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Nota di contenuto	Proceedings of the Conference on the Rehabilitation and Reconstruction of Buildings CRRB 2013; Preface and Commitees; Table of Contents; Chapter 1: Protection and Restoration of Wood Structures; Durability Evaluation of Wood Based Board Materials against Brown-Rot Fungi Effect; Non-Destructive Methods for the Localization of Woodworms via Acoustic Analysis; The Existing Timber Structures - Possibilities and Limits of Diagnostic Methods in Assessment Process; Utilization of Wood Modification for the Purpose of Moisture Volume Changes Reduction; Chapter 2: Surface Treatment Determination of Effects of UV Radiation on Remedial PlastersInvestigation of Glass Fibre Reinforced Cement (GFRC) Material Exposed to High Temperatures; Modified Plasters for Restoration and Finishing Works; Stabilization, Conversation and Strenghthening of Historic Plaster Using Nanofibres; The Application of Nanomaterials in Restoring Historic Structures; Chapter 3: Restoration of Stone; Experimental Comparison of Moisture Characteristics of Two Types of Sandstone; Selected Non-Destructive Methods Suitable for Evaluation of

Roofing Slate

The Influence of Mineralogical Composition Changes of Sandstone Cement on Physical-Mechanical PropertiesChapter 4: Restoration of Masonry; Analysis of Suitability of Mortar Used for Reconstruction; Load-Bearing Capacity Determination of Historic Masonry Structures; Determination of Selected Mechanical and Physical Properties of Historic Full Burnt Bricks in Frame of Project of Monitoring their Diffusion Properties; Effect of Pozzolanic Additive on Pore Structure of Cement Mortar; Stabilization and Strengthening of Historic Buildings' Stone Masonry Columns

Chapter 5: Restoration of Concrete StructuresAnalysis of Relations for Determination of Parameters of Various Types of Concrete Based on Ultrasonic Pulse Method Measurement; Analyzing of Alternative Raw Materials for Production of Cement-Bonded Particle Boards; Chemical Grouting Method and its Effectiveness for Protection of Autoclaved Aerated Concrete Masonry; Evolution of Reconstruction of Plecnik Footbridge at Prague Castle; Geocement-Based Coatings for Repair and Protection of Concrete Subjected to Exposure to Ammonium Sulfate; Options of Assessment of Absorption Capacity of Noise Barrier Production Possibilities of Concrete Based on Artificial Fly Ash AggregatesShrinkage-Compensating Alkali Activated Slag Cement Mortars for Crack Repair and Joint Grouting in Concretes; Surface Modification of Fresh Placed Concrete and its Durability at Effect of Defrosting Substances; Use of Textile Reinforced Concrete - Especially for Facade Panels; Chapter 6: Physical-Chemical Properties; Assessment Tool for Refurbishments reSBToolCZ Emphasising Cultural-Historical Buildings; Bacterial Deteriorations of Wooden Pile Foundations due to Permanent Soil and Water Contact

Effect of Artificial Lightweight Aggregate on Resistance of Polymer Cement Mortars to Extreme Temperatures

Sommario/riassunto

Proceedings of the 15 th Conference on the Rehabilitation and Reconstruction of Buildings, featuring international participation, within which new trends and procedures in the field of building rehabilitation were discussed at an international level. The papers are grouped as follows: Chapter 1: Protection and Restoration of Wood Structures; Chapter 2: Surface Treatment; Chapter 3: Restoration of Stone; Chapter 4: Restoration of Masonry; Chapter 5: Restoration of Concrete Structures; Chapter 6: Physical-Chemical Properties; Chapter 7: Statics and Dynamics of Structures; Chapter 8: Restoration