

Handwritten text in a rectangular box, possibly a library stamp or classification mark, including the number 1155A.

107A ۷ ۰

SCHOOL HOSTELS

D.
31B16



RECOMMENDATIONS OF THE
VOCATIONAL SCHOOL BUILDINGS
COMMITTEE AND THE SCHOOL
BUILDINGS COMMITTEE

CSIR Research Report no 206

13

71



SCHOOL HOSTELS

RECOMMENDATIONS OF
 THE VOCATIONAL SCHOOL BUILDINGS COMMITTEE
 AND THE SCHOOL BUILDINGS COMMITTEE



↓
 D.
 3 E 26

South African
 Council for Scientific and Industrial Research
 Pretoria 1964

CSIR RESEARCH REPORT NO 206
(Report no. 13 of the School Buildings Committees)
UDC 728.45
Published 1964 by the South African
Council for Scientific and Industrial Research
P.O. Box 395, Pretoria



PREFACE

In South Africa, especially in farming districts where children must travel great distances to school, it is understandable that first class school hostels have become a tradition. One of the advantages gained by the provision of hostels is that, because children are concentrated in large groups, more specialized equipment can be supplied and better teachers attracted. The needs of the children and young adults in these hostels are not affected by the fact that they attend schools falling under the control of different departments. For this reason the investigation into their needs in both State and Provincial schools have been recorded in one report; where there are different departmental requirements, however, for staffing or for control of stores, these have been noted.

This is a report on the research into school buildings that is being sponsored by the Department of Education, Arts and Science and the Transvaal Provincial Administration. The work was undertaken by the National Building Research Institute of the Council for Scientific and Industrial Research, Pretoria. The research work fell under two steering committees, one appointed by the Secretary of the Department of Education, Arts and Science and the other appointed by the Transvaal Education Department.

Vocational School Buildings Committee

Dr D. M. Calderwood (Chairman)	—	National Building Research Institute
Miss L. Coupar	—	Department of Education, Arts and Science
Mr J. A. Erasmus	—	Department of Education, Arts and Science
Mr C. J. Jacobs	—	Department of Education, Arts and Science
Mr R. D. Bingham	—	Department of Education, Arts and Science
Mr W. Davie	—	Department of Public Works
Mr K. P. J. Napier	—	National Building Research Institute

School Buildings Committee

Dr T. le Roux (Chairman)	—	Inspector of Education, Transvaal
Mr W. L. Baylis	—	Transvaal Provincial Works Department
Dr D. M. Calderwood	—	National Building Research Institute
Mr P. J. G. du Toit	—	Inspector of Education, Transvaal
Mr J. A. N. Groenewald	—	Transvaal Provincial Works Department
Mr E. V. Hulse	—	Transvaal Provincial Works Department
Mr K. P. J. Napier	—	National Building Research Institute
Mr B. Rutgers	—	Transvaal Provincial Works Department
Mr B. P. Weideman	—	Transvaal Provincial Works Department (resigned from Committee in 1962)

Both Committees were greatly assisted by Miss C. A. Urry who was responsible for the research work and for writing the final report.

CONTENTS

INTRODUCTION	Page 1
SECTION I—DORMITORIES	1
1. Sleeping accommodation	2
a. Furniture	2
b. Lighting	2
c. Ventilation	2
d. Orientation and thermal control	4
e. Finishes	4
f. Economy of structure	4
g. Dormitory areas	6
h. Cubicles	12
2. Toilet facilities	12
Ironing room	13
3. Box room	13
SECTION II—COMMUNAL AREAS	13
1. Dining-room	13
2. Study room	14
3. Common-room	15
4. Toilets	17
5. Lighting	17
6. Ventilation and heating	17
SECTION III—SERVICE AREAS	18
1. Kitchens	18
a. Circulation	18
b. Equipment	18
c. Servery	20
d. Cooking area	22
e. Preparation area	22
f. Size of kitchens	23
2. Kitchen stores	23
a. Vegetable store	23
b. Dry goods store	24
c. Cold store	24
d. Other storage	24
3. Staff amenities	24
4. Supervisor's office	24
5. Goods entrance and delivery area	24
6. Ventilation	25
7. Finishes	25
8. Cleaning materials store	25
9. Linen room	25
10. Linen and blanket store	25
SECTION IV—ADMINISTRATION AREAS	26
1. Hostel office	26
2. Visitors' room	26
SECTION V—STAFF ACCOMMODATION	26
1. Superintendent	26
2. Married staff quarters	26
3. Single staff accommodation	26
4. Matron	26
5. Assistant matrons	26
6. Sick-rooms	26
SECTION VI—SERVANTS' ACCOMMODATION, STORES, GARAGES AND LAUNDRY	27
1. Servants' accommodation	27
2. Stores	27
3. Bulk coal and wood stores	27
4. Garages	27
5. Laundry	27

CONCLUSION	Page 27
MASTER SCHEDULE	28
EXAMPLES	28

LIST OF TABLES

Table

1. Comparative costs of four different hostel dormitory units, each designed for 16 beds	6
2. Comparison of the effect on circulation areas required for different dormitory arrangements	7
3. Comparison of areas required per pupil in (1) study-bedrooms and (2) dormitories	7
4. The effect of size and type of dining-table on the area per pupil	14
5. The effect of the arrangement of furniture on the study area required by 120 pupils	15
6. Schedule of accommodation for Hostel A	31
7. Schedule of accommodation for Hostel B	34
8. Schedule of accommodation for Hostel C	37

LIST OF FIGURES

Figure

1. Diagram of cupboard	3
2. Diagram of lamp spacing	3
3. Reading-lamp	3
4. Layouts of dormitory units for 16 beds	5
5. Suggested dormitory layouts	8, 9, 10
6. Study-bedrooms for girls	11
7. Study-bedrooms for boys	11
8. Cubicle arrangements for dormitories	12
9. Area required for dining-tables	14
10. Diagrams of study rooms	15
11. Layouts for study rooms	16
12. Diagrammatic layout of kitchen areas	18
13. Diagrammatic layout of servery	21
14. Diagram showing the desirable relationship between servery, dining-room and wash-up areas	21
15. Relationships of areas within the kitchen	22
16. Ground floor plan of Hostel A	29
17. First floor plan of Hostel A	30
18. Plan of Hostel B	32
19. Plan of Hostel C	35
20. First floor plan of Hostel C	36



HBRC
 Since 1954
 Housing & Building National Research Institute