

# DuPont® Tyvek® HomeWrap™

## Synthetic Wall Underlay

### Application

Tyvek® HomeWrap™ is a world leading wall underlay engineered to be used as a:

- Wall wrap for the following constructions
  - Cavity – all cladding types with both timber and steel framing
  - Direct Fixed – with absorbent claddings on timber framing only
- Non-rigid air barrier

### Features and Benefits

- BRANZ appraised, meets New Zealand Building Code requirements
- Unique construction with no perforations, keeps water out maintaining a drier, warmer building
- Manufactured from high density polyethylene (HDPE) fibres, tough and abrasion resistant to stand up to the rigours of construction
- Excellent UV resistance, can be left unclad for up to 60 days
- Translucent, lets light in to allow working on the interior and makes fixing easier

### Technical Data



NZBC E2/AS1 Table 23 Classification		Requirement	Performance
Absorbency		≥ 100 g/m <sup>2</sup>	Unclassified
Vapour Resistance		≤ 7 MNs/g	Pass
Water Resistance		≥ 20 mm	Pass
pH of Extract		≥ 6.0 and ≤ 9.0	Pass
Shrinkage		≤ 0.5 %	Pass
Mechanical	Tensile Strength	MD ≥ 6.0 kN/m, CD ≥ 3.5 kN/m	Unclassified
	Edge Tear	MD ≥ 30 N, CD ≥ 30 N	Extra Heavy Duty
Air resistance		≥ 0.1 MN s/m <sup>2</sup>	Pass
Additional Information NZS 2295:2006 Classifications for Self-supporting Roof Underlays			
Flammability Index		≤ 5	Fire Retardant
NZS 2295:2006 Classification		W3	Synthetic Non-absorbent
Wind load zone		W3	Up to Very High

### New Zealand Building Code (NZBC) and Limitations

Tyvek® HomeWrap™ when used, installed and maintained in accordance with the requirements outlined in this datasheet will meet or contribute to meeting the following provisions of the NZBC:

NZBC Clause B2: Durability Meets the requirement of NZBC B2.3.1 a) 50 years and b) 15 years

NZBC Clause E2: External Moisture Contributes to meeting these requirements

NZBC Clause F2: Hazardous Building Materials Meets this requirement and will not present a health hazard to people

*Tyvek® HomeWrap™ is an Alternative Solution to NZBC E2*

#### Limitations

Tyvek® HomeWrap™ *must* be:

- Used behind claddings that will remain weather resistant
- Considered as part of the wall cladding system and not in isolation
- Used on studs at 600mm centres max and dwangs fitted flush at 1200mm centres max
- Used only as a wall underlay

Tyvek® HomeWrap™ *should not* be:

- Used behind non-absorbent wall claddings direct fixed to timber or steel framing
- Used on steel framing with direct fixed claddings
- Used to compensate for poor detailing and workmanship of the window or door joinery installation
- Exposed to the weather or UV light for more than 60 days
- Used as a roof underlay

#### Installation with LOSP treated timber

Suitable for use with LOSP treated timber, conditional upon the solvent in LOSP treated timber having had sufficient time to evaporate.

**Installation**

**Installation on Timber and Steel framing**

- Run horizontally with print facing outwards
- Horizontal Joins: Lap upper sheet over lower sheet by no less than 150mm to prevent water ingress between sheets
- Vertical Joins: Lap ends by no less than 150mm
- Install taut over framing to prevent post installation cavity noise
- Secure to framing using clouts (>20mm) or staples (6-8mm) at no greater than 300 centres

**Cavity Installations where cavity battens are to be installed at greater than 450mm centres**

- Install Tyvek® HomeWrap as above
- Fix polypropylene tape (e.g. DanBand) at 300 centres horizontally over framing, before installing the cavity battens

**Stucco Plaster - use of Tyvek® HomeWrap™ as a non-rigid backing material or a slip layer**

Limit cavity deflection to a maximum of 5mm with the use of support. eg: 75mm galvanised mesh, plastic tape or wires at 150mm centres; or as a slip layer over rigid backing

**High Wind Areas**

- To minimise noise during construction ensure product is installed taut and secured adequately
- Take care when installing in windy conditions as the larger roll widths may make handling difficult

**Window /Door Details**

- Cut the Tyvek® HomeWrap™ building wrap over the window or door opening as shown in Figure 1: Cut
- Wrap and fold side, sill and lintel flaps around all four sides of the framing. Secure to inside face using staples or clouts
- Install head flashing. Cover with a new piece of Tyvek® HomeWrap® extending to the next highest lap or flashing above.
- Install Tyvek® Flexwrap™ flashing tape (or other flashing tape in compliance with NZBC E2/AS1) as per instructions

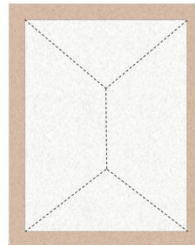


Figure 1: Cut

**Repairs**

- If torn or punctured, cover over the damaged area with additional wrap (with at least a 150mm overlap) and tape. Tape small tears

**Specification Notes**

State the following: Product required: Tyvek® HomeWrap™

**Product Specification**

Description	Product Code	Roll Size	Area	GSM
Tyvek® HomeWrap™	700001	2740mm x 30m	82m <sup>2</sup>	61gsm
<b>Accessories</b>				
Tyvek® Contractor Tape™	781002	48mm x 50m	-	-
Tyvek® Flexwrap™	701001	175mm x 22.8m	-	-

**Storage**

Tyvek® HomeWrap™ must be protected against damage and weather. Rolls must be stored on end, under cover in a clean, dry environment. Do not crush product.

**Accreditations/Appraisals/Certification**



PRODUCT DATA SHEET



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