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

Domestic Applications

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

BCA 2013 specifies

- R_m 0.4 for fittings in all installations Material R values (R Value of insulation only) mus flame must be fire rated to AS 4254.1:2012 All duct in a heating systems that is ignited by a Total R Value(R_t) insulation thickness and/or weight instead of a AS/NZS 4859.1. It is notacceptable to quote an be used on flexible duct and fiftings tested to
- R_m 1.0 for duct in all heating only refrigerated cooling R_m1.5 for duct in all reverse cycle and add on cooling insulated building envelope' e.g In riser shafts and in R_m 0.6 insulation can only be used on duct within 'the (except zone 8, R_m 1.5 is required) only and evaporative cooler only systems between floors

cooling systems only in climate zones 1, 3, 4, and 6 if the Note: R_m1.0 may be used in reverse cycle and add on (see note)

systems, except zone 5 where $R_m1.0$ is acceptable.

ducts are; (a) Under a suspended floor within an enclosed perimeter or

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

Climate Zones Ten Company and add services. BCX 2008

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

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Perth Surrounds

Perth Urban

clauses," WA part JO parts (a) and (b)" These buildings and Class 4 part of a building. clauses provide options on compliance to Class 2 Variations and Additions manual additional Note: BCA 2013 calls up in BCA Vol. 1 Appendices

- All duct in all systems must be fire rated to "Material R Values" (R_m) (R Value of insulation and or weight instead of a Material R-value (Rm) only) must be used on flexible duct and fiffings not acceptable nor is quoting insulation thickness tested to AS/NZS 4859.1" Total R Values" (R_t) are
- AS 4254.1:2012
- R_m 2.0 duct and fittings must be used on all in neating, cooling and evaporative installations
- (a) Duct is no more than 3 meters in length to an outlet or from an inlet then R_m 1.0

only duct with a designated and appropriate been ordered, supplied and installed by the duct demonstrate that required thermally rated duct has and that documentary evidence is available to Material R-Value (R_m) or Total R Value (R_t) is installed Contractors/homeowners need to ensure that

regulations and building contracts may extend for some years depending on local builders' guarantees, or the Trade Practices Act product may breach state or local regulations, failure to install thermally and fire rated compliant of compliance", or equivalent, by a builder possibly triggering make-good provisions, and regulatory standards have been followed. The that indicates compliance, demonstrates that The supply of a "letter of certification", "letter

Commercial Applications

permit from May 1 2013: commercial buildings in WA issued with a building BCA 2013 is mandatory for most classes of

BCA 2013 specifies;

- (b) Duct and fittings are installed within a and 5-R $_{\rm m}$ 1.2, Zones 4 and 6 - R $_{\rm m}$ 1.2. is acceptable. "conainoned space" which require Lones 1,3