

# OneCem<sup>®</sup>

PORTLAND LESTONE CEMENT

## Introducing OneCem Portland Limestone Cement.

### The One Cement You Need for a Successful Project.

OneCem is a blended cement in which finely ground limestone (5 to 15%) is an integral component within the cement. OneCem has been designed to have equivalent performance to existing cements and is rigorously tested to verify its performance. OneCem is currently manufactured according to both ASTM C595 and AASHTO M 240 Standard Specifications for Blended Hydraulic Cements.



The renovation of Mississippi State University's Davis Wade Stadium incorporated OneCem to further improve sustainable attributes of the concrete.

#### SUSTAINABILITY

Growing concerns over the environmental impact of building materials has been a driving force for the adoption of sustainable solutions. OneCem offers the same level of performance and workability you expect from standard Type I cement. Manufactured with quality limestone, it uses less clinker than the traditional manufacturing process and reduces CO<sub>2</sub> emissions by 5 to 10 percent per metric ton of cement.



## PROPERTIES

Our plants have manufactured OneCem to have equivalent performance compared to the predominant cement produced, based on extensive testing and evaluation. The performance targets encompass both fresh and hardened concrete properties. These properties include durability evaluations in addition to the usual strength requirements. It has been confirmed in many studies by Holcim and academia that interactions between Portland limestone cement and supplementary cementitious materials (SCMs), such as fly ash and slag cement (ground granulated blast-furnace slag, GGBFS), are essentially the same when compared with Type I cement. However, Holcim recommends that all concrete mix proportions be tested for strength and durability properties in a qualified concrete lab.

## EXPERIENCE

At Holcim, we have produced OneCem under then-existing performance standards since 2006. In 2012, ASTM modified ASTM C595 on blended cements to include Type IL, Portland limestone blended cement. OneCem performance is proven, and we've used nearly 2 million metric tons of OneCem across Canada (in accordance with CSA A3000) and the United States over the past decade. You can feel good about reducing the carbon footprint in your community.

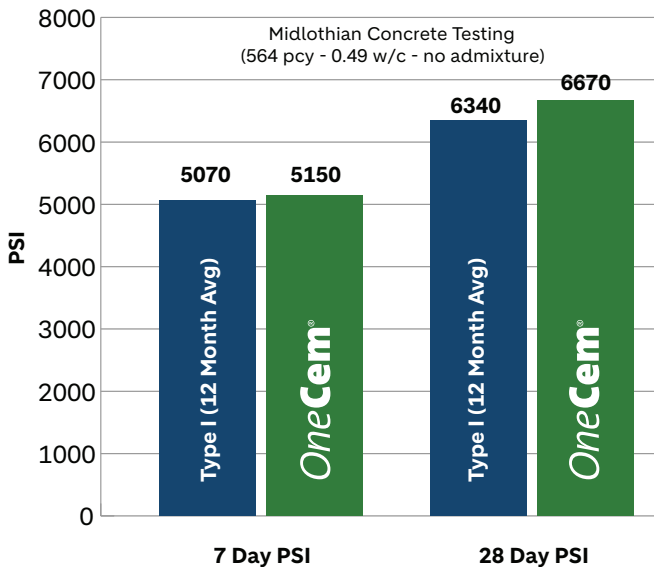
## Specifications

OneCem Portland limestone cement meets ASTM C595 standard specifications for blended hydraulic cements Type IL or AASHTO M 240 standard specification for blended hydraulic cement for Type IL.

## Applications

- Ready-mixed concrete
- Architectural & structural
- Precast elements
- Concrete block
- Paving
- Geotechnical

**28 Day Concrete Strength Comparison:  
Type I vs OneCem PLC**



**Slump & Setting Time Comparison:  
Type I vs OneCem PLC**

