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

### Domestic Applications

domestic buildings in S A issued with a building permit from May 1 2013. BCA 2013 is mandatory for all Class 1 + 10

BCA 2013 specifies;

All duct in a heating system that is ignited by a thickness and or weight instead of a Material

are not acceptable nor is quoting insulation tested to AS/NZS 4859.1. "Total R Values" (R<sub>t</sub>)

- R<sub>m</sub> 0.4 for all fittings in all installation. R<sub>m</sub> 1.0 for all duct in all heating only, retrigerated cooling only and evap cooler only systems flame must be fire rated to AS 4254.1:2012
- R<sub>m</sub> 0.6 insulation can only be used on duct e.g. In riser shaffs and in between floors. required (see note) within "the insulated building envelope"

#### and 6 if the ducts are; add on cooling systems only in climate zones 4 Note: R<sub>m</sub> 1.0 may be used in reverse cycle and (a) Under a suspended floor within an

(b) In a root space that has insulation of not less foils can usually achieve R0.5 i.e. above the duct. NB Sarking / reflective than R 0.5 directly beneath the roofing. enclosed perimeter or

Climate Zones

#### cooling systems, except zone 5 where R<sub>m</sub> 1.0 is R<sub>m</sub> 1.5 for all duct in reverse cycle and add on only) must be used on flexible duct and fittings "Material R Values" (R<sub>m</sub>) (R Value of insulation Adelaide Surrounds H DOMESTIC STREET Advent folia control Adelaide Urban b H

## Commercial Applications

in SA issued with a building permit from May 1 2013: BCA 2013 specifies; BCA 2013 is mandatory for all commercial buildings

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

unless;

- (a) Duct is no more than 3 meters in length to ar outlet or from an inlet then R<sub>m</sub> 1.0
- (b) Duct and fittings are installed within a R<sub>m</sub> 1.2, Zones 4 and 6 – R<sub>m</sub> 1.2 is acceptable. "conditioned space" which require Zone 5

duct with a designated and appropriate Material possibly triggering make-good provisions, and builders' guarantees, or the Trade Practices Act product may breach state or local regulations. failure to install thermally and fire rated compliant regulatory standards have been followed. The that indicates compliance, demonstrates that of compliance", or equivalent, by a builder The supply of a "letter of certification", "lette duct supplier has been ordered, supplied and installed by the demonstrate that required thermally rated duct and that documentary evidence is available to R-Value ( $R_m$ ) or Total R Value ( $R_t$ ) is installed Contractors/homeowners need to ensure that only

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

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BCA 2008

regulations and building contracts

may extend for some years depending on local

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