



**HOMES THAT ADAPT
TO LIFE'S CHANGES**

**DESIGN OPTIONS (COSTS)
FOR BARRIER-FREE AND
ADAPTABLE HOUSING**

PE 0185-1



DESIGN OPTIONS (COSTS) FOR BARRIER-FREE AND ADAPTABLE HOUSING

PE 0185-1



Canada Mortgage and Housing Corporation
Société canadienne d'hypothèques et de logement

Canadian Housing Information Centre
Centre canadien d'information sur
l'habitation

Canada Mortgage and Housing Corporation offers a wide range of housing-related information. For details, contact your local CMHC office or call 1-800-668-2642.

Cette publication est aussi disponible en français sous le titre :
*Solutions applicables à la conception de logements accessibles
et adaptables (Coûts)*

PF 0185-1

Canada

DISCLAIMER

Canada Mortgage and Housing Corporation (CMHC), the Federal Government's housing agency, is responsible for administering the National Housing Act.

This legislation is designed to aid in the improvement of housing and living conditions in Canada. As a result, CMHC has interests in all aspects of housing and urban growth and development.

Under Part IX of this Act, the Government of Canada provides funds to CMHC to conduct research into the social, economic and technical aspects of housing and related fields, and to undertake the publishing and distribution of the results of this research. CMHC therefore has a statutory responsibility to make widely available, information which may be useful in the improvement of housing and living conditions.

This publication is one of the many items of information published by CMHC with the assistance of federal funds. The views expressed are those of the author(s) and do not necessarily represent the official views of Canada Mortgage and Housing Corporation.

ISBN 0-660-16621-6
Cat. No. NH15-146/1-1996E

©1996, Canada Mortgage and Housing Corporation

Printed in Canada
Produced by CMHC

SOLUTIONS FOR THE DESIGN OF BARRIER-FREE AND ADAPTABLE HOUSING

PART 2: STUDY OF ESTIMATED COSTS

Design guide for developers of residential projects

presented to:

**Tom Parker, Project Manager
Canada Mortgage and Housing Corporation
700, Montreal Road
Ottawa (Ontario) K1A 0P7**

by:

**Roy LGL
2271, boulevard Fernand Lafontaine
Longueuil (Québec) J4G 2R7**

and:

**Soicété Logique Inc.
Pierre Richard, Architect
Patricia L. Falta
3250, boulevard St-Joseph Est
Montréal (Québec) H1Y 3G2**

October 1995

TABLE OF CONTENTS

1.0 Méthodology	i	
2.0 Study of estimated costs	v	
1. Access to multi-family buildings	1.1	
2. Vestibule and entrance hall	2.1	
3. Public corridor	3.1	
4. Elevator	4.1	
5. Public stairs	5.1	
6. Fire safety measures	6.1	
7. Garbage chute	7.1	
8. Community room	8.1	
9. Semi-public toilet	9.1	
10. Laundry room	10.1	
11. Common storage	11.1	
12. Exterior pathways	12.1	
13. Parking area for multi-family buildings	13.1	
14. Access to small residential buildings	14.1	
15. Parking area for small residential buildings	15.1	
16. Entry to dwelling unit	16.1	
17. Circulation within dwelling unit	17.1	
18. Kitchen	18.1	
19. Bathroom	19.1	
20. Bedroom	20.1	
21. Living room	21.1	
22. Balcony	22.1	
23. Storage space	23.1	
24. Laundry space	24.1	

APPENDIX 1: Hourly labour cost

1.0 METHODOLOGY

This study presents an estimation of costs generated by the barrier-free and adaptable features described in Part 1 of this document. The objective is to indicate the possible range of these costs, so as to enable a developer to make a summary evaluation of the impact that barrier-free elements have on the construction cost of his project. It will allow the developer to make judicious choices, if necessary, enabling him to respect the proposed project budget.

In order to facilitate referencing the design elements described in Part 1, the costs are presented under the theme headings and the numbering system corresponds to the features described. The two parts can thus be easily consulted in parallel.

Definitions used in the tables

The cost of the elements of each theme are presented in a table of eight columns.

COLUMN 1: Characteristics

Number and name of the element corresponding to the description in Part 1.

COLUMN 2: Cost - Reference

The cost of traditional work which have a relation to barrier-free requirements described in the Characteristics column. The Reference Costs have been indicated only in situations where they are useful to the analyses of a barrier-free and adaptable dwelling. When the reference cost is zero, it is assumed that the item is not generally provided in traditional construction.

COLUMN 3: Cost - Barrier-free

Cost of the work for barrier-free or adaptable elements as described in the Characteristics column.

COLUMN 4: Additional cost

The supplementary cost attributed to the barrier-free or adaptable requirements. It represents the Barrier-free Cost minus the References Cost.

COLUMNS 5 TO 8: Details of Additional cost

5 - Materials

The cost of materials which form part of the total **Additional cost** of column 4. The costs used for the materials are similar to those found in the Montréal region in the last quarter of 1994. They include no tax or profit, neither the contractor's nor the subcontractor's. The applicable discounts, other than those related to volume purchases, have been taken into consideration.

6 - Labour

Cost of the labour necessary to install the Materials of column 5. These costs have been established relative to the productivity found in the Montréal region for this type of work and at the hourly rates prevalent in the last quarter of 1994 (see Appendix 1).

7 - Administration and profits

An amount representing 15% of the sum of the costs of columns 5 and 6 has been allotted in order to take into account general expenses and profits of the subcontractors. This amount does not include the general contractor's administration and profit.

8 - Taxes

An amount representing the cost of taxes GST (7%) and QST (6.5%), in force in Québec, applied to the sum of the columns **Materials, Labour and Administration and profits.** They are the taxes charged by the subcontractor to the general contractor.

Sub-contractor, contractor and client

The costs presented in this study are an estimate of those charged by the sub-contractor to the general contractor. The same estimate may apply for a service rendered by an installation contractor to a client.

A client who deals directly with a general contractor, who then hires the services of a sub-contractor, should adjust the costs presented in order to account for taxes and for the contractor's administration and profit.

References

The construction costs indicated in this study have been established on the basis of the following models:

- a multi-family residential building of 40 dwelling units of four floors for the large building;
- 40 single-family houses, built in the same sector, at the same time.

For the analysis of each of the elements, the choice of materials is based on a standard quality that is generally found in residential construction.

All the costs used in this estimated study are valid for new buildings and standard construction methods.

They cannot be used for modifications to a basic contract nor for renovations to an existing building. In these particular situations, a more specific cost analysis would be required.

Equivalence factors for major Canadian cities

Based on the Price index for new housing provided by Statistics Canada, the table below determines the equivalence factors which have to be applied to the study's various elements in order to account for the variations in construction costs in the major cities of Canada.

Since the study was based on the cost in force in Montréal in the last quarter of 1994, the basic equivalence factor of 1 is for Montréal.

St-John's New- foundland	Halifax Nova- Scotia	Moncton New- Brunswick	Québec City Québec	Montréal Québec	Ottawa Ontario	Toronto Ontario	Winnipeg Manitoba	Régina Saskatchewan	Edmonton Alberta	Vancouver British- Colombia
Price Index for new housing										
128,6	114,2	115,5	127,8	131,8	118,3	120,8	114,9	128,8	140,2	131,7
Equivalence factor										
0,98	0,87	0,88	0,97	1	0,90	0,91	0,87	0,98	1,06	1

Index based on Statistics Canada (second quarter 1994); 1986 = 100

Economy of scale

During the preparation of his tender, the sub-contractor or contractor evaluates the amount for his **Administration and profit** on the basis of several factors, including the scale, scope and complexity of the project, the anticipated conditions of the work site, the location of the project, the length of time and period of the year when the work will be executed, etc. Each of these factors are important and are reevaluated for each project. The also factors in the construction market, any particularities of the city or sector in which he will be working, on the special condition of seasonal temperatures, etc.

Generally, all work which involves a large number of units allows for economies of scale due to the volume and the increased productivity which can result from it, resulting in a more or less large reduction of the total cost of the project. The amount for expenses and profit attributed to the sub-contractor or the installation contractor (15%) should thus diminish with increased volume.

A developer who builds a project that is of a smaller or greater scale than the referent should adjust the estimated costs accordingly.

1. ACCESS TO MULTI-FAMILY BUILDINGS

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. Continuous pathway, without steps and maximum slope of 1:20			0.00	0.00	0.00	0.00	0.00
2. Maximum cross slope of 1:50			0.00	0.00	0.00	0.00	0.00
3. Minimum width of pathway 1100 mm ⁽¹⁾			0.00	0.00	0.00	0.00	0.00
4. Landing with 1500 mm diameter turning space beyond door swing			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
5. Slip-resistant, stable, firm and uniform surface			0.00	0.00	0.00	0.00	0.00
6. 100 lux (unit cost) pathway lighting	0.00	470.46	470.46	245.00	114.00	53.85	57.61
7. 200 lux entry lighting			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
8. Street number of bulding in contrasting colour, illuminated, and sufficiently large digits to be visible (200 mm minimum high)			0.00	0.00	0.00	0.00	0.00
Note: Unit cost							
(1) Required by the NBC 1990							

1. ACCESS TO MULTI-FAMILY BUILDINGS

ANOTHER EXAMPLE: ACCESS RAMP

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
Cost per linear meter for concrete ramp	0.00	384.13	384.13	148.83	144.29	43.97	47.04
9. Maximum slope 1:12 ⁽ⁱ⁾ (cost per linear meter)	included		0.00	0.00	0.00	0.00	0.00
10. Ramp width 900 mm	included		0.00	0.00	0.00	0.00	0.00
11. Maximum ramp section 9 meters ⁽ⁱ⁾ between landings	included		0.00	0.00	0.00	0.00	0.00
12. Intermediate landing 1200 mm long where no change in direction ⁽ⁱ⁾	0.00	567.67	567.67	227.12	206.06	64.98	69.52
Intermediate landing 1500 mm long where a change in direction	0.00	887.01	887.01	354.88	321.98	101.53	108.62
13. Upper and lower landings 1500 mm x 1500 mm minimum ⁽ⁱ⁾ (unit cost)	0.00	197.39	197.39	88.13	62.50	22.59	24.17
FUNCTIONAL SAFETY							
14. Slip-resistant surface for ramp and landings	included		0.00	0.00	0.00	0.00	0.00
15. 100 mm high edge on each side of ramp	included		0.00	0.00	0.00	0.00	0.00
16. Handrails installed on each side of ramp (cost per linear meter)	0.00	76.20	76.20	43.60	14.55	8.72	9.33
17. Continuous handrails around landing ⁽ⁱ⁾ (cost per linear meter)	0.00	76.20	76.20	43.60	14.55	8.72	9.33
18. Ends of handrails curved downward or toward the wall (unit cost)	0.00	11.79	11.79	9.00	0.00	1.35	1.44
19. General 200 lux lighting			0.00	0.00	0.00	0.00	0.00
Note: Unit cost							
(i) Required by the NBC 1990							

1. ACCESS TO MULTI-FAMILY BUILDINGS

ANOTHER EXAMPLE: ACCESS RAMP

Note: Unit cost

⁽¹⁾ Required by the NBC 1990

1. ACCESS TO MULTI-FAMILY BUILDINGS

ANOTHER EXAMPLE: WITH PASSENGER LOADING AREA

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
23. Loading area 3000 x 6000 mm long along the vehicle approach			0.00	0.00	0.00	0.00	0.00
24. Vertical clearance 2750 mm minimum			0.00	0.00	0.00	0.00	0.00
25. No change in level between the landing in front of the entry door and the loading area			0.00	0.00	0.00	0.00	0.00
26. Where there is a change in level, provide for a sidewalk curb cut (unit cost)	0.00	71.49	71.49	24.56	30.00	8.18	8.76
EASE OF USE							
27. Where loading area is located near the building, install a canopy above (unit cost)	0.00	1939.51	1939.51	872.00	608.00	222.00	237.51
Note: Unit cost							

2. VESTIBULE AND ENTRANCE HALL IN MULTI-FAMILY BUILDINGS

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. Door 865 mm minimum wide with a glazed section, door swing does not encroach on turning space			0.00	0.00	0.00	0.00	0.00
2. Bevelled 13 mm maximum threshold ⁽¹⁾			0.00	0.00	0.00	0.00	0.00
3. 1500 mm diameter turning space in vestibule, in front of the intercom			0.00	0.00	0.00	0.00	0.00
4. 1500 mm diameter turning space in front of the letter boxes			0.00	0.00	0.00	0.00	0.00
5. 600 mm clearance along wall at handle edge of door, on pull side			0.00	0.00	0.00	0.00	0.00
6. 300 mm clearance along wall at handle edge of door, on push side			0.00	0.00	0.00	0.00	0.00
7. 300 mm clearance between equipment and adjacent wall			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
8. Slip-resistant floor	81.12	121.35	40.23	30.70	0.00	4.60	4.93
9. General 100 lux lighting			0.00	0.00	0.00	0.00	0.00
10. 300 lux directed lighting over the intercom and letter boxes	0.00	100.58	100.58	33.75	43.00	11.51	12.32
⁽¹⁾ Required by the NBC 1990							

Total page 2.2

2. VESTIBULE AND ENTRANCE HALL IN MULTI-FAMILY BUILDINGS

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
EASE OF USE							
11. Door to mail room:							
a) Lever handle vs round handle	22.67	30.08	7.40	5.65	0.00	0.85	0.91
12. Entry doors and vestibule doors:							
a) D-shaped stationary handle			0.00	0.00	0.00	0.00	0.00
b) Automatic door-opening device (2 doors)	0.00	4953.62	4953.62	3080.00	700.00	567.00	606.62
13. Intercom:							
a) Call buttons between 1050 and 1400 mm from floor level			0.00	0.00	0.00	0.00	0.00
b) Indications in contrasting colour, minimum size of letters			0.00	0.00	0.00	0.00	0.00
16 mm high, projecting 0.75 mm minimum from surface							
c) Intercom connected to telephone in each dwelling unit			0.00	0.00	0.00	0.00	0.00
14. Floor mat, where provided:							
a) Same level as adjacent floor			0.00	0.00	0.00	0.00	0.00
b) Metal laths spaced 13 mm maximum, perpendicular to circulation			0.00	0.00	0.00	0.00	0.00
15. Letter boxes:							
a) Positioned between 900 mm and 1400 mm from floor level			0.00	0.00	0.00	0.00	0.00
b) Two boxes with a minimum height of 300 mm and a minimum depth of 250 mm	107.46	261.44	153.98	117.50	0.00	17.63	18.86
c) Indications in 16 mm minimum high arabic numerals, projecting 0.75 mm minimum from surface			0.00	0.00	0.00	0.00	0.00
Note: Cost for basic model							
	Total		5255.82	3267.60	743.00	601.59	643.63

2. VESTIBULE AND ENTRANCE HALL IN MULTI-FAMILY BUILDINGS

ANOTHER EXAMPLE: VESTIBULE WITHOUT ENTRANCE HALL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. Door minimum 865 mm wide with a glazed section, door swing does not encroach on turning space			0.00	0.00	0.00	0.00	0.00
2. Bevelled, 13 mm maximum threshold ⁽¹⁾			0.00	0.00	0.00	0.00	0.00
3. 1500 mm diameter turning space in vestibule in front of intercom			0.00	0.00	0.00	0.00	0.00
4. 1500 mm diameter turning space in front of letter boxes			0.00	0.00	0.00	0.00	0.00
5. 600 mm clearance along wall at handle edge of door, on pull side			0.00	0.00	0.00	0.00	0.00
6. 300 mm clearance along wall at handle edge of door, on push side			0.00	0.00	0.00	0.00	0.00
7. 300 mm clearance between equipment and adjacent wall			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
8. Slip-resistant floor	81.12	121.35	40.23	30.70	0.00	4.60	4.93
9. General 100 lux lighting			0.00	0.00	0.00	0.00	0.00
10. 200 lux directed lighting on intercom and letter boxes	0.00	50.30	50.30	16.88	21.50	5.76	6.16
⁽¹⁾ Required by the NBC 1990							

Total page 2.5

2. VESTIBULE AND ENTRANCE HALL IN MULTI-FAMILY BUILDINGS

ANOTHER EXAMPLE: VESTIBULE WITHOUT ENTRANCE HALL

Total page 2.5

2. VESTIBULE AND ENTRANCE HALL IN MULTI-FAMILY BUILDINGS

ANOTHER EXAMPLE: VESTIBULE WITHOUT ENTRANCE HALL

2. VESTIBULE AND ENTRANCE HALL IN MULTI-FAMILY BUILDINGS

ANOTHER EXAMPLE: ENTRANCE HALL WITHOUT VESTIBULE

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. Door 865 mm minimum wide with a glazed section, door swing does not encroach on turning space			0.00	0.00	0.00	0.00	0.00
2. Bevelled, 13 mm maximum threshold ⁽¹⁾			0.00	0.00	0.00	0.00	0.00
3. 1500 mm diameter turning space in the lobby, in front of the intercom			0.00	0.00	0.00	0.00	0.00
4. 1500 mm diameter turning space in front of letter boxes			0.00	0.00	0.00	0.00	0.00
5. 600 mm clearance along wall at handle edge of door, on pull side			0.00	0.00	0.00	0.00	0.00
6. 300 mm clearance along wall at handle edge of door, on push side			0.00	0.00	0.00	0.00	0.00
7. 300 mm clearance between equipment and adjacent wall			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
8. Slip-resistant floor	81.12	121.35	40.23	30.70	0.00	4.60	4.93
9. General 100 lux lighting			0.00	0.00	0.00	0.00	0.00
10. 200 lux directed lighting on intercom and letter boxes	0.00	100.58	100.58	33.75	43.00	11.51	12.32
⁽¹⁾ Required by the NBC 1990							

Total page 2.8

2. VESTIBULE AND ENTRANCE HALL IN MULTI-FAMILY BUILDINGS

ANOTHER EXAMPLE: ENTRANCE HALL WITHOUT VESTIBULE

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
EASE OF USE							
12. Entry doors:							
a) Stationary D-shaped handle			0.00	0.00	0.00	0.00	0.00
b) Automatic door-opening device (1 door)	0.00	2476.81	2476.81	1540.00	350.00	283.50	303.31
13. Intercom and/or door bell located outside the building:							
a) Call buttons between 1050 and 1400 mm from floor level			0.00	0.00	0.00	0.00	0.00
b) Indications in contrasting colour, with characters 16 mm minimum high, projecting 0.75 mm minimum from the surface			0.00	0.00	0.00	0.00	0.00
c) Intercom connected to telephone in each housing unit			0.00	0.00	0.00	0.00	0.00
14. Floor mat, where provided:							
a) Same level as adjacent floor			0.00	0.00	0.00	0.00	0.00
b) Metal laths spaced 13 mm maximum, perpendicular to traffic			0.00	0.00	0.00	0.00	0.00
15. Letter boxes: may be located outside or inside (interior landing for public stairs)							
a) Positioned between 900 mm and 1400 mm from floor level			0.00	0.00	0.00	0.00	0.00
b) Two letter boxes with minimum height of 300 mm and minimum depth of 250 mm	107.46	261.44	153.98	117.50	0.00	17.63	18.86
c) Identified by arabic numerals, 16 mm minimum high, projecting 0.75 mm minimum from the surface			0.00	0.00	0.00	0.00	0.00

Total page 2.8

2. VESTIBULE AND ENTRANCE HALL IN MULTI-FAMILY BUILDINGS

ANOTHER EXAMPLE: ENTRANCE HALL WITHOUT VESTIBULE

2. VESTIBULE AND ENTRANCE HALL IN MULTI-FAMILY BUILDINGS

ANOTHER EXAMPLE: HALL WITH BENCH

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. Door 865 mm minimum wide with a glazed section; door swing does not encroach on turning space			0.00	0.00	0.00	0.00	0.00
2. Bevelled, 13 mm maximum threshold ⁽¹⁾			0.00	0.00	0.00	0.00	0.00
3. 1500 mm diameter turning space in the lobby, in front of the intercom			0.00	0.00	0.00	0.00	0.00
4. 1500 mm diameter turning space in front of letter boxes			0.00	0.00	0.00	0.00	0.00
5. 600 mm wall clearance at handle edge of door, on pull side			0.00	0.00	0.00	0.00	0.00
6. 300 mm wall clearance at handle edge of door, on push side			0.00	0.00	0.00	0.00	0.00
7. 300 mm clearance between equipment and adjacent wall			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
8. Slip-resistant floor	97.34	145.62	48.28	36.84	0.00	5.53	5.91
9. General 100 lux lighting			0.00	0.00	0.00	0.00	0.00
10. 200 lux directed lighting on intercom and letter boxes	0.00	100.58	100.58	33.75	43.00	11.51	12.32
⁽¹⁾ Required by the NBC 1990							

Total page 2.11

2. VESTIBULE AND ENTRANCE HALL IN MULTI-FAMILY BUILDINGS

ANOTHER EXAMPLE: HALL WITH BENCH

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
EASE OF USE							
11. Mailroom:							
a) Lever door handle vs round door handle	22.67	30.08	7.40	5.65	0.00	0.85	0.91
12. Main entry and vestibule doors:							
a) Stationary D-shaped handle			0.00	0.00	0.00	0.00	0.00
b) Automatic door-opening device (2 doors)	0.00	4953.62	4953.62	3080.00	700.00	567.00	606.62
13. Intercom:							
a) Call buttons between 1050 and 1400 mm from floor level			0.00	0.00	0.00	0.00	0.00
b) Indications in contrasting colour, with characters a 16 mm minimum high, projecting 0.75 mm from the surface			0.00	0.00	0.00	0.00	0.00
c) Intercom connected to telephone in each housing unit			0.00	0.00	0.00	0.00	0.00
14. Floor mat, where provided:							
a) Same level as adjacent floor			0.00	0.00	0.00	0.00	0.00
b) Metal laths spaced 13 mm maximum, perpendicular to traffic			0.00	0.00	0.00	0.00	0.00
15. Letter boxes:							
a) Positioned between 900 mm and 1400 mm from floor level			0.00	0.00	0.00	0.00	0.00
b) Two letter boxes with minimum height of 300 mm and minimum depth of 250 mm	107.46	261.44	153.98	117.50	0.00	17.63	18.86
c) Identification in arabic numerals, minimum height 16 mm, projecting 0.75 mm minimum from the surface			0.00	0.00	0.00	0.00	0.00

2. VESTIBULE AND ENTRANCE HALL IN MULTI-FAMILY BUILDINGS

ANOTHER EXAMPLE: HALL WITH BENCH

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ENTRANCE HALL WITH BENCH							
- 1500 mm diameter turning space in front of the bench			0.00	0.00	0.00	0.00	0.00
- bench seat at 450 mm from floor level, minimum depth of seat 450 mm	0.00	190.02	190.02	110.00	35.00	21.75	23.27
- bench with arm rests	included		0.00	0.00	0.00	0.00	0.00
Note: Cost for entrance hall with bench							
	Total		5453.89	3383.74	778.00	624.26	667.89

3. PUBLIC CORRIDOR

BASIC MODEL

3. PUBLIC CORRIDOR

BASIC MODEL

4. ELEVATOR

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 1500 mm turning space on each floor in front of the elevator			0.00	0.00	0.00	0.00	0.00
2. Within the elevator, 1500 mm diameter turning space minimum			0.00	0.00	0.00	0.00	0.00
3. 910 mm door clearance ⁽¹⁾			0.00	0.00	0.00	0.00	0.00
4. Automatic levelling device to within +13 mm ⁽¹⁾			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
5. Light detector to reopen doors without contact			0.00	0.00	0.00	0.00	0.00
6. Handrail around perimeter of inside elevator car, at 800 mm from floor level	0.00	825.60	825.60	630.00	0.00	94.50	101.10
7. General 200 lux lighting			0.00	0.00	0.00	0.00	0.00
EMERGENCY MEASURES							
8. Telephone at 1200 mm from floor level with 900 mm cord ⁽¹⁾			0.00	0.00	0.00	0.00	0.00
9. Telephone compartment identified by 38 mm pictogram ⁽¹⁾	0.00	32.76	32.76	25.00	0.00	3.75	4.01
10. 100 mm D-shaped handle to telephone compartment			0.00	0.00	0.00	0.00	0.00
11. Telephone receiver with volume control			0.00	0.00	0.00	0.00	0.00

⁽¹⁾ CSA-B44-M90 Appendix E

Total page 4.3

4. ELEVATOR

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
EASE OF USE							
12. Minimum 5 seconds elevator door-opening delay			0.00	0.00	0.00	0.00	0.00
13. a) Control buttons 19 mm minimum in diameter ⁽¹⁾			0.00	0.00	0.00	0.00	0.00
d) Projecting arabic numerals or pictograms to the left of controls			0.00	0.00	0.00	0.00	0.00
e) Characters in braille under numerals or pictogram			0.00	0.00	0.00	0.00	0.00
14. a) Control buttons between 900 mm to 1400 mm from floor level			0.00	0.00	0.00	0.00	0.00
b) Door and emergency control buttons grouped together at the bottom of the panel, in contrasting colour	0.00	131.05	131.05	100.00	0.00	15.00	16.05
c) Vocal synthesis announcing floor levels (cost per unit)	0.00	196.57	196.57	150.00	0.00	22.50	24.07
d) 60 mm high floor indicator, at 1750 mm from floor level			0.00	.00	0.00	0.00	0.00
15. a) Landing control button at 1050 mm from floor level ⁽¹⁾			0.00	0.00	0.00	0.00	0.00
b) Call registered by illuminated signal and audible signal ⁽¹⁾			0.00	0.00	0.00	0.00	0.00
c) Single and double audible signals indicating direction of elevator			0.00	0.00	0.00	0.00	0.00
d) Arabic numerals 60 mm high at door frame ⁽¹⁾ , projecting 1 mm			0.00	0.00	0.00	0.00	0.00
e) Indicator light showing direction travel, 60 mm high, at 1750 mm from floor level ⁽¹⁾			0.00	0.00	0.00	0.00	0.00
ADAPTABILITY							
16. Possibility for replacing the telephone with another model which has a Teletypewriter incorporated							
⁽¹⁾ CSA-B44-M90 Appendix E / Note: Cost for an elevator				Total	1185.99	905.00	0.00
					135.75	145.24	

5. PUBLIC STAIRS

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost					
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes		
FUNCTIONAL SAFETY									
1. Tread/riser ratio constant within the same flight of stairs			0.00	0.00	0.00	0.00	0.00		
2. Tread/riser ratio constant from one flight of stairs to another ⁽¹⁾			0.00	0.00	0.00	0.00	0.00		
3. Riser closed, with an inclined vs straight profile	1355.83	1457.65	101.82	77.70	0.00	11.66	12.47		
4. Space under stairway enclosed	0.00	250.45	250.45	38.98	152.13	28.67	30.67		
5. Handrails on both side of stairs			0.00	0.00	0.00	0.00	0.00		
6. Handrails continuous around landings	0.00	212.95	212.95	130.00	32.50	24.38	26.08		
7. Ends of handrails curved to wall or post			0.00	0.00	0.00	0.00	0.00		
8. Slip-resistant floor surface	103.66	187.32	83.66	43.68	20.16	9.58	10.25		
9. General 300 lux lighting directed vertically on the steps			0.00	0.00	0.00	0.00	0.00		
10. Slip-resistant nosing in contrasting colour			0.00	0.00	0.00	0.00	0.00		
EASE OF USE									
11. Tread a minimum depth of 250 mm and the riser a maximum height of 180 mm			0.00	0.00	0.00	0.00	0.00		
12. Handrails of diameter of 30-40 mm			0.00	0.00	0.00	0.00	0.00		
13. Handrails at a height between 800 mm to 920 mm ⁽¹⁾			0.00	0.00	0.00	0.00	0.00		
14. Handrails to extend 300 mm beyond top and bottom of stairs ⁽¹⁾			0.00	0.00	0.00	0.00	0.00		
⁽¹⁾ Required by NBC 1990									
Note: Cost for one floor for basic model				Total	648.89	290.36	204.79	74.27	79.46

6. FIRE SAFETY MEASURES

EXTERIOR EXIT AT GRADE LEVEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. Path without steps from public corridor to sidewalk level outside the building			0.00	0.00	0.00	0.00	0.00
2. Exit doors allowing for 810 mm minimum clear opening without encroachment by anti-panic hardware			0.00	0.00	0.00	0.00	0.00
3. Bevelled 13 mm maximum threshold			0.00	0.00	0.00	0.00	0.00
4. 300 mm clearance along wall on handle edge of door, on push side			0.00	0.00	0.00	0.00	0.00
5. Maximum slope of 1:20 for exterior path; if steeper, then considered as an access ramp			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. General 200 lux lighting			0.00	0.00	0.00	0.00	0.00
Note: Unit cost'							

6. FIRE SAFETY MEASURES

FLOORS SERVED BY ELEVATORS

6. FIRE SAFETY MEASURES

FLOORS SERVED BY ELEVATORS

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
Cost for residential building with 40 units on 4 floors							
BALCONY							
Cost for a balcony for all housing units	0.00	63979.85	63979.85	29676.80	19144.80	7323.24	7835.01
Door with 810 mm horizontal clear opening							
Bevelled 13 mm threshold							
1500 mm diameter turning space beyond the door swing							
Note: Cost for residential building with 40 units on 4 floors							

6. FIRE SAFETY MEASURES

ALARM SIGNALS IN A RESIDENTIAL BUILDING

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
FUNCTIONAL SAFETY							
7. Stroboscopic or flashing light connected to building's general fire alarm system, installed in public corridors and in all public spaces (by unit)	0.00	185.76	185.76	98.75	43.00	21.26	22.75
EASE OF USE							
8. Manual fire alarm release at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
ADAPTABILITY							
9. Electric outlet in each unit connected to the building's general fire alarm system (for possible installation of flashing light or vibrator)	0.00	117.94	117.94	68.50	21.50	13.50	14.44
Note: Unit cost							

7. GARBAGE CHUTE

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. Maximum depth of garbage chute compartment 750 mm			0.00	0.00	0.00	0.00	0.00
2. Door 865 mm wide, opening into the corridor	242.44	261.05	18.61	14.20	0.00	2.13	2.28
3. Bevelled 13 mm maximum threshold			0.00	0.00	0.00	0.00	0.00
4. 600 mm wall clearance in the corridor at the handle edge of door			0.00	0.00	0.00	0.00	0.00
5. 1500 mm diameter turning space in corridor	0.00	136.00	136.00	23.33	80.45	15.57	16.65
FUNCTIONAL SAFETY							
6. 150 lux lighting inside chute compartment			0.00	0.00	0.00	0.00	0.00
7. Opening the door triggers light switch	0.00	42.59	42.59	9.50	23.00	4.88	5.22
EASE OF USE							
8. Lighter door-closer			0.00	0.00	0.00	0.00	0.00
9. Lever handle vs round handle	22.67	30.08	7.40	5.65	0.00	0.85	0.91
10. Lower part of hatch at 700 mm from floor level			0.00	0.00	0.00	0.00	0.00
11. Hatch handle at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
12. Where provided, recycling box with cover at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
Note: Cost for a basic model							
Total				204.60	52.68	103.45	23.42
							25.06

8. COMMUNITY ROOM

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. Door 865 mm wide			0.00	0.00	0.00	0.00	0.00
2. Bevelled 13 mm maximum threshold ⁽¹⁾			0.00	0.00	0.00	0.00	0.00
3. No change in level inside the community room			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SECURITY							
4. Door with glazed section whose lower edge is less than 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
5. 100 lux lighting			0.00	0.00	0.00	0.00	0.00
6. Exterior lighting 150 lux at side of door			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
7. Lever handle ⁽¹⁾ vs round handle	22.67	30.08	7.40	5.65	0.00	0.85	0.91
8. Lock mechanism ⁽¹⁾ easy to manipulate			0.00	0.00	0.00	0.00	0.00
9. Window sill no higher than 750 mm from floor level (per unit)	275.20	427.22	152.02	98.00	18.00	17.40	18.62
10. Easy to manipulate handle to open the windows	0.00	39.31	39.31	30.00	0.00	4.50	4.81
11. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
12. Wall thermostat at 1200 mm from floor level			0.00	0.00	0.00	0.00	0.00
13. Electric outlets at 450 mm from floor level			0.00	0.00	0.00	0.00	0.00

8. COMMUNITY ROOM

BASIC MODEL

8. COMMUNITY ROOM

COMMUNITY KITCHENETTE

Total page 8.4

8. COMMUNITY ROOM

COMMUNITY KITCHENETTE

8. COMMUNITY ROOM

ANOTHER EXAMPLE: IN-LINE COMMUNITY KITCHENETTE

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
17. Clearance under the sink 680 mm high by 760 mm wide			0.00	0.00	0.00	0.00	0.00
18. Toe recess 180 mm high and 150 mm deep			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
19. Sink with offset drain and insulated plumbing trap	96.10	131.65	35.55	18.53	8.60	4.07	4.35
20. Continuous work surface between the sink and cook top			0.00	0.00	0.00	0.00	0.00
21. General 200 lux lighting			0.00	0.00	0.00	0.00	0.00
22. Directed 250-500 lux lighting at work location	0.00	100.58	100.58	33.75	43.00	11.51	12.32
EMERGENCY MEASURES							
23. Portable extinguisher	0.00	62.25	62.25	30.00	17.50	7.13	7.62
EASE OF USE							
24. Counter at 880 mm from floor level			0.00	0.00	0.00	0.00	0.00
25. Upper cabinets at 360 mm from the counter			0.00	0.00	0.00	0.00	0.00
26. Hinges opening 180° on doors of lower cabinets	6.95	27.00	20.05	15.30	0.00	2.30	2.46
27. D-shaped handles			0.00	0.00	0.00	0.00	0.00
28. Fully extended sliding drawers	10.61	80.20	69.59	53.10	0.00	7.97	8.52

Total page 8.6

8. COMMUNITY ROOM

ANOTHER EXAMPLE: IN-LINE COMMUNITY KITCHENETTE

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
EASE OF USE (cont'd)							
30. 75 mm lever faucets	81.41	85.29	3.88	2.96	0.00	0.44	0.48
31. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
32. Electric outlets on wall above counters, at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
OTHERS ELEMENTS							
- To facilitate easy access to the storage areas located at the ends of the kitchenette, the doors must allow full horizontal clearance in front the counter and appliances.			0.00	0.00	0.00	0.00	0.00
Note: Cost for a in-line community kitchenette							
	Total		291.90	153.64	69.10	33.41	35.75

9. SEMI-PUBLIC TOILET

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. Door 865 mm wide, swing not encroaching on turning space	41.59	45.45	3.85	2.94	0.00	0.44	0.47
2. Bevelled 13 mm maximum threshold	12.44	15.45	3.01	2.30	0.00	0.35	0.37
3. 1500 mm diameter turning space, free of all equipment			0.00	0.00	0.00	0.00	0.00
4. Clearance 680 mm high and 760 mm wide under wash basin counter			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
5. Slip-resistant ceramic flooring vs standard	55.16	82.52	27.36	20.88	0.00	3.13	3.35
6. Wash basin with offset drain and insulated plumbing trap, positioned at the back and parallel to the wall	13.96	43.09	29.13	13.63	8.60	3.33	3.57
7. 40 mm diameter grab-bar, offering rough surface grip, 900 mm ⁽¹⁾ long, positioned horizontally on the side wall at a point 300 mm from the wall corner and at 750 mm from floor level			0.00	0.00	0.00	0.00	0.00
8. 40 mm diameter grab-bar, with rough surface grip, 750 mm long, positioned vertically on the side wall, at 900 mm from wall corner, above the horizontal bar	0.00	109.95	109.95	45.90	38.00	12.58	13.46
9. 200 lux lighting			0.00	0.00	0.00	0.00	0.00
(1) Required by NBC 1990							

Total page 9.2

9. SEMI-PUBLIC TOILET

BASIC MODEL

Roy LGL Ltée

9. SEMI-PUBLIC TOILET

ANOTHER EXAMPLE: WITH LATERAL CLEARANCE
BESIDE THE TOILET

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 865 mm wide door, with swing not encroaching on turning space	41.59	45.45	3.85	2.94	0.00	0.44	0.47
2. Bevelled 13 mm maximum threshold	12.44	15.45	3.01	2.30	0.00	0.35	0.37
3. 1500 mm diameter turning space, free of all equipment			0.00	0.00	0.00	0.00	0.00
4. Clearance 680 mm high and 760 mm wide under wash basin counter			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
5. Slip-resistant ceramic vs standard	55.16	82.52	27.36	20.88	0.00	3.13	3.35
6. Wash basin with offset drain and insulated plumbing trap, located at the back	13.96	43.09	29.13	13.63	8.60	3.33	3.57
7. 40 mm diameter grab bar, with rough surface grip, 900 mm ⁽¹⁾ long, positioned horizontally on the side wall, at a point 300 mm from the wall corner at a height of 750 mm from floor level			0.00	0.00	0.00	0.00	0.00
8. 40 mm diameter grab bar, with rough surface grip, 750 mm long, positioned vertically on the side wall, at 900 mm from the wall corner, above the horizontal bar	0.00	109.95	109.95	45.90	38.00	12.58	13.46
9. 200 lux lighting			0.00	0.00	0.00	0.00	0.00
⁽¹⁾ Required by NBC 1990							

Total page 9.4

9. SEMI-PUBLIC TOILET

ANOTHER EXAMPLE: WITH LATERAL CLEARANCE BESIDE THE TOILET

10. LAUNDRY ROOM

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 865 mm wide door, not encroaching on turning space			0.00	0.00	0.00	0.00	0.00
2. Bevelled 13 mm maximum threshold			0.00	0.00	0.00	0.00	0.00
3. 1500 mm diameter turning space in front of counters and appliances			0.00	0.00	0.00	0.00	0.00
4. 300 mm clearance between appliance and an adjacent wall			0.00	0.00	0.00	0.00	0.00
5. 680 mm high clearance under total lenght of counter			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Door with glazed section whose lower edge is at a maximum 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
7. 200 lux lighting			0.00	0.00	0.00	0.00	0.00
8. Sink with offset drain and insulated plumbing trap, located at the back	96.10	131.65	35.55	18.53	8.60	4.07	4.35
EASE OF USE							
9. Lever door handle	22.67	30.08	7.40	5.65	0.00	0.85	0.91
10. Counter at 880 mm from floor level			0.00	0.00	0.00	0.00	0.00
11. 75 mm long lever faucet at sink	81.41	85.29	3.88	2.96	0.00	0.44	0.48
12. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
Note: Cost for a basic model							
Total				46.84	27.14	8.60	5.36
							5.74

11. COMMON STORAGE

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 865 mm wide door, not encroaching on turning space			0.00	0.00	0.00	0.00	0.00
2. Bevelled 13 mm maximum threshold			0.00	0.00	0.00	0.00	0.00
3. 1500 mm diameter turning space, beyond the stored articles			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
4. 100 lux lighting			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
5. Lever door handles	22.67	30.08	7.40	5.65	0.00	0.85	0.91
6. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
7. Electric outlet at 450 mm from floor level			0.00	0.00	0.00	0.00	0.00
Note: Cost for a basic model							
	Total		7.40	5.65	0.00	0.85	0.91

12. EXTERIOR PATHWAYS

BASIC MODEL

12. EXTERIOR PATHWAYS

BASIC MODEL

13. PARKING AREA FOR MULTI-FAMILY BUILDINGS

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. Parking spaces 2400 mm wide minimum			0.00	0.00	0.00	0.00	0.00
1. Access path between reserved spaces 1500 mm wide (cost/unit)	0.00	154.71	154.71	63.61	54.45	17.71	18.95
2. Pathway 1100 wide			0.00	0.00	0.00	0.00	0.00
3. No change in level			0.00	0.00	0.00	0.00	0.00
3. If there is a change in level, provide for sidewalk curb cut (cost/unit)	0.00	205.90	205.90	70.72	86.40	23.57	25.21
FUNCTIONAL SAFETY							
4. General interior 100 lux lighting (cost/unit)	0.00	189.18	189.18	68.64	75.72	21.65	23.17
4. General exterior 100 lux lighting (cost/unit)	0.00	756.15	756.15	418.28	158.73	86.55	92.60
EASE OF USE							
5. Stable, firm and uniform surface			0.00	0.00	0.00	0.00	0.00
6. Access path marked with 50 mm wide lines (cost/unit)	0.00	89.37	89.37	31.90	36.30	10.23	10.94
7. Parking space indicated by pictogram at 1500 mm from ground level:							
, on post (cost/unit)	0.00	73.06	73.06	23.75	32.00	8.36	8.95
, on wall or column (cost/unit)	0.00	31.45	31.45	15.00	9.00	3.60	3.85
8. Vertical clearance 2300 mm under roof			0.00	0.00	0.00	0.00	0.00
9. Automatic door-opening device for garage door			0.00	0.00	0.00	0.00	0.00

13. PARKING AREA FOR MULTI-FAMILY BUILDINGS

BASIC MODEL

14. ACCESS TO SMALL RESIDENTIAL BUILDINGS

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. Continuous pathway without steps and maximum slope of 1:20			0.00	0.00	0.00	0.00	0.00
2. Perpendicular slope maximum 1:50			0.00	0.00	0.00	0.00	0.00
3. Minimum pathway width 900 mm			0.00	0.00	0.00	0.00	0.00
4. Landing with 1500 mm turning space, beyond door swing	314.52	393.14	78.63	35.00	25.00	9.00	9.63
FUNCTIONAL SAFETY							
5. Slip-resistant, stable, firm and uniform surface			0.00	0.00	0.00	0.00	0.00
6. 200 lux entry lighting			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
7. Street number in 100 mm high letters, in contrasting colour			0.00	0.00	0.00	0.00	0.00
8. Letter box at 1050 mm maximum from floor level			0.00	0.00	0.00	0.00	0.00
9. Door bell with light at 1050 mm maximum from floor level			0.00	0.00	0.00	0.00	0.00
Note: Cost for a basic model							
	Total		78.63	35.00	25.00	9.00	9.63

14. ACCESS TO SMALL RESIDENTIAL BUILDINGS

ANOTHER EXAMPLE: ACCESS ABOVE GRADE

Total page 14.3

14. ACCESS TO SMALL RESIDENTIAL BUILDINGS

ANOTHER EXAMPLE: ACCESS ABOVE GRADE

14. ACCESS TO SMALL RESIDENTIAL BUILDINGS

ANOTHER EXAMPLE: ACCESS AT GRADE LEVEL, SPLIT-LEVEL ENTRY WITH BASEMENT

Total page 14.5

14. ACCESS TO SMALL RESIDENTIAL BUILDINGS

**ANOTHER EXAMPLE: ACCESS AT GRADE LEVEL,
SPLIT-LEVEL ENTRY WITH BASEMENT**

15. PARKING AREA FOR SMALL RESIDENTIAL BUILDINGS

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. Level parking space 3900 mm wide minimum			0,00	0,00	0,00	0,00	0,00
2. 900 mm wide pathway at end of parking space			0,00	0,00	0,00	0,00	0,00
FUNCTIONAL SAFETY							
3. General 100 lux lighting			0,00	0,00	0,00	0,00	0,00
EASE OF USE							
4. Stable, firm and uniform surface			0,00	0,00	0,00	0,00	0,00
Note: Cost for a basic model							
Total				0,00	0,00	0,00	0,00

15. PARKING AREA FOR SMALL RESIDENTIAL BUILDINGS

ANOTHER EXAMPLE: GARAGE

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
GARAGE							
- Vertical clearance minimum 2300 mm			0.00	0.00	0.00	0.00	0.00
- Interior dimensions to allow for a 1500 mm diameter turning space on one side of the vehicle; preferably a 900 mm clearance on the other three sides.			0.00	0.00	0.00	0.00	0.00
- Provision for direct access to residence from garage:							
- 865 mm wide doors			0.00	0.00	0.00	0.00	0.00
- Bevelled 13 mm maximum threshold			0.00	0.00	0.00	0.00	0.00
- Door handle at 950 mm from ground level	49.75	58.60	8.85	6.75	0.00	1.01	1.08
- Electric outlet above the door, on the inside of the garage to allow for possible installation of an automatic door-opening device	0.00	39.31	39.31	8.50	21.50	4.50	4.81
- Automatic garage door opener			0.00	0.00	0.00	0.00	0.00
- General 100 lux minimum lighting			0.00	0.00	0.00	0.00	0.00
Total width required 4600 mm							
Note: Cost for a garage							
	Total		48.16	15.25	21.50	5.51	5.90

16. ENTRY TO DWELLING UNIT

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 1500 mm diameter turning space, beyond door swing			0.00	0.00	0.00	0.00	0.00
2. 865 mm wide door(s)			0.00	0.00	0.00	0.00	0.00
3. Bevelled 13 mm maximum threshold			0.00	0.00	0.00	0.00	0.00
4. 600 mm wall clearance at handle edge of doors, on pull side			0.00	0.00	0.00	0.00	0.00
5. 300 mm wall clearance at handle edge of doors, on push side			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Entry with access to the exterior: exterior door with glazed section whose lower edge is a maximum 1050 mm from floor level, or with a lateral glazed panel			0.00	0.00	0.00	0.00	0.00
7. Entry with access from a public corridor: door with two peep holes, at 1100 mm and 1500 mm from floor level vs one peep hole	33.35	66.70	33.35	7.95	17.50	3.82	4.08
8. General 200 lux lighting			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
9. Lever handle vs round handle	22.67	30.08	7.40	5.65	0.00	0.85	0.91
10. Lock easy to manipulate			0.00	0.00	0.00	0.00	0.00
11. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
12. Where provided, thermostat at 1200 mm from floor level			0.00	0.00	0.00	0.00	0.00
13. Where provided, electric outlet at 450 mm from floor level			0.00	0.00	0.00	0.00	0.00

Total page 16.2

16. ENTRY TO DWELLING UNIT

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
EASE OF USE (Cont'd)							
14. Where provided, alarm system control panel at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
ADAPTABILITY							
15. Electric outlet above the door, on the inside of the housing unit, to allow for possible installation of an automatic door-opening device	0.00	39.31	39.31	8.50	21.50	4.50	4.81
Note: Cost for a basic model							
	Total		80.07	22.10	39.00	9.17	9.81

16. ENTRY TO DWELLING UNIT

ANOTHER EXAMPLE: WITH BENCH AND CLOTHES CLOSET

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 1500 mm diameter turning space beyond door swing			0.00	0.00	0.00	0.00	0.00
2. 865 mm wide door(s)			0.00	0.00	0.00	0.00	0.00
3. Bevelled 13 mm maximum threshold			0.00	0.00	0.00	0.00	0.00
4. 600 mm wall clearance at handle edge of door, on pull side			0.00	0.00	0.00	0.00	0.00
5. 300 mm wall clearance at handle edge of door, on push side			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Entry with access to the exterior: exterior door with glazed section whose lower edge is a maximum 1050 mm from floor level, or with a lateral glazed panel			0.00	0.00	0.00	0.00	0.00
7. Entry with access from a public corridor: door with two peep holes, at 1100 mm and 1500 mm from floor level vs one peep hole	33,35	66,70	33,35	7.95	17.50	3.82	4.08
8. General 200 lux lighting			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
9. Lever handle vs round handle	22.67	30.08	7.40	5.65	0.00	0.85	0.91
10. Lock easy to manipulate			0.00	0.00	0.00	0.00	0.00
11. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
12. Where provided, thermostat at 1200 mm from floor level			0.00	0.00	0.00	0.00	0.00
13. Where provided, electric outlet at 450 mm from floor level			0.00	0.00	0.00	0.00	0.00

Total page 16.4

16. ENTRY TO DWELLING UNIT

ANOTHER EXAMPLE: WITH BENCH AND CLOTHES CLOSET

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
EASE OF USE (Cont'd)							
14. Where provided, alarm system control panel at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
ADAPTABILITY							
15. Electric outlet above door, on the inside of the housing unit, to allow for possible installation of an automatic door-opening device	0.00	39.31	39.31	8.50	21.50	4.50	4.81
ENTRY WAY WITH BENCH AND CLOTHES CLOSET							
- 1500 mm diameter turning space in front of the bench and the clothes closet			0.00	0.00	0.00	0.00	0.00
- Bench seat at 450 mm from floor level	0.00	190.02	190.02	110.00	35.00	21.75	23.27
Note: Cost for an entrancy way with bench and clothes closet							
	Total		270.09	132.10	74.00	30.92	33.08

16. ENTRY TO DWELLING UNIT

ANOTHER EXAMPLE: DIRECT COMMUNICATION WITH GARAGE OR CARPORT

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 1500 mm diameter turning space beyond door swing			0.00	0.00	0.00	0.00	0.00
2. 865 mm wide door(s)			0.00	0.00	0.00	0.00	0.00
3. Bevelled 13 mm maximum threshold			0.00	0.00	0.00	0.00	0.00
4. 600 mm wall clearance at handle edge of doors, on pull side			0.00	0.00	0.00	0.00	0.00
5. 300 mm wall clearance at handle edge of doors, on push side			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Entry with access to the exterior: exterior door with glazed section whose lower edge is a maximum 1050 mm from floor level, or with a lateral glazed panel			0.00	0.00	0.00	0.00	0.00
8. General 200 lux lighting			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
9. Lever handle vs round handle	22.67	30.08	7.40	5.65	0.00	0.85	0.91
10. Lock easy to manipulate			0.00	0.00	0.00	0.00	0.00
11. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
12. Where provided, thermostat at 1200 mm from floor level			0.00	0.00	0.00	0.00	0.00
13. Where provided, electric outlet at 450 mm from floor level			0.00	0.00	0.00	0.00	0.00
14. Where provided, alarm system control panel at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00

Total page 16.6

16. ENTRY TO DWELLING UNIT

ANOTHER EXAMPLE: DIRECT COMMUNICATION WITH GARAGE OR CARPORT

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ADAPTABILITY							
15. Electric outlet above the door, on the inside of the housing unit, to allow for possible installation of an automatic door-opening device	0.00	39.31	39.31	8.50	21.50	4.50	4.81
VESTIBULE COMMUNICATING DIRECTLY WITH GARAGE OR CARPORT							
- The vestibule forms a transition zone between the unit and the carport or garage			0.00	0.00	0.00	0.00	0.00
Note: Cost for vestibule communicating directly with the garage or carport							
Total			46.72	14.15	21.50	5.35	5.72

16. ENTRY TO DWELLING UNIT

ANOTHER EXAMPLE: SPLIT-LEVEL WITH ADAPTABLE STORAGE SPACE

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 1500 mm diameter turning space beyond door swing			0.00	0.00	0.00	0.00	0.00
2. 865 mm wide door(s)			0.00	0.00	0.00	0.00	0.00
3. Bevelled 13 mm maximum threshold			0.00	0.00	0.00	0.00	0.00
4. 600 mm wall clearance at handle edge of door, on pull side			0.00	0.00	0.00	0.00	0.00
5. 300 mm wall clearance at handle edge of door, on push side			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Entry with access to the exterior: exterior door with glazed section whose lower edge is a maximum 1050 mm from floor level, or with a lateral glazed panel			0.00	0.00	0.00	0.00	0.00
8. General 200 lux lighting			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
9. Lever handle vs round handle	22.67	30.08	7.40	5.65	0.00	0.85	0.91
10. Lock easy to manipulate			0.00	0.00	0.00	0.00	0.00
11. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
12. Where provided, thermostat at 1200 mm from floor level			0.00	0.00	0.00	0.00	0.00
13. Where provided, electric outlet at 450 mm from floor level			0.00	0.00	0.00	0.00	0.00
14. Where provided, alarm system control panel at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00

Total page 16.8

16. ENTRY TO DWELLING UNIT

ANOTHER EXAMPLE: SPLIT LEVEL WITH ADAPTABLE STORAGE SPACE

17. CIRCULATION WITHIN DWELLING UNIT

HORIZONTAL CIRCULATION

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 900 mm minimum horizontal clearance			0.00	0.00	0.00	0.00	0.00
2. To access a room where doors open to the inside of the room:							
a) minimum corridor width 1200 mm			0.00	0.00	0.00	0.00	0.00
b) 865 mm wide door			0.00	0.00	0.00	0.00	0.00
c) 300 mm clearance along wall at handle edge of door	0.00	40.36	40.36	13.86	16.94	4.62	4.94
3. To access a room where the doors open into the corridors:							
a) minimum corridor width 1500 mm			0.00	0.00	0.00	0.00	0.00
b) 865 mm wide door			0.00	0.00	0.00	0.00	0.00
c) 600 mm clearance along wall at handle egde of door	0.00	80.73	80.73	27.72	33.88	9.24	9.89
4. If there is a change in direction, 1500 mm diameter turning space minimum; an interior corridor corner cut at 45° makes it possible to obtain this space			0.00	0.00	0.00	0.00	0.00
5. At end of corridor, 1500 mm diameter minimum turning space	0.00	80.73	80.73	27.72	33.88	9.24	9.89
FUNCTIONAL SAFETY							
6. Three-way switch at the ends of corridor			0.00	0.00	0.00	0.00	0.00
7. General 100 lux lighting			0.00	0.00	0.00	0.00	0.00

Total page 17.2

17. CIRCULATION WITHIN DWELLING UNIT

HORIZONTAL CIRCULATION

17. CIRCULATION WITHIN DWELLING UNIT

VERTICAL CIRCULATION

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
FUNCTIONAL SAFETY							
11. Tread/riser ratio constant within same flight of stairs			0.00	0.00	0.00	0.00	0.00
12. Riser closed (cost per stairway)	0.00	235.89	235.89	180.00	0.00	27.00	28.89
13. Handrail on one side of stairs if three steps or more			0.00	0.00	0.00	0.00	0.00
14. General 200 lux lighting			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
15. Tread depth 250 mm minimum and riser height 180 mm maximum			0.00	0.00	0.00	0.00	0.00
16. 30-40 mm diameter handrails with clearance and shape necessary for good grip			0.00	0.00	0.00	0.00	0.00
17. Handrails between 800 mm and 920 mm from stair nosing			0.00	0.00	0.00	0.00	0.00
18. Handrail extends 300 mm beyond the steps	0.00	47.18	47.18	36.00	0.00	5.40	5.78
19. 3-way switch at the top and bottom of stairs, 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
ADAPTABILITY							
To install an inclined elevating platform or a chair lift:							
20. Straight flight stairs, minimum width of 900 mm			0.00	0.00	0.00	0.00	0.00
21. Minimum clearance at the bottom of a stairs 1500 mm long			0.00	0.00	0.00	0.00	0.00
22. 1500 mm diameter turning space at the top of the stairs			0.00	0.00	0.00	0.00	0.00
Note: Cost for one (1) stairs							
	Total		283.06	216.00	0.00	32.40	34.66

18. KITCHEN

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. Door 865 mm wide or clear opening minimum 810 mm wide			0.00	0.00	0.00	0.00	0.00
2. Bevelled 13 mm maximum threshold			0.00	0.00	0.00	0.00	0.00
3. 1500 mm diameter turning space in front of counters, storage spaces, etc.			0.00	0.00	0.00	0.00	0.00
4. Possibility of a clearance 680 mm high and 760 mm wide under sink			0.00	0.00	0.00	0.00	0.00
5. Toe recess 180 mm high and 150 mm deep			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Sink with offset drain and insulated plumbing trap	96.10	131.65	35.55	18.53	8.60	4.07	4.35
7. Continuous work surface between the cook top and sink to slide equipment instead of carrying it			0.00	0.00	0.00	0.00	0.00
8. General 200 lux lighting			0.00	0.00	0.00	0.00	0.00
9. Directed 250-500 lux lighting at sink, cook top and work surface	0.00	100.58	100.58	33.75	43.00	11.51	12.32
EMERGENCY MEASURES							
12. Portable extinguisher	0.00	62.25	62.25	30.00	17.50	7.13	7.62

Total page 18.3

18. KITCHEN

BASIC MODEL

Total page 18.3

18. KITCHEN

BASIC MODEL

18. KITCHEN

ANOTHER EXAMPLE: KITCHEN WITH EATING COUNTER

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 865 mm wide door or at least 810 mm wide clear opening			0.00	0.00	0.00	0.00	0.00
2. Bevelled 13 mm maximum threshold			0.00	0.00	0.00	0.00	0.00
3. 1500 mm diameter turning space in front of counters, storage area, etc.			0.00	0.00	0.00	0.00	0.00
4. Possibility of clearance 680 mm high and 760 mm wide under sink			0.00	0.00	0.00	0.00	0.00
5. Toe recess 180 mm high and 150 mm deep			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Sink with offset drain and insulated plumbing trap	96.10	131.65	35.55	18.53	8.60	4.07	4.35
7. Continuous work surface between the cook top and the sink to slide equipment instead of carrying it			0.00	0.00	0.00	0.00	0.00
8. General 200 lux lighting			0.00	0.00	0.00	0.00	0.00
9. Directed 250-500 lux lighting at the sink, the cook top and the work surface	0.00	100.58	100.58	33.75	43.00	11.51	12.32
EMERGENCY MEASURES							
12. Portable extinguisher	0.00	62.25	62.25	30.00	17.50	7.13	7.62

Total page 18.6

18. KITCHEN

ANOTHER EXAMPLE: KITCHEN WITH EATING COUNTER

Total page 18.6

18. KITCHEN

ANOTHER EXAMPLE: KITCHEN WITH EATING COUNTER

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ADAPTABILITY							
26. Moveable storage module under the sink	150.71	362.35	211.64	161.50	0.00	24.22	25.92
27. Possibility of replacing the electric range by a cook top			0.00	0.00	0.00	0.00	0.00
28. Possibility of a built-in conventional or microwave oven in full height vertical storage: an electric outlet provided inside the storage			0.00	0.00	0.00	0.00	0.00
OTHERS ELEMENTS							
- Eating counter as part of the kitchen makes it possible to eat light meals there occasionally.			0.00	0.00	0.00	0.00	0.00
- Counter with a clearance 680 mm high and 450 mm deep for a minimum length of 760 mm.			0.00	0.00	0.00	0.00	0.00
Note: Cost for kitchen with eating counter							
	Total		726.85	442.54	112.10	83.20	89.01

18. KITCHEN

ANOTHER EXAMPLE: KITCHEN WITH SERVING HATCH

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 865 mm wide door or minimum 810 mm clear opening			0.00	0.00	0.00	0.00	0.00
2. Bevelled 13 mm maximum threshold			0.00	0.00	0.00	0.00	0.00
3. 1500 mm diameter turning space in front of counters, storage area, etc.			0.00	0.00	0.00	0.00	0.00
4. Possibility of a clearance 680 mm high and 760 mm wide under the sink			0.00	0.00	0.00	0.00	0.00
5. Toe recess 180 mm high and 150 mm deep			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Sink with offset drain and insulated plumbing trap	96.10	131.65	35.55	18.53	8.60	4.07	4.35
7. Continuous work surface between the cook top and the sink to slide equipment instead of carrying it			0.00	0.00	0.00	0.00	0.00
8. General 200 lux lighting			0.00	0.00	0.00	0.00	0.00
9. Directed 250-500 lux lighting on sink, cook top and work surface	0.00	100.58	100.58	33.75	43.00	11.51	12.32
EMERGENCY MEASURES							
12. Portable extinguisher	0.00	62.25	62.25	30.00	17.50	7.13	7.62

Total page 18.9

18. KITCHEN

ANOTHER EXAMPLE: KITCHEN WITH SERVING HATCH

Total page 18.9

18. KITCHEN

ANOTHER EXAMPLE: KITCHEN WITH SERVING HATCH

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ADAPTABILITY							
26. Moveable storage module under the sink	150.71	362.35	211.64	161.50	0.00	24.22	25.92
27. Possibility of replacing the range by a cook top			0.00	0.00	0.00	0.00	0.00
28. Possibility of a built-in conventional or microwave oven in full height vertical storage: an electric outlet provided inside the storage			0.00	0.00	0.00	0.00	0.00
OTHERS ELEMENTS							
- Provision of a serving hatch reduces travel between the eating area and the kitchen and allows additional natural light to enter from the living spaces			0.00	0.00	0.00	0.00	0.00
Note: Cost for a kitchen with serving hatch							
	Total		726.85	442.54	112.10	83.20	89.01

18. KITCHEN

ANOTHER EXAMPLE: KITCHEN WITH ISLAND

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 865 mm wide door or minimum 810 mm wide clear opening			0.00	0.00	0.00	0.00	0.00
2. Bevelled 13 mm maximum threshold			0.00	0.00	0.00	0.00	0.00
3. 1500 mm diameter turning space in front of counters, storage area, etc.			0.00	0.00	0.00	0.00	0.00
4. Possibility of a clearance 680 mm high and 760 mm wide under the sink			0.00	0.00	0.00	0.00	0.00
5. Toe recess 180 mm high and 150 mm deep			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Sink with offset drain and insulated plumbing trap	96.10	131.65	35.55	18.53	8.60	4.07	4.35
7. Continuous work surface between the cook top and the sink to slide equipment instead of carrying it			0.00	0.00	0.00	0.00	0.00
8. General 200 lux lighting			0.00	0.00	0.00	0.00	0.00
9. Directed 250-500 lux lighting at sink, cook top and work surface	0.00	100.58	100.58	33.75	43.00	11.51	12.32
EMERGENCY MEASURES							
12. Portable extinguisher	0.00	62.25	62.25	30.00	17.50	7.13	7.62

Total page 18.12

18. KITCHEN

ANOTHER EXAMPLE: KITCHEN WITH ISLAND

Total page 18.12

18. KITCHEN

ANOTHER EXAMPLE: KITCHEN WITH ISLAND

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ADAPTABILITY							
26. Moveable storage module under the sink	150.71	362.35	211.64	161.50	0.00	24.22	25.92
27. Possibility of replacing the range by a cook top			0.00	0.00	0.00	0.00	0.00
28. Possibility of a built-in conventional or microwave oven in full height vertical storage: an electric outlet provided inside storage			0.00	0.00	0.00	0.00	0.00
OTHERS ELEMENTS							
- An island incorporating a cook top or a sink is not an ideal layout since it separates the cooking surface from the sink and makes it necessary to carry food and utensils to and fro.			0.00	0.00	0.00	0.00	0.00
- A central kitchen island may be used as a work surface or eating counter			0.00	0.00	0.00	0.00	0.00
Note: Cost for a kitchen with island							
	Total		726.85	442.54	112.10	83.20	89.01

19. BATHROOM

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 865 mm wide door vs 750 mm	41.59	45.45	3.85	2.94	0.00	0.44	0.47
2. Bevelled 13 mm maximum threshold	12.44	15.45	3.01	2.30	0.00	0.35	0.37
3. 1500 mm diameter obstruction-free turning space			0.00	0.00	0.00	0.00	0.00
4. Clearance along whole length of bathtub			0.00	0.00	0.00	0.00	0.00
5. Possibility of clearance 680 mm high and 760 mm wide under washbasin counter			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Slip-resistant ceramic vs standard	53.21	79.61	26.39	20.14	0.00	3.02	3.23
7. Washbasin with offset drain and insulated plumbing trap	13.96	43.09	29.13	13.63	8.60	3.33	3.57
8. Pressure balancer on faucet for bathtub/shower	93.95	145.28	51.33	39.17	0.00	5.88	6.29
9. Bathtub with slip-resistant bottom	225.09	264.87	39.79	30.36	0.00	4.55	4.87
10. 200 lux lighting	0.00	62.12	62.12	25.90	21.50	7.11	7.61
11. Directed 250 to 500 lux lighting at the washbasin			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
12. Lever door handle, lock can be unlocked from outside	22.67	30.08	7.40	5.65	0.00	0.85	0.91
13. Elongated toilet 400 mm high with central axis 450 mm from lateral wall	273.03	327.38	54.36	41.48	0.00	6.22	6.66
14. Lever faucets on washbasin	63.06	92.86	29.80	22.74	0.00	3.41	3.65
15. Lever faucet at bathtub	93.95	99.26	5.31	4.05	0.00	0.61	0.65

Total page 19.2

19. BATHROOM

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
EASE OF USE (cont'd)							
16. Shower diverter easy to manipulate	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17. 600 x 900 mm mirror, 920 mm from floor area	0.00	111.39	111.39	65.00	20.00	12.75	13.64
18. Medicine cabinet at 1000 mm from floor level			0.00	0.00	0.00	0.00	0.00
19. Built-in bathtub soap holder, without handle			0.00	0.00	0.00	0.00	0.00
20. Towel rack at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
21. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
22. Thermostat at 1200 mm from floor level			0.00	0.00	0.00	0.00	0.00
23. Electric outlet with breaker on wall adjacent to counter, at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
24. D-shaped handles on storage			0.00	0.00	0.00	0.00	0.00
25. Where provided, hand shower with adjustable wall mount and flexible tubing 1800 mm long			0.00	0.00	0.00	0.00	0.00
ADAPTABILITY							
26. 16 mm plywood wall reinforcement around bathtub and on wall adjacent to toilet (for possible grab-bar installation)	0.00	90.77	90.77	25.17	44.10	10.39	11.12
27. Moveable storage module under the washbasin counter permitting the provision of knee-space clearance	117.94	201.81	83.87	64.00	0.00	9.60	10.27
Note: Cost for a basic model							
	Total		598.53	362.53	94.20	68.51	73.30

19. BATHROOM

ANOTHER EXAMPLE: WITH WASHER AND DRYER

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 865 mm wide door vs 750 mm	41.59	45.45	3.85	2.94	0.00	0.44	0.47
2. Bevelled 13 mm maximum threshold	12.44	15.45	3.01	2.30	0.00	0.35	0.37
3. 1500 mm diameter obstruction-free turning space			0.00	0.00	0.00	0.00	0.00
4. Clearance along total length of bathtub			0.00	0.00	0.00	0.00	0.00
5. Possibility of clearance 680 mm high and 760 mm wide under washbasin counter			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Slip-resistant ceramic vs standard	53.21	79.61	26.39	20.14	0.00	3.02	3.23
7. Wash basin with offset drain and insulated plumbing trap	13.96	43.09	29.13	13.63	8.60	3.33	3.57
8. Pressure balancer on the bathtub/shower faucets	93.95	145.28	51.33	39.17	0.00	5.88	6.29
9. Bathtub with slip-resistant bottom	225.09	264.87	39.79	30.36	0.00	4.55	4.87
10. 200 lux lighting	0.00	62.12	62.12	25.90	21.50	7.11	7.61
11. Directed 250 to 500 lux lighting at washbasin			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
12. Lever door handle, lock can be unlocked from outside	22.67	30.08	7.40	5.65	0.00	0.85	0.91
13. Elongated toilet 400 mm high, with central axis 450 mm from side wall	273.03	327.38	54.36	41.48	0.00	6.22	6.66
14. Lever faucet on washbasin	63.06	92.86	29.80	22.74	0.00	3.41	3.65
15. Lever faucets on bathtub	93.95	99.26	5.31	4.05	0.00	0.61	0.65

Total page 19.5

19. BATHROOM

ANOTHER EXAMPLE: WITH WASHER AND DRYER

Total page 19.5

19. BATHROOM

ANOTHER EXAMPLE: WITH WASHER AND DRYER

19. BATHROOM

ANOTHER EXAMPLE: WITH SHOWER CABINET,
TWO WASHBASINS AND WINDOW

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 865 mm wide door vs 750 mm	41.59	45.45	3.85	2.94	0.00	0.44	0.47
2. Bevelled 13 mm maximum threshold	12.44	15.45	3.01	2.30	0.00	0.35	0.37
3. 1500 mm diameter obstruction-free turning space			0.00	0.00	0.00	0.00	0.00
4. Clearance along whole length of bathtub			0.00	0.00	0.00	0.00	0.00
5. Potential for 680 mm high and 760 mm wide clearance under washbasin counter			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Slip-resistant ceramic vs standard	100.59	150.07	49.89	38.07	0.00	5.71	6.11
7. Washbasin with offset drain and insulated plumbing trap	13.96	43.09	29.13	13.63	8.60	3.33	3.57
8. Pressure balancer on the bathtub/shower faucets	93.95	145.28	51.33	39.17	0.00	5.88	6.29
9. Bathtub with slip-resistant bottom	225.09	264.87	39.79	30.36	0.00	4.55	4.87
10. 200 lux lighting	0.00	62.12	62.12	25.90	21.50	7.11	7.61
11. Directed 250 to 500 lux lighting at the washbasin			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
12. Lever door handle, lock can be unlocked from outside vs round model	22.67	30.08	7.40	5.65	0.00	0.85	0.91
13. Elongated toilet 400 mm high, with central axis 450 mm from side wall	273.03	327.38	54.36	41.48	0.00	6.22	6.66
14. Lever faucet on washbasin	126.12	185.72	59.60	45.48	0.00	6.82	7.30

Total page 19.8

19. BATHROOM

ANOTHER EXAMPLE: WITH SHOWER CABINET,
TWO WASHBASINS AND WINDOW

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
EASE OF USE (cont'd)							
15. Lever faucet on bathtub	93.95	99.26	5.31	4.05	0.00	0.61	0.65
16. Shower diverter easy to manipulate			0.00	0.00	0.00	0.00	0.00
17. 600 x 900 mm mirror, at 920 mm from floor level	0.00	111.39	111.39	65.00	20.00	12.75	13.64
18. Medicine cabinet at 1000 mm from floor level			0.00	0.00	0.00	0.00	0.00
19. Built-in soap holder in bathtub, without handle			0.00	0.00	0.00	0.00	0.00
20. Towel rack at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
21. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
22. Thermostat at 1200 mm from floor level			0.00	0.00	0.00	0.00	0.00
23. Electric outlet with breaker on wall adjacent to counter, at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
24. D-shaped handle on storage			0.00	0.00	0.00	0.00	0.00
25. Where provided, hand shower with adjustable wall mount and flexible tubing 1800 mm long			0.00	0.00	0.00	0.00	0.00
ADAPTABILITY							
26. 16 mm plywood wall reinforcement around bathtub and on wall adjacent to toilet (for possible grab-bar installation)	0.00	90.77	90.77	25.17	44.10	10.39	11.12
27. Moveable storage module under the washbasin counter permitting the provision of knee-space clearance	117.94	201.81	83.87	64.00	0.00	9.60	10.27

Total page 19.8

19. BATHROOM

ANOTHER EXAMPLE: WITH SHOWER CABINET, TWO WASHBASINS AND WINDOW

19. BATHROOM

ANOTHER EXAMPLE: WITH STORAGE SPACE

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 865 mm wide door vs 750 mm	41.59	45.45	3.85	2.94	0.00	0.44	0.47
2. Bevelled 13 mm maximum threshold	12.44	15.45	3.01	2.30	0.00	0.35	0.37
3. 1500 mm diameter obstruction-free turning space			0.00	0.00	0.00	0.00	0.00
4. Clearance along total length of bathtub			0.00	0.00	0.00	0.00	0.00
5. Potential for 680 mm high and 760 mm wide clearance under washbasin counter			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SECURITY							
6. Slip-resistant ceramic vs standard	53.21	79.61	26.39	20.14	0.00	3.02	3.23
7. Wash basin with offset drain and insulated plumbing trap	13.96	43.09	29.13	13.63	8.60	3.33	3.57
8. Pressure balancer on the bathtub/shower faucets	93.95	145.28	51.33	39.17	0.00	5.88	6.29
9. Bathtub with slip-resistant surface bottom	225.09	264.87	39.79	30.36	0.00	4.55	4.87
10. 200 lux lighting	0.00	62.12	62.12	25.90	21.50	7.11	7.61
11. Directed 250 to 500 lux lighting at the washbasin			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
12. Lever door handle, lock can be unlocked from outside vs round model	22.67	30.08	7.40	5.65	0.00	0.85	0.91
13. Elongated toilet 400 mm high, with central axis 450 mm from side wall	273.03	327.38	54.36	41.48	0.00	6.22	6.66
14. Lever faucet on washbasin	63.06	92.86	29.80	22.74	0.00	3.41	3.65
15. Lever faucet on bathtub	93.95	99.26	5.31	4.05	0.00	0.61	0.65

Total page 19.10

19. BATHROOM

ANOTHER EXAMPLE: WITH STORAGE SPACE

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
EASE OF USE (cont'd)							
16. Shower diverter easy to manipulate	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17. 600 x 900 mm mirror, at 920 mm from floor level	0.00	111.39	111.39	65.00	20.00	12.75	13.64
18. Medicine cabinet at 1000 mm from floor level			0.00	0.00	0.00	0.00	0.00
19. Built-in soap holder in bathtub, without handle			0.00	0.00	0.00	0.00	0.00
20. Towel rack at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
21. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
22. Thermostat at 1200 mm from floor level			0.00	0.00	0.00	0.00	0.00
23. Electric outlet with breaker on wall adjacent to counter, at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
24. D-shaped handle on storage			0.00	0.00	0.00	0.00	0.00
25. Where provided, hand shower with adjustable wall mount and flexible tubing 1800 mm long			0.00	0.00	0.00	0.00	0.00
ADAPTABILITY							
26. 16 mm plywood wall reinforcement around bathtub and on wall adjacent to toilet (for possible grab-bar installation)	0.00	90.77	90.77	25.17	44.10	10.39	11.12
27. Moveable storage module under the washbasin counter permitting the provision of knee-space clearance	117.94	201.81	83.87	64.00	0.00	9.60	10.27
Note: Cost for a bathroom with storage space							
	Total		598.53	362.53	94.20	68.51	73.30

19. BATHROOM

ANOTHER EXAMPLE: TOILET

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 865 mm wide door vs 750 mm	41.59	45.45	3.85	2.94	0.00	0.44	0.47
2. Bevelled 13 mm maximum threshold	12.44	15.45	3.01	2.30	0.00	0.35	0.37
3. 1500 mm diameter obstruction-free turning space			0.00	0.00	0.00	0.00	0.00
5. Counter with potential for a 680 mm high and 760 mm wide clearance			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Slip-resistant ceramic vs standard	55.16	82.52	27.36	20.88	0.00	3.13	3.35
7. Wash basin with offset drain and insulated plumbing trap	13.96	43.09	29.13	13.63	8.60	3.33	3.57
10. 200 lux lighting	0.00	62.12	62.12	25.90	21.50	7.11	7.61
11. Directed 250 to 500 lux lighting at the washbasin			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
12. Lever door handle, lock can be unlocked from outside vs round model	22.67	30.08	7.40	5.65	0.00	0.85	0.91
13. Elongated toilet 400 mm high with central axis 450 mm from side wall	273.03	327.38	54.36	41.48	0.00	6.22	6.66
14. Lever faucet on washbasin	63.06	92.86	29.80	22.74	0.00	3.41	3.65
17. 600 x 900 mm mirror, at 920 mm from floor level			0.00	0.00	0.00	0.00	0.00
20. Towel rack at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
21. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
22. Thermostat at 1200 mm from floor level			0.00	0.00	0.00	0.00	0.00

Total page 19.12

19. BATHROOM

ANOTHER EXAMPLE: TOILET

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
EASE OF USE (cont'd)							
23. Electric outlet with breaker on wall adjacent to counter, at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
24. D-shaped handles on storage			0.00	0.00	0.00	0.00	0.00
ADAPTABILITY							
26. 16 mm plywood wall reinforcement around bathtub and on wall adjacent to toilet (for possible grab-bar installation)	0.00	26.18	26.18	7.26	12.72	3.00	3.21
27. Moveable storage module under the washbasin counter permitting the provision of knee-space clearance	117.94	201.81	83.87	64.00	0.00	9.60	10.27
Note: Cost for a toilet							
	Total		327.09	206.78	42.82	37.44	40.06

20. BEDROOM

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 865 mm door vs 750 mm	41.59	45.45	3.85	2.94	0.00	0.44	0.47
2. No threshold			0.00	0.00	0.00	0.00	0.00
3. 1500 mm diameter turning space near bed and near storage area			0.00	0.00	0.00	0.00	0.00
4. Minimum 900 mm clearance around bed			0.00	0.00	0.00	0.00	0.00
5. 600 mm clearance along wall at handle edge of door			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Ceiling fixture 100 lux lighting	0.00	62.12	62.12	25.90	21.50	7.11	7.61
7. Electric outlet connected to a switch near the door			0.00	0.00	0.00	0.00	0.00
8. Telephone jack close to an electric outlet	0.00	44.88	44.88	12.50	21.75	5.14	5.50
EASE OF USE							
9. Lever door handle vs round model	22.67	30.08	7.40	5.65	0.00	0.85	0.91
10. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
11. Wall thermostat at 1200 mm from floor level			0.00	0.00	0.00	0.00	0.00
12. Electric outlet at 450 mm from floor level			0.00	0.00	0.00	0.00	0.00
13. Electric outlets in sufficient quantity to facilitate furnishing			0.00	0.00	0.00	0.00	0.00
14. 200 lux lighting in the closet, switch on outside	0.00	41.94	41.94	10.50	21.50	4.80	5.14
15. D-shaped handle on closet doors			0.00	0.00	0.00	0.00	0.00

Total page 20.2

20. BEDROOM

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
EASE OF USE (cont'd)							
16. Window sill a maximum 750 mm from floor level	275.20	427.22	152.02	98.00	18.00	17.40	18.62
17. Window opening mechanism at 1050 mm from floor level and at a minimum of 300 mm from wall corner			0.00	0.00	0.00	0.00	0.00
18. Tandem locking system for windows requiring two vertical locks	0.00	39.31	39.31	30.00	0.00	4.50	4.81
ADAPTABILITY							
19. In the clothes closets, two positions for adjustable rod and shelf; at 1200 mm and 1500 mm from floor level	0.00	27.13	27.13	3.20	17.50	3.11	3.32
Note: Cost for basic model							
	Total		378.65	188.69	100.25	43.34	46.37

20. BEDROOM

ANOTHER EXAMPLE: FURNITURE ALONG WALL OPPOSITE STORAGE AREA

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 865 mm door vs 750 mm	41.59	45.45	3.85	2.94	0.00	0.44	0.47
2. No threshold			0.00	0.00	0.00	0.00	0.00
3. 1500 mm diameter turning space near bed and near storage area			0.00	0.00	0.00	0.00	0.00
4. Minimum 900 mm clearance around bed			0.00	0.00	0.00	0.00	0.00
5. 600 mm clearance along wall at handle edge of door			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Ceiling fixture 100 lux lighting	0.00	62.12	62.12	25.90	21.50	7.11	7.61
7. Electric outlet connected to a switch near the door			0.00	0.00	0.00	0.00	0.00
8. Telephone jack close to an electric outlet	0.00	44.88	44.88	12.50	21.75	5.14	5.50
EASE OF USE							
9. Lever door handle vs round model	22.67	30.08	7.40	5.65	0.00	0.85	0.91
10. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
11. Wall thermostat at 1200 mm from floor level			0.00	0.00	0.00	0.00	0.00
12. Electric outlet at 450 mm from floor level			0.00	0.00	0.00	0.00	0.00
13. Electric outlets in sufficient quantity to facilitate furnishing			0.00	0.00	0.00	0.00	0.00
14. 200 lux lighting in the closet, switch on outside	0.00	41.94	41.94	10.50	21.50	4.80	5.14
15. D-shaped handle on closet doors			0.00	0.00	0.00	0.00	0.00

Total page 20.4

20. BEDROOM

ANOTHER EXAMPLE: FURNITURE ALONG WALL OPPOSITE STORAGE AREA

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
EASE OF USE (cont'd)							
16. Window sill at a maximum 750 mm from floor level	275.20	427.22	152.02	98.00	18.00	17.40	18.62
17. Window opening mechanism at 1050 mm from floor level and at a minimum of 300 mm from wall corner			0.00	0.00	0.00	0.00	0.00
18. Tandem locking system for the windows requiring two vertical locks	0.00	39.31	39.31	30.00	0.00	4.50	4.81
ADAPTABILITY							
19. In the clothes closets, two positions for adjustable rod and shelf: at 1200 mm and 1500 mm from floor level	0.00	27.13	27.13	3.20	17.50	3.11	3.32
Note: Cost for a bedroom with furniture along the wall opposite storage area							
	Total		378.65	188.69	100.25	43.34	46.37

20. BEDROOM

ANOTHER EXAMPLE: BEDROOM TO ACCOMMODATE CHEST OF DRAWERS

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 865 mm door vs 750 mm	41.59	45.45	3.85	2.94	0.00	0.44	0.47
2. No threshold			0.00	0.00	0.00	0.00	0.00
3. 1500 mm diameter turning space near bed and near storage area			0.00	0.00	0.00	0.00	0.00
4. Minimum 900 mm clearance around bed			0.00	0.00	0.00	0.00	0.00
5. 600 mm clearance along wall on handle edge of door			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Ceiling fixture 100 lux lighting	0.00	62.12	62.12	25.90	21.50	7.11	7.61
7. Electric outlet connected to a switch near the door			0.00	0.00	0.00	0.00	0.00
8. Telephone jack close to an electric outlet	0.00	44.88	44.88	12.50	21.75	5.14	5.50
EASE OF USE							
9. Lever door handle vs round model	22.67	30.08	7.40	5.65	0.00	0.85	0.91
10. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
11. Wall thermostat at 1200 mm from floor level			0.00	0.00	0.00	0.00	0.00
12. Electric outlet at 450 mm from floor level			0.00	0.00	0.00	0.00	0.00
13. Electric outlets in sufficient quantity to facilitate furnishing			0.00	0.00	0.00	0.00	0.00
14. 200 lux lighting in the closet, switch on outside	0.00	41.94	41.94	10.50	21.50	4.80	5.14
15. D-shaped handle on closet doors			0.00	0.00	0.00	0.00	0.00

Total page 20.6

20. BEDROOM

ANOTHER EXAMPLE: BEDROOM TO ACCOMMODATE CHEST OF DRAWERS

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
EASE OF USE (cont'd)							
16. Window sill at a maximum 750 mm from floor level	275.20	427.22	152.02	98.00	18.00	17.40	18.62
17. Window opening mechanism at 1050 mm from floor level and at a minimum of 300 mm from wall corner			0.00	0.00	0.00	0.00	0.00
18. Tandem locking system for the windows requiring two vertical locks	0.00	39.31	39.31	30.00	0.00	4.50	4.81
ADAPTABILITY							
19. In the clothes closets, two positions for adjustable rod and shelf: at 1200 mm and 1500 mm from floor level	0.00	27.13	27.13	3.20	17.50	3.11	3.32
Note: Cost for a bedroom to accommodate chest of drawers							
	Total		378.65	188.69	100.25	43.34	46.37

20. BEDROOM

ANOTHER EXAMPLE: BEDROOM TO ACCOMMODATE TWO SINGLE BEDS

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 865 mm door vs 750 mm	41.59	45.45	3.85	2.94	0.00	0.44	0.47
2. No threshold			0.00	0.00	0.00	0.00	0.00
3. 1500 mm diameter turning space near bed and near storage area			0.00	0.00	0.00	0.00	0.00
4. Minimum 900 mm clearance around bed			0.00	0.00	0.00	0.00	0.00
5. 600 mm clearance along wall at handle edge of door			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Ceiling fixture 100 lux lighting	0.00	62.12	62.12	25.90	21.50	7.11	7.61
7. Electric outlet connected to a switch near the door			0.00	0.00	0.00	0.00	0.00
8. Telephone jack close to an electric outlet	0.00	44.88	44.88	12.50	21.75	5.14	5.50
EASE OF USE							
9. Lever door handle vs round model	22.67	30.08	7.40	5.65	0.00	0.85	0.91
10. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
11. Wall thermostat at 1200 mm from floor level			0.00	0.00	0.00	0.00	0.00
12. Electric outlet at 450 mm from floor level			0.00	0.00	0.00	0.00	0.00
13. Electric outlets in sufficient quantity to facilitate furnishing			0.00	0.00	0.00	0.00	0.00
14. 200 lux lighting in the closet, switch on outside	0.00	41.94	41.94	10.50	21.50	4.80	5.14
15. D-shaped handle on closet doors			0.00	0.00	0.00	0.00	0.00

Total page 20.8

20. BEDROOM

ANOTHER EXAMPLE: BEDROOM TO ACCOMMODATE TWO SINGLE BEDS

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
EASE OF USE (cont'd)							
16. Window sill at a maximum 750 mm from floor level	275.20	427.22	152.02	98.00	18.00	17.40	18.62
17. Window opening mechanism at 1050 mm from floor level and at a minimum of 300 mm from wall corner			0.00	0.00	0.00	0.00	0.00
18. Tandem locking system for the windows requiring two vertical locks	0.00	39.31	39.31	30.00	0.00	4.50	4.81
ADAPTABILITY							
19. In the clothes closets, two positions for adjustable rod and shelf; at 1200 mm and 1500 mm from floor level	0.00	27.13	27.13	3.20	17.50	3.11	3.32
Note: Cost for a bedroom to accommodate two single beds							
	Total		378.65	188.69	100.25	43.34	46.37

20. BEDROOM

ANOTHER EXAMPLE: SECOND BEDROOM

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 865 mm door vs 750 mm	41.59	45.45	3.85	2.94	0.00	0.44	0.47
2. No threshold			0.00	0.00	0.00	0.00	0.00
3. 1500 mm diameter turning space near bed and near storage area			0.00	0.00	0.00	0.00	0.00
4. Minimum 900 mm clearance around bed			0.00	0.00	0.00	0.00	0.00
5. 600 mm clearance along wall on handle edge of door			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
6. Ceiling fixture 100 lux lighting	0.00	62.12	62.12	25.90	21.50	7.11	7.61
7. Electric outlet connected to a switch near the door			0.00	0.00	0.00	0.00	0.00
8. Telephone jack close to an electric outlet	0.00	44.88	44.88	12.50	21.75	5.14	5.50
EASE OF USE							
9. Lever door handle vs round model	22.67	30.08	7.40	5.65	0.00	0.85	0.91
10. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
11. Wall thermostat at 1200 mm from floor level			0.00	0.00	0.00	0.00	0.00
12. Electric outlet at 450 mm from floor level			0.00	0.00	0.00	0.00	0.00
13. Electric outlets in sufficient quantity to facilitate furnishing			0.00	0.00	0.00	0.00	0.00
14. 200 lux lighting in the closet, switch on outside	0.00	41.94	41.94	10.50	21.50	4.80	5.14
15. D-shaped handle on closet doors			0.00	0.00	0.00	0.00	0.00

Total page 20.10

20. BEDROOM

ANOTHER EXAMPLE: SECOND BEDROOM

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
EASE OF USE (cont'd)							
16. Window sill at a maximum 750 mm from floor level	275.20	427.22	152.02	98.00	18.00	17.40	18.62
17. Window opening mechanism at 1050 mm from floor level and at a minimum of 300 mm from wall corner			0.00	0.00	0.00	0.00	0.00
18. Tandem locking system for the windows requiring two vertical locks	0.00	39.31	39.31	30.00	0.00	4.50	4.81
ADAPTABILITY							
19. In the clothes closets, two positions for adjustable rod and shelf: at 1200 mm and 1500 mm from floor level	0.00	27.13	27.13	3.20	17.50	3.11	3.32
Note: Cost for second bedroom	Total		378.65	188.69	100.25	43.34	46.37

21. LIVING ROOM

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. Minimum living room dimensions 3000 x 3800 mm			0.00	0.00	0.00	0.00	0.00
2. 865 mm wide door or clear opening at least 810 mm			0.00	0.00	0.00	0.00	0.00
3. No threshold at interior doors			0.00	0.00	0.00	0.00	0.00
4. Bevelled 13 mm maximum threshold for exterior doors, where they exist			0.00	0.00	0.00	0.00	0.00
5. Minimum 900 mm horizontal clearance to move around furniture			0.00	0.00	0.00	0.00	0.00
6. 600 mm clearance along wall at handle edge of door, on the pull side			0.00	0.00	0.00	0.00	0.00
7. Where the living area communicates directly with a balcony or a terrasse, 1500 mm diameter turning space near the door			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
8. Ceiling fixture for minimum 100 lux lighting			0.00	0.00	0.00	0.00	0.00
9. Electric outlet connected to a switch near the entry	0.00	39.64	39.64	8.75	21.50	4.54	4.85
10. Telephone jack close to an electric outlet			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
11. Lever door handle vs round model, at 950 mm from floor level	22.67	30.08	7.40	5.65	0.00	0.85	0.91
12. Light switch at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
13. Wall thermostat at 1200 mm from floor level			0.00	0.00	0.00	0.00	0.00

Total page 21.2

21. LIVING ROOM

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
EASE OF USE (cont'd)							
14. Electric outlet at 450 mm from floor level			0.00	0.00	0.00	0.00	0.00
15. Electric outlets in sufficient quantity to facilitate furnishing			0.00	0.00	0.00	0.00	0.00
16. Window sill at 750 mm maximum from floor level			0.00	0.00	0.00	0.00	0.00
17. Handle to open window easy to manipulate			0.00	0.00	0.00	0.00	0.00
18. Tandem locking for windows requiring two vertical locks	0.00	39.31	39.31	30.00	0.00	4.50	4.81
Note: Cost for basic model							
	Total		86.36	44.40	21.50	9.89	10.58

22. BALCONY

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. Door with clear opening at least 810 mm			0.00	0.00	0.00	0.00	0.00
2. Bevelled 13 mm maximum threshold			0.00	0.00	0.00	0.00	0.00
3. On balcony, 1500 mm diameter turning space beyond the door swing	815.12	1087.70	272.58	124.00	84.00	31.20	33.38
4. On the inside, 1500 mm diameter turning space in front of the door			0.00	0.00	0.00	0.00	0.00
FONCTIONAL SAFETY							
5. Exterior 100 lux lighting			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
6. Transparent railing and handrail not blocking the view			0.00	0.00	0.00	0.00	0.00
7. Lever door handle vs round model	22.67	30.08	7.40	5.65	0.00	0.85	0.91
8. Lock at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
9. Light switch at 1050 mm from floor level, in the living area			0.00	0.00	0.00	0.00	0.00
Note: Cost for basic model							
	Total		279.98	129.65	84.00	32.05	34.29

23. STORAGE

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. a) Sliding doors providing clearance between 900 and 1500 mm			0.00	0.00	0.00	0.00	0.00
b) 1500 mm turning space, keep clearance of 810 mm			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
2. 200 lux lighting inside the storage area	0.00	85.84	85.84	22.50	43.00	9.83	10.51
3. Switch outside the storage area, at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
4. Swinging door: lever handle vs round model, at 950 mm from floor level	22.67	30.08	7.40	5.65	0.00	0.85	0.91
5. Sliding or folding door: D-shaped handle at 950 mm from floor level			0.00	0.00	0.00	0.00	0.00
Note: Cost for basic model							
	Total		93.24	28.15	43.00	10.67	11.42

23. STORAGE

ANOTHER EXAMPLE: STORAGE ROOM

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. b) 1500 mm turning space, keep clearance of 810 mm			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
2. 200 lux lighting inside the storage area			0.00	0.00	0.00	0.00	0.00
3. Switch outside the storage area, at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
4. Swinging door: lever handle vs round model, at 950 mm from floor level	22.67	30.08	7.40	5.65	0.00	0.85	0.91
6. 865 mm door vs 750 mm	41.59	45.45	3.85	2.94	0.00	0.44	0.47
7. No threshold			0.00	0.00	0.00	0.00	0.00
Note: Cost for a storage room							
	Total		11.25	8.59	0.00	1.29	1.38

23. STORAGE

ANOTHER EXAMPLE: LINEN CLOSET

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. b) 1500 mm turning space, keep clearance of 810 mm			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SECURITY							
2. 200 lux lighting inside the linen closet	0.00	85.84	85.84	22.50	43.00	9.83	10.51
3. Switch outside the linen closet, at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
4. Swinging door: lever handle vs round model, at 950 mm from floor level	22.67	30.08	7.40	5.65	0.00	0.85	0.91
5. Sliding or folding door: D-shaped handle at 950 mm from floor level			0.00	0.00	0.00	0.00	0.00
8. Linen closet inside, or near, bathroom			0.00	0.00	0.00	0.00	0.00
Note: Cost for a linen closet							
	Total			93.24	28.15	43.00	10.67
							11.42

23. STORAGE

ANOTHER EXAMPLE: CLOTHES CLOSET

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. a) Sliding doors providing clearance between 900 and 1500 mm			0.00	0.00	0.00	0.00	0.00
b) 1500 mm turning space, keep clearance of 810 mm			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
2. 200 lux lighting inside the clothes closet	0.00	85.84	85.84	22.50	43.00	9.83	10.51
3. Switch outside clothes closet, at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
4. Swinging door: lever handle vs round model, at 950 mm from floor level	22.67	30.08	7.40	5.65	0.00	0.85	0.91
5. Sliding or folding door: D-shaped handle at 950 mm from floor level			0.00	0.00	0.00	0.00	0.00
9. Rod and shelf adjustable in two positions: at 1200 mm and 1500 mm from floor level	0.00	30.08	30.08	4.95	18.00	3.44	3.68
Note: Cost for a clothes closet							
Total				123.32	33.10	61.00	14.11
							15.10

23. STORAGE

ANOTHER EXAMPLE: WALK-IN CLOSET

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. a) Sliding doors providing clearance between 900 and 1500 mm			0.00	0.00	0.00	0.00	0.00
b) 1500 mm turning space, keep clearance of 810 mm			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
2. 200 lux lighting inside walk-in closet			0.00	0.00	0.00	0.00	0.00
3. Switch outside walk-in closet, at 1050 mm from floor level			0.00	0.00	0.00	0.00	0.00
EASE OF USE							
4. Swinging door: lever handle vs round model, at 950 mm from floor level	22.67	30.08	7.40	5.65	0.00	0.85	0.91
5. Sliding or folding door: D-shaped handle			0.00	0.00	0.00	0.00	0.00
10. Swinging door 865 mm vs 750 mm	41.59	45.45	3.85	2.94	0.00	0.44	0.47
11. Minimal clear width of 900 mm on the inside			0.00	0.00	0.00	0.00	0.00
12. Rod and shelf adjustable in two positions: at 1200 and 1500 mm from floor level	0.00	27.13	27.13	3.20	17.50	3.11	3.32
Note: Cost for a walk-in closet							
	Total		38.38	11.79	17.50	4.39	4.70

24. LAUNDRY SPACE

BASIC MODEL

Characteristics	Cost		Additional cost	Details of Additional cost			
	Reference	Barrier-free		Materials	Labour	Adminis. & profits	Taxes
ACCESS AND TURNING SPACE							
1. 1500 mm diameter turning space in front of appliances			0.00	0.00	0.00	0.00	0.00
2. If provided, folding doors to allow access to total width of appliances			0.00	0.00	0.00	0.00	0.00
FUNCTIONAL SAFETY							
3. Directed 250 lux lighting on the appliances	0.00	100.58	100.58	33.75	43.00	11.51	12.32
EASE OF USE							
4. D-shaped handle at 950 mm from floor level			0.00	0.00	0.00	0.00	0.00
5. Switch at 1050 mm from floor level, outside the laundry space			0.00	0.00	0.00	0.00	0.00
6. Storage above the appliances at 1350 mm from floor level			0.00	0.00	0.00	0.00	0.00
Note: Cost for basic model							
Total				100.58	33.75	43.00	11.51
							12.32

24. LAUNDRY SPACE

ANOTHER EXAMPLE: LAUNDRY SPACE

Total page 24.3

24. LAUNDRY SPACE

ANOTHER EXAMPLE: LAUNDRY SPACE

APPENDIX 1

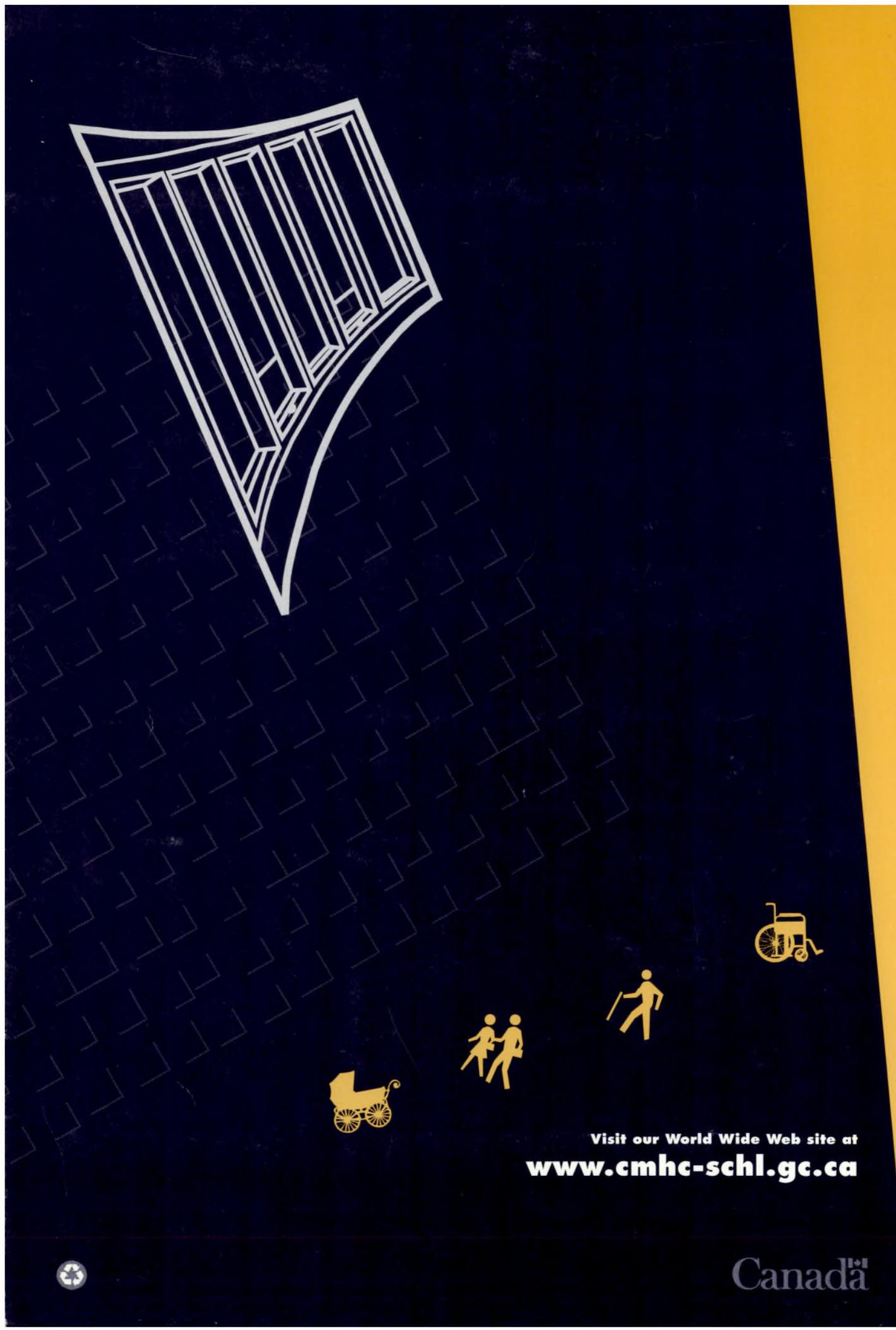
HOURLY LABOUR RATE

**Hourly labour rate in the construction industry, under laws in force in Québec as of
January 1, 1994**

Trade	Location	Rate without CSST and tools	Rate with CSST and tools
Brick-layer - mason	Exterior	\$30.45	\$37.13
	Interior	\$30.45	\$35.83
Tile installer	Exterior	\$30.45	\$27.13
	Interior	\$30.45	\$35.83
Carpenter	Exterior	\$29.92	\$36.48
	Interior	\$29.92	\$35.19
	Forms	\$29.92	\$35.89
Cement form-maker - cement pourer		\$29.57	\$33.78
Roofers		\$31.25	\$38.12
Iron worker		\$30.61	\$36.73
Crane operator - class A		\$30.01	\$33.01
Crane operator - class B		\$29.12	\$32.02
Elevator mechanic		\$34.52	\$38.54
Steel worker		\$31.66	\$39.62
Heavy equipment operator - class A		\$28.20	\$30.64
Heavy equipment operator - class B		\$27.53	\$29.91
Backhoe operator - class A		\$30.01	\$32.63
Backhoe operator - class B		\$29.12	\$31.65
Painter		\$28.03	\$32.94
Plasterer		\$29.45	\$34.63
Floor and wall finish installer		\$27.30	\$32.07
Interior system installer		\$29.92	\$35.19
Lock-smith		\$31.17	\$36.68
Joint-taper		\$28.96	\$34.05
Clerk		\$18.25	\$19.97

Trade	Location	Rate without CSST and tools	Rate with CSST and tools*
Truck driver - class A		\$25.42	\$27.59
Truck driver - class B		\$24.73	\$26.84
Truck driver - class C		\$24.44	\$26.52
Borer		\$27.14	\$29.65
Guard		\$14.19	\$15.47
Tools specialist		\$24.27	\$27.97
Unskilled labourer	Exterior	\$24.27	\$29.49
	Interior	\$24.27	\$28.47
	Forms	\$24.27	\$29.02
Skilled labourer	Exterior	\$24.93	\$30.30
	Interior	\$24.93	\$29.25
Skilled labourer (tile installer)	Exterior	\$25.42	\$30.47
	Interior	\$25.42	\$29.35
Lift operator - class A		\$27.72	\$30.47
Lift operator - class B		\$26.71	\$29.35
Welder		\$29.64	\$37.13

* A 5% allocation is included for small tools where required



Canada