

SINGAPORE CIVIL DEFENCE FORCE

Our Ref. : CD/FSSD/12/02/03/01

Your Ref :

Date : 27 Aug 2012



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Registrar, Board of Architects (BOA)
Registrar, Professional Engineers Board (PEB)
President, Singapore Institute of Architects (SIA)
President, Institution of Engineers, Singapore (IES)
President, Association of Consulting Engineers, Singapore (ACES)

Dear Sir/Mdm,

USE OF PLASTIC MATERIALS FOR IN-FILL IN BUILDING CONSTRUCTION

SCDF has received feedback from QPs that it is common practice in the building construction industry to use plastic materials as a cast-in in some construction work and sometimes such materials would eventually remain permanently in the building structure. Examples of such construction include retaining walls and base floor slabs, etc.

2. Clause 3.15 of the current Fire Code 2007 stipulates the requirements for construction materials. In particular, clause 3.15.2 states that all elements of structure shall be constructed of non-combustible materials. Plastics are not only highly combustibles, they emit large quantity of highly toxic fumes when subject to burning.
3. The circular serves to remind QPs of the need to comply with the fire code requirements stated therein. The practice of using plastic materials as a cast-in in the construction work processes is undesirable from fire safety viewpoint. Should there be a need to use plastics for any special purpose and with strong justifications, approval must be sought with SCDF before commencing the use.
4. Please convey the contents of this circular to members of your Institution / Association / Board. The circular is also available in CORENET-e-Info: <http://www.corenet.gov.sg/einfo>.
5. For any inquiry or clarification on this subject, please contact Mr Pang Tong Teck (SCDF) at Tel: 68481403, E-mail: Pang_Tong_Teck@scdf.gov.sg.



Yours faithfully,
(transmitted via e-mail)
MAJ Lee Kok Chuen
Secretary, FSSD Standing Committee
for Commissioner
Singapore Civil Defence Force

cc
All members of FSSD Standing Committee
President, REDAS
President, IFE
President, SISV
CEO, BCA
CEO, URA
CEO, HDB
CEO, PSA
CEO, JTC
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CE, TUV SUD PSB – (Attn: Ms Emily Mok/ Mr Joseph Chng)
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