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BRICKWORK 2

AND ASSOCIATED STUDIES

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Second Edition

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CONTENTS

<i>Preface</i>	vii	6. Cavity Walling	33
<i>Foreword: Safety in Building</i>	viii	Wall ties	33
		Termination at eaves level	34
		Cleaning cavities	34
1. Solid Ground Floors	1	Thresholds	35
Building regulations	2	Window openings and window frames	35
Adjoining solid/hollow floors	4	Capillary action	38
Floor screeds	5	Window sills	38
Concrete flooring	7	Reveals	41
Granolithic flooring	7		
Comparison of hollow timber floors and solid floors	7	7. Bridging Openings	44
		Lintels	44
2. Bonding Brickwork: Patterns	8	Damp-proof courses	54
General terms	8	Beam reactions	54
Types of bond	9	Arches	58
Decorative face bonds	11	Areas of arches	67
		8. Piers	71
3. Bonding Brickwork: Applications	15	Types of pier	71
Tee-junction walls	15	Copings and caps	71
Intersecting walls	15	Parapet walls	78
Return angles	15	Cutting to rake	78
Broken bond	15		
		9. Squint quoins	82
4. Construction of Walls	22	Types of quoin	82
Use of aids	22	Bonds for curved walls	83
Temporary termination of walls	22	Erecting curved walls	85
Forming tee-junction walls	24	Forming circular ramps	89
Tying to existing walls	25		
Bricklaying	26	10. Separating Walls	92
		Building Regulations	92
5. Efficiency in Bricklaying	28	Floor joists	92
Productivity	28	Fire stops	96
Jointing and pointing brickwork	29		

11. Fireplaces, Flues, Stacks and Appliances	97	12. Blockwork and Partition Walls	124
Building Regulations	97	Blocks	124
Construction of fireplaces and flues	99	Construction of block walls	126
Fixing fireplaces and appliances	104	Density	131
Condensation in flues	114		
Transfer of heat	115	<i>Multiple Choice Questions</i>	133
Thermal insulation	117	<i>Answers to Multiple Choice Questions</i>	136
Sound insulation	121	<i>Index</i>	137

PREFACE

This series of three volumes is designed to provide an introduction to the brickwork craft and the construction industry for craft apprentices and all students involved in building. All too often, new entrants to the construction industry are expected to have a knowledge of calculations, geometry, science and technology irrespective of their previous education. It is the authors' aim to provide a course of study which is not only easily understood but is also able to show the relationship that exists between technology and associated studies.

The construction industry recognises that the modern craftsman, while maintaining a very high standard of skills, must be capable of accepting change — in methods, techniques and materials. Therefore it will be necessary for apprentices to develop new skills related to the constant advancements in technology.

This second volume contains the basic knowledge necessary for the creative skills to be mastered by the apprentice. All elements contained within the superstructure are fully described and illustrated to the standard now required in modern building practice. Each chapter covers all the necessary information for the apprentice studying for examinations, and also for the improvement of his knowledge and understanding.

The authors, recognising the necessity for an improvement in efficiency and productivity, suggest that the apprentice should always have these factors as his objectives throughout his career in the construction industry.

HAROLD BAILEY
DAVID HANCOCK

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FOREWORD: SAFETY IN BUILDING

There were almost 20,000 reportable injuries (those injuries involving more than three days' absence from work) in the Building Industry between April 1987 and April 1988, including over 150 deaths.

The authors appreciate this opportunity to bring these appalling figures to the immediate attention of apprentice bricklayers, and at the same time to remind them of their responsibilities, as well as those of their employers.

The *Health and Safety at Work Act 1974* became effective in 1982. This Act made further provision to the existing *Construction Regulations* for ensuring the health, safety and welfare of persons at work, and may be briefly summarised as follows:

An employer must ensure as far as practicable

1. The health, safety and welfare of his employees while at work.
2. The provision, and maintenance of safe plant and systems of work.
3. Information, instruction, training and supervision as necessary.
4. A safe place of work.

While at work an employee must

1. Take reasonable care of the health and safety of himself and all other persons who may be affected by his acts or omissions.
2. Co-operate fully with management in all health and safety matters.
3. Not interfere with, or misuse anything provided in the interests of health and safety.