

Location: Deansrath Primary School, Clondalkin

Endorsed:-....for Principal Officer

Order: A decision pursuant to Section 26(1) of the Local Government (Planning and Development) Acts, 1963-1990 to GRANT PERMISSION for the above proposal subject to the (()) conditions set out above is hereby made.

Dated: 149

ASSISTANT CITY AND COUNTY MANAGER HA

for Dublin Planning Officer

to whom the appropriate powers have been delegated by order of the Dublin City and County Manager dated 26th July, 1991.

ck Anjust

Mary G.

DUBLIN COUNTY COUNCIL

PLANNING AND BUILDING CONTROL DEPARTMAENT

senior Environmental Health Officer, 33 Gardiner Place.

Register Reference : 91A/1045

Date : 25th June 1991

DUELIN COUNTY COUNCIL

Development : Pre-fabricated classrooms

LOCATION : Deansrath Primary School, Clondalkin

Applicant : Rev. S. O'Neill

App. Type : PERMISSION/BUILDING BYE-LAW APPROVAL

Planning Officer :

Date Recd. : 24th June 1991

Attached is a copy of the application for the above development .Please ensure that your report is received within 5 weeks from 24th June 1991.

Yours faithfully,

PRINCIPAL OFFICER

I have no objection to their proposal provided that

a) mutable and sufficient more of hearting is provided.

b) deinking water points, describ from every main, are provided in each classeon.

Classeon.

Grethe Welly

Ja Denne John 0' Reilly SEHO 23/3/91.

PLANNING	DEPT.
DEVELOPMENT CO	NTROL SECT
Date 25-07-9	·
Time 930	

Dublin County Council Comhairle Chontae Atha Cliath

Planning Department



Bloc 2, Ionad Bheatha na hEireann, Block 2, Irish Life Centre, Sraid na Mainistreach lacht, Lower Abbey Street, Baile Atha Cliath 1. Dublin 1. Telephone. (01)724755 Fax. (01)724896

NOTIFICATION OF DECISION TO GRANT PERMISSION LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS 1963-1990.

Decision Order Number : P/ 3721 /91 Date of Decision : 14th August 1991

Register Reference: 91A/1045 Date Received: 24th June 1991

Applicant : Rev. S. O'Neill

Development : Pre-fabricated classrooms

Location : Deansrath Primary School, Clondalkin

Time Extension(s) up to and including :

Additional Information Requested/Received: //

In pursuance of its functions under the above mentioned Acts, the Dublin County Council, being the Planning Authority for the County Health District of Dublin, did by Order dated as above make a decision to GRANT PERMISSION in respect of the above proposal.

subject to the Conditions on the attached Numbered Pages.

NUMBER OF CONDITIONS:- ATTACHED.

Signed on behalf of the Dublin County Council..... for Principal Officer

Date: 15/8/9/

Very Rev. S. O'Neill, P.P., St. Roman's Presbytery, Deansrath, Dublin 22.

NOTES

- 1. An appeal against the decision may be made to An Bord Pleanala. The applicant may appeal within one month from the date of receipt by him of this notification. ANY OTHER PERSON may appeal within twenty one days beginning on the date of this decision.
- 2. An appeal shall be in writing and shall state the subject matter and grounds of appeal. It should be addressed to:-

An Bord Pleanala,
Blocks 6 and 7
Irish Life Centre,
Lower Abbey Street,
Dublin 1.

- 3.An appeal lodged by an applicant or his agent with An Bord Pleanala will be invalid unless accompanied by the prescribed fee.
- (a) An appeal against a decision relating to commercial development by the person by whom the application was made must be accompanied by a fee of £100 (one hundred Pounds).
- "Commercial Development" means development for the purposes of any professional, commercial or industrial undertaking, development in connection with the provision for reward of services to persons or undertakings, or development consisting of the provision of two or more dwellings, but does not include development for the purposes of agriculture.
- (b) An appeal other then an appeal mentioned at (a) above, including third party appeal must be accompanied by a fee of £50 (fifty pounds)
- (c) A party to an appeal making a request to An Bord Pleanala for an Oral Hearing of an appeal must, in addition to the prescribed fee, pay to An Bord Pleanala a fee of £50 (fifty pounds).
- (d) A person who is not a party to an appeal must pay a fee of £15 (fifteen pounds) to An Bord Pleanala when making submissions or observations to An Bord Pleanala in relation to an appeal.
- 4.If the Council makes a decision to grant permission/approval and there is no appeal to An Bord Pleanala against this decision, PERMISSION/APPROVAL will be granted by the Council as soon as may be after the expiration of the period for the taking of such an appeal. If every appeal made in accordance with the Acts has been withdrawn, the Council will grant the PERMISSION/APPROVAL after the withdrawal.
- 5. Approval of the Council under the Building Bye-Laws must be obtained and the terms of the approval must be complied with in the carrying out of the work before any development which may be permitted is commenced.

, Dublin County Council Comhairle Chontae Atha Cliath

Planning Department

Reg.Ref. 91A/1045 Decision Order No. P/ 3721 /91

Page No: 0002



Bloc 2, Ionad Bheatha na hÉireann, Block 2, Irish Life Centre, Sraid na Mainistreach Iacht, Lower Abbey Street, Baile Atha Cliath 1. Dublin 1. Telephone. (01)724755 Fax. (01)724896

CONDITIONS/REASONS

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- 06 REASON: In order to comply with the Sanitary Services Acts, 1878-1964.

Dublin County Council Comhairle Chontae Atha Cliath

Planning Department

Building Control Department, Liffey House, Tara Street, Dublin 1. Telephone:773066 Block 2, Irish Life Centre,
Sraid na Mainistreach lacht,
Lower Abbey Street,
Baile Atha Cliath 1.
Dublin 1.
Telephone. (01)724755
Fax. (01)724896

Bloc 2, lonad Bheatha na hEireann,

Register Reference: 91A/1045

Date: 25th June 1991

LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS, 1963 TO 1990 -

Dear Sir/Madam,

DEVELOPMENT : Pre-fabricated classrooms

LOCATION : Deansrath Primary School, Clondalkin

APPLICANT : Rev. S. O'Neill

APP. TYPE : PERMISSION/BUILDING BYE-LAW APPROVAL

With reference to above, I acknowledge receipt of your application received on 24th June 1991.

Yours faithfully,

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PRINCIPAL OFFICER

Very Rev. S. O'Neill, P.P., St. Ronan's Presbytery, Deansrath, Dublin 22.

Dugin County Council Comhairle Chontae Átha Cliath



Planning Application Form/ Bye - Law Application Form

	FLEASE READ INSTRUCTIONS AT BACK BEFORE COMPLETING FORM. ALL QUESTIONS MUST BE ANSWERED.
	Application for Permission. Outline Permission. Approval. Place in appropriate box. Approval should be sought only where an outline permission was previously granted. Outline permission may not be sought for the retention of structures or continuances of uses.
2	Postal address of site or building Stronois NS. Deans a They Educate 53 (If none, give description sufficient to identify).
3	Name of applicant (Principal not Agent). Very Rev S. O'Weree P.A.
	Address It Romanie theolyting Deams rath en 27 Tel. No. 5703801
: 4 .	Name and address of Bullding Section Pent 7 Education in person or firm responsible Stephens Solen. 252 Tel. No. 613111
5.	Name and address to which Vary Rov. S. & Mile Pl. notifications should be sent St Romain Prophyton, Drawspata Della 22
6.	proposed development Double Prefabricated Classroom unit
7	. Method of drainage Tan 4 10 Ting Levers - Drawi 8. Source of Water Supply Micains
9	In the case of any building or buildings to be retained on site, please state:
	(a) Present use of each floor
	or use when last used
2	(b) Proposed use of each floor School
10	Does the proposal involve demolition, partial demolition or change of use of any habitable house or part thereof?
П,T.	(a) Area of Site (5 ACHO) 20234.5
سلى	(b) Floor area of proposed development
į)	(c) Floor area of buildings proposed to be retained within site 2451-32 Sq. m.
125	i.e. freehold, lessehold, etc.) Veoltd in It Labrence Dioceson Trust.
13.	Are you now applying also for an approval under the Building Bye Laws? Yes No Place / in appropriate box.
143	Please state the extent to which the Draft Building Regulations have been taken in account in your proposal:
	Fully.
15.1	ist of documents enclosed with 4 Sets of Drawings a Maps:
-	CO DUBLIN - Planning permis of y newspaper Containing Statutory Motics sion sought for pre-labricated classrooms at Deansrath Primary School, Clondalkin, - Signed Rev. S O'Neill.
16.0	Gross floor space of proposed development (See back) 42.75
j	No of dwellings proposed (if any)
F	ee Payable E. P.L. Basis of Calculation School Bulching
<u>}</u>	f a reduced fee is tendered details of previous relevant payment should be given
<u>.</u>	ignature of Applicant (or his Agent) Lean o' Mecci Date 24/6/9/
Ā	Register Reference 114 1045 FOR OFFICE USE ONLY No Ge encl.
A	mount Received E Zef G 1-16-4
15	ecsipt No
D	ate

LOCAL GOVERNMENT (PLANNING & DEVELOPMENT) REGULATIONS 1977 to 1984.

Outline of requirements for applications for permission or Approval under the Local Government (Planning & Development) Acts 1963 to 1983. The Planning Acts and Regulations made thereunder may be purchased from the Government Publications Sales Office, Sun Alliance House, Molesworth Street, Dublin 2.

- Name and Address of applicant.
- Particulars of the interest held in the land or structure, i.e. whether freehold, leasehold, etc. 2.
- The page of a newspaper, circulating in the area in which the land or structure is situate, containing the required statutory notice. The newspaper advertisement should state after the heading Co. Dublin.
 - (a) The address of the structure or the location of the land.
 - (b) The nature and extent of the development proposed. If retention of development is involved, the notice should be worded accordingly. Any demolition of habitable accommodation should be indicated.
 - (c) The name of the applicant.
 - NB. Applications must be received within 2 weeks from date of publication of the notice.
- Four (4) sets of drawings to a stated scale must be submitted. Each set to include a layout or block plan, proposed and existing services to be shown on this drawing, location map, and drawings of relevant floor plans, elevations, sections, details of type and location of septic tank (if applicable) and such other particulars as are necessary to identify the land and to describe the works or structure to which the application relates (new work to be coloured or otherwise distinguished from any retained structures). Buildings, roads, boundaries and other features bounding the structure or other land to which the application relates shall be shown on site plans or layout plans. The location map should be of scale not less than 1: 2500 and should indicate the north point. The site of the proposed development must be outlined in red. Plans and drawings should indicate the name and address of the person by whom they were prepared. Any adjoining lands in which the applicant has an interest must be outlined in blue.
- In the case of a proposed change of use of any structure or land, requirements in addition to 1, 2, & 3 are. (a) a statement of the existing use and the proposed use, or, where appropriate, the former use and the use proposed.
 - (b) (i) Four (4) sets of the drawings to a stated scale must be submitted. Each set to consist of a plan or location map (marked or coloured in red so as to identify the structure or land to which the application relates) to a scale of not less than 1:2500 and to indicate the North point. Any adjoining lands in which the application has an interest must be outlined in blue.
 - (iii) A layout and a survey plan of each floor of any structure to which the application relates.
 - (c) Plans and drawings should indicate the name and address of the person by whom they were prepared.
- 6. Applications should be addressed to: Dublin County Council, Planning Department, Irish Life Centre, Lr. Abbey Street, Dublin 1, Tel. 724755.

SEPTIC TANK DRAINAGE: Where drainage by means of a septic tank is proposed, before a planning application is considered, the applicant may be required to arrange for a trial hole to be inspected and declared suitable for the satisfactory percolation of septic tank effluent. The trial hole to be dug seven feet deep at or about the site of the septic tank. Septic tanks are to be in accordence with LLR.S. S.R. 6:75.

INDUSTRIAL DEVELOPMENT:

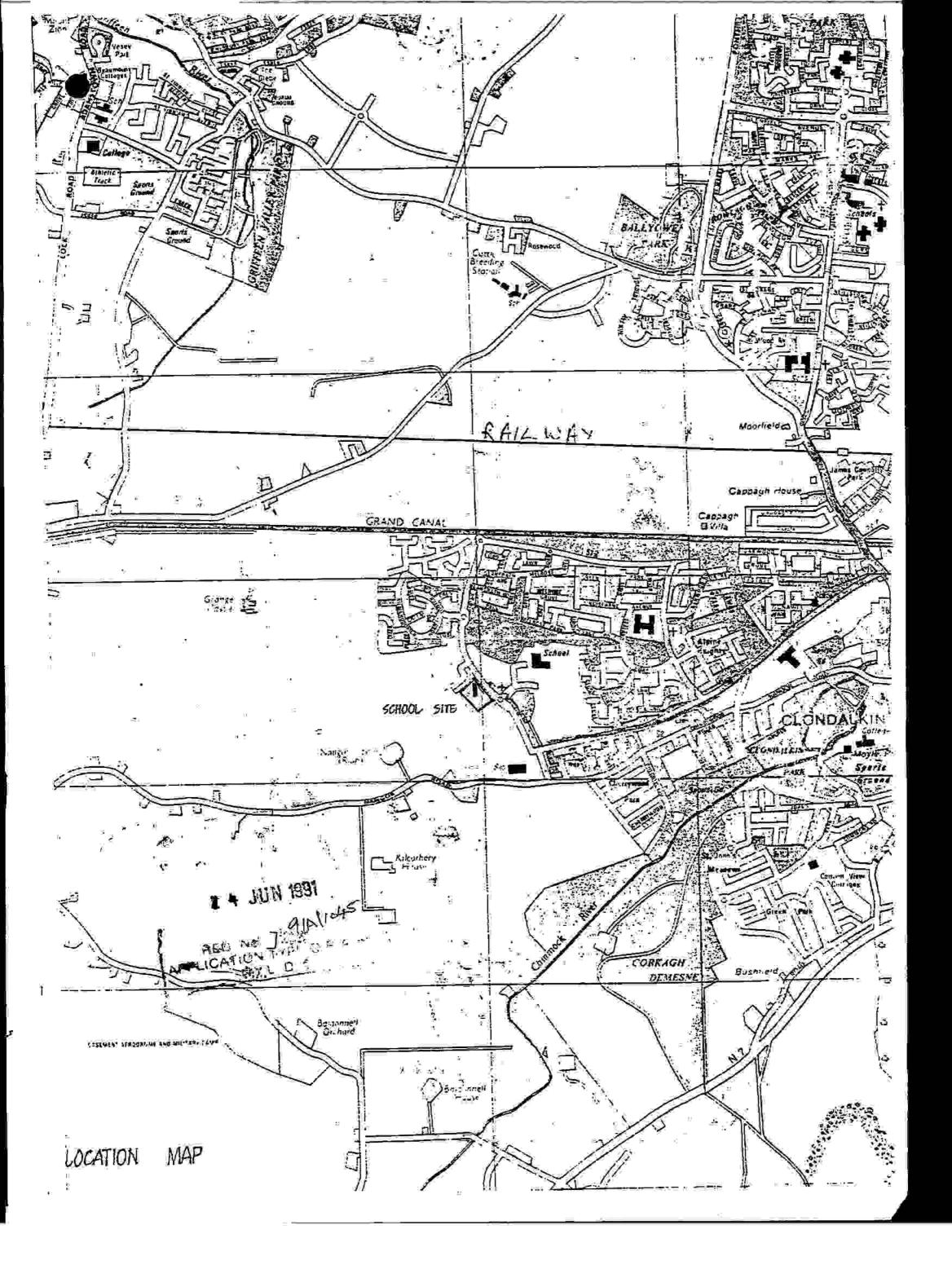
The proposed use of an industrial premises should, where possible, be stated together with the estimated number of employees, (male and female). Details of trade effluents, if any, should be submitted.

Applicants to comply in full with the requirements of the Local Government (Water Pollution) Act, 1977 in perticular the licencing provisions of Sections 4 and 16.

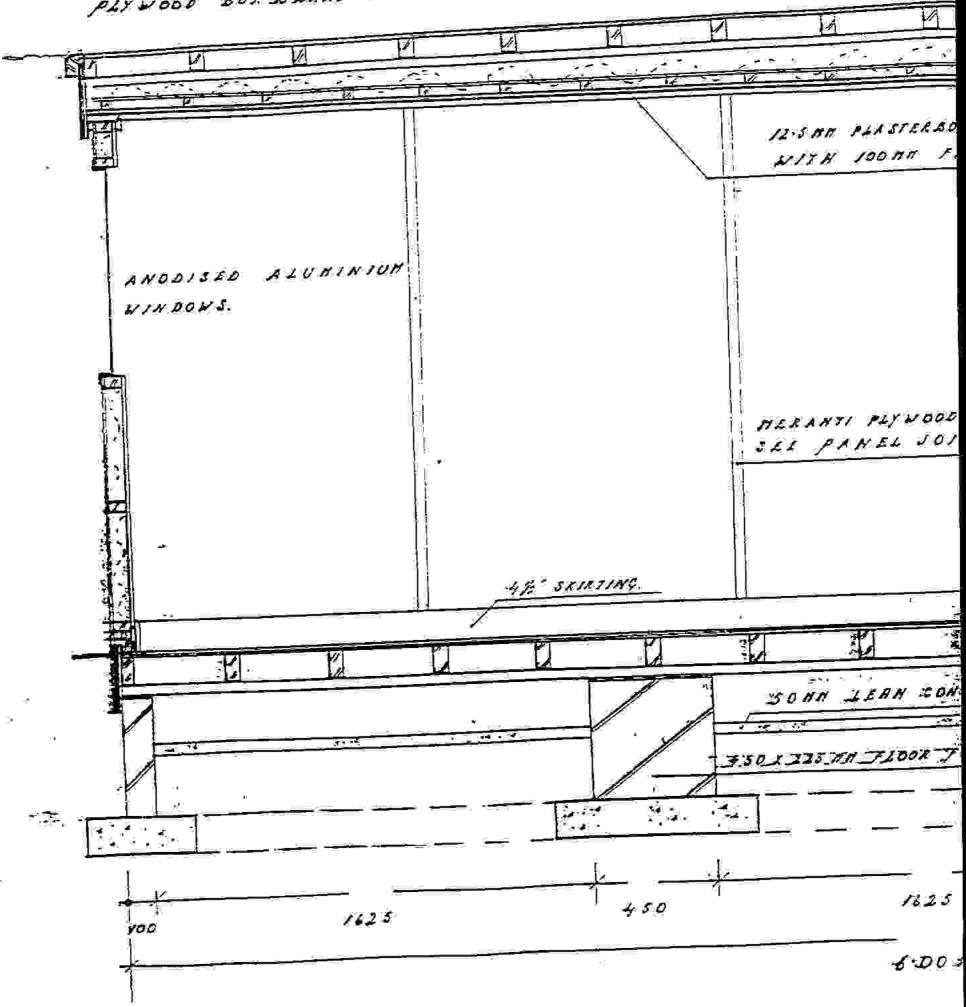
BUILDING BYE-LAW APPLICATIONS PLANNING APPLICATIONS CLASS CLASS DESCRIPTION NO. FEE DESCRIPTION £55.00 each Dwelling (House/Flat) NO. £32,00 each Provision of dwelling — House/Flat. Domestic Extension 1. Domestic extensions/other improvements. £16.00 £30.00 each (improvement/alteration) 2. Provision of agricultural buildings (See Regs.) £40.00 minimum £3,50 per m² 3. Building — Office/ C £1.75 per sq. metre Other buildings (i.e. offices, commercial, etc.) (min. £70.00) Commercial Purposes 4. (Min. £40.00) £1.00 per m2 Agricultural D Use of land (Mining, deposit or waste) £25.00 per 0.1 ha in excess of 5, Buildings/Structures (Min £250.00) 300 sq. metres £25.00 per 0.1 ha Use of land (Camping, parking, storage) (min. - £70.00) 6. (Min. £40.00) (Max. - £300.00) Provision of plant/machinery/tank or £25.00 per 0.1 ha £200.00 7. Petrol Filling Station E other structure for storage purposes, (Min. £100.00) £9.00 per 0.1 ha Development or £100.00 Petrol Filling Station. (£70.00 min.) Proposals not coming 8. £10.00 per m2 Advertising Structures. within any of the 9. (min £40.00) foregoing classes. £25.00 per 1,000m Min. Fee £30.00 Electricity transmission lines. 10. (Min. £40.00) Max. Fee £20,000 £5.00 per 0.1 ha Any other development. 11. (Min. £40.00)

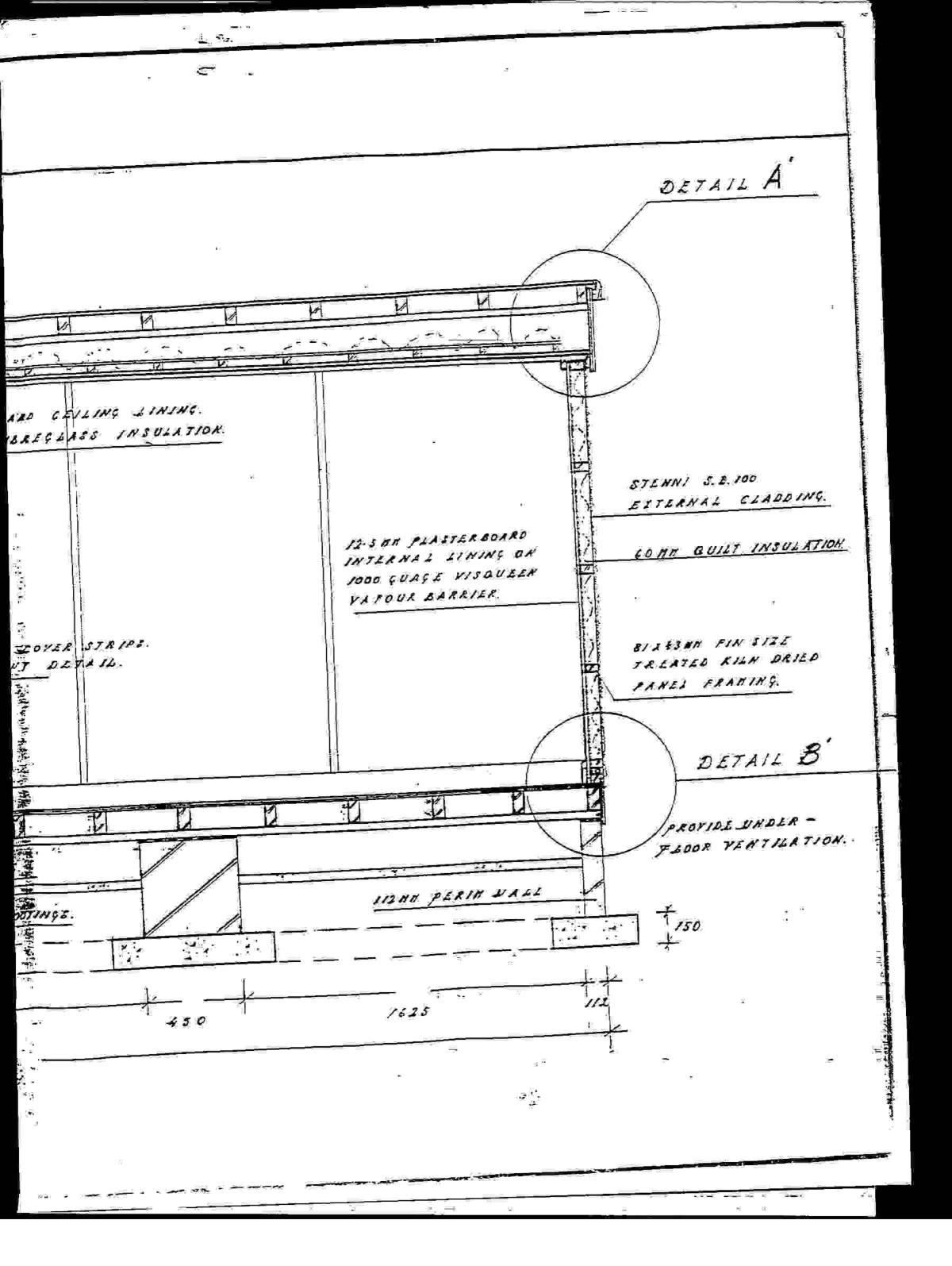
Cheques etc. should be made payable to: Dublin County Council.

Gross Floor space is to be taken as the total floor space on each floor measured from the inside of the external walls, For full details of Fees and Exemptions see Local Government (Planning and Development) (Fees) Regulations 1984.



Z LAYERS FLAT FINISHED IN MINERAL ON TO MH PLY WOOD DECKING ON BS X 43HM FINISHED SIZE JOISTS AT 400 HH CRS LAID ACROSS PLY WOOD BOX BEAMS AT 1206 HH CRS.

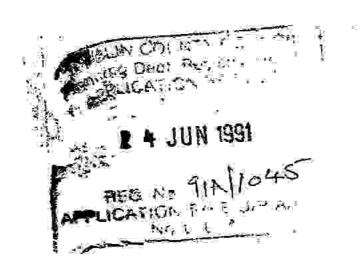




DESIGN CALCULATIONS

FOR A PREFABRICATED CLASSROOMS.

PROJECT: DEANSRATH NS. CLONDALKIN CO. DUBLIN



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Continuation sheet

Confidential Report

R6/23908K 28/08.87

Sheet no. 18.

SUMMARY:

The substance of this report may be summarised as follows:

- S.1. The structural strength and stability of the individual components and the completed unit, subject to satisfactory workmanship and adherence to the dimensions stated in this report, are considered satisfactory with reference to the indicated levels of applied loading. The necessity for adequate anchorage of the unit particularly in exposed locations, is referred to in Paragraph A.5.4.
- S.2. The thermal characteristics of the external elements are given in Section B of the report. These are seen to be within the limits required by the Department of Education, subject to the provision of floor insulation (See B.5).
- S.3. Fire performance characteristics are dealt with in Section C of the report. These are seen to satisfy the requirements specified by the Department of Education (See Paragraph C.3 relating to roofing felt types).
- S.4. Durability and weathertightness are discussed in Section D of the report. Subject to adequate standards of workmanship, these are considered to be appropriate for the intended application. (See Paragraph D.1.3, D.4.2 relating to built-up felt roofing and under-floor ventilation).

Confidenti Heport

Report rel. 28/08,87

Sheet no.

STRUCTURAL STRENGTH AND STABILITY:

For the purposes of this assessment, the design loadings used were as follows:

Roof superimposed load : 0.67 kN/m²
Floor superimposed load : 2.87 kN/m²

Wind Loads .: as per CP 3 : Chapter V, Part 2, 1972.

Timber members are designed generally in accordance with B.S. CP 112 : Part 2 : 1971, "The Structural Use of Timber".

.1. Roof Members:

- A.1.1. The roof structure consists of panels fabricated from 9.5 mm plywood on 70 x 44 joists spaced at 400 crs, spanning between plywood box beams at 1200 crs. spacing.
- A.1.2. The plywood box beams vary in depth from 250 mm at one end to 350 mm at the other, spanning 6.15 metres from wall to wall. They consist of 70 x 44 flanges (top and bottom) with 9.5 mm plywood webs glued to the flanges.
- A.1.3. The ceiling structure consists of 50 x 50 timber framing at 300 crs underdrawn with 12.5 mm gypsum plasterboard. The framing spans between the plybox beams.

R6/23908K Report rel. 28/08.87

Sheel no. 5

Floor Members:

- A.2.1. The floor construction consists of 12.7 mm plywood floor decking on 81 x 43 floor joists spaced at 400 crs spanning between main floor beams at 1200 crs.
- A.2.2. The main floor beams, which are 120 x 70 in cross section, are supported on masonry piers at approx. 2 metre centres.
- . Structural calculations in respect of roof and floor members have been submitted showing that the critical stresses under design loadings are within CP 112 limits for the grade of material specified. These are summarised in Table 1 below.
- 1. The flexural rigidity of these components has been checked and is found to be adequate to ensure that calculated deflections under design loading are within CP 112 limits.

Report ret $\frac{R6/23908K}{28/08.87}$

Sheet no. 6.

TABLE 1.

·		2	
Component	Calculated Stress (N/mm ²)	Allowable Stress (N/mm ²)	Specified Material
Roof Sheeting	O. 85	9.89	Douglas Fir Plywood
Roof Joists	1.48	4.8	S-P-F GS
Ceiling Joists	0.30	4.8	S-P-F GS
Plybox Beam:		3	• = •
(a) Flange Stress	6.2	6.9	Group S2. SS
(b) Panel Shear Stress	O.95	1.31	Douglas Fir Plywood
(c) Rolling Shear Stress.	0.15	0.35	
Floor Sheeting	1.91	8.68	Douglas Fir Plywood
Floor Joists	3.93	4 8	S-P-F GS
Floor Beams	5.76	6.9	Group S2 SS
		1	

R6/23908K 28/08.87

Sheer no. 7.

External Wall Members:

A.4.1. The external wall posts are adequately proportioned with respect to axial loading for the roof beams, the maximum compressive stress being 0.55 N/mm². The behaviour of the wall panels under lateral loading is dealt with in Section A.5. below.

Lateral Stability under Wind, Action:

- A.5.1. A design wind speed of 50 metres/second, exposure category 2 (B) (Open country, scattered windbreaks) was used as a basis for investigation under CP 3, Chapter V, Part 2: 1972.
- A.5.2. The resistance of the panels to wind loading normal to the face of the panel is sufficient to restrict bending stresses and deflections to CP 112 limits.
- A.5.3. Wind forces are transmitted via the wall panels spanning vertically to floor and roof level. At roof level, the diaphragm action of the roof construction serves to transfer the wind forces to the walls parallel to the wind direction under consideration, where they are resisted by the external wall panels acting as shear walls. The maximum intensity of racking load under the design wind loading selected is found to be approximately 1.1 kN per metre run of imperforate wall panel. An estimated racking resistance at working load of 2.08 kN per metre run for timber frame panels clad with "Stenni" facing board fixed with

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Sheet no. 8.

30 mm nails at 150 crs on perimeter and 300 crs internally has been established.

A.5.4. Adequate holding down of the shear panels is required to mobilise their racking resistance and to maintain structural stability. Positive mechanical anchorage should be provided between the superstructure and the masonry supports at the corners of the building. This requirement is of particular importance in more exposed locations.

6. Fixings:

- A.6.1. The roof sandwich panels are supported on 50 x 22 timber bearers fixed to the sides of the box beams. The panels are nailed to the supporting box beams at 200 mm crs through the decking.
- A.6.2. The roof beams are fixed to the supporting posts using proprietary pressed metal plates. The roof structure is also connected to the external wall panels by nailing through the plywood fascia to both elements.
- A.6.3. The edge studs of adjoining wall panels are bolted together using 9 mm diameter bolts at the top and bottom of the panels.

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Sheet no.

- A.6.4. The sole plate of the wall panels is nailed to the floor structure using 100 mm nails at 400 crs.
- A.6.5. The "Stenni" wall cladding is fixed to the supporting timber frame by gluing and nailing at 150 crs on perimeter and 300 crs internally.

These fixings are considered adequate to resist design wind forces on the structure and to transfer forces between the various structural components.

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Sheet no. 10.

ENVIRONMENTAL PERFORMANCE:

The thermal characteristics of the various elements which constitute the unit have been calculated in accordance with the methods set out in Section A3 of the CIBS Guide Book A; 1980, and are as follows:

I. Roof Construction:

- 2 layers roofing felt
- 9.5 mm plywood decking
- 70 x 44 timber joists at 400 crs.
- 12.5 mm gypsum plasterboard ceiling under
- 50 x 50 timber framing at 300 crs, overlaid with 100 mm glass fibre thermal insulation.

The U-value of this form of construction is 0.34 W/m^2 oc

.2. External Wall Construction:

- 4 mm "Stenni" proprietary cladding
- 81 x 43 timber framing
- 60 mm glass fibre thermal insulation
- 1000 gauge PVC vapour checking layer
- 12.5 mm gypsum plasterboard internal lining.

The U-value of this form of construction, allowing for bridging effects at the framing is 0.54 W/m^2 °C.

B.3. Floor Construction:

- 12.7 mm plywood floor sheeting on
- 81 x 43 floor joists at 400 crs.



Report ref. R6/23908K 28/08.87

Sheet no. 11.

The U-value of this construction, which is a function of the floor plan dimensions, is estimated to be $0.76~\text{W/m}^2~^{\text{O}}\text{C}$ for the dimensions shown. (6.0 m x 7.2 m).

The addition of a 60 mm layer of glass fibre insulation to the floor construction would reduce the U-value to 0.35 W/m2 Oc.

Whole-Building U-value:

The whole-building U-value of the unit described on the drawings submitted is found to be 0.67 W/m^2 OC.

Comparison to Department of Education Design Standards:

The design standards specified by the Dept. of Education are as follows:

Roof: not exceeding 0.40 W/m2 oc.

External Walls: not exceeding 0.55 W/m2 OC.

Ground Floor: not exceeding 0.40 W/m² °C.

Whole-building: not exceeding 0.70 W/m2 oc.

The calculated U-values are seen to satisfy these requirements, subject to the provision of insulation in the floor construction.

Condensation:

Vapour checking layers in the form of 1000 gauge polythene sheeting are incorporated into external wall and roof components. Provided that these are undamaged and are properly lapped and sealed at joints, the risk of interstitial condensation within these elements will be obviated.

Report ref. 28/08.87

Sheet no. 12.

Given adequate heating and ventilation practice in use, the level of thermal insulation provided in the unit components renders the incidence of internal surface condensation unlikely.

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Sheet no. 13.

FIRE PERFORMANCE:

The design standards of the Dept. of Education have been referred to in assessing the required degree of fire performance of the unit components.

Surface Spread of Flame Characteristics:

C.1.1. Internal linings of walls, partitions and ceilings are required to have a Class 1 surface spread of flame rating, when tested in accordance with B.S. 476, Part 7: 1971. The material used (gypsum plasterboard) satisfies this requirement.

2. Fire Resistance of external walls:

C.2.1. The external walls are required to have half-hour fire resistance when tested in accordance with B.S. 476: Part 8. By reference to published data on fire resistance tests, it is possible to assess the likely performance of the wall panels under consideration. The panels are considered to be capable of achieving the specified performance.

Roof Construction:

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C.3.1. The roof covering is required to have a designation of AB with reference to external exposure to fire when tested to B.S. 476: Part 3: 1958.

Reference to published data shows that the roof construction used can achieve this designation provided that the upper layer of felt is of type 2E

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Sheet no.

14.

(Mineral surfaced bitumen asbestos felt) and the underlayer is of type 2B or 2C (fine sand surfaced or self-finished bitumen asbestos felt) as designated in I.S. 36; 1972.

Confidential Report

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Sheet no.

15.

DURABILITY AND WEATHERTIGHTNESS:

A subjective assessment of the unit components with respect to durability may be made on the basis of existing data concerning the weather-resisting characteristics of the materials used in its exposed elements.

External Walls and Roofs:

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10.4

- D.1.1. The exposed face of the external wall panels is clad in "Stenni" natural stone aggregate faced glass fibre reinforced polyester resin panels. These panels are the subject of BBA Certificate No. 84/1465. On the basis of accelerated ageing tests and site evidence of similar panels up to 8 yrs old, a life of at least 20 yrs can be expected from the material.
- D.1.2. The fascias and plinths are formed using 12.5 mm
 WBP plywood finished in a water-resistant textured
 external finish. The durability of this material
 is considered satisfactory, given reasonable standards
 of maintenance.
- D.1.3. The external roof finish is a built-up felt, using materials complying with I.S. 36: 1972. The durability of the roof finish is greatly dependent on high standards of workmanship in construction. Responsibility for the satisfactory performance of the roof in respect of durability and weathertightness must therefore remain with the system fabricator.

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Sheet no. 16.

. Windows and Doors:

D.2.1. These components are of anodised aluminium construction Responsibility for their resistance to moisture ingressmust remain with the manufacturer. Their performance in this respect will depend greatly on good standards of building practice and workmanship where these components adjoin the main structure.

Weathertightness:

D.3.1. Joints between wall panels are made weathertight by the application of a silicone sealant to the panel joint, backed with a plywood lining strip. Subject to adequate standards of workmanship, this detail is considered satisfactory.

Damp Proofing:

- D.4.1. Bitumen felt or similar damp proof course materials are provided beneath the timber floor beams on top of all concrete block piers.
- D.4.2. Perforation of the underfloor perimeter walls is necessary to provide adequate under-floor ventilation A minimum of 3000 mm² open area per metre run of external walling is recommended in BRE Digest No. 18.

Continuation sheet

Confidential Report

Sheet no.

17.

Timber Preservation: D.5.

Timber members used in the fabrication of the external D.5.1. wall panels and the ground floor structure are subjected to a double-vacuum organic solvent preservative treatment.

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DESIGN CALCULATIONS

FOR : PREFABRICATED CLASSROOMS .

PROJECT: DRIMNAGH CASTLE NATIONAL SCHOOL DUBLIN

J.F.O'Halloran.BE, MSc, (CEng), MICE. Chartered Civil Engineer,

Pinewood, Shanakiel, Cork, Ireland. Tel. 021/42307.

3rd.March 1987.

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Report on Demountable Prefabricated Classroom, No L D 5

Tony O'Driscoll, Portmannock, Co. Dublin.

General.

1... The proposals are generally in accordance with the Department of Education designstandards as shown on the attached photocopy.

2...The calculations, in Appendix 1, deal in some detail with the structural design and the thermal qualities of the building.

Structural Design.

3... The building is designed for a wind exposure of Class 3, to gusts of 117km/hr. Minor modifications to the holding down details would render it safe in exposure Class 2: re-design, special attention to detail and close supervision of construction is essential for any building of exposure Class 1.

4...The roof panels, beams and fixings are adequate for the specified loading, $670 \mathrm{kN/m^2}$, alone and in combination with the effects of the wind.

5...The floor panels, floor beams and the base works are adequate for the specified loading, 2873KN/m², alone and in combination with the wind.

6...Attention is drawn to the need to use stress graded timbers, in some cases, Select Structural of Group 2 Softwoods, in others, General Structural of Group 2. calculations give stresses in the members, which should be used as a guide in the selection of other grades of timber in response to market price variations.

Thermal Qualities.

7...The U-values of the construction are in accordance with the latest proposals of the Department of Education, a copy of which is attached for reference. Double glazing in plastic frames is recommended on the grounds of savings in cleaning, maintenance and energy costs.

Other Standards

8...The following items can be stated to be in general accordance with the specifications. Every building must be considered in its own site.

9... The fire standards are satisfied by the proposals.

10...The ventilation and day-lighting requirements can be satisfied, with due consideration at the planning stage, without upsetting the thermal qualities of the building.

11...The building generally is to design and details, well tested by time, and in the opinion of the writer, satisfactory for its stated purpose.

12...This report, unabridged and complete with calculations, may be submitted to any Government Department or Service in support of a claim to certification or compliance with the attached specifications. It does not refer to any individual building. It does not constitute a guarantee of any Kind.

J.F.O'Halloran.

I. F. OH alloran.

Tony O'Driscoll Prefabricated 1798 Class room 2872	2	D 872_
Design Criteria.	oad i	ngs.
O"Specification for Demountable 1 Prefabricated Classrooms" Dept of Education. May 1986.		0-67 KN/m² 2.873 "
@ For Structural Use of Timber	Wind:	<u>km/hr.</u> 178.6
3 For Calculation Procedures & General Stanolards.		
"Timber Designers Manual"		en e e
Ozelton & Baird		
Crosby Loekwood 1976		
4) For Wind Loading.		
CP3: Cp V: Part Z. 1972.		
	AU.	9

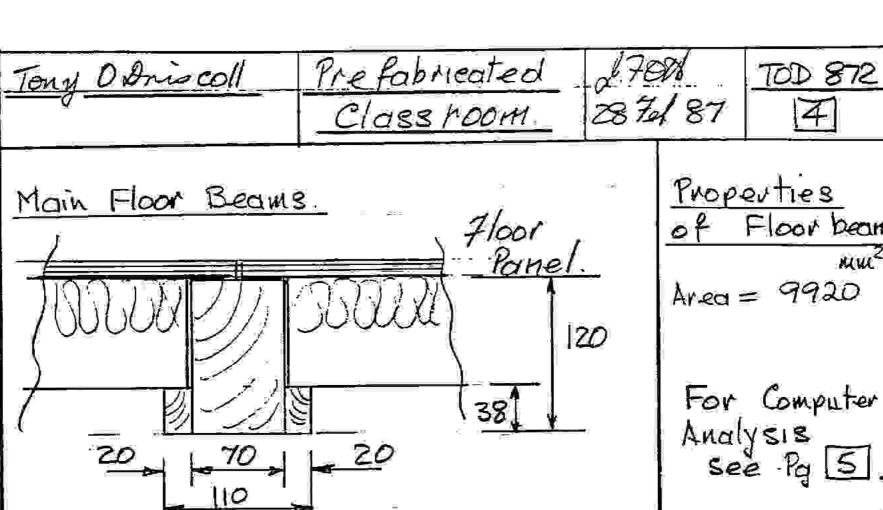
060 NO

Tony O'Driscoll Prefabricated 1700 Classroom 2870	8 TOD 872 187 2
Roof Panels. 38"DFPly. 9.5 mm.	Loading Ku/m² L.L = -670
23/4" x 13/4" finished. @ 16" cvs. (70 x 44.5) mm. @ 407 mm evs.	Zof Joist
$\frac{Plywood}{\frac{7elt}{SelfWt}} = \frac{0.045}{0.055} \times 10^{10} \times 10^{10$	$= 36.34 \times 10^{3}$ = 36.34 \times 10^{3} mm ³
$\frac{.770}{\text{Max Moment}} = \frac{.02^{2}}{10} = \frac{.770 \times (.407)^{2}}{10}$	~ * **
$= \cdot 0128 \text{ kN m/m}.$	
flexural Stress. = 128×103 N/mm². = 0.85N/mm².	7 2
Joist $\frac{kN/M}{8elf\ Wt} = (.07 \times .0448)G = .0187$ Ply a 7elt $= (.407 \times .10) = .0407$ $\frac{D.L}{LoL}$ $(.670 \times .407) = .2727$	DL= 0.15 L.L = 0.67. Total = .82 Flexival Stress.
$\frac{.3321}{\text{mm}}$ $\frac{.3321}{\text{mm}} = (48'' - 3.5') = 44.5'' = 1130$ $\frac{.3321 \times 1.13^{2}}{8} = 53\times10^{3} \text{ N mm}.$ $\frac{.3321 \times 1.13^{2}}{8} = 53\times10^{3} \text{ N mm}.$ $\frac{.3321 \times 1.13}{8} = 0.188 \text{ kN}.$	$= \frac{53}{36.3} = 1.46$ $= \frac{0K}{36.3} = 0K.$ Shear Stress $\frac{5(188)}{70X44} = 0K.$

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Tony O'Driscoll Prefabricated of & Classroom 28	6687 3
Floor Panels. 12" Ply on Joists (31/4" x13/4") @ 16"ers. 12.5 mm Ply on Joists (82.5 x 44.5) @ 407	204 40131
$P_{\text{Hwood}} = .045 \text{ kN/m}^2$. $Self = .075 \text{ S}$ $L_0L = 2.873$ 2.88	= 50.48 X103
$\frac{2.993}{2.993} \frac{3.00}{3.00}$ $\frac{3 \times (.407)^{2}}{10} = 49.7 \text{ Nm/m}$	Plywood Flexural N/Mil Stress = 1091
$ZofPh = 6(1000)(12.5^2) = 26.04 \times 10^3 \text{ mm}^3/\text{m}$ $flexural Stress = \frac{49.7}{26.04} \text{ N/mm}^2 = 1.91$	Allowable = 8.68 Ref 3 OK OK Panel Selfunt KN/m²
$\frac{\text{Joist.}}{\text{Self.}} (.045 \times .083 \times 6) = .022.7 \cdot .071 \text{ DL}$ $\frac{\text{Syst.}}{\text{Physfin.}} (.12 \times .407) = .049.5$ $\frac{\text{Col.}}{\text{Col.}} (.2.88 \times .407) = 1.172.$ $\frac{1.243}{\text{KN/M.}}$	Joist.
Spain. 1130 mm. 2 Nm. Nm. 198.4 Mx Momout = 1.243 x 1.13 = 198.4	flex Steso. 3.93 N/min
flex Stress = $\frac{198.4}{50.48}$ = $\frac{3.93 \text{N/min}}{50.48}$ = $\frac{198.4}{50.48}$ =	1 = .287
$\frac{82.5 \times 44.5}{\text{beaving Shess}} = \frac{703}{44.5 \times 20} = 0.80$	Spruce Pine Fir GS.

<u>्रिक्ष्य क्रिक्ट केल्क्ट केल्क</u> प



KN/m. Loading = (9920 × 106)6 .06 $=(1.2 \times 0.175) = .21$ = $(1.2 \times 2.873) = 3.45$ 3.72

4 Spans = 20 pt.Span.

Ref to Page [5] for Computer Analysis.

Cheek Bearing on Internal Blkwk Piers.

Loading = 2(shear) = 5.66 kN.

Bearing Ana = (10 x 2 10) = 23.1 x10

0.245 N/mm2 Bearing Stress =

Floor beam mm²

For Computer

10 = 3.72 KN/M L= 1.524 m.

Design Regules \$2/ss Timber3.

ord BIKWK. CP 111 -28 N/mm Ø.K

Prefabricated Class 100m. JF ON 28 FJ 87 TOD 872

Apple Ilc == Prodos=-/StrSoft4.

1run

ELTBMET

This programme calculates the elastic properties of a T-Beam, and then the stresses in the beam when used as a simply supported beam, subjected to uniform loading and a central point load....all in metric units.

Enter B, the breadth & T2, the thickness of the flange 2110,38 Enter D1, the depth & T1, the thickness of the Stem, 782.70 Flange = 110x38: Stem = 82x70 Area = 9920D = 120 Y1 = 66.28Y2 = 53.72Ix = 12426516.4Z1 = 187478.77222 = 231329.835As = 5656,98206 ALL the above are in mm-Units Enter w.L 23.72,1.524 Enter central point load **?**0 Enter E in kN/mm²

Moment = 1.08 kN m

Shear = 2.83 KN

Section 2014 Section 2017

f1 = 5.76 N/mm*2

 $f2 = 4.67 \, \text{N/mm}^2$

 $q(max) = .5 N/mm^2$

DELTA = 2.63 mm

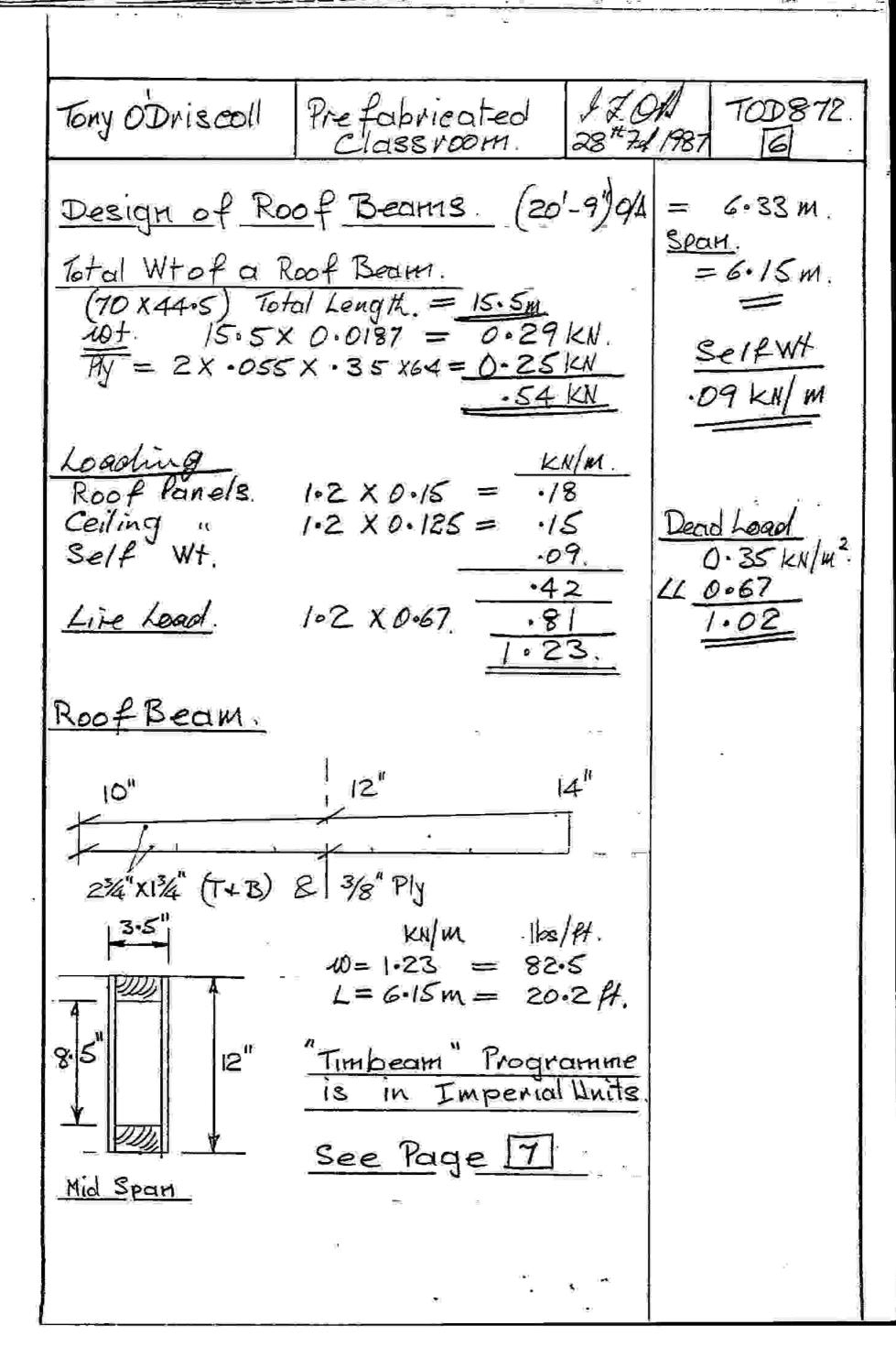
These Stresses require

Timber Group S2/SS Table 11A. Cp 112.

For another load and span type 'y'

?n

3



Tony O'Driscoll Prefabricated 17.04 TOD872 Classroom 2877187. 17

Apple IIc -- Disc No.3 -- ProDev.

Irun timbeam
The ply is transformed to CLS by a factor of .75; the B to be enterred is the actual width
ENTER B,b,D.d
?3.5,2.74,12,8.5
B1 =3.31

Enter New values of D & d at the Support ?10,6.5 Enter w,L ?82.5,20.2

Maximum Moment = 4207.91 lbs.ft.

Maximum Shear = 833.25 lbs. = 3.80 KN

I = 336.41; Z = 56.07;

AS = 6.02; AI = 37.71;

Bending Stress = 900.58 psi. = 6.2 N/mm^2 \$2/\$\$ OK.

Panel Shear = 138.4 psi. = $0.95 \le 1.31$ (Table 8.8. Ref3)

Rolling Shear = 22.09 psi. = $0.15 \le 1/2(.35)$ Do & CPII2.

Deflection = .57 ins. = 14.5 m/m.

Note: 1 Top & Bottom numers to be \$2/55.

- @ Plywood DF Ext Grade 9.5 mm.
- 3 Depth Varies 10" to 14"

Tony O'Driscoll Prefabricated 250M. Classroom. 28 74.8	. TOD 872 87 8
Wind Loading Basic Wind Speed Normal Use "Small Towns" (Table 3.) For Cladding. A) Sz = 0.64, 32. For Elements. B) Sz = 0.60 30.	Ref CP3.CpI/2
Cladding. Local Upliff at Edges Roof & Corners. = 29. = 1.256kN/m² Dead Load = 015 Nett = 1.01 kN/m².	(MG 3) _{(Mg}
Span of Cladding = 1.2m. => .66 km/m. Noul Size 44 mm x 2.64 m in T3 Timber Withdrawal/Naul = 30 x 2.28 N = 68 N. 10 No/44 mm Nauls Per Metre= .68 km/m 5 No/44 mm Nauls	Table 23 Cp 112. along Edges INTERNAL.
Ip ift Per Beam. Table 8 KN/m² 9=.552 Wixd D1 (-82) D2 (-49) 9=.552 Int Pressure = -29. KN/m² 1.02-DL = (0.55-0.35) = 0.20	Beam D.L. Page 6 .35km/ Nailing 2" Flat Heads @ 4"crs Edge
0.69 - DL = (.33 - 0.35) => .00. Nett Uplift Por Beam = 1.2 (0.2) = .24kN/M .24kN/M .24kN/M Mormal Noiling .576kN .192kN. Sufficient.	@ 8" CNS Intern 1/2" Ply Fascia Wilk Normal Nailin Will Anchor the Roof.

- Park

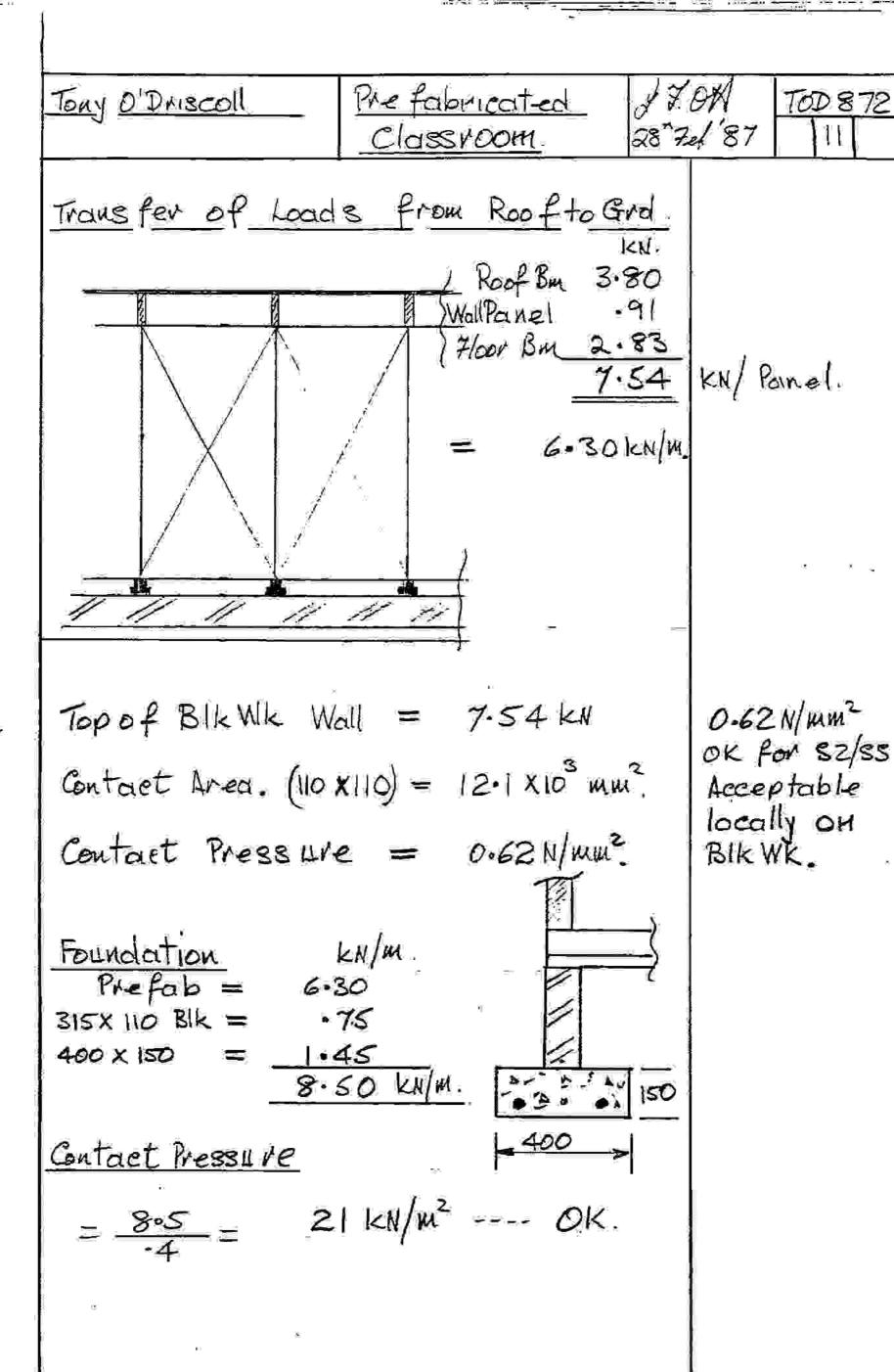
	w/ 1 3 = = 1
Tony O'Driscoll Prefabricated 2700 2872	1 100872 1 1987 9
Wind Loading (Cont)	Panel. 8'x4' = 3 m².
10t of External Wall Panel.	- S ML ,
Stude (2%" x 1%") [4/8", 3/4"] = 44ft	
Studs. $13.4 \text{ m} \times .0187 = 0.25 \text{ kN}$ Stenni $3.0 \times .11 = .33 \text{ kN}$	Total Wot of Wall Panel
12 mm Slab. 3.0×11 = 0.91×1 .	= .91 KN = 200 lbs
Max Uplift from Beam = 0.58 KN	Note:- There is ONE
No Need for Special Anchorages.	Wall Panel at 0.91 KN to Resist
Horizontal Wind Loading /Panel	tto Uplift, 0.58kN
Ext Presoure = 0.79. Int Press =39	
Total Pressure = 9 = .552 KN/m². Per Panel = 1.2 x.552 = 0.66 KN/M.	
0.66 kN/m R= 0.93 kN/m. 2.4 m = 0.48 KN/m. 2.4 m = 0.48 Ray Panel.	
3 2.4m = 0.48 Par Panel.	
	Page 2 3 Z=36.34×10 must
Value of $1/70 \times 44.5 \text{ mm}$ Stud. (GS.) $52/GS$ $p = 4.8 \text{ N/mm}^2$. factor $K_{12} = 1.5$ $M = 1.5(4.8)(36.34 \times 10^3) \text{ N mm.} = .261 \text{ kN m.}$	Z=36.34x10 mut
4 Uprights/Panel => 1.04 kNm>>.48 2 Uprights/Panel => .52 kNm>.48	OK
2 Uprights/Panel = 5.52 KMm>.48	OK

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Tony O'Driscoll Prefabricated & 78 Classroom 387	W TOD872 1987 10
Wind Loading Racking forces. Total Wind Force Factor = 0.9.	Table 10/CP3/2
Total force. $L = 24ft = 7.3 \text{ m.}$ H = 9.25ft = 2.8 m.	
Total Force = 0.9(.552)(7.3x2.8) KN. = 10.2 KN	
Top Reaction = 50 kN.	⊒{
Rocking Force/End. = 2.55 km	e e "
Value of 1 No Solid Panel	
Value of Stenni Allowable Shear Stress Area = 4 x 1200 = 4.8 x 103 mm ² Value/Panel = 4.8 KN > 2.55	= 1 N/mm²
Note:- The Wind Analysis assumes Classification 3 of Table 3. CP3 CpV:2.	"Standard Class/com" Class 3.
"Country with many Wind breaks: Small towns: outskirts of Large Cities	vi.
Extra Attention to fixing the Building to the Dwarf Walls would suffice for Exposure Class (2)	"Some Special Details" Class.2.
Bolting down to a Conerete Base slab a a Review of other details would be required for the most severe Exposure Class (1).	"Bolting Down & Design Review Class. 1.

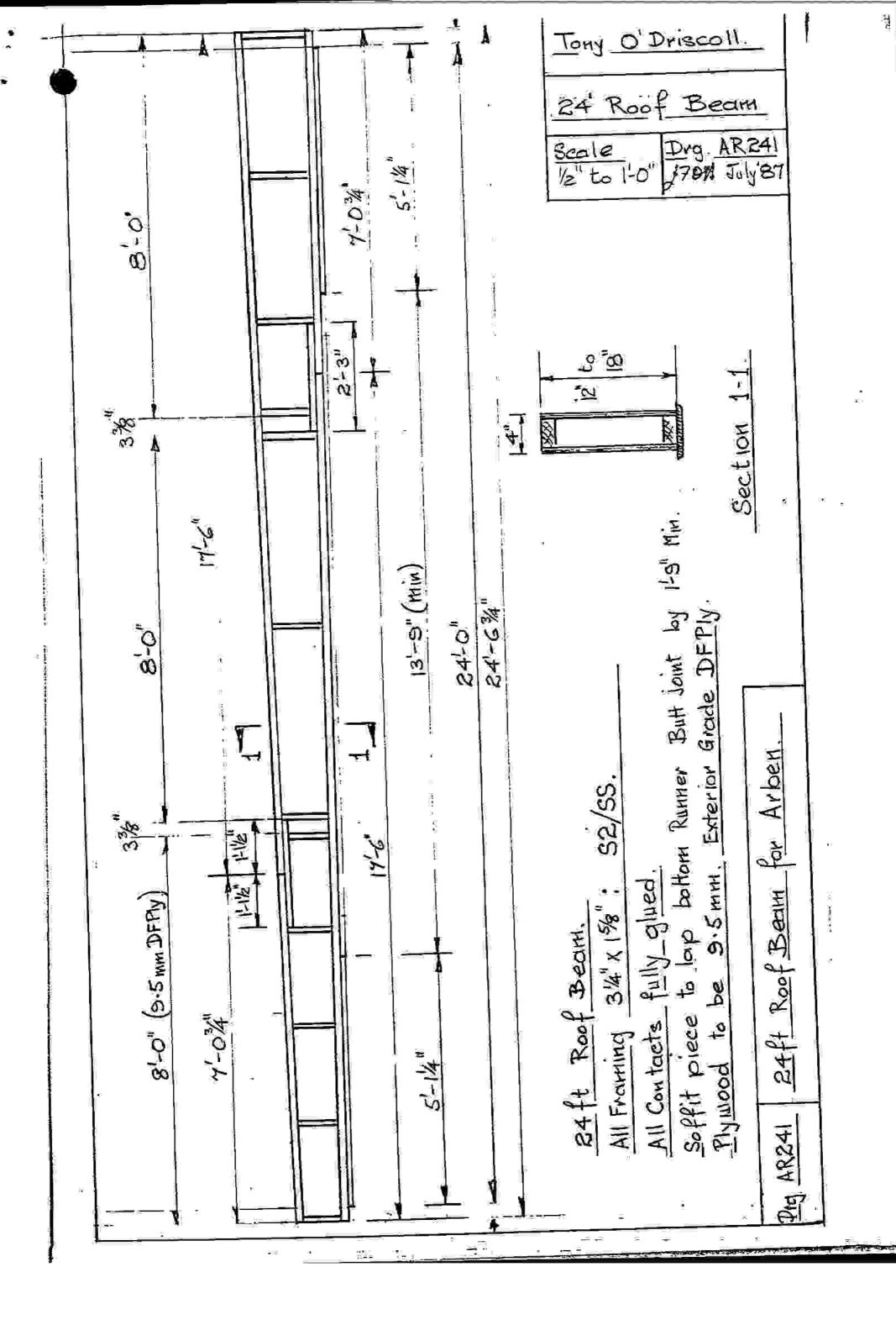
E 11



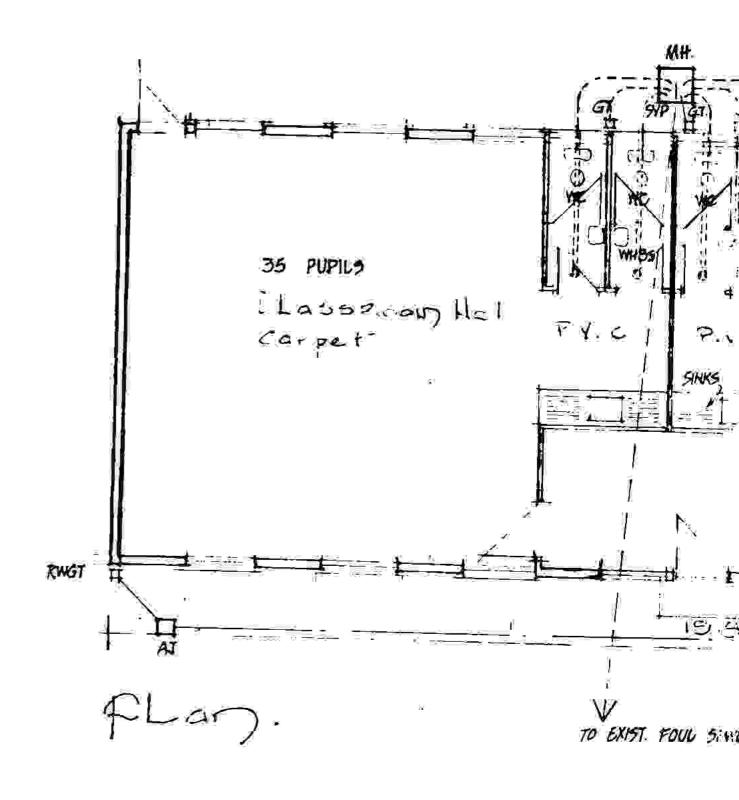
-		1 5 N/	
		70%. 74.87	TOD 872
	Thermal Quality of Construction Roof K R. W/m°C M²°C/W. Ext Sur face .044. Zlayer Felt+Ply .120 Air Space (Vented) .114. 100 mm Glass Quilt (.036) 2.780	9)	U= 0.307
	12.5 mm gypsum O78. THT Surface 3.259	=	iz n
'n	R=3.26 U = 0.307 O.K. Wall Stenni 4mm. Air Space (Vented) N. R. 161 .025 110		
	60 mm fibre Glass .036 1.670 Visqueen/Slab Interface .088 12.7 mm Slab .078 Ext Resistance .070	,	*.
,	Int $\frac{.123}{2.164}$ R= 2.164 U= 0.462. O.K.		
ν α ν φ	Floor R 125 mm Ply .120. 100 fibre Glass 2.780. Air Space .100 Ent150 3.150 11=.317.		.1
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