

C O N T E N T S

Foreword 10

Introduction 11

1 The Classical Influence 13

2 Before You Begin 25

actions with negative results 25 expert advice 29 research 29
like with like 29 reversible intervention 30 repair rather than replace 30
finding the right people to do the work 30 parallel technologies 31

3 The Single-storey Vernacular House 32

direct-entry houses 36 lobby-entry houses 37
the conservation and repair of vernacular buildings 39
roofs 40 roof timbers 41 slates 42

4 Understanding the Process 43

the building of a two-storey eighteenth-/nineteenth-century house 43
preliminaries 44 setting out 46 sub-structure 46 superstructure 47
internal finishes 60

5 Geology 63

igneous 64 sedimentary 65 limestone 66 sandstones 66
metamorphic stones 67

6 Stonecutting 69

cutting rubble stone 70 quoin stone 73 cutting a chamfer 77
curved work 79 columns 80 balls 82

7 Arches 85

romanesque 85 gothic 86 arches – setting out 87 semi-circular arches 88
segmental arches 91 gothic arch 94 camber arch 95

8 Quarrying 98

rubble quarries 98 dimension stone quarryies 100

9 Stonemasonry 104

anatomy of a stone wall 104 double walls 108 through- and
bond-stones 108 cores or hearting 109 quoin stones 110 face bond 110
bed bonding 111 mortar joints and pinnings 111 natural bedding 113

balance 113 lime mortars 114 sequence of construction 114

10 Quantities and Estimating 115

quantities 116 estimating 122

mortar 123 rubble walling 125 internal plasterwork 127

daubing out 128 laths 129 external rendering 130 pointing 131

11 The Gobán Saor 133

12 Lime 136

hot lime mortars 141 making hot lime mortars 142

lime putty 145 making lime putty mortars 145

13 Pointing 148

micro and macro climates 148 pointing procedure for rubble work 154

incorrect styles and materials for pointing 157

ashlar pointing 159

14 Plastering 162

common mixes 162 pointing (internally) 163

15 External Rendering 169

wet dash 170 ruled ashlar 173

16 Limewashing 175

how to limewash 177 pigments 178 tools and equipment 179

application 180

17 Reading and Recording Buildings 181

materials 181 reading the structure 187 recording buildings 191

Useful Information 205

Charters/Declarations 209

Glossary 211

Bibliography 218