



**THE DRAINAGE AND PLUMBING REGULATIONS 1978,
AMENDMENT NO. 1**

DAVID BEATTIE, Governor-General

ORDER IN COUNCIL

At the Government House at Wellington this 6th day of December 1982

Present:

HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL

PURSUANT to section 117 of the Health Act 1956, His Excellency the Governor-General, acting by and with the advice and consent of the Executive Council, hereby makes the following regulations.

ANALYSIS

- | | |
|--|---|
| 1. Title and commencement | 26. Installation and termination of ventilating pipes |
| 2. Interpretation | 27. Installation of soil pipes |
| 3. Laying of drains | 28. Size of waste pipes and soil pipes |
| 4. Size and gradients of drains | 29. Trapping of waste pipes |
| 5. Access to drains | 30. Ventilation of waste pipes |
| 6. Drains in or under buildings | 31. The one-pipe system of sanitary plumbing |
| 7. Drainage access areas | 32. Discharge units and minimum diameters of outlets of sanitary fixtures |
| 8. Gully traps | 33. Minimum diameters of foul-water drains in relation to discharge units |
| 9. Sealed gully traps | 34. Joints between pipes, and pipes and fittings |
| 10. Grease traps | 35. Numbers of sanitary fixtures in bars in licensed premises |
| 11. Sewage tanks and privies | 36. Numbers of wash-hand basins |
| 12. Sanitary fixtures to be provided | 37. Numbers of sanitary fixtures in industrial and commercial buildings |
| 13. Licensed premises | 38. Numbers of sanitary fixtures in places of public assembly |
| 14. Industrial and commercial premises | 39. Sanitary fixtures for the use of pupils in schools |
| 15. Schools | 40. General requirements relating to sanitary plumbing materials |
| 16. Specifications of certain sanitary rooms | 41. Minimum diameters of supply pipes from storage tanks to flush valves |
| 17. Isolation of soil fixture rooms | |
| 18. Flooring of sanitary rooms | |
| 19. Water-closet pans | |
| 20. Urinals | |
| 21. Urinal rooms | |
| 22. Pipes and pipe fittings | |
| 23. Traps | |
| 24. Junction fittings | |
| 25. Bends and offsets | |

REGULATIONS

1. Title and commencement—(1) These regulations may be cited as the Drainage and Plumbing Regulations 1978, Amendment No. 1, and shall be read together with and deemed part of the Drainage and Plumbing Regulations 1978* (hereinafter referred to as the principal regulations).

(2) These regulations shall come into force on the 14th day after the date of their notification in the *Gazette*.

2. Interpretation—(1) Regulation 2 (1) of the principal regulations is hereby amended by revoking the definition of the term “boardinghouse”.

(2) Regulation 2 (1) of the principal regulations is hereby amended by omitting from the definition of the term “building” the words “septic closet”, and substituting the word “privy”.

(3) Regulation 2 (1) of the principal regulations is hereby further amended by inserting, after the definition of the term “building”, the following definition:

“ ‘Carport’ means a building that consists of only a roof supported by columns, or by columns and 1 wall, so that at least 3 sides of the building are open to the air:”.

(4) Regulation 2 (1) of the principal regulations is hereby further amended by inserting, after the definition of the term “permit”, the following definition:

“ ‘Privy’ means any structure, not being a water-closet, within or beneath which is installed or fitted a receptacle for receiving liquid or solid excremental wastes:”.

(5) Regulation 2 (1) of the principal regulations is hereby further amended by inserting, after the definition of the term “permit”, the following definition:

“ ‘Residential institution’ has the same meaning as it has in section 636 (1) of the Local Government Act 1974:”.

(6) Regulation 2 (1) of the principal regulations is hereby further amended by revoking the definition of the term “septic closet”.

(7) Regulation 2 (1) of the principal regulations is hereby further amended by omitting from the definition of the term “sewage tank” the words “, not being a receptacle in a septic closet,”.

(8) Regulation 2 (1) of the principal regulations is hereby further amended by inserting, after the definition of the term “waste-water fixture”, the following definition:

“ ‘Water-closet’ means a compartment or room in which is installed or fitted a water-closet pan connected to a soil pipe or drain for conveying liquid or solid excremental wastes out of a building:”.

(9) The principal regulations are hereby further amended by omitting the word “boardinghouse” wherever it occurs in subclauses (2), (4), and (5) of regulation 34 and Table A in the Fourth Schedule, and substituting in each case the words “residential institution”.

3. Laying of drains—Regulation 12 (2) of the principal regulations is hereby amended by adding the words “except that the Engineer may in writing permit such a deviation for a stormwater drain or an effluent drain”.

4. Size and gradients of drains—Regulation 13 of the principal regulations is hereby amended by revoking subclauses (1) and (2), and substituting the following subclauses:

“(1) Every drain shall be at least 100 mm in diameter, except that, with the written approval of the Engineer, a stormwater drain, or an effluent drain for the disposal of effluent outside the legal boundaries of the premises on which the effluent is produced, may be installed with a diameter of less than 100 mm but not less than 80 mm.

“(2) Every stormwater drain and every effluent drain shall be laid at a gradient approved by the Engineer in writing.”

5. Access to drains—Regulation 17 of the principal regulations is hereby amended—

- (a) By inserting in subclause (1), after the words “stormwater drains”, the words “or effluent drains”;
- (b) By inserting in subclause (4), after the words “every stormwater drain”, the words “and every effluent drain”.

6. Drains in or under buildings—The principal regulations are hereby amended by revoking regulation 20, and substituting the following regulation:

“20. (1) No person shall—

“(a) Erect or extend a building over an existing disposal system; or

“(b) Except with the permission of the Engineer and subject to subclauses (2) to (4) of this regulation,—

“(i) Erect or extend a building over an existing drain or sewer; or

“(ii) Lay any drain under a building.

“(2) If the Engineer permits a drain to be laid under a building, or permits a building to be erected or extended over an existing drain or sewer the following conditions shall be complied with:

“(a) The drain shall be laid in a straight line, as far as is practicable, throughout the whole course of its passage under the building:

“(b) Drainage access areas shall be provided in accordance with regulation 21 of these regulations, subject to subclauses (1A) and (4) of that regulation:

“(c) The drain shall be provided with access for cleaning and inspection at external wall faces where it passes through or under the building:

“(d) Pipes used in the construction of the drain shall be approved, and laid, protected, and strengthened, as directed by the Engineer:

“(e) Whenever a drain passes through or under a foundation wall, foundation beam, or any other part of the building structure, the drain shall be separated from the structure by not less than 75 mm. This space shall be sealed with a flexible sealing material to prevent the entry of water or vermin.

“(3) Subclause (1) of this regulation shall not apply—

“(a) In respect of any drain and drainage fittings under a carport, an open verandah, an open covered way, or any part of a building cantilevered beyond its foundations which has a minimum clearance from the ground of 1.8 m; or

“(b) In respect of a drain laid in a straight line under a private detached garage, a domestic tool shed, or a relocatable school building supported on piles, if the drain is separated from the foundations of the building by a distance of at least 75 mm.

“(4) Subclause (1) of this regulation shall not apply in respect of a drain extending under a building from a perimeter wall for a distance not exceeding 1 m if paragraphs (d) and (e) of subclause (2) of this regulation are complied with.”

7. Drainage access areas—(1) Regulation 21 of the principal regulations is hereby amended by inserting, after subclause (1), the following subclause:

“(1A) Notwithstanding anything in subclause (1) of this regulation,—

“(a) Means of access to the drain may, with the written permission of the Engineer, be located in a soil fixture room instead of in a drainage access area:

“(b) The Engineer may permit in writing, subject to such conditions as he considers necessary, the installation of a sealed stormwater drain within or under a building.”

(2) Regulation 21 (2) of the principal regulations is hereby amended by omitting the expression “subclauses (3) and (4)”, and substituting the expression “subclause (3)”.

8. Gully traps—Regulation 23 (2) of the principal regulations is hereby amended by omitting the words “ground level”, and substituting the words “the dished top”.

9. Sealed gully traps—(1) Regulation 24 (a) of the principal regulations is hereby amended by adding the following proviso:

“Provided that ceramic ware may be used where the sealed gully trap is installed as a drainage fitting:”.

(2) Regulation 24 of the principal regulations is hereby further amended by revoking paragraph (d), and substituting the following paragraph:

“(d) Where a sealed gully trap is enclosed, a rodding eye shall be provided adjacent to the outlet of the trap.”

10. Grease traps—(1) Regulation 26 of the principal regulations is hereby amended by revoking subclause (2), and substituting the following subclause:

“(2) A grease trap connected to a foul-water drain shall, if so required by the Engineer in respect of any building other than a dwelling, be provided in an approved position for the reception of waste water from any waste pipe liable to convey grease.”

(2) Regulation 26 of the principal regulations is hereby further amended—

(a) By omitting from subclause (6) (c) the expression “74”, and substituting the expression “75”;

(b) By revoking subclause (6) (d).

11. Sewage tanks and privies—Regulation 32 of the principal regulations is hereby amended—

(a) By omitting from paragraphs (a), (b), (c), and (d) of subclause (1) the words “septic closet”, and substituting in each case the word “privy”;

(b) By omitting from paragraph (e) of that subclause all the words after the word “regulation” where it first occurs;

(c) By omitting from subclause (2) the words “septic closet”, and substituting the word “privy”;

- (d) By omitting from subclause (4) the words "and septic closet":
- (e) By revoking subclause (5):
- (f) By omitting from subclause (6) the words "septic closet" in both places where they occur, and substituting in each case the word "privy".

12. Sanitary fixtures to be provided—(1) Regulation 33 of the principal regulations is hereby amended—

- (a) By omitting from subclause (2) the words "another type of", and substituting the word "an":
- (b) By inserting in subclause (4), after the word "shower," the word "urinal,":
- (c) By inserting in subclause (5), after the words "waste-water fixture", the words ", other than a urinal,".

(2) Regulation 33 (5) of the principal regulations is hereby amended by adding the following proviso:

"Provided that, in any case where wash-hand basins are provided in a detached toilet building, the Engineer may exempt that building from the requirement to provide hot water where, in his opinion, it would be unreasonable to insist on the provision of hot water."

(3) Regulation 33 of the principal regulations is hereby further amended—

- (a) By inserting in subclause (6), after the words "of these regulations", the words ", other than a wash-hand basin in a private dwelling,":
- (b) By omitting from subclause (7) the words "Urban Renewal and Housing Improvement Act 1945", and substituting the words "Health Act 1956".

13. Licensed premises—Regulation 35 of the principal regulations is hereby amended by revoking subclause (7), and substituting the following subclause:

"(7) A cleaner's sink shall be provided on every floor on which sleeping accommodation is provided, and on all other floors of the premises in sufficient numbers so that no soil fixture room is more than 20 m from a cleaner's sink."

14. Industrial and commercial premises—(1) Regulation 36 (2) of the principal regulations is hereby amended by revoking paragraph (a), and substituting the following paragraph:

"(a) Except in a case to which subsection (3) or subsection (4) of section 39 of the Factories and Commercial Premises Act 1981 applies, a separate room containing the soil fixtures shall be provided for each sex:"

(2) Regulation 36 of the principal regulations is hereby further amended—

- (a) By omitting from subclause (2) (b) the word "also":
- (b) By omitting from subclause (2) (c) the expression "E", and substituting the expression "D".

(3) Regulation 36 of the principal regulations is hereby further amended by revoking subclause (3), and substituting the following subclause:

"(3) In any premises to which subclause (1) of this regulation applies, a cleaner's sink shall be provided on each floor on which more than 2 water-closet pans or urinals are provided."

15. Schools—Regulation 38 of the principal regulations is hereby amended by adding, as subclause (2), the following subclause:

“(2) At least 1 cleaner’s sink or other suitable waste-water fixture shall be provided on every floor in every school building, other than service buildings, relocatable buildings, and storage buildings, so that the maximum floor area to be served by 1 cleaner’s sink does not exceed 1500 m².”

16. Specifications of certain sanitary rooms—Regulation 39 of the principal regulations is hereby amended by revoking subclause (2), and substituting the following subclause:

“(2) Every room where a water-closet pan, urinal, bidet, bath, shower, or slop-sink is installed shall—

“(a) Have available illumination to a minimum intensity of 160 lx, measured at a point 900 mm above the centre of the floor:

“(b) Be ventilated to the external air by an opening window, a ventilating skylight, a ventilating duct, or other means, having an effective ventilating area equivalent to one-twentieth of the floor area of the room:

“Provided that—

“(i) Means of mechanical ventilation may be used so long as not less than 10 air changes per hour are achieved:

“(ii) The ventilating air shall be extracted from over or in the vicinity of the water-closet pan or urinal:

“(iii) The noise level created by the mechanical ventilating equipment in operation shall not exceed 40 dBA at the point of extraction.”

17. Isolation of soil fixture rooms—(1) Regulation 40 of the principal regulations is hereby amended by inserting in subclause (1), and also in subclause (2), after the words “soil fixture” in each case, the words “, urinal, or bidet”.

(2) Regulation 40 (1) of the principal regulations is hereby further amended by adding the following proviso:

“Provided that this subclause shall not apply to—

“(a) Playrooms in pre-school educational buildings; or

“(b) Hospital wards or hospital bedrooms.”

(3) Regulation 40 (2) of the principal regulations is hereby further amended by adding the following further proviso:

“Provided further that, where the soil fixture room opens directly into an internal passageway within a dwelling, the passageway need not be directly ventilated to the outside air.”

18. Flooring of sanitary rooms—Regulation 41 of the principal regulations is hereby amended—

(a) By adding to subclause (1) the words “, other than a room containing a single wash-hand basin, or a cafeteria or tearoom where only a single kitchen sink of less than 45 litres capacity is installed”:

(b) By omitting from subclause (3) the words “and, within the doorway, to a height of not less than 25 mm”.

19. Water-closet pans—(1) Regulation 43 of the principal regulations is hereby amended—

(a) By omitting from subclause (1) (c) the words “or septic closet”:

(b) By omitting from subclause (3) the words “shall be above the level of the floor of the room in which that fixture is installed, and”.

(2) Regulation 43 of the principal regulations is hereby further amended by adding the following subclause:

“(4) Nothing in subclause (1) (c) or subclause (3) of this regulation shall apply in respect of a soil fixture that has a concealed trap outlet and is connected to a soil pipe or drain by an approved method of jointing.”

20. Urinals—Regulation 46 (6) of the principal regulations is hereby amended by inserting, after the word “approval,” the words ‘in writing’.

21. Urinal rooms—Regulation 47 (1) of the principal regulations is hereby amended by inserting, after subclause (1), the following subclause:

“(1A) The floor outlet pipe from a urinal room shall, if the Engineer so requires, discharge beneath the grating of a gully trap, and it shall be installed in accordance with the requirements of regulation 78 of these regulations.”

22. Pipes and pipe fittings—Regulation 65 of the principal regulations is hereby amended by inserting, after the words “sound condition and”, the words “, unless otherwise permitted in writing by the Engineer, shall be”.

23. Traps—Regulation 66 (2) of the principal regulations is hereby amended—

(a) By inserting, after the words “Every trap”, the words “that is not an integral part of a water-closet pan or bidet”:

(b) By omitting the expression “40”, and substituting the expression “38”:

(c) By omitting from the proviso the expression “80”, and substituting the expression “76”.

24. Junction fittings—Regulation 68 of the principal regulations is hereby amended by revoking subclauses (1) and (2), and substituting the following subclause:

“(1) Every junction fitting in a soil or waste pipe, not being an unequal branch junction or a junction of 135° or more, shall be a curved junction provided with approved inspection or cleaning eyes at every change in direction in such positions as to be readily accessible for the proper cleaning of the pipe.”

25. Bends and offsets—Regulation 69 of the principal regulations is hereby amended by revoking subclauses (2) and (3).

26. Installation and termination of ventilating pipes—Regulation 72 (5) of the principal regulations is hereby amended by inserting, after the words “opening window” in both places where they occur, the words “or a ventilation grille”.

27. Installation of soil pipes—Regulation 73 of the principal regulations is hereby amended by revoking subclause (2), and substituting the following subclause:

“(2) Every soil pipe shall be made of a material specified in and conforming with the Sixth Schedule to these regulations.”

28. Size of waste pipes and soil pipes—Regulation 77 (5) of the principal regulations is hereby amended by inserting, before the word “No”, the words “unless the Engineer otherwise permits in writing”.

29. Trapping of waste pipes—Regulation 78 (5) of the principal regulations is hereby amended by adding the words “, into which that channel shall discharge”.

30. Ventilation of waste pipes—Regulation 80 of the principal regulations is hereby amended by inserting, after subclause (1), the following subclause:

“(1A) Notwithstanding anything in paragraphs (a) to (c) of subclause (1) of this regulation, where a trap shows a tendency to become unsealed, the Engineer may require the waste pipe to which that trap is connected to be ventilated with a ventilating pipe.”

31. The one-pipe system of sanitary plumbing—Regulation 85 (2) (a) of the principal regulations is hereby amended by revoking the second proviso, and substituting the following proviso:

“Provided further that, where the total discharge units of the foul-water fixtures to be discharged through the common discharge pipe exceed 50 percent of the discharge unit capacity of the discharge pipe and the lowest branch connection is less than 3 m above the drain or soil pipe, the common ventilating pipe shall be connected to the drain or soil pipe or at a high level in any manhole situated where the foul-water discharge pipe joins the drain:”.

32. Discharge units and minimum diameters of outlets of sanitary fixtures—(1) Table A in the Second Schedule to the principal regulations is hereby amended—

- (a) By omitting from the item “Urinal” the words “stall or bowl types”, and substituting the word “stalls”;
- (b) By omitting from the second column in respect of the item “One kitchen sink” the expression “50”, and substituting the expression “40”;
- (c) By omitting from the third column in respect of that item the expression “3”, and substituting the expression “2”.

(2) Table A in the Second Schedule to the principal regulations is hereby further amended by inserting, after the item “One kitchen sink”, the following items:

“One kitchen sink (of more than 45 litres)	...	50	3
“One cleaner’s sink	40	2
“One bowl type urinal	32	2.”

33. Minimum diameters of foul-water drains in relation to discharge units—Table C in the Second Schedule to the principal regulations is hereby amended by omitting from the seventh column the expression “3800”, and substituting the expression “3300”.

34. Joints between pipes, and pipes and fittings—Item 16 in the Third Schedule to the principal regulations is hereby amended by inserting, before the words “plastic sleeve”, the words “cast iron or”.

35. Numbers of sanitary fixtures in bars in licensed premises—Table C in the Fourth Schedule to the principal regulations is hereby amended by omitting the expression “32 (4)”, and substituting the expression “34 (4)”.

36. Numbers of wash-hand basins—Table D in the Fourth Schedule to the principal regulations is hereby amended by inserting, after the expression “Regs. 35 (6),”, the expression “36 (2) (c),”.

37. Numbers of sanitary fixtures in industrial and commercial buildings—Table E in the Fourth Schedule to the principal regulations is hereby amended by omitting the expression “Reg. 36 (1), (2) (c)”, and substituting the expression “Reg. 36 (1)”.

38. Numbers of sanitary fixtures in places of public assembly—Table G in the Fourth Schedule to the principal regulations is hereby amended—

- (a) By inserting in the second column in respect of the item “water-closet pans for females”, in its appropriate numerical order, the expression “1”;
- (b) By inserting in the third column in respect of that item, in its appropriate numerical order, the expression “50”;
- (c) By adding to the third column in respect of the item “Urinals” the words “up to 1000, beyond which the number of urinals shall be at a ratio of 1 to 100 persons or part thereof”.

39. Sanitary fixtures for the use of pupils in schools—(1) Part A of the Fifth Schedule to the principal regulations is hereby amended by omitting the item “Sanitary towel disposal units”, and substituting the following item:

“Sanitary towel disposal units 1 in every primary school having forms 1 and 2, and 1 in every intermediate school, and in every secondary school, for every 100 girls or part thereof, with a minimum of 1 unit in each toilet block for girls.”

(2) Part A of that Schedule is hereby further amended by omitting from paragraph 7 the words “is incorporated in the design of the sanitary plumbing”, and substituting the words “are provided”.

40. General requirements relating to sanitary plumbing materials—Part A of the Sixth Schedule to the principal regulations is hereby amended—

- (a) By revoking the item relating to drawn copper pipes:
- (b) By adding to the item relating to sheet lead the words “, except that, where it is used for roof flashing, it may weigh not less than 17 kg/m²”.

41. Minimum diameters of supply pipes from storage tanks to flush valves—Table B of the Seventh Schedule to the principal regulations is hereby amended by omitting from the heading to the first column the word “Maximum”.

EXPLANATORY NOTE

This note is not part of the regulations, but is intended to indicate their general effect.

These regulations are made pursuant to section 117 of the Health Act 1956, and amend the Drainage and Plumbing Regulations 1978.

Regulation 1 relates to the Title and commencement of the regulations.

Regulation 2 makes a number of changes to the interpretation provision of the principal regulations. It is no longer intended to make specific provisions for septic closets, and the definition of that term is dropped (subclause (4)). Subclauses (1) and (5) are consequential upon this change. The definition of the term "carport" is required by regulation 6 of these regulations, and the definitions of the terms "privy" and "water closet" assist in clarifying regulation 33 (2) of the principal regulations. The term "boardinghouse" is replaced by the term "residential institution", consequent upon changes in local government legislation.

Regulations 3 to 5 facilitate the introduction of the off-site disposal of septic tank effluent by a system known as effluent drainage servicing.

Regulation 6 rewords regulation 20 of the principal regulations, relating to the placing of drains under buildings, to make it clear that the general prohibition is not absolute but may be waived by the Engineer subject to certain specified conditions.

Regulation 7 relaxes in 2 specified respects the present requirements of regulation 21 of the principal regulations relating to the provision of drainage access areas.

Regulation 8 removes an apparent ambiguity in regulation 23 (2) of the principal regulations which would seem to allow a long extension to be added to a gully trap so long as the water seal was not more than 600 mm below ground level.

Regulation 9 amends in 2 respects the circumstances in which a sealed gully trap may be connected to a drain or soil pipe. At present, paragraph (a) prohibits the use of ceramic ware traps: subclause (1) allows such ware if the trap is fitted as a drainage fitting. The present paragraph (d) requires that the joint between the outlet of the trap and any drain or soil pipe is easily accessible. Subclause (2) substitutes a requirement that a rodding eye be provided adjacent to the outlet of the trap.

Regulation 10 makes a number of amendments to regulation 26 of the principal regulations relating to the provision of grease traps. Subclause (1) removes the present specific requirement to have a grease trap for the reception of waste water from any waste pipe liable to convey grease in premises where food is handled. Instead, a grease trap must be provided if so required by the Engineer. Subclause (2) (a) corrects an erroneous cross-reference in the present regulation, and subclause (2) (b) drops the present requirements relating to the positioning of the joint between the outlet of the grease trap and the foul-water discharge pipe.

Regulation 11 is consequential upon the omission of specific provisions relating to septic closets.

Regulation 12 amends regulation 33 of the principal regulations relating to sanitary fixtures. Subclauses (1) (a) and (3) (b) are of a consequential drafting nature only. Subclause (1) (b) ensures privacy for the user of a urinal, and subclause (1) (c) makes it clear that a urinal does not have to be fitted with hot water. Subclause (2) allows the Engineer to waive the requirement for the provision of hot water in wash-hand basins in specified circumstances. Subclause (3) (a) makes it clear that certain requirements relating to wash-hand basins do not apply to those installed in private dwellinghouses.

Regulation 13 rewrites regulation 35 (7) of the principal regulations relating to the provision of cleaners' sinks in licensed premises. The change ensures that sufficient sinks are provided in large single-storeyed premises as well as multi-storeyed premises.

Regulation 14 amends regulation 36 of the principal regulations relating to the provision of sanitary fixtures in industrial and commercial premises. Subclause (1) is consequential upon the Factories and Commercial Premises Act 1981 which waives the requirement for separate toilet facilities for each sex where not more than 10 persons are employed. Subclause (2) (a) leaves it open in appropriate circumstances for water-closet pans to be used for the disposal of sanitary towels, without requiring a separate facility. Subclause (2) (b) corrects an erroneous cross-reference in the present regulation. Subclause (3) requires the provision of a cleaner's sink on any floor on which there are more than 2 water-closet pans or urinals.

Regulation 15 requires cleaners' sinks to be installed in schools. This requirement is new.

Regulation 16 rewrites regulation 39 (2) of the principal regulations, relating to standards of ventilation required in respect of certain sanitary rooms. The new provision is extended to apply to rooms containing bidets and slop-sinks. It is made clear that ventilation must be to the outside air. The effective ventilating area is related to the floor area instead of being expressly prescribed, and a new efficiency rating is prescribed for mechanical means of ventilation.

Regulation 17 amends regulation 40 of the principal regulations relating to the isolation of soil fixture rooms. Subclause (1) corrects an accidental omission in the present regulation. Subclause (2) recognises the need for supervision of toilet facilities in use by preschool children or hospital patients. Subclause (3) relaxes some of the present requirements relating to the ventilation of soil fixture rooms in recognition of the present emphasis on conservation of energy.

Regulation 18 amends regulation 41 of the principal regulations relating to flooring of sanitary rooms. Paragraph (a) excludes hotel bedrooms and small cafeteria or tearooms from the requirements of the present regulation. Paragraph (b) removes the present requirement of coving in the doorway of sanitary rooms.

Regulation 19 amends regulation 43 of the principal regulations relating to the provision of water-closet pans. Subclause (1) (a) is consequential upon the omission of separate provisions for septic closets. Subclause (1) (b) omits the requirement that the joint between the trap and a soil pipe or a drain of a water-closet pan be above the level of the floor. The requirement that the joint be easily accessible remains.

Subclause (2) allows for a new design of fixture that does not have an easily accessible outlet. The design is satisfactory if the method of connection is appropriate, and the subclause provides for the approval of the connection by an Engineer.

Regulation 20 amends regulation 46 (6) of the principal regulations to make it clear that the Engineer's consent to the installation of bowl-type urinals under that provision must be given in writing.

Regulation 21 inserts a new subclause in regulation 47 of the principal regulations empowering the Engineer to require that the floor outlet pipe of a urinal room discharge beneath the grating of a gully trap.

Regulation 22 allows the Engineer to permit the use of pipes and pipe fittings made of materials that would not otherwise be authorised under the principal regulations.

Regulation 23 amends regulation 66 of the principal regulations relating to traps used in sanitary plumbing. Paragraph (a) excludes from the specifications relating to water seals traps that form an integral part of a water-closet pan or bidet. Paragraphs (b) and (c) bring those specifications into line with the sizes of equipment presently in use in New Zealand.

Regulation 24 excludes from the requirements of regulation 68 of the principal regulations, relating to junction fittings in soil pipes or waste pipes, unequal branch junctions and junctions of 135° or more.

Regulation 25 revokes subclauses (2) and (3) of regulation 69 of the principal regulations to bring the regulation into line with New Zealand Standard specifications for copper bends.

Regulation 26 relates to the positioning of ventilating pipes. Regulation 72 (5) of the principal regulations requires the top of such a pipe to be at least 1.5 metres away from any opening window situated below the top of the pipe. This amendment makes the same requirement in respect of ventilation grilles.

Regulation 27 removes a duplication in the present regulations.

Regulation 28 empowers the Engineer to vary in particular cases the requirements of regulation 77 (5) of the principal regulations relating to the diameter and gradient of soil pipes and waste pipes.

Regulation 29 corrects an accidental omission in regulation 78 (5) of the principal regulations.

Regulation 30 enables the Engineer to take action where a trap that is constructed in accordance with the regulations nevertheless fails to prevent foul gases from entering a building. In such cases, he may require the waste pipe to be fitted with a ventilating pipe.

Regulation 31 amends regulation 86 (2) of the principal regulations relating to the standards to be met where a one-pipe system of sanitary plumbing is used. The amendments bring the provisions more into line with international standards.

Regulations 32 to 41 amend in various respects the detailed specifications set out the Schedules to the principal regulations.

Issued under the authority of the Regulations Act 1936.

Date of notification in *Gazette*: 9 December 1982.

These regulations are administered in the Department of Health.