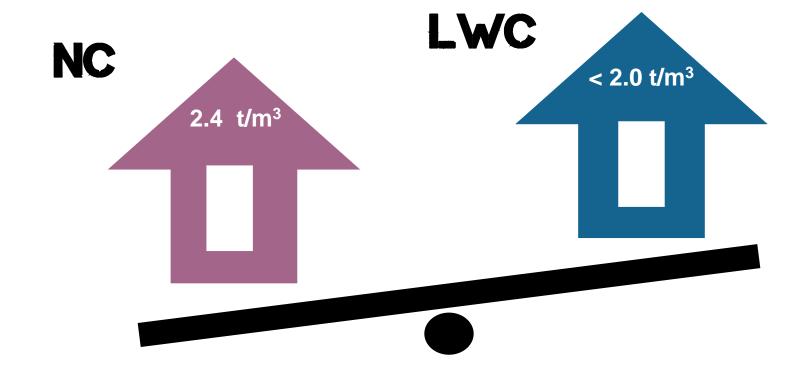


M.Stratoura | E. Badogiannis | V.G. Papadakis

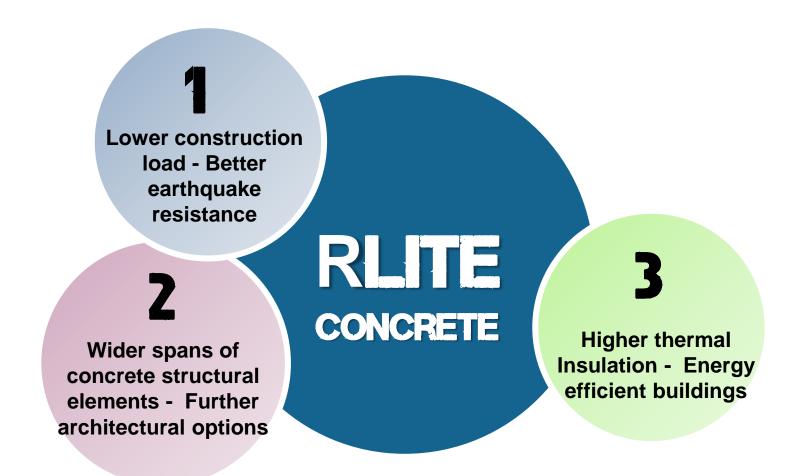






## Lightweight Concrete vs Normal weight concrete

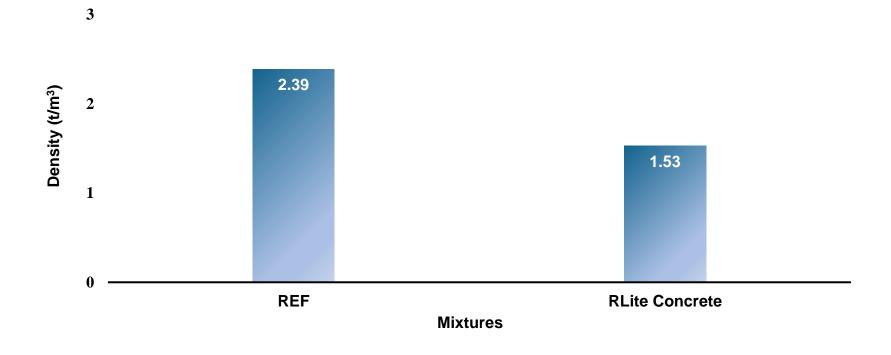




## Why Rlite Concrete?



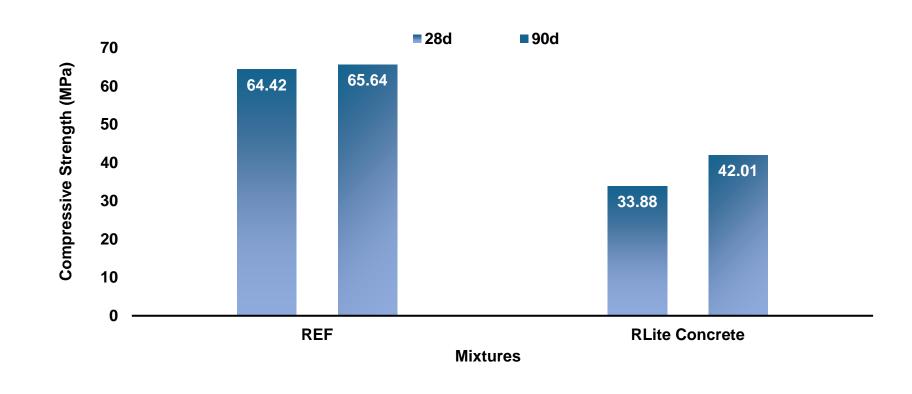




## Fresh Concrete: Density (t/m³) – D1,8 to D1,6



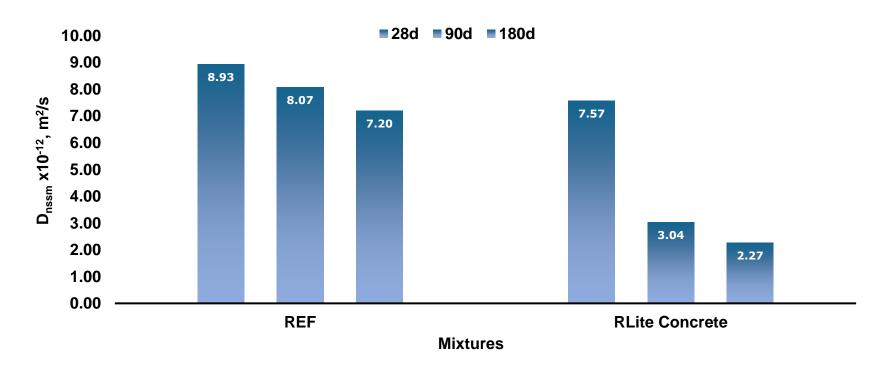
**Hardened Concrete: Compressive Strength** 



# Hardened Concrete: Compressive Strength (MPa)





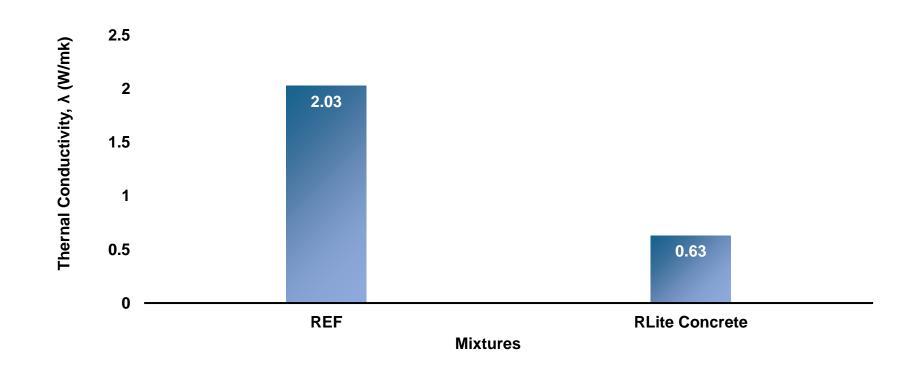


# Chloride migration coefficient (D<sub>nssm</sub> x10<sup>-12</sup> m<sup>2</sup>/s)





# **Chloride migration coefficient**



## Thermal Conductivity (λ, W/mk)



- Can be used in structural applications.
- Lower (69%) chloride migration coefficient compared to conventional concrete.
- Reduced thermal conductivity.
- Reduced construction cost without affecting quality!
- Reduced Carbon footprint

#### Conclusion























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