

DIN EN 12390-13:2021-09 (E)

Testing hardened concrete - Part 13: Determination of secant modulus of elasticity in compression

Contents		Page
European foreword		3
1	Scope	5
2	Normative references	5
3	Terms, definitions, symbols and abbreviations	5
3.1	Terms and definitions	5
3.2	Symbols and abbreviations	6
4	Principle	7
5	Apparatus	7
5.1	Test machine	7
5.2	Instrumentation	7
5.3	Gauge length	8
6	Test specimens	8
6.1	Shape and dimensions of specimens	8
6.2	Curing, storage and conditioning	8
7	Method	8
7.1	Specimen instrumentation and positioning	8
7.2	Determination of compressive strength	9
7.3	Determination of secant modulus of elasticity	9
7.3.1	Method A - Determination of initial and stabilized secant modulus of elasticity	9
7.3.2	Method B - determination of stabilized secant modulus of elasticity	11
8	Calculation of secant modulus of elasticity	13
8.1	Initial secant modulus of elasticity (Method A)	13
8.2	Stabilized secant modulus of elasticity (Method A and B)	13
9	Test report	14
10	Precision	14
Bibliography		15