

fib Symposium 2021

Lisbon · Portugal

Concrete Structures: New Trends for Eco-Efficiency and Performance

The 2021 *fib* Symposium will take place from 14th to 16th June 2021
in Lisbon, Portugal.

www.fiblisbon2021.pt

Students' Competition

The *fib* Symposium 2021 embraces a students' competition within the spirit of the event: eco-efficiency and performance. Thus, the competition will be devoted to the 'Prediction of the behaviour of reinforced recycled aggregates concrete (RAC) beams'.

Organized by



Institutional Support



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Objective

The objective of this competition is to predict the load-deflection response of two equal beams. To participate in this contest, each team should propose a mechanical model to describe the nonlinear behaviour of the beams. The principles and the theoretical background supporting the proposed global models

should be described objectively, using a formal and scientific style. The accuracy of the predicted load-displacement response, the innovative character of the proposed model, the creativity and the theoretical soundness of the model principles described will be object of evaluation by an international *fib* Jury.

Beams' testing

The beams will be produced and tested according to the geometry presented in Figure 1. All the information and the detailed rules related with the competition (teams' registration, beams' geometry and

reinforcement, materials' characterization, testing procedure, reporting and awards) are provided on the symposium website:

<https://fiblisbon2021.pt/#awards>

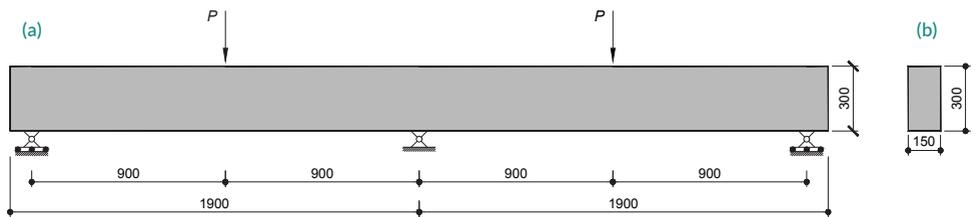


Figure 1. Geometry of the beams: (a) Front view; (b) Cross-section. All units in [mm]

Chronogram for the competition

Reception of the registration forms

up to the 1st of February 2021

Confirmation of registration acceptance

5th of February 2021

Production of the two beams and concrete specimens

8-19 of February 2021

Announcement of detailed information

15th of March 2021

Announcement of the remaining details

1st of May 2021

Delivery of report-paper and the presentation

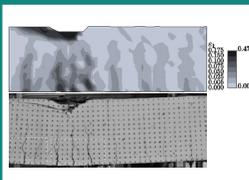
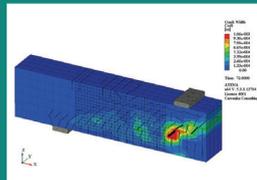
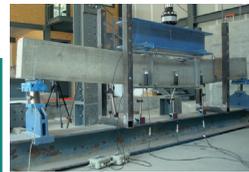
up to 9th of May 2021

Test of the beams

10-21 of May 2021

Announcement of the winners

16th of June 2021



Symposium Secretariat

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