



REQUEST FOR INFORMATION

RFI-19

RULEBOOK SECTION:	5.7.4.			
SUBJECT:	Sizing of concrete test cylinders 2			
DATE:	2024-12-11			
RFI DESCRIPTION				
DESCRIPTION OF ISSUE / REASON FOR REQUEST:				
<p>Following the response to RFI-18 I would like to clarify that CSA A23.2-9, which was listed as the standard used to ensure consistency at the competition has an Annex U specifically for UHPC of which U.4.1.2.1.3 states “Only 75 mm diameter x 150 mm long cylindrical specimens shall be used for compressive strength testing”. A screenshot of this section has been included in the email for reference. Based on this information and the facts that the aspect ratio of the cylinder is kept the same, UHPC lacks any large aggregate which would cause size effect concerns requiring the use of a 100 mm x 200 mm cylinder, and there is no evidence that the results of a 75 mm x 150 mm cylinder would provide strength values that vary significantly from 100 mm x 200 mm cylinders, can the 75 mm x 150 mm cylinders be accepted? This would greatly be appreciated as we are trying to be sustainable in our mix design and would rather not waste material casting a significantly larger cylinder than is needed and specified in the testing procedure used by the competition (CSA A23.2-9), by the Canadian Highway Bridge Design Code, and by the ASTM standard.</p>				
ATTACHMENT:	N/A			
ADDITIONAL COMMENTS:	N/A			
RFI RESPONSE				
RESPONSE FROM OC:				
<p>After reviewing with the lab technician, we have confirmed that we can accommodate testing of 75 mm x 150 mm cylinders for UHPC concrete.</p> <p>While the competition rules specify 100 mm x 200 mm cylinders under CSA A23.2-9C for consistency, we will allow the use of 75 mm x 150 mm cylinders for UHPC as specified in Annex U.</p>				
RESPONSE FROM:	Bruna Guarino Moraes, VP of Technical		DATE:	2024-12-17