1. Record Nr. UNINA9910483411803321

Titolo	Non-destructive in situ strength assessment of concrete : practical application of the RILEM TC 249-ISC recommendations / / Denys Breysse, Jean Paul Balayssac, editors
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
ISBN	3-030-64900-8
Descrizione fisica	1 online resource (397 pages)
Collana	RILEM State-Of-the-Art Reports ; ; Volume 32
Disciplina	620.136
Soggetti	Concrete - Testing Nondestructive testing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- RILEM Members -- Preface -- RILEM Publications -- RILEM Proceedings (PRO) -- RILEM Reports (REP) -- Contents -- Contributors -- Part ITheory -- 1 In-Situ Strength Assessment of Concrete: Detailed Guidelines -- 1.1 Scope -- 1.2 Preliminary Considerations -- 1.2.1 Context and Objective of the Investigation -- 1.2.2 Details of the Structure to Investigate -- 1.2.3 Constraints of the Investigation -- 1.2.4 Investigation as Part of a Wider Evaluation Program -- 1.3 Planning of the Investigation -- 1.3.1 Methods -- 1.3.2 Preliminary Recommendations Before Performing the Tests -- 1.3.3 Methodology for Determining the Locations and Number of NDT Locations -- 1.4 Cores -- 1.4.1 Location of Cores -- 1.4.2 Number of Cores -- 1.4.3 Dimensions -- 1.4.4 Extraction, Conservation and Preparation of Cores -- 1.4.5 Core Testing (Mechanical Testing, NDT) -- 1.5 Identification of the Conversion Model -- 1.5.1 Main Steps and Principles -- 1.5.2 NDT Test Result Precision -- 1.5.3 Data Processing: The Case of Outliers -- 1.5.4 Types of Conversion Models -- 1.5.5 Model Identification Approach -- 1.5.6 Using the Conversion Model and Quantifying Its Error -- 1.6 Overall Assessment Methodology and Recommended Number of Cores -- 1.6.1 Organization of the Evaluation Approach -- 1.6.2 Recommended Number of Cores -- References -- 2 How to Identify the Recommended Number