

Some Investigations on Alkali-Silica Reaction

G. Gudmundsson

The Building Research Institute, Reykjavik

(Summary by AALBORG PORTLAND)

SUMMARY

Some Icelandic concrete aggregate materials undergo alkali-silica reaction when used with high alkali cement. However, due to low average temperature in Iceland, the risk for expansion in structural concrete due to alkali-aggregate reaction is generally considered low. The use of Icelandic natural pozzolans interground with high-alkali cements is recommended as a safeguard against damaging expansion in concretes with reactive aggregates.