

Building a Deck

Table of Contents

Introduction.....	2
How to Use This Book.....	4
CHAPTER ONE: Decks.....	6
Producing Plans.....	8
Design Considerations.....	16
Estimating Size and Cost.....	23
CHAPTER TWO: Building the Foundation.....	26
Choosing a Foundation.....	28
Sizing Footings.....	31
Layout.....	33
Excavation.....	37
Forms for Footings and Piers.....	39
Pouring the Foundation.....	44
CHAPTER THREE: Framing-Ledgers, Posts, and Beams.....	50
Planning the Ledger.....	52
Attaching the Ledger.....	54
Flashing the Ledger.....	59
Designing and Sizing Beams and Posts.....	61
Installing Posts and Beams.....	67
CHAPTER FOUR: Joists.....	78
Laying Out and Installing Joists.....	80
Joist Details.....	85
Special Framing Techniques.....	91
CHAPTER FIVE: Decking.....	98
Choosing Decking.....	100
Fasteners.....	105
Installing Decking.....	107
Finishing the Decking.....	112
CHAPTER SIX: Railings.....	118
Designing a Railing System.....	120
Installing Posts.....	125
Building a Balustrade.....	133
Railing Options.....	141

CHAPTER SEVEN: Stairs and

Ramps.....	144
Stair Location and Configuration.....	146
Stair Layout.....	148
Laying Out and Cutting Stringers.....	150
Stair Railings.....	154
Landings and Ramps.....	158

CHAPTER EIGHT: Special Cases and

Custom Details.....	160
Benches and Planters.....	162
Lighting.....	168
Trellises.....	170
Building a Roof Deck.....	172
Ground-Level Details.....	176

Appendix.....	178
Resources.....	179
Photo Credits.....	182
Index.....	183