Our Capabilities

Muhammad Hadi
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Light House





Light House





Our Team Structural Engineering

- Alex Reminnokov
- Neaz Sheikh
- Lip Teh
- Aziz Ahmed
- Tim McCarthy
- Muhammad Hadi















Technical Staff







5000 kN testing machine





Technical officers ability









Testing Specimens







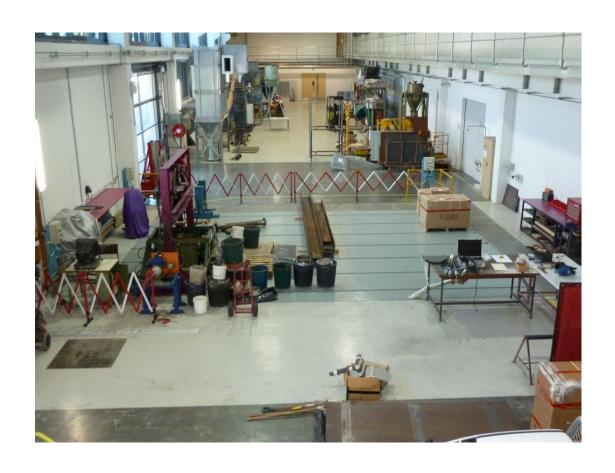


Instron lab





A new 10 by 10 m square strong floor (2010)





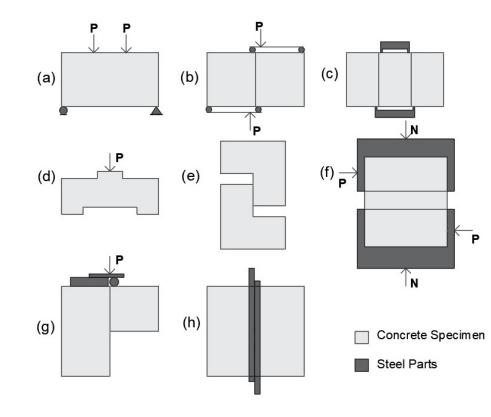
August 2019





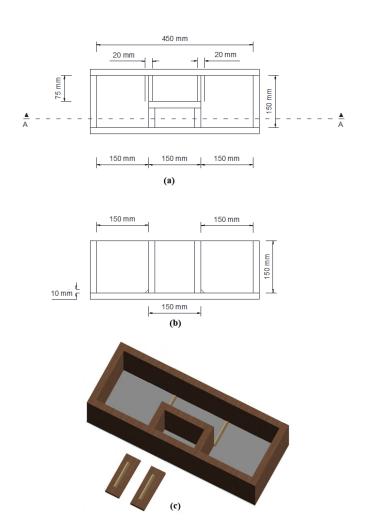
Shear Strength of Concrete

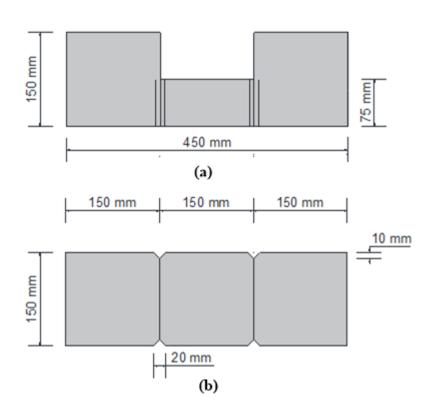
M.N.S. Hadi, U. Sajjad, M.N. Sheikh, Simple Test Method for Determining the Shear Strength of Concrete, ACI Materials Journal 119(1) (2022) DOI: 10.14359/51732986.



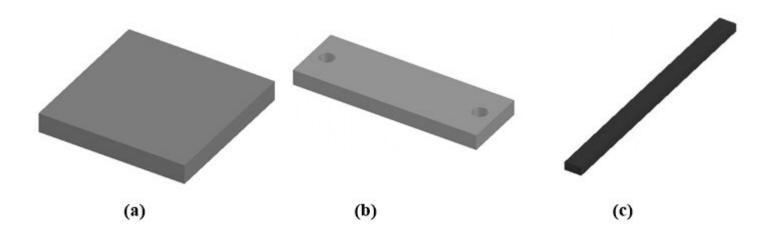


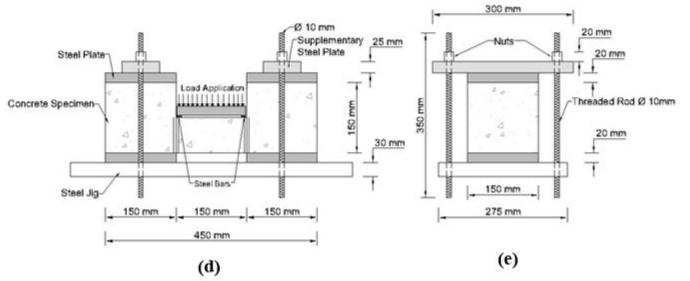
A new proposed method to determine the shear strength of concrete











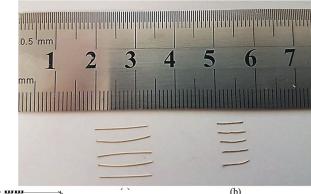


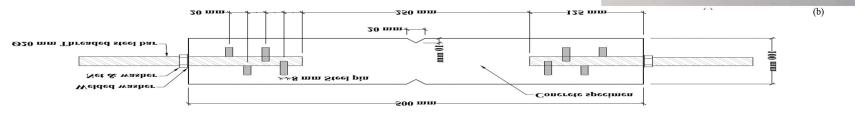


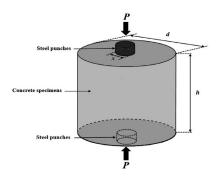




Use of steel fibres in geopolymer concrete

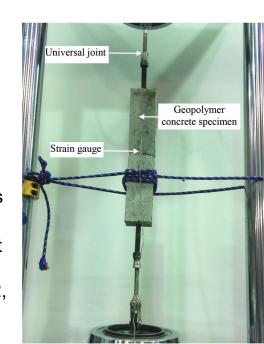






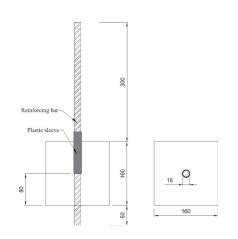
Farhan, NA, Sheikh, MN and Hadi, MNS. (2020). Effect of <u>Steel Fiber</u> on the Engineering Properties of Geopolymer Concrete. *ACI Materials Journal*. MS No. M-2018-353.R1. Vol. 117, No. 3, May 2020. doi: 10.14359/51724591. 12 pages. Pages 29-40.

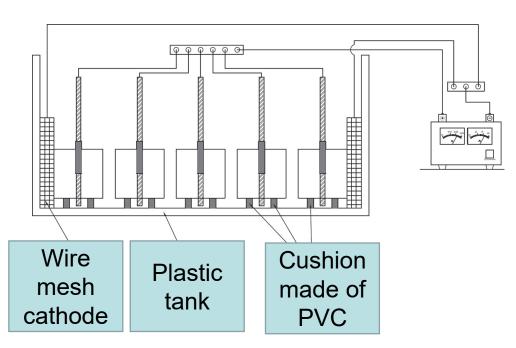
Farhan, NA, Sheikh, MN and Hadi, MNS. (2018). Engineering Properties of Ambient Cured Alkali-Activated Slag-Fly Ash Concrete Reinforced with Different Types of Steel Fiber. ASCE Journal of Materials in Civil Engineering. Vol. 30, no.7, 04018142, 12 pages. DOI: 10.1061/(ASCE)MT.1943-5533.0002333



Bond between geopolymer concrete and steel bars (Accelerated corrosion test)



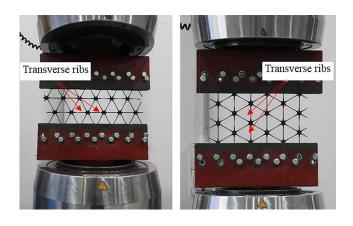


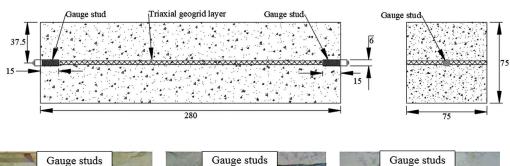


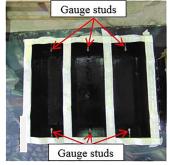
Farhan, NA, Sheikh, MN and Hadi, MNS. (2018). Experimental Investigation on the Effect of <u>Corrosion on the Bond</u> between Reinforcing Steel Bars and Fibre Reinforced Geopolymer Concrete. *Structures*. 14, pp. 251-261.

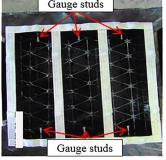


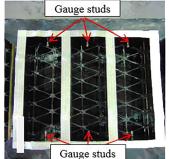
Use of geogrids in geopolymner concrete









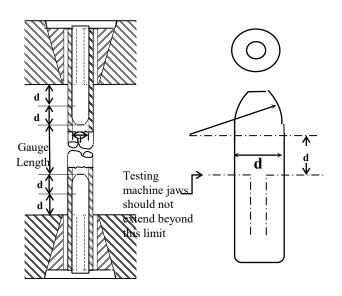


Farhan, NA, Sheikh, MN and Hadi, MNS. (2018). Behavior of Ambient Cured Geopolymer Concrete Columns under Different Loads. *ACI Structural Journal*. Vol. 115, No. 5, Sept 2018.

Al-Hedad, ASA, Farhan, NA, Zhang, M, Sheikh, MN and Hadi, MNS. (2020). Effect of <u>Geogrid</u> Reinforcement on the Drying Shrinkage and Thermal Expansion of Geopolymer Concrete. *Structural Concrete*. 2020, 21(3), pp. 1029–1039. DOI: 10.1002/suco.201900299.







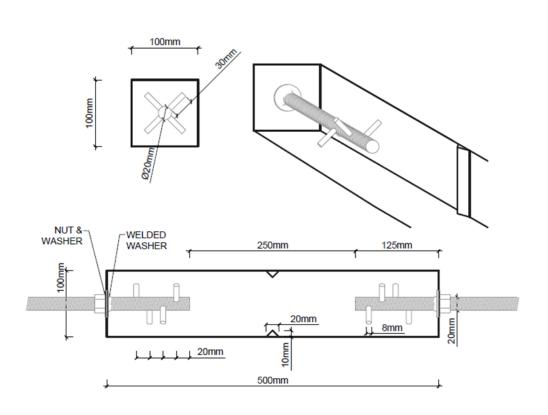
Hadi, MNS, Alhussainy, F, Sheikh, MN. (2017). Behavior of self-compacting concrete columns reinforced longitudinally with steel tubes. *Journal of Structural Engineering, ASCE.* 143 (6), 04017024



Tensile Stress-Strain Testing of SCC











Tensile Stress-Strain Testing of SCC









Thank you

