

Table of contents

- Preface
- Acknowledgements
- Introduction
- The frame Knowledge of new materials
- Principles of jointing Forces moving water through an opening
- Segmentation of the air space Air seal on inner face
- Development of 'high tech'
- References
- 1 Precast concrete cladding
- Introduction
- Design guides
- Standardization and adjustable moulds
- Types of mould
- Casting method
- Tolerances Handling of units during transportation and on site
- Shape of precast concrete cladding panels
- Jointing Panel fixings
- Finishes
- Weathering References
- 2 Terracotta and brick slips
- Production of terracotta
- History of terracotta tiles
- Examples of use of terracotta
- Terracotta systems
- Development of tile size and finish
- Brick slip systems References
- 3 Glass-reinforced polyester
- Introduction
- GRP production
- GRP cladding in use
- Standardization of components
- Fire resistance
- Weathering
- Surface finish
- Panel stiffening Jointing
- Thermal expansion
- Fixings
- Conclusion
- References
- 4 Glass-fibre-reinforced cement
- The material and its advantages
- Production methods
- Insulated panels
- Finishes

- **Performance characteristics**
- **Types of cladding**
- **Jointing Fixings**
- **Panel discussions and tolerances**
- **Handling of units on site and storage**
- **Conclusion**
- **References and further reading**
- **5 Formed metal including profiled metal**
- **Forming of metal**
- **Profiled metal cladding and roof decking**
- **The industry Design guidance**
- **Method of manufacture**
- **Relevant standards**
- **Finishes for metal sheeting**
- **Performance criteria**
- **Installation**
- **References and further reading**
- **6 Sheet metal, composite metal panels, and rain screens**
- **Introduction**
- **Composite metal panels**
- **Rolled sheet panels**
- **Rain screen panels**
- **Finishes**
- **Proprietary systems and their fixing**
- **Aspect II**
- **References and further reading**
- **7 Curtain walling - glazing systems**
- **Definition**
- **Patent glazing**
- **Metal box framing**
- **Fire resistance**
- **Suspended glass assemblies**
- **Silicone-bonded glazing**
- **Glass**
- **References and further reading**
- **8 Timber Cladding**
- **Introduction**
- **The material and its properties**
- **Anisotropy**
- **Sensitivity to changing humidity**
- **Durability**
- **Natural durability**
- **Environmental conditions**
- **Treatment**
- **Detailing of design**
- **Strength and thermal insulation**

- **Flammability**
- **Imperfections**
- **Sustainable forestry Solid wood and wood products**
- **A construction typology**
- **Cladding of sheets or shingles**
- **Curved structures**
- **Literature and references**