

A guide by Definecivil.com

# TEST - SLUMP CONE

®

SIMPLE  
CONCEPTS  
ADVANCED  
VERSION



# CONCRETE SLUMP TEST

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## Purpose

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Slump test is a laboratory or site experiment civil engineers perform to assess the workability of the concrete. With such, the test is also referred to as slump cone test or concrete workability slump test. During concrete pouring, you need to check the uniform quality of concrete in terms of consistency and workability. Fresh concrete testing is a very important part and parcel to ensure quality construction.



# BENEFITS

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## EASY AND SIMPLE

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### SIMPLE

- It is a low cost test, doesn't need some expensive equipment at all.
- The sampling of material is simple and easy.
- Plus, it provides you immediate results.



# PROCEDURE

- *Apply the de-molding oil inside the slump cone after cleaning.*
- *Take a sufficient quantity of concrete sample by using trowel and fill inside the cone. You will fill the mold with concrete sample in three equal layers.*
- *Each layer should be tamped uniformly with 25 strokes of rounded end steel rod. Be sure to penetrate the tamping into the underlying layers to ensure uniformity.*
- *Once the mold is full, you can remove the excess concrete from the top using trowel or straight edge.*
- *Clean the mortar or water from the base plate leaked during filling.*
- *Now carefully, raise the mold from the concrete in vertical direction.*
- *The value of slump will be the difference between the height of the mold and that of the specimen freely standing.*

# DIFFERENT SHAPE OF SLUMP

by [definecivil.com](http://definecivil.com)

## TRUE SLUMP

We call it true slump because it is the only slump you can measure in the field or laboratory. In such, the concrete specimen only settles slightly and bulges out on all the sides.

## ZERO SLUMP

is zero slump means there no settlement or subsidence of the concrete sample. This shows very hard concrete mix which has very low water cement ratio.

## COLLAPSED SLUMP

A collapsed slump means the concrete just collapses and goes down. This indicates a very high water-cement ratio or the concrete mix is too wet.

## SHEAR SLUMP

A shear slump is that in which the concrete sample just slides down on one side while the other side remains intact. This indicates that the sample was not proper.



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