

**BUILDING CODE
RECOMMENDED BY THE
NATIONAL BOARD OF
FIRE UNDERWRITERS**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649405947

Building Code Recommended by the National Board of Fire Underwriters by C. G. Smith

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

C. G. SMITH

**BUILDING CODE
RECOMMENDED BY THE
NATIONAL BOARD OF
FIRE UNDERWRITERS**

NOTE:

Attention is called to the fact that certain sections of this code, such as reinforced concrete and allied subjects in which the art of construction has advanced rapidly since the code was written, are in need of revision to bring them more in harmony with present practice. This work is in progress but will take some time to complete.

BUILDING CODE

RECOMMENDED BY

The National Board of Fire Underwriters

135 WILLIAM STREET, NEW YORK

Providing for all matters concerning, affecting or relating
to the construction, alteration, equipment, repair
or removal of buildings or structures
erected or to be erected

THIRD EDITION—1909

NEW YORK:
James Kempster Printing Company
117-119 Liberty Street
1909

Eng 101 9.5

Harvard University,
Dept. of Social Ethics.

HARVARD COLLEGE LIBRARY
TRANSFERRED FROM THE
LIBRARY OF THE
DEPARTMENT OF SOCIAL ETHICS

CONTENTS.

For Alphabetical Index see end of book.

THE BUILDING CODE.

PART I.

SHORT TITLE OF THIS ORDINANCE. A REMEDIAL ORDINANCE.

| Sec. | | Page |
|------|--|------|
| 1. | This Ordinance to be known and cited as the Building Code..... | 11 |
| 2. | Building Code, a Remedial Ordinance..... | 11 |

PART II.

PRELIMINARY REQUIREMENTS.

| | | |
|----|--|----|
| 3. | New Buildings and Buildings to be Altered..... | 12 |
| 4. | Filing Plans and Statements..... | 12 |
| 5. | Demolishing Buildings..... | 15 |

PART III.

DEFINITIONS.

| | | |
|-----|--|----|
| 6. | Measurement of Height for Buildings and Walls..... | 16 |
| 7. | Measurement for Width and Depth of Buildings..... | 17 |
| 8. | Private Dwelling, Definition of..... | 17 |
| 9. | Apartment House, Definition of..... | 17 |
| 10. | Tenement House, Definition of..... | 18 |
| 11. | Lodging House, Definition of..... | 19 |
| 12. | Hotel, Definition of..... | 19 |
| 13. | Office Building, Definition of..... | 20 |
| 14. | Frame Building, Definition of..... | 20 |

PART IV.

QUALITY OF MATERIALS.

| | | |
|-----|---|----|
| 15. | Brick, Sand..... | 21 |
| 16. | Lime Mortar, Cement Mortar, and Cement and Lime Mortar..... | 21 |
| 17. | Cements..... | 22 |
| 18. | Concrete..... | 23 |
| 19. | Quality of Timber..... | 23 |
| 20. | Tests of New Materials..... | 24 |
| 21. | Structural Material..... | 24 |

PART V.

EXCAVATIONS AND FOUNDATIONS.

| | | | |
|------|-----|---|----|
| Sec. | 22. | Excavations, Adjoining Walls, Retaining Walls.. | 25 |
| " | 23. | Bearing Capacity of Soil..... | 28 |
| " | 24. | Pressure Under Footings of Foundations..... | 29 |
| " | 25. | Foundations, Piles, etc..... | 30 |
| " | 26. | Foundation Walls..... | 33 |

PART VI.

WALLS, PIERS AND PARTITIONS.

| | | | |
|------|-----|---|----|
| Sec. | 27. | Materials of Walls..... | 36 |
| " | 28. | Walls and Piers..... | 36 |
| " | 29. | Mortar for Walls and Ashlar..... | 40 |
| " | 30. | Limiting the Height of Buildings..... | 40 |
| " | 31. | Walls for Dwelling House Class..... | 41 |
| " | 32. | Walls for Warehouse Class..... | 44 |
| " | 33. | Partition Walls or Girders and Columns, Floor Areas..... | 47 |
| " | 34. | Increased Thickness of Walls for Buildings More than 105 Feet in Depth, Reduced Thickness, etc. | 51 |
| " | 35. | Height of Stories, Meaning of Stories..... | 52 |
| " | 36. | Inclosure Walls for Skeleton Structures..... | 53 |
| " | 37. | Curtain Walls..... | 54 |
| " | 38. | Existing Party Walls..... | 54 |
| " | 39. | Lining Existing Walls..... | 55 |
| " | 40. | Walls of Unfinished Buildings..... | 55 |
| " | 41. | Walls Tied, Anchored and Braced..... | 56 |
| " | 42. | Arches and Lintels..... | 57 |
| " | 43. | Parapet Walls..... | 58 |
| " | 44. | Hollow Walls..... | 58 |
| " | 45. | Hollow Bricks on Inside of Walls..... | 59 |
| " | 46. | Recesses and Chases in Walls..... | 59 |
| " | 47. | Furred Walls..... | 60 |
| " | 48. | Light and Vent Shafts..... | 60 |
| " | 49. | Brick and Hollow Tile Partitions..... | 61 |
| " | 50. | Cellar Partitions in Residence Buildings..... | 62 |
| " | 51. | Main Stud Partitions..... | 63 |
| " | 52. | Timber in Walls Prohibited..... | 63 |

PART VII.

APARTMENT HOUSES AND TENEMENT HOUSES.

| | | | |
|------|-----|---|----|
| Sec. | 53. | Apartment Houses and Tenement Houses..... | 63 |
|------|-----|---|----|

PART VIII.

VAULTS, AREAWAYS AND CELLARS.

| | | |
|------|--|----|
| Sec. | 54. Cellars to be Connected with Sewers..... | 80 |
| " | 55. Vaults Under Sidewalks..... | 80 |
| " | 56. Areways | 81 |
| " | 57. Cellar Floors..... | 81 |
| " | 58. Cellar Ceilings..... | 82 |

PART IX.

WOOD BEAMS, GIRDERS AND COLUMNS.

| | | |
|------|--|----|
| Sec. | 59. Wood Beams | 82 |
| " | 60. Anchors and Straps for Wood Beams and Girders..... | 85 |
| " | 61. Wood Columns and Plates..... | 86 |
| " | 62. Timber for Trusses..... | 87 |
| " | 63. Mill Construction..... | 88 |

PART X.

CHIMNEYS, FLUES, FIREPLACES AND HEATING PIPES.

| | | |
|------|--|----|
| Sec. | 64. Trimmer Arches..... | 89 |
| " | 65. Chimneys, Flues and Fireplaces | 89 |
| " | 66. Chimney Supports | 92 |
| " | 67. Chimneys of Cupolas..... | 93 |
| " | 68. Hot Air Flues, Pipes and Vent Ducts..... | 93 |
| " | 69. Steam and Hot Water Heating Pipes | 96 |

PART XI.

GENERAL CONSTRUCTION.

| | | |
|------|--|-----|
| Sec. | 70. Ducts for Pipes..... | 97 |
| " | 71. Studded-off Spaces..... | 98 |
| " | 72. Sheathing and Wainscoting, Cock Lofts..... | 98 |
| " | 73. Bay, Oriel and Show Windows..... | 100 |

PART XII.

STAIRS AND ENTRANCES.

| | | |
|------|---|-----|
| Sec. | 74. Entrance to Basement..... | 100 |
| " | 75. Stairs, Number Regulated by Area of Building.. | 100 |
| " | 76. Engineers' Stationary Ladders | 101 |
| " | 77. Slate and Stone Treads of Stairs to be Supported. | 102 |

PART XIII.

SKYLIGHTS AND FLOOR-LIGHTS.

| | | |
|------|---|-----|
| Sec. | 78. Skylights, Floor-lights | 102 |
| " | 79. Unprotected Openings in Floors and Roofs..... | 104 |

PART XIV.

INCLOSURE AND SHED COVERINGS FOR THE PROTECTION OF
PEDESTRIANS—PROTECTION OF PERSONS EMPLOYED ON
BUILDINGS.

| | | | |
|------|-----|---|-----|
| Sec. | 80. | Inclosure and Shed Coverings for the Protection of Pedestrians..... | 104 |
| " | 81. | Protection of Persons Employed on Buildings ... | 107 |

PART XV.

MISCELLANEOUS BUILDINGS.

| | | | |
|------|-----|--|-----|
| Sec. | 82. | Grain Elevators, Coal Pockets, Ice Houses, Pier Sheds..... | 108 |
| " | 83. | Exhibition Buildings..... | 109 |
| " | 84. | Smoke Houses..... | 109 |

PART XVI.

HEATING APPARATUS, DRYING ROOMS, GAS AND WATER PIPES.

| | | | |
|------|-----|---|-----|
| Sec. | 85. | Heating Furnaces and Boilers..... | 110 |
| " | 86. | Registers..... | 112 |
| " | 87. | Drying Rooms..... | 113 |
| " | 88. | Ranges and Stoves..... | 113 |
| " | 89. | Notice as to Heating Apparatus..... | 115 |
| " | 90. | Gas and Water Pipes, Electrical Work..... | 115 |

PART XVII.

ROOFS, LEADERS, CORNICES, BULKHEADS, SCUTTLES AND TANKS.

| | | | |
|------|-----|---|-----|
| Sec. | 91. | Mansard Roofs..... | 117 |
| " | 92. | Cornices and Gutters..... | 118 |
| " | 93. | Bulkheads on Roofs and Scuttles..... | 119 |
| " | 94. | Tanks..... | 120 |
| " | 95. | Roofing and Leaders Within the Fire Limits..... | 120 |

PART XVIII.

ELEVATORS, HOISTWAYS AND DUMBWAITERS, STAIR HALL INCLOSURES.

| | | | |
|------|------|--|-----|
| Sec. | 96. | Elevators and Hoistways..... | 122 |
| " | 97. | Elevator Inclosures..... | 122 |
| " | 98. | Dumbwaiter Shafts..... | 125 |
| " | 99. | Elevators in Existing Hotels..... | 126 |
| " | 100. | Screen Under Elevator Sheaves..... | 126 |
| " | 101. | Inspection, Installation, Alteration and Operation of Elevators..... | 127 |
| " | 102. | Stair Hallway Inclosures..... | 128 |