

## عنوان مقاله:

(Experimental assessment of the deferred behaviour to the bending of girders in SCC (reinforced SCC of fibres

## محل انتشار:

دومین کنفرانس بین المللی مقاوم سازی لرزه ای (سال: 1388)

تعداد صفحات اصل مقاله: 9

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## خلاصه مقاله:

The Self Compacting Concretes (BAP) are very fluid concretes whose installation without vibration has several advantages so much at the environmental level, human, technological which interests the industrialists more and more. However, their development however is slowed down by formulation complexes and one damage material under mechanical request still badly known. The objective of this research is multiple: to study the behaviour of elements of structures in SCC subjected to one pure bending moment (beams requested with an inflection four points). This study follows upon work on the characterizations of elaborate materials, and to provide information on the influence of certain parameters such as: the age of the loading, the nature and the percentage (content) of the mineral additions, the nature and the twinge of fibres, the rate of loading. These factors will be study separately, while the other variables are maintained fixed. The monotonous behaviour crescent will be studied in experiments in inflection four points on beams of (10×10×120) cm. It is necessary to determine the breaking load, by also determining the arrow of rupture, the load and the arrow of the first cracking. For that, several compositions different from (self compacting concrete, self compacting concrete reinforced metal fibres and vibrated concrete) are used. Some results resound: the flexural strength is modified by the presence of metal fibres, It is significant to note that the best performances with the rupture are obtained with the reinforced self compacting concretes metal fibres, the SCC gives broad interval of safety between the load of the first cracking and the breaking load per contribution to the other reinforced and vibrated fibre concretes and the characteristics obtained by the static test (breaking load, arrow of rupture charges of the first cracking arrow of the first cracking) give indication on damage material under .mechanical request. They are used as reference to define thresholds of damage

## کلمات کلیدی:

self compacting Concrete pure Inflection Breaking load Arrow of the first cracking

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/844696>

