

Introduction	5
1. FOUNDATIONS AND GROUND FLOORS	9
1.01. Construction ground.....	10
1.02. Building foundations: general information	12
1.03. Foundations by an existing neighboring building	14
1.04. Intermediate foundations: piles and shafts.....	16
1.05. Ground floor damp proofing and waterproofing systems	17
1.06. The sequence of work for constructing foundations and waterproofing	20
1.07. Waterproofing in newly-erected buildings	22
1.08. Waterproofing in renovation of old buildings	23
1.09. Waterproof concrete	25
1.10. Drainage systems	28
1.11. Thermal insulation in the ground floor zone	31
1.12. External stairs to a basement, constructed independently of the building	36
1.13. Basement windows in shafts below the ground level.....	37
1.14. Outside stairs to a building.....	38
1.15. Landings at recessed entrance doors	40
1.16. Entrances to garages at basement level.....	41
1.17. Floor layers in basement rooms.....	42
1.18. Layers of garage driveways	43
1.19. Retaining walls joining a basement wall.....	44
1.20. Ground slabs	46
1.21. Ventilated ground slabs	47
1.22. Full terraces constructed directly on the ground	48
1.23. Openwork terraces of boards on a raised wooden structure	49
1.24. Wooden terraces platforms on a flat roof above a basement	50
2. CONSTRUCTION AND INSULATING TECHNOLOGIES FOR OUTER WALLS	51
2.00. Outer walls: general information	52
2.01. Single-layer masonry walls	59
2.02. Double-layer masonry walls insulated using the "light-wet" method	73
2.03. Double-layer masonry walls with ventilated facades.....	89
2.04. Triple-layer masonry cavity walls	97
2.05. Light frame walls	111
2.06. Other systems and technologies for the construction of walls	147

3.	FLOORINGS, FLOORS, STAIRS	159
3.01.	Floorings and floors: general information	160
3.02.	Reinforced-concrete slab floorings	161
3.03.	Floorings of prefabricated reinforced-concrete components	162
3.04.	Floorings of corrugated metal sheets and concrete slab	164
3.05.	Suspended beam-and-block floorings	166
3.06.	Monolithic reinforced-concrete steps: combining slab flooring with beam-and-block flooring	169
3.07.	Steel structure stairs	170
3.08.	Prefabricated stairs and glass stairs	171
3.09.	Floors on a solid flooring	172
3.10.	Raised floors	174
3.11.	Dry subfloors	176
3.12.	Wooden beam floorings	177
3.13.	Floorings in wooden frame buildings	179
3.14.	Wood floor systems and beam dimensions	180
3.15.	Wooden stairs	181
4.	WINDOWS, DOORS, GATES, GLAZED CURTAIN WALLS	185
4.01.	Outer windows and doors: general information	186
4.02.	Window types	189
4.03.	Exterior shutters	194
4.04.	Window fitting and sealing in a reveal	195
4.05.	Skylights	200
4.06.	Garage doors	204
4.07.	Glazed curtain walls	205
5.	PITCHED ROOFS	219
5.01.	Pitched roofs: general information	220
5.02.	Roof structures	221
5.03.	Thermal insulation of pitched roofs	252
5.04.	Roof slope ventilation	262
5.05.	Attic solutions	266
5.06.	Pitched roof tiling	274
5.07.	Pitched roofs covered with metal pans	287
5.08.	Gypsum board attic partitioning	296
5.09.	Water drainage from pitched roofs	300
5.10.	Ventilation and chimney systems	301

6.	FLAT ROOFS, TERRACES, BALCONIES	305
6.01.	Flat roofs: general information	306
6.02.	Two-level flat roofs	320
6.03.	Two-level inverted flat roofs	331
6.04.	Green flat roofs	336
6.05.	Ventilated flat roofs	340
6.06.	Balconies	348
7.	INTERIOR FINISH	353
7.01.	Drywall partitioning: general information	354
7.02.	Wall cladding	356
7.03.	Partition walls	358
7.04.	Inner doors	362
7.05.	Ceiling cladding and suspended ceilings	364