



## Premium-6 Hexagonal Wire Netting for roofing applications

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## SUMMARY OF FEATURES

- Consists of a range of flat hexagonal netting made from galvanised mild steel wire.
- Acts as a support for roofing underlay or synthetic roofing membranes.
- Heavy 150g/m<sup>2</sup> galv coating delivers up to six times longer life than light galv product.
- Supersized core reduces wastage by up to 20%. (NB: Currently available in 75mm netting only).
- Consistent appearance.
- Less sag.
- Twin edge wires run straight for ease of twitching.
- Wire tensile strength is between 380 and 550 MPa.
- Galvanising complies with AS/NZS 4534: 2006 Class W10.
- Can be used with both timber and steel framing.
- Kiwi made.

## TECHNICAL INFORMATION

### Product Description

Bayonet Premium-6 Hexagonal Wire Netting consists of a range of woven flat hexagonal, galvanised mild steel netting for use as a support for building papers, roof underlays, aluminium foil insulation and glasswool insulation.

### Applications

- Bayonet Premium-6 Hexagonal Wire Netting (75mm and 50mm mesh size) is for use on timber and steel framing as a support for roofing underlay's and building papers, under roof claddings and behind wall claddings. Where used in roofs, the hexagonal wire netting is used to provide support for building paper, roof underlay, aluminium foil insulation or glasswool insulation.
- Bayonet Premium-6 Hexagonal Wire Netting (75mm and 50mm mesh size) can also be used behind wall claddings on buildings which come within the scope of NZS 3604: 1999 as providing support to two layers of building paper or roof underlay where used as a wind barrier.

### Product Information

- The size of wire netting to be used to support building paper, roof underlay, aluminium foil insulation or glasswool insulation in roof spaces is dependent on the span between the purlins or roof member supports and the site conditions. In all cases wire netting is not be exposed to the elements for more than 7 days and spans must be limited to 2.0m maximum. 75mm mesh size shall be used when all of the following conditions apply, (in all other cases 50mm mesh must be used):
  - Wire netting will be exposed to the elements for less than 3 days.
  - The NZS 3604: 1999 wind zone is 'High' or less, or for specific design cases the Design Wind Speed as determined from NZS 4203: 1992, must not exceed 44m/s.

- Maximum rainfall is 1400mm/year.
- Maximum wire netting span is 1200mm.
- Where construction circumstances present a high risk of damage – e.g. where on-going construction above may result in damage caused by falling debris, it is recommended that the 50mm mesh size be used.
- A wind barrier (rigid or non-rigid equivalent) may be constructed by using either a 75mm or 50mm Bayonet Premium-6 Hexagonal Wire Netting backing support for two layers of building paper or roof underlay. Where this method is used, the laps of each layer must be staggered, such that the lap centres of the first layer are no closer than 450mm from the lap centres of the second layer. The need for a wind barrier depends on the cladding type and the Wind Zone. The requirements are given in Clause 11.4.1 and Clause 11.5.2.6 of NZS 3604: 1999 and NZBC Acceptable Solution E2/AS1, Paragraphs 2.5.1 to 2.5.4.
- For all applications including roofs to specific design, the roof cladding materials must comply with Table 11.2 of NZS 3604: 1999 and wall claddings must meet the provisions of Clause 11.5 of NZS 3604: 1999.
- For roof applications the netting must span across the purlins or across rafters depending on the requirements (see the Installation Information section). For wall applications the netting may be run horizontally or vertically but is best run horizontally across wall framing.
- When Bayonet Premium-6 Hexagonal Wire Netting is used as a support for roofing underlay in roof spaces or as a support for building paper or roof underlays in wall spaces in accordance with the manufacturer's instructions contained within this brochure, Bayonet 75mm and 50mm mesh size will meet the performance requirements of NZBC B2.3.1(a), 50 years or B2.3.1(b) 15 years as appropriate and will have a serviceable life in excess of 50 years. A 50 year durability is required where used to support a building paper or roof underlay under concrete or clay roof tiles. This durability opinion is contingent upon the products being:
  - Enclosed within the roof space or wall cavity
  - Subject to a dry interior environment where the building paper or roofing underlay are subjected to occasional wetting only and the roof and wall cladding are well maintained
  - Not exposed to a corrosive environment
  - Not exposed to relative humidity greater than 90%
  - Not exposed to the atmosphere for more than one week before cladding is installed
  - Installed where air extraction or dehumidifying devices are not vented into the roof space or wall cavity.
- Bayonet Premium-6 Hexagonal Wire Netting, if used, installed and maintained in accordance with the instructions and conditions in this brochure, will meet the following provisions of the NZBC:
  - Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.4 for the relevant physical conditions of B1.3.3.
  - Clause B2 DURABILITY: Performance B2.3.1(a), for support of building paper or roofing underlay behind masonry or concrete walls or under clay or concrete roof tiles, not less than 50 years.

- o Performance B.2.3.1(b) for support of building paper and roofing underlay's in roof and wall spaces which are easy to access or replace, not less than 15 years.

## **Handling & Storage**

Bayonet Premium-6 Hexagonal Wire Netting must be handled with care to prevent damage to the netting. The rolls must be stored on end, under cover and protected from moisture. They must not be double stacked or used to support other materials. Bayonet Hexagonal Wire Netting rolls must not be stored on concrete floors for long periods, particularly where moisture is present, as this can result in an accelerated corrosion of the galvanising.

## **Technical Data**

Bayonet Premium-6 Wire Netting consists of a range of hexagonal, 75mm and 50mm flat mesh, manufactured from, 1.0mm diameter galvanised mild steel wire. The 75mm mesh is supplied in rolls 2000mm and 900mm wide in lengths of 50m and 25m. The 50mm mesh is supplied in rolls 2000mm, 1800mm, 1500mm, 1200mm and 900mm wide in lengths of 50m, 25m, 10m and 5m.

The wire used to manufacture Bayonet Premium-6 Hexagonal Wire Netting conforms to Class W10 of AS/NZS 4534: 2006. The wire has a tensile strength of between 350 and 550 MPa and the minimum mass of galvanised coating is 150g/m<sup>2</sup> for the 1.0mm diameter wire.

## **Installation information**

### **Building Paper and Roof Underlay Support in Roof Spaces**

The wire netting must be run across rafters, truss chords or across purlins, and be fixed in place. Where the building paper or roofing underlay is required to have a sag to facilitate drainage, e.g. under tile battens, the wire netting must also be laid with a sag to accommodate the building paper. In all other cases the wire netting must be pulled taut.

Fixing to timber framing is with 25mm stainless steel staples, or 25mm galvanised clouts, and to steel framing with hot-dipped galvanised or stainless steel self-tapping screws which must be embedded at least 10mm into the steel framing. At wire netting ends, fixings must be at 150mm centres and must anchor the wire netting such that it cannot pull through the fixings when loaded between adjacent framing members.

Elsewhere fix the wire netting at edge wires and in the centre to each framing member it passes over. Wire tie the side edges of Bayonet Premium-6 Hexagonal Wire Netting together at 300mm centres, between roof framing fixings.

### **Building Paper and Roof Underlay Support in Wall Spaces**

Where used in wall spaces to support building paper or roof underlay, Bayonet Premium-6 Hexagonal Wire Netting may be run horizontally or vertically across framing members. It is most effective when run horizontally across studs. Bayonet Premium-6 Hexagonal Wire Netting must be pulled taut, fixed to framing and have its edges tied together as for the roof space application.

*Continued overleaf*



Premium-6 Hexagonal Wire Netting  
for roofing applications

Size Range Available

Product Code	Width (mm)	Mesh (mm)	Wire Diameter (mm)	Length (m)	Total (m <sup>2</sup> )	Weight (kg)	Barcode
HN200075150P6	2000	75	1.0	50	100	19.00	9421026721983
HN200075125P6	2000	75	1.0	25	50	9.5	9421026721969
HN90075150P6	900	75	1.0	50	45	9.5	9421026722225
HN200050150P6	2000	50	1.0	50	100	29.67	9421026721952
HN200050125P6	2000	50	1.0	25	50	14.67	9421026721945
HN180050150P6	1800	50	1.0	50	90	26.33	9421026721938
HN180050125P6	1800	50	1.0	25	45	13.50	9421026721921
HN150050150P6	1500	50	1.0	50	75	22.67	9421026721860
HN120050150P6	1200	50	1.0	50	60	18.33	9421026721846
HN90050150P6	900	50	1.0	50	45	14.00	9421026722218
HN90050110P6	900	50	1.0	10	9	2.67	9421026722195
HN9005015P6	900	50	1.0	5	4.5	1.33	9421026722201