## Accepted Manuscript

Determination of air-void system and modified frost resistance number for freeze-thaw resistance evaluation of ternary blended concrete made of ordinary Portland cement/silica fume/class F fly ash



Chang-Seon Shon, Arman Abdigaliyev, Saltanat Bagitova, Chul-Woo Chung, Daegeon Kim

PII: S0165-232X(18)30086-7

DOI: doi:10.1016/j.coldregions.2018.08.003

Reference: COLTEC 2632

To appear in: Cold Regions Science and Technology

Received date: 1 March 2018 Revised date: 27 June 2018 Accepted date: 7 August 2018

Please cite this article as: Chang-Seon Shon, Arman Abdigaliyev, Saltanat Bagitova, Chul-Woo Chung, Daegeon Kim, Determination of air-void system and modified frost resistance number for freeze-thaw resistance evaluation of ternary blended concrete made of ordinary Portland cement/silica fume/class F fly ash. Coltec (2018), doi:10.1016/j.coldregions.2018.08.003

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## **ACCEPTED MANUSCRIPT**

Determination of Air-Void System and Modified Frost Resistance Number for Freeze-Thaw Resistance Evaluation of Ternary Blended Concrete Made of Ordinary Portland Cement/Silica Fume/Class F Fly Ash

#### Chang-Seon Shon, Ph.D.

Assistant Professor Department of Civil Engineering Nazarbayev University 53, Kabanbay Batyr Ave., Astana, Kazakhstan Ph: +7-7172-706422

E-Mail: chang.shon@nu.edu.kz

#### Arman Abdigaliyev

Department of Civil Engineering University of Nebraska 6640 Pine St., Omaha, NE, 68106 Ph: +1-402-472-2878

Email: arman.abdigaliyev@huskers.unl.edu

#### Saltanat Bagitova

Professor
Department of Architecture and Civil Engineering
Eurasian National University
2, Satpayev Str., Astana, Kazakhstan,
Ph: +7 7172 709500
Email: dinar\_j@mail.ru

Chul-Woo Chung

Associate Professor
Department of Architectural Engineering
Pukyong National University

Yongso-ro 45, Nam-gu, Busan, 48513, Republic of Korea,

Ph: +82-51-629-6084 Email: cwchung@pknu.ac.kr

### Daegeon Kim, Ph.D\*

Corresponding author
Assistant Professor
Department of Architectural Engineering
Dongseo University
47 Jurye-ro, Sasang-gu, Busan 47011, South Korea
Ph: +82-51-320-1735
E-Mail: gun43@dongseo.ac.kr

#### \*Corresponding author

#### Download English Version:

# https://daneshyari.com/en/article/8906354

Download Persian Version:

https://daneshyari.com/article/8906354

<u>Daneshyari.com</u>