

Wall wraps on external frame

NCC2022 Housing Provisions Standard -Part 10.8 Condensation Management How to comply with section 10.8.1





The National Construction Code 2022 Housing Provisions Standard has amendments. This document highlights how to comply and mitigate the risk of condensation when building a home.

To assist in reducing condensation risk in homes, the National Construction Code prescribes a number of measures to reduce the build-up of internal moisture. Key to these measures is the mandatory requirement to use vapour permeable wall wrap when wrapping a residential building in climate zones 4 to 8.

This applies to residential detached Class 1 and is covered in the Housing Provisions standards, and for Class 2 and 4 buildings the NCC2022 Volume 1. Compliance with the requirement can be achieved with installation of Bradford vapour permeable wall wrap in accordance with the recommendations in this brochure.

NCC2022 Housing Provision Standards References

NCC changes to Vol. 1 F8D3 and the Housing Provisions Section 10.8.1 state that if a wall wrap is installed onto an external wall frame (whether metal or timber framing), climate zones 4 & 5 now require the use of a vapour permeable membrane. This is in addition to the existing requirement for the use of vapour permeable membrane in climate zones 6, 7 & 8.

For the purpose of this publication section 10.8.1 has not been reproduced in full, please refer to the NCC for the complete requirements concerning wall wrap requirements.

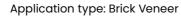
Section Interpretation

10.8.1 External wall construction

The use of a vapour permeable membrane is required to be installed in residential buildings with a wall wrap in climate zones 4-8. Note these requirements cannot be offset via NatHERS.









Section Interpretation

Summary of compliance solutions

Climate Zones	1	2 & 3	4 to 5	6 to 7	8
Product Recommendation	Vapour Barrier Class 1 or 2	Vapour Barrier or Vapour Permeable	Vapour Permeable Class 3 or 4	Vapour Permeable Class 4	Vapour Permeable Class 4
Application: Brick Veneer					
Enviroseal RW Plus	×	Ø	⊘	Ø	Ø
Enviroseal Aero	×	Ø	⊘	Ø	Ø
Thermoseal Breather Class 4	×	Ø	⊘	Ø	×
Thermoseal Wall Wrap	⊘	⊘	×	×	8
	Appli	cation: Lightwe	ight Clad*		
Enviroseal RW Plus	×	Ø	⊘	Ø	Ø
Enviroseal Aero	×	Ø	⊘	Ø	Ø
Thermoseal Breather Class 4	×	×	×	×	×
Thermoseal Wall Wrap	⊘	⊘	×	×	×

^{*}Always check cladding manufacturer's guidance to confirm compatibility.

Condensation Risk Consideration: As there are many factors which can influence condensation risk it is highly recommended that designers undertake a hygrothermal analysis of the building design to further reduce condensation risk.

Benefits of using Bradford Insulation **Products to Comply with NCC2022 Housing Provisions Standard**



We offer a range of products to suit all climate zones that comply with section 10.8.1.



We offer a range of BAL 12-FZ compliant wall wrap solutions.

Bradford Product Solutions

Enviroseal RW Plus

Bradford Enviroseal RW Plus is a Class 4 vapour permeable membrane that allows moisture to escape the inside of the home. This reduces the risk of condensation build-up and mould growth. Suitable for brick veneer and lightweight clad* applications, with extended external UV exposure period of up to 12 weeks.



Enviroseal Aero

Bradford Enviroseal Aero is a Class 4 vapour permeable membrane that allows moisture to escape the inside of the home. This reduces the risk of condensation build-up and mould growth. Suitable for brick veneer and lightweight clad applications.



Thermoseal Breather Class 4

Bradford Thermoseal Breather is a Class 4 vapour permeable membrane that allows moisture to escape the inside of the home. Suitable for application in brick veneer walls with a drained cavity and can be used in climate zones 2-7.



Thermoseal Wall Wrap

Bradford Thermoseal Wall Wrap is a Class 2 vapour barrier that minimises the risk of water-related weather damage. Suitable for application in brick veneer walls with a drained cavity or or lightweight clad applications* and can be used in climate zones 1-3 where a vapour barrier is specified.



*where compatibility is confirmed by the cladding manufacturer.

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