ARDEX WPM 612 TPO

1.14mm Roofing Membrane

BRANZ Appraised
Appraisal No.728 [2011]

AUDITED AsureQuality CERTIFIED
AsureQuality CodeMark Programme

DESCRIPTION

ARDEX WPM 612 (TPO Roofing Membrane) is a flexible Thermoplastic Polyolefin roofing membrane made from the incorporation of a ethylene propylene rubber into a polypropylene matrix and produced with polyester weft inserted reinforcement.

PREPARATION

Roofing structure needs to be stable enough to support the temporary loading. Substrates need to be clean, smooth, dry and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the membrane. All surface voids greater than 5mm wide shall be properly filled with an acceptable fill material.

APPLICATION

Place ARDEX WPM 612 (TPO Roofing Membrane) as close as possible to its final position. Inspect the wrapper and ARDEX WPM 612 (TPO Roofing Membrane) roll for damage before and during the installation.

Unroll ARDEX WPM 612 (TPO Roofing Membrane) and prior to any attachment, cutting or welding, allow each panel to relax a minimum of 30 minutes. Cut a cross-shaped opening above every drain to evacuate excess ponding water, in case of sudden rainfall.

ARDEX WPM 612 (TPO Roofing Membrane) panels shall be installed in a fashion so that field and flashing splices are installed to shed water. Straight cuts are very important for a neat and easy application.

Allow ample material for splicing determined by the type of seam and tie-ins.

Temporary ballasting during installation may be required to keep the membrane in place until it is secured to the substrate. Suggested temporary ballasting includes sand bags and other non-abrasive materials such as rubber tyres, etc. Never leave the project without temporary ballasting loose laid sheets.

COVERAGE

The dimensions of the membrane are calculated to cover the substrate, including seam overlaps (75mm for standard seams – 150mm for seams with mechanical anchoring in the seam) and upstands. Provide an additional length (150mm) at upstands for easy manipulation.

PHYSICAL CHARACTERISTICS

- Excellent durability and tear and puncture resistance
- High chemical, (micro) bacterial, UV and weathering resistance
- No plasticisers or chlorinated ingredients
- Avoid contact with oil and petroleum based products, grease and hot bitumen

TECHNICAL CHARACTERISTICS

Property	Test Method	Value
Watertightness	EN 1928 (A)	Pass
Tensile strength (both directions)	EN 12311-2	≥800 MPa
Elongation at reinforcement break	EN 12311-2	≥ 20%
Resistance to static loading (EPS & concrete)	EN 12730 (B)	≥ 25kg
Resistance to impact (EPS & concrete)	EN 12691	≥ 10mm
Tear resistance L/T	EN 12310-2	≥ 400 / 400 N
Joint peel resistance	EN 12316-2	≥ 100 N/50mm
Joint shear resistance	EN 12317-2	≥ 800 N/50mm
UV exposure	EN 1297	Pass
Foldability at low temperature	EN 495-5	≥ -45°C
External fire performance	EN 13501-5	B_{ROOF}(t1)
Reaction to fire	EN 13501-1	E
Root resistance	pr EN 13948	Pass

PACKAGING

Thickness 1.14mm

Width 3.05m (2.0m rolls available on indent)

Length 30.5m

Weight 1.24 kg/m^2

STORAGE

Store away from sources of puncture and physical damage. Store away from ignition sources and open flame. Unlimited Shelf Life.

PRECAUTIONS

Exercise caution when lifting, moving, transporting, storing or handling membrane rolls to avoid sources of punctures and possible physical damage.

Contact ARDEX Technical Services Department for specific recommendations regarding chemical or waste product compatibility with ARDEX WPM 612 TPO Roofing Membrane).

ARDEX WPM 612 TPO

1.14mm Roofing Membrane

SUBSTRATE SPECIFICATION (Plywood)

To conform with Acceptable Solution E2/AS1 plywood shall be:

A minimum of 17mm complying with AS/NZS 2269, at least CD Structural Grade plywood with the sanded C face upwards, and H3.2 with Waterborne CCA treatment and kiln dried after treatment.

Substrates must be dry when Butynol® is applied. The plywood and the timber substructure shall have a maximum moisture content of 20% when Butynol is adhered.

Plywood panels shall be laid with staggered joints (brick bond), the edge of sheets shall be supported with dwangs or framing, unless a structurally tested tongue-in-groove edge provides equivalent support. The maximum recommended span in E2/AS1 is 400mm. However specific design may allow 17.5mm plywood or greater to be laid on 400mm purlins with nogs or dwangs at 600mm or even 1200mm centres. Plywood shall be laid with the face grain at right angles to the supports. A 20mm triangular fillet shall be used at the base of any 90° upstand. External edges shall be chamfered with a minimum radius of 5mm.

Plywood shall be fixed with 10 gauge x 50mm stainless steel countersunk head screws with 3mm gaps between all sheets, at 150mm centres on edges, and 200mm in the body of the sheets.

All joints in the plywood and junctions of plywood with other materials shall have 25mm ARDEX Release tape applied before application of Butynol®.

PLYWOOD QUALITY

Plywood to be installed in accordance with the plywood manufacturer's recommendation to provide a suitable surface for membrane.

Problems with plywood quality may effect long term membrane performance.

Please check with your plywood supplier.

We have duplicated the position of one supplier below.

- Face checks in plywood do not affect the structural integrity of the panel as they are confined to the surface veneer and are strictly aesthetic in nature.
- As face checking occurs naturally Carter Holt Harvey Wood products does not consider them to be a manufacturing or product fault.

Source: Specifications and Installation Guide Carter Holt Harvey.

Laying on plywood with face checking as above should be avoided and surface corrected if possible.

NOTE: The use of LOSP (Light Organic Solvent Preservative) treated plywood must NOT be used under Butynol® in any circumstances or conditions.

SUBSTRATE SPECIFICATION (Strandsarking)

Strandsarking sheets are 3.60m x 800mm x 16.3mm.

Strandsarking sheets shall be laid with staggered joints. (brick bond) The edges of all sheets shall be supported with dwangs or framing. The maximum allowable spacing for supporting roof framing is 400mm.

When a roof has a pitch below 2 degrees it is recommended to use Strandfloor H3.1.

Strandsarking sheets may be butt jointed with an Ardex release tape used over the join.

Fixings.

Shall be 50mm x 4.8mm diameter stainless steel screws fixed at 150mm centres.

If fixings are bought into 100mm centres on the intermediate supports this will allow use in wind zones very high and extra high without any further treatment. Fixings must be positioned no closer than 10mm from the sheet edges.

SUBSTRATE SPECIFICATION (Concrete)

New concrete

Must be cured for a minimum of 28 days and all curing compounds removed prior to application.

A reduction in cure time can be achieved by utilising the ARDEX HydrEpoxy System (consult ARDEX Technical Department for details).

Old concrete

Must be clean from any contaminents prior to application.

For further substrate types please consult ARDEX Technical Department.

ARDEX WPM 612 TPO

1.14mm Roofing Membrane

ENVIRONMENTALLY FRIENDLY

Heat Reflective

The light colour results in a heat reflective index of 70% and retains a high proportion of this through its service life due to the colour fastness and retention of the membrane.

No Toxic Emissions

The membrane system's chlorine-free, non-halogenated and plasticiser-free formulation in combination with the hot-air welded seaming method produce no emissions harmful to the environment.

Bacteria Propagation Resistant

ARDEX TPO Roofing Membrane exhibits excellent resistance to the propagation of discolouring bacteria that reduces the heat reflectivity and energy efficiency.

Low Carbon Footprint

ARDEX TPO membrane can also be easily recycled and has a lower production footprint than comparable systems.

GREEN ROOF SYSTEM

Due to ever increasing concern for the environment, green roofs are becoming a regular part of our landscape. ARDEX TPO Roofing Membranes have successfully passed the FLL test for root penetration resistance in green roofs. It is an ideal membrane for combination with extensive green roof systems using lightweight and low maintenance sedum vegetation.

The ecological benefits of a green roof system are numerous:

Reduction of the urban heat island effect

Prevents reflection of the heat into the surrounding atmosphere. Plant transpiration resulting in cooling the atmosphere.

Reduction of energy costs

Excellent natural insulation properties to help keep the cold out in winter and the heat out in summer.

Storm water management

Through water retention and increased evaporation.

New habitats for plants & animals

Green roofs create a natural habitat for local wildlife.

Improved air quality

Purification of the air by filtering dusts and pollutants and converting CO_2 into oxygen.

Reduction of noise pollution

Excellent sound insulators reducing the noise pollution from external sources.

ACCESSORIES

ARDEX WPM 623 - TPO Flashing

Non reinforced TPO membrane to be used in situation where a pre-moulded accessory is not available. Supplied as a 0.61m x 15.25m roll in white or grey.

ARDEX TPO Inside/Outside Corners

Flexible non reinforced TPO specifically designed for flashing inside or outside corners. Supplied as a 76mm x 76mm x 82mm corner with a 12.7mm radius on all edges of the raised corner, in white or grey.

ARDEX TPO Universal and Large Pipe Flashing

Supplied in white or grey.

ARDEX TPO QuickSeam Flashing

Non reinforced TPO membrane laminated to a white cured seaming tape for flashing metal roof edging profiles and other details. Supplied as a 0.14m x 30.5m roll, in white.

ARDEX 649 - Contact Adhesive

Contact adhesive for bonding ARDEX WPM 612 TPO membrane to wood, metal and other acceptable substrates. It is supplied as a yellow colour in 18.9 litre pails.

ARDEX WPM 651 - TPO Cut Edge Sealant

Polymer based sealant designed to seal cut edges of ARDEX WPM 612 TPO membrane where the scrim reinforcement is exposed. White or grey in cartons of 4 bottles.

ARDEX WPM 657 - TPO General Purpose Sealant

High quality sealant with excellent adhesion to a variety of surfaces, used as a termination bar caulk and cut edge/seam sealant. Supplied in cartridges, coloured white.

ARDEX WPM 659 - TPO Pourable Sealant

A two component polyurethane sealer to seal around small pipe penetratins, clusters of pipes, I beams etc in a penetration pocket detail. In 3.78 litre packs, coloured white.

ARDEX All Purpose Fasteners

Are specifically designed for mechanical attachment of the ARDEX TPO membrane to steel, plywood and timber decks. They are supplied as 32mm long screws, coloured red.

ARDEX HD Seam Plate

To be used for the attachment of the ARDEX TPO membranes to approved substrates using ARDEX All Purpose Fasteners. 60.3mm diameter plates.

ARDEX Pressure Seal

Designed for termination of ARDEX TPO membrane against smooth walls in all roofing situations. supplied as 3.1m x 35mm x 2.2mm thick bars.

ARDEX WPM 615

TPO Roofing Membrane

BRANZ Appraised
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DESCRIPTION

ARDEX WPM 615 (TPO Roofing Membrane) is a flexible Thermoplastic Polyolefin roofing membrane made from the incorporation of an ethylene propylene rubber into a polypropylene matrix and produced with polyester weft inserted reinforcement.

PREPARATION

Roofing structure needs to be stable enough to support the temporary loading. Substrates need to be clean, smooth, dry and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the membrane. All surface voids greater than 5mm wide shall be properly filled with an acceptable fill material.

APPLICATION

Place ARDEX WPM 615 (TPO Roofing Membrane) as close as possible to its final position. Inspect the wrapper and ARDEX WPM 615 (TPO Roofing Membrane) roll for damage before and during the installation.
Unroll ARDEX WPM 615 (TPO Roofing Membrane) and prior to any attachment, cutting or welding, allow each panel to relax a minimum of 30 minutes. Cut a cross-shaped opening above every drain to evacuate excess ponding water, in case of sudden rainfall.
ARDEX WPM 615 (TPO Roofing Membrane) panels shall be installed in a fashion so that field and flashing splices are installed to shed water. Straight cuts are very important for a neat and easy application.
Allow ample material for splicing determined by the type of seam and tie-ins.
Temporary ballasting during installation may be required to keep the membrane in place until it is secured to the substrate. Suggested temporary ballasting includes sand bags and other non-abrasive materials such as rubber tyres, etc. Never leave the project without temporary ballasting loose laid sheets.

COVERAGE

The dimensions of the membrane are calculated to cover the substrate, including seam overlaps (75mm for standard seams – 150mm for seams with mechanical anchoring in the seam) and upstands. Provide an additional length (150mm) at upstands for easy manipulation.

PHYSICAL CHARACTERISTICS

- Excellent durability and tear and puncture resistance
- High chemical, (micro) bacterial, UV and weathering resistance
- No plasticisers or chlorinated ingredients
- Avoid contact with oil and petroleum based products, grease and hot bitumen
- Colour: grey is available, with white on request

TECHNICAL CHARACTERISTICS

Property	Test Method	Value
Watertightness	EN 1928 (A)	Pass
Tensile strength (both directions)	EN 12311-2	≥800 MPa
Elongation at reinforcement break	EN 12311-2	≥ 20%
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Foldability at low temperature	EN 495-5	≥ -45°C
External fire performance	EN 13501-5	B_{ROOF}(t1)
Reaction to fire	EN 13501-1	E
Root resistance	pr EN 13948	Pass

PACKAGING

Thickness 1.5mm

Width 2.00m

Length 30.5m

Weight 1.54 kg/m^2

STORAGE

Store away from sources of puncture and physical damage. Store away from ignition sources and open flame. Unlimited Shelf Life.

PRECAUTIONS

Exercise caution when lifting, moving, transporting, storing or handling membrane rolls to avoid sources of punctures and possible physical damage.

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ARDEX WPM 615

TPO Roofing Membrane

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Substrates must be dry when Butynol® is applied. The plywood and the timber substructure shall have a maximum moisture content of 20% when Butynol is adhered.

Plywood panels shall be laid with staggered joints (brick bond), the edge of sheets shall be supported with dwangs or framing, unless a structurally tested tongue-in-groove edge provides equivalent support. The maximum recommended span in E2/AS1 is 400mm. However specific design may allow 17.5mm plywood or greater to be laid on 400mm purlins with nogs or dwangs at 600mm or even 1200mm centres. Plywood shall be laid with the face grain at right angles to the supports. A 20mm triangular fillet shall be used at the base of any 90° upstand. External edges shall be chamfered with a minimum radius of 5mm.

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For further substrate types please consult ARDEX Technical Department.

ARDEX WPM 615

TPO Roofing Membrane

ENVIRONMENTALLY FRIENDLY

Heat Reflective

White colour results in a heat reflective index of 70% and retains a high proportion of this through its service life due to the colour fastness and retention of the membrane.

No Toxic Emissions

The membrane system's chlorine-free, non-halogenated and plasticiser-free formulation in combination with the hot-air welded seaming method produce no emissions harmful to the environment.

Bacteria Propagation Resistant

TPO Roofing Membrane exhibits excellent resistance to the propagation of discolouring bacteria that reduces the heat reflectivity and energy efficiency.

Low Carbon Footprint

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Reduction of energy costs

Excellent natural insulation properties to help keep the cold out in winter and the heat out in summer.

Storm water management

Through water retention and increased evaporation.

New habitats for plants & animals

Green roofs create a natural habitat for local wildlife.

Improved air quality

Purification of the air by filtering dusts and pollutants and converting CO_2 into oxygen.

Reduction of noise pollution

Excellent sound insulators reducing the noise pollution from external sources.

ACCESSORIES

ARDEX WPM 623 - TPO Flashing

Non reinforced TPO membrane to be used in situation where a pre-moulded accessory is not available. Supplied as a 0.61m x 15.25m roll in white or grey.

ARDEX TPO Inside/Outside Corners

Flexible non reinforced TPO specifically designed for flashing inside or outside corners. Supplied as a 76mm x 76mm x 82mm corner with a 12.7mm radius on all edges of the raised corner, in white or grey.

ARDEX TPO Universal and Large Pipe Flashing

Supplied in white or grey.

ARDEX TPO QuickSeam Flashing

Non reinforced TPO membrane laminated to a white cured seaming tape for flashing metal roof edging profiles and other details. Supplied as a 0.14m x 30.5m roll, in white.

ARDEX 649 - Solvent based Bonding Adhesive

Solvent based contact adhesive for bonding ARDEX WPM 615 TPO membrane to wood, metal and other acceptable substrates. It is a grey colour andin 18.9 litre pails.

ARDEX WPM 651 - TPO Cut Edge Sealant

Polymer based sealant designed to seal cut edges of ARDEX WPM 615 TPO membrane where the scrim reinforcement is exposed. White or grey in cartons of 4 bottles.

ARDEX WPM 657 - TPO General Purpose Sealant

High quality sealant with excellent adhesion to a variety of surfaces, used as a termination bar caulk and cut edge/seam sealant. Supplied in cartridges, coloured white.

ARDEX WPM 659 - TPO Pourable Sealant

A two component polyurethane sealer to seal around small pipe penetrations, clusters of pipes, I beams etc in a penetration pocket detail. In 3.78 litre packs, coloured white.

ARDEX All Purpose Fasteners

Are specifically designed for mechanical attachment of the ARDEX TPO membrane to steel, plywood and timber decks. They are supplied as 32mm long screws, coloured red.

ARDEX HD Seam Plate

To be used for the attachment of the ARDEX TPO membranes to approved substrates using ARDEX All Purpose Fasteners. 60.3mm diameter plates.

ARDEX Pressure Seal

Designed for termination of ARDEX TPO membrane against smooth walls in all roofing situations. Supplied as 3.1m x 35mm x 2.2mm thick bars.

ARDEX WPM 649

TPO Bonding Adhesive

DESCRIPTION

ARDEX WPM 649 TPO Bonding Adhesive is a solvent based contact adhesive designed specifically for bonding ARDEX WPM 615 TPO membranes to approved insulations in addition to wood, metal, masonry and other acceptable substrates.

PREPARATION

1. Stir the adhesive thoroughly to achieve a uniform mix with no sediment on the bottom and no marbling evident before and during use.
2. Apply ARDEX WPM 649 Bonding Adhesive at about the same time to both the exposed underside of the sheet and the substrate to which it will be adhered so as to allow approximately the same drying time. Apply ARDEX WPM 649 Bonding Adhesive evenly avoiding areas of accumulation.
3. Apply the ARDEX WPM 649 Bonding Adhesive with a solvent resistant paint roller, and roll the adhesive onto the mating surfaces. When applying ARDEX WPM 649 Bonding Adhesive, ensure complete uniform coverage of both surfaces that will be adhered. Care must be taken not to apply Bonding Adhesive over seam areas.
4. ARDEX WPM 649 Bonding Adhesive can be dispensed by means of power rollers or industrial spray equipment. Other equipment may be used as recommended by the manufacturer for application of this adhesive. Note: Spray applied bonding adhesive requires back- rolling with a 230mm wide solvent resistant roller (medium nap) to insure 100% coverage of the adhesive on the substrate and membrane.
5. Allow Bonding Adhesive to flash off until tacky. Touch down on the Bonding Adhesive surface with a clean, dry finger to be certain that the adhesive does not string. As you are touching the adhesive, pushing straight down to check for stringing, also push forward on the adhesive at an angle to ensure that the adhesive solvents have flashed off and are ready throughout its thickness. If either motion exposes wet areas or sticking when the finger is lifted, then it is not ready for mating. Flash off time will vary depending on ambient conditions.
6. Starting at the fold, roll the previously coated portion of the sheet into the coated substrate slowly and evenly so as to minimize wrinkles.
7. To ensure proper contact, compress the bonded half of the sheet to the substrate with a stiff push broom using heavy pressure immediately after mating.
8. Contact your ARDEX Technical Services on 1800 224 070 for specific application information.

COVERAGE

A coverage rate of 1.10 – 1.47m² per litre may be obtained depending on the substrate. Some insulation surfaces are more uneven and porous and will result in a lower coverage rate while smooth non-porous substrates will result in higher coverage rates. Rates are based on roller application to both mating surfaces. Very porous substrates (rough wood, concrete block) may require two coats of Bonding Adhesive, to ensure proper adhesion. This can be determined by testing a small area. Check by adhering a small piece of membrane to the porous substrate to verify the bonding strength.

APPROVED POWER EQUIPMENT

Garlock 25ST Roller Boss Power Roller

4 hp Honda Engine, 4 CFM Compressor, 25 gal pressurized supply tank (20 gal for material; 60 – 80 psi), Up to 100 psi rating, 2 – ¾" x 30' supply hoses with swivels, 2 – 18" roller head assemblies.

Garlock 2120 Commander Sprayer

18 hp Kohler Engine, 4500 psi Rating, 5 Gallon per Minute Flow, 1200 psi Pressure (minimum), Pump Displacement 45:1, GPM Rating: up to 5 gpm, ½" x 100' hose, 2" Intake pipe with screen, 5 or 55 gal drum containers, Graco Spray Tips: .023 to .031 diameter hose.

Garlock Twin Gun Airless Sprayer

6.5 hp Honda Engine, 3000 psi Rating, Pump Displacement 30:1, GPM Rating: up to 1 gpm, Up to 400' of single ½" diameter hose, Up to 200' of dual ½" diameter hose, ¾" Intake pipe with screen, 5 or 55 gal drum containers, Bulk tank containers, Graco Spray Tips: .019 to .025 diameter hose (1850 psi operating pressure).

Graco Spray Equipment

P70EC4-70 – 70:1 Xtreme Sprayer Package w/Heavy Duty car, Hopper package, w/NXT motor and Data Track, Xtreme-Duty high pressure hose, 3/8" x 50', 7250 psi, with ¼" x 6' whip hose, XTR-7 applicator with XHD821-825 tips.

PRECAUTIONS

Review applicable Material Safety Data Sheet prior to using. Flammable. Keep away from fire and open flame and other possible ignition sources during storage and use. Do not smoke when using. Harmful or fatal if swallowed. Avoid prolonged inhalation.

Avoid prolonged contact with skin. Gloves should be worn (OSHA approved). Avoid eye contact by wearing safety goggles with side shields. Thinning is not allowed. Do not use for splicing. Use only in well ventilated areas. Cover tightly when not in use. Recommended cleaner is Toluene (while fluid).

TECHNICAL DATA

Base:	A blend of Polychloroprene and SBR rubbers
Colour:	Yellow
Solvents:	A blend of acetone, hexane, toluene and xylene
Viscosity:	3,300 – 3,800 cps, with R.V.F. spindle @ 10 rpm
Weight/Gallon:	6.6 – 7.4 lb/gal
Specific Gravity:	0.7909-0.8868

PACKAGING/STORAGE/SHELF LIFE

Packaging:	18.9L pail
Storage:	Store in original unopened containers at temperatures between 15 – 25°C. If exposed to lower temperatures, restore to room temperature prior to use. Do not allow to freeze.
Shelf Life:	12 months if stored in above mentioned conditions. Shelf life will be shortened if exposed to elevated temperatures for a prolonged period of time.

GUARANTEE

ARDEX Australia Pty Ltd ("we" or "us") guarantees this product ("our goods") is free from manufacturing defects and will perform to any applicable specification published by us for 10 years from the date of purchase. Our liability under this guarantee is limited at our option to replacement of the product, repair of any damage to the immediate surface or area of application of the product, or compensation, in each case if we are satisfied loss or damage was due to a breach of this guarantee.

This guarantee does not apply if damage or loss is due to failure to follow published instructions or any act or circumstance beyond our control, including shade variations and efflorescence. If you wish to make a claim under this guarantee you must notify us (ARDEX Australia Pty Ltd, 20 Powers Road Seven Hills NSW 2147; Toll Free: 1800 224 070; Email: techinfo@ardexaustralia.com) and provide evidence of your purchase of the product within 30 days of any alleged loss or damage occurring. We reserve the right to ask you for satisfactory evidence of any alleged loss or damage. Any claim under this guarantee is at your cost.

This guarantee is in addition to any rights or remedies you may have as a "consumer" under the Australian Consumer Law and to that extent you need to be aware that: "Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss of damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure".

ARDEX Australia Pty Ltd
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ARDEX New Zealand Ltd

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