This is a guide only. Please confirm this information with your state regulator

regulations and building contracts

and may extend for some years depending on local

Brender Co. BCX 2008

# Victoria / ADMA-NCC (BCA) Flexible Duct, Thermal & Fire Rating Requirements from May 1 2013

### **Domestic Applications**

# BCA 2013 applies to ALL domestic buildings issued with a building permit from May 1 2013

- BCA 2013 specifies; Material R Values (R Value of insulation only) must be used on flexible duct and fittings tested to AS/NZS 4859.1. It is not acceptable to quote an insulation thickness and/or weight instead
- R<sub>m</sub>0.4 for fittings in all installations All duct in heating systems that is ignited by a flame must be fire rated to AS 4254.1:2012
- R<sub>m</sub> 0.6 insulation can only be used on duct within the insulated building envelope e.g.in rise
- shafts and in between floors R<sub>m</sub> I.0 for duct in all heating only refigerated cooling only and evaporative cooler only systems (except zone 8, R<sub>m</sub>1.5 is required) R<sub>m</sub>1.5 for duct in all reverse cycle and add on cooling systems

#### (see note). Note: R<sub>m</sub>1.0 may be used in reverse cycle and add on cooling systems only in climate zones 4, 6 and 7 if the

(a) Under a suspended floor within an enclosed (b) In a roof space that has insulation of not less perimeter or than R 0.5 directly beneath the roofing i.e. above the duct. NB Sarking / reflective foils

can usually achieve R0.5

Material R-Value (R<sub>m</sub>) or Total R a designated and appropriate to ensure that only duct with Contractors/homeowners neec

Practices Act, possibly triggering make-good provisions, state or local regulations, builders' guarantees, or the Irade thermally and fire rated compliant product may breach standards have been tollowed. The tailure to install indicates compliance, demonstrates that regulators of compliance", or equivalent, by a builder that The supply of a "letter of certification", "letter to demonstrate that required documentary evidence is available Value  $(R_{\dagger})$  is installed and that thermally rated duct has been the duct supplier. ordered, supplied and installed by

## Commercial Applications

BCA 2013 is mandatory for Commercial buildings issued with a building permit from May 1

Building classes 2, 3, 4, 5, 6, 7, 8, 9.

#### BCA 2013 specifies:

- ullet "Material R Values" (R $_{
  m m}$ ) (R Value of insulation only) must be used on flexible duct and insulation thickness and or weight instead of a Material R-value (Rm). fittings, tested to AS/NZS 4859.1" Total R Values" (Rt) are not acceptable nor is quoting
- All duct in all systems must be fire rated to AS 4254.1:2012 R<sub>m</sub> 2.0 duct and fittings must be used on all heating, cooling and evaporative

installations unless;

- (b) Duct and fittings are installed within a "conditioned space" which require, Zones 4, 6 (a) Duct is no more than 3 metres in length to an outlet or from an inlet then  $R_m$  1.0
- (c) Duct and fittings are installed in Zone 8 which requires R<sub>m</sub> R 2.4 and 7 - Rm1.2, Zone 8 - Rm1.6.

# Melbourne Surrounds

