1. Record Nr. UNISALENTO991002003509707536

Autore	Iannelli, Domenico
Titolo	L'impresa / Domenico Iannelli
Pubbl/distr/stampa	Torino : UTET, c1987
ISBN	8802040710
Descrizione fisica	xi, 497 p. ; 24 cm.
Collana	Giurisprudenza sistematica di diritto civile e commerciale
Classificazione	CM-VI/A
Disciplina	346.45066
Soggetti	Imprese - Diritto
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910826058403321

Autore	Eligehausen Rolf
Titolo	Anchorage in concrete construction / / Rolf Eligehausen, Rainer Mallee, John F. Silva
Pubbl/distr/stampa	Berlin, : Ernst & Sohn, c2006
ISBN	9783433601365 3433601364 9783433601358 3433601356 9783433601389 3433601380
Edizione	[1st ed.]
Descrizione fisica	1 online resource (390 p.)
Altri autori (Persone)	MalleeRainer SilvaJohn F
Disciplina	624.1/834
Soggetti	Anchorage (Structural engineering) Concrete construction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa

Livello bibliografico	Monografia
Note generali	Cover title.
Nota di bibliografia	Includes bibliographical references (p. [343]-370) and index.
Nota di contenuto	Table of Contents; 1 Introduction; 1.1 A historical review; 1.2 Requirements for fastenings; 1.3 Nature and direction of actions; 2 Fastening systems; 2.1 General; 2.2 Cast-in-place systems; 2.2.1 Lifting inserts; 2.2.2 Anchor channels; 2.2.3 Headed studs; 2.2.4 Threaded sleeves; 2.3 Drilled-in systems; 2.3.1 Drilling techniques; 2.3.2 Installation configurations; 2.3.3 Drilled-in anchor types; 2.3.3.1 Mechanical expansion anchors; 2.3.3.2 Undercut anchors; 2.3.3.3 Bonded anchors; 2.3.3.4 Screw anchors; 2.3.3.5 Ceiling hangers; 2.3.3.6 Plastic anchors; 2.4 Direct installation; 3 Principles 3.1 General3.2 Behaviour of concrete in tension; 3.3 Failure mechanisms of fastenings; 3.3.1 Theoretical studies; 3.3.2 Experimental studies; 3.3.3 Conclusions drawn from theoretical and experimental studies; 3.4 Cracked concrete; 3.5 Why anchors may use the tensile strength of concrete; 3.6 Prestressing of anchors; 3.7 Loads on anchors; 3.7.1 Calculation according to elastic theory; 3.7.1.1 Tension load; 3.7.1.2 Shear loads; 3.7.2 Calculation according to non-linear methods; 3.7.3 Calculation of loads on anchors of anchor channels; 3.7.3.1 Tension load; 3.7.3.2 Shear loads 4 Behaviour of headed studs, undercut anchors and metal expansion anchors in non-cracked and cracked concrete4.1 Non-cracked concrete; 4.1.1 Tension load; 4.1.1.1 Load-displacement behaviour and modes of failure; 4.1.1.2 Failure load associated with steel rupture; 4.1.1.3 Failure load associated with concrete cone breakout; 4.1.1.4 Failure load for local concrete side blow-out failure; 4.1.1.5 Failure loads associated with pull-out and pull-through failures; 4.1.1.6 Failure load associated with splitting of the concrete; 4.1.2 Shear; 4.1.2.1 Load-displacement behaviour and modes of failure 4.1.2.2 Failure load associated with steel rupture4.1.2.3 Failure load associated with pry-out; 4.1.2.4 Concrete edge failure for a shear load perpendicular to the edge; 4.1.2.5 Concrete edge breakout load associated with shear loads oriented at an angle a< 90° to the edge; 4.1.3 Combined tension and shear (oblique loading); 4.1.3.1 Load-displacement behaviour and modes of failure; 4.1.3.2 Failure load; 4.1.4 Bending of the baseplate; 4.1.5 Sustained loads; 4.1.6 Fatigue loading; 4.2 Cracked concrete; 4.2.1 Tension; 4.2.1.1 Load-displacement behaviour and modes of failure 4.2.1.2 Failure load corresponding to steel failure4.2.1.3 Failure load associated with concrete cone breakout; 4.2.1.4 Failure load associated with local blow-out failure; 4.2.1.5 Failure load associated with pull-out/pull-through failure; 4.2.1.6 Failure load associated with splitting of the concrete; 4.2.2 Shear; 4.2.2.1 Load-displacement behaviour and modes of failure; 4.2.2.2 Failure load associated with steel failure; 4.2.2.3 Failure load associated with pry-out failure; 4.2.2.4 Failure load associated with concrete edge breakout; 4.2.3 Combined tension and shear 4.2.3.1 Load-displacement behaviour and modes of failure
Sommario/riassunto	A comprehensive treatment of current fastening technology using inserts (anchor channels, headed stud), anchors (metal expansion anchor, undercut anchor, bonded anchor, concrete screw and plastic anchor) as well as power actuated fasteners in concrete. It describes in detail the fastening elements as well as their effects and load-bearing capacities in cracked and non-cracked concrete. It further focuses on corrosion behaviour, fire resistance and characteristics with earthquakes and shocks. It finishes off with the design of fastenings

according to the European Technical Approval Guideline (E