


Compressive strength to flexural strength conversion

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Compressive strength to flexural strength conversion

Copyright © 2021 ACPA Contact / Privacy policy / Terms of use In many cases you need to complete a compression force for the conversion of flexural resistance. This is particularly common in the design and specification of concrete flooring where the flexural strengths are critical while the compressive strengths are often specified. For quality control a reliable compression strength is required to convert the flexural strength to ensure that the concrete meets the specifications. The CivilWeb Compressive Strength to Flexural Conversion worksheet is included in the CivilWeb Flexural Strength spreadsheet suite. It uses two general correlations commonly used to convert concrete compression and flexural strength. This useful spreadsheet can be used to convert the results of the concrete cube test from compressive strength to flexural strength to check if the concrete used meets the specifications. The Forza Flexural CivilWeb of Concrete spreadsheet suite is available for purchase at the bottom of this page for only £5. Alternatively, the spreadsheet is included in the full suite of concrete property which includes many other tools for just £10. The spreadsheet is also included for free with the CivilWeb Rigid floor design suite. Factors influencing the flexural strength of concrete are generally similar to those influencing the compressive strength. Additional information can be found in our cement compression post. The flexural force is however much more dependent on the type and shape of the aggregates used. Angular crushed aggregates achieve a much greater flexural force than rounded marine aggregates. More information on this is included in our Flexural Strength of Concrete post. Flexile Concrete Strength Test The concrete flexural strength test is generally performed using a third point flexural strength test on a concrete beam. This is much more difficult and less accurate than the equivalent cement cube test, which is why it is common to test the compressive force and then convert it to flexural strength when verifying that the concrete meets the specifications. Further details on concrete strength testing can be found in our concrete tests and Flexural tests. The simplest and most commonly applied method of quality control for concrete flooring is to test the compressive force and then use this as an indirect measure of flexural strength. While this relationship varies from mix to mix, there have been a number of attempts to derive a flexure for the equation of the compression force converter. For CEM 1 cements a very general relationship has often been applied; This only provides the most fundamental correlation between flexor resistance and compression resistance and should not be used for design purposes. The multiplier value may vary between 0.58 and 0.991 depending on the aggregate type and other mix properties. More the equation of corrections for compression and flexor resistance of cement is shown below. Similar equations can be used to allow angled rock aggregates or rounded sea aggregates as shown below. These are from Croney & Croney's work. The current 4th edition of TR 34 includes the same correlation method as BS EN 1992. This method converts the compression force to the strength of the average axial traction, then converts this into flexor resistance and includes a regulation for the depth of the slab. These equations are shown below. f_{ck} = Characteristic concrete compression resistance (cylinder) h = depth of the slab The two methods reasonably agree well for strengths and thicknesses of concrete slabs typically used for concrete flooring. A calculation tool to apply one of these methods is included in the calculation sheet CivilWeb Compressive Strength to Flexural Strength Conversion. Caution should always be exercised when using general correlations such as these for design work. Where flexographic resistance is essential for design a specific correlation for the cement mix must be developed by the test and this relationship used for the specification and quality control. Elastic resistance correlation with elasticity Because there is a correlation between compression and cement bending resistance and a correlation between compression resistance and the concrete elasticity module, there must also be a reasonably accurate correlation between flexor resistance and elasticity. Where the concrete elasticity module is necessary to complete a design there is a correlation equation relative flexor resistance with the elasticity module, shown below. S_c = Flexory force (psi) E_c = Modulus elastic (psi) A calculation tool is included in the CivilWeb Flexural Force of the spreadsheet suite with this equation converted into metric units. As with any general correlation this should be used with caution. If a precise elasticity value is required, this should be determined by the test. Further information on the elasticity of concrete is included in our Modulus of Elasticity of the Chaldean Place. Concrete's Flexural CivilWeb Resistance Computation Conversion Card Concrete's Flexural CivilWeb Computation Suite includes the two methods described above, as well as the flexibility module to the flexor resistance converter. Buy now only £5. To try a fully functional free trial version of this software, please enter your email address below to subscribe to our newsletter. ? 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