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

Level Geography of the searching

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

## Domestic Applications

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

## BCA 2013 specifies;

- nor is quoting insulation thickness and or duct and fittings, tested to AS/NZS 4859. "Material R Values" (R<sub>m</sub>) (R Value of weight instead of a Material R-value (Rm.) "Total R Values" (R<sub>t</sub>) are not acceptable insulation only) must be used on flexible
- R<sub>m</sub> 0.4 for all fittings in all installation. a flame must be fire rated to AS 4254.1.2012 All duct in a heating system that is ignited by
- R<sub>m</sub> 1.0 for all duct in all heating only, is required. only systems except zone 8 where R<sub>m</sub> 1.5 refrigerated cooling only and evap cooler

## and add on cooling systems only in climate zone 7 if the ducts are; Note: R<sub>m</sub> 1.0 may be used in reverse cycle

R<sub>m</sub> 0.6 insulation can only be used on duct

e.g. In riser shafts and in between floors. within "the insulated building envelope" R<sub>m</sub> 1.5 for all duct in reverse cycle and

add on cooling systems. (see note).

- (a) Under a suspended floor within an enclosed perimeter or
- 9 In a roof space that has insulation usually achieve R0.5 duct. NB Sarking / reflective toils can beneath the rooting i.e. above the of not less than R 0.5 directly

Cliniate Zones

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# R<sub>m</sub> 2.0 duct and fittings must be used on all in heating.



and installed by the duct supplier. thermally rated duct has been ordered, supplied evidence is available to demonstrate that required or Total R Value (R<sub>t</sub>) is installed and that documentary Contractors/homeowners need to ensure that only duct

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

Commercial Applications

ACT issued with a building permit from May 1 2013 BCA 2013 is mandatory for all commercial buildings in

## BCA 2013 specifies;

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

- cooling and evaporative installations unless; Duct is no more than 3 meters in length to an
- Duct and fittings are installed within a outlet or from an inlet then R<sub>m</sub> 1.0 is acceptable conditioned space" which require, Zone 7- R<sub>m</sub>
- Duct and fittings are installed in Zone 8 which requires R<sub>m</sub> R 2.4. 1.2, Zone 8-R<sub>m</sub> 1.6.

with a designated and appropriate Material R-Value (Rm)

## 176

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

## **Domestic Applications**

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

- Material R Values (R Value of insulation only) an insulation thickness and/or weight instead to AS/NZS 4859.1. It is not acceptable to quote must be used on flexible duct and fittings tested
- R<sub>m</sub> 0.4 for fiftings in all installations All duct in a heating systems that is ignited by a flame must be fire rated to AS 4254.1:2012
- K<sub>m</sub> 1.0 for duct in all heating only refrigerated R<sub>m</sub> 0.6 insulation can only be used on duct cooling only and evaporative cooler only riser shafts and in between floors within 'the insulated building envelope' e.g.ln
- R<sub>m</sub> 1.5 for duct in all reverse cycle and add on where R<sub>m</sub> 1.0 is acceptable.(see note). cooling systems, except in climate zones 2 and 5 systems (except zone 8, R<sub>m</sub> 1.5 is required)

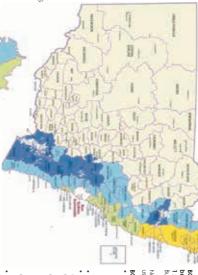
## and 7 if the ducts are; add on cooling systems only in climate zones 4, 6 Note: R<sub>m</sub> 1.0 may be used in reverse cycle and

(a) Under a suspended floor within an enclosed

but still use section 3.12.5.3 for flexible duct. Note: Class 1 & 10 buildings are subject to BASIX (b) In a roof space that has insulation of not les toils can usually achieve RU.5 i.e. above the duct. NB Sarking / reflective than R 0.5 directly beneath the rooting

Clinate Zones

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perimeter or

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# **Commercial Applications**

Building classes 3, 5, 6,7,8,9 buildings in NSW issued with a building permit from May BCA 2013 is mandatory for most classes of commercial

use section J for flexible duct. Note: Class 2 and a class 4 are subject to Basix but still

## BCA 2013 specifies;

- "Material R Values" (R<sub>m</sub>) (R Value of insulation only) weight instead of a Material R-value (Rm.) acceptable nor is quoting insulation thickness and or AS/NZS 4859.1" Total R Values" (R<sub>t</sub>) are not must be used on flexible duct and fittings, tested to
- 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 in heating (a) Duct is no more than 3 meters in length to an cooling and evaporative installations unless:
- (b) Duct and fittings are installed within a and  $5 - R_m$  1.2, Zones 4,6 and  $7 - R_m$  1.2 and zone outlet or from an inlet then R<sub>m</sub> 1.0 is acceptable "conditioned space" which require, Zones 2
- (c) Duct and fittings are installed in Zone 8 which requires R<sub>m</sub> R 2.4.
- Dependent on building class and sub class BASIX requirements may also apply

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

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