

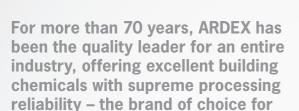
NEXT GENERATION WATERPOOFING MEMBRANES

Weldlec.

WELDABLE WATERPROOFING MEMBRANES

ARDEX GROUP

installers and wholesalers.



Strong internal growth and intelligent acquisitions in foreign markets today puts the ARDEX Group on the map with 53 subsidiaries and 3000 employees in over 100 countries on all continents, with one unique theme around the world; ARDEX ensures our valued customers receive the same high quality products and services.

ARDEX Australia is part of the ARDEX Group, a company founded in Germany in 1949, that has grown to become a global business, providing engineered solutions for tiling, flooring, waterproofing and concrete repair.

From sub-floor to roofing, we have developed products that stand the test of time – and moisture. Non-failure in these areas, even under extreme conditions, is critical which is why so many professionals rely on ARDEX.

Innovation has been a key influencer to this continued success, with technologies introduced many years ago still unique in their respective industries today. Being part of the Global ARDEX Group, ARDEX Australia has access to a huge research and development resource which is continually developing world unique products and technologies.



SYSTEM ARDEX

ARDEX is committed to developing products that are easy to use and offer high performance. ARDEX products, systems and services are designed to ensure professional contractors get the competitive advantage of a lower total cost of installation through superior performance.

ARDEX tiling and waterproofing products are designed to work together for total reliability and performance. Each product is the careful result of research and development combining the input of contractors, specifiers and installers to ensure absolute product compatibility.

A system of high quality, totally compatible products matched to unparalleled technical and field support.

We call this SystemARDEX.

SUSTAINABILITY



Source raw materials, packaging and products responsibly and work with our suppliers to deliver materials within our sustainability platform objectives.



Consider the life-cycle of products from innovation to disposal, and apply product declarations to support their use in the marketplace.



Promote the use of our products in repair and restoration to prevent the generation of waste from substrate/core structure replacement.



Use energy efficiently throughout our business processes. Measure and commit to reducing energy consumption and source its supply in line with the sustainability vision.

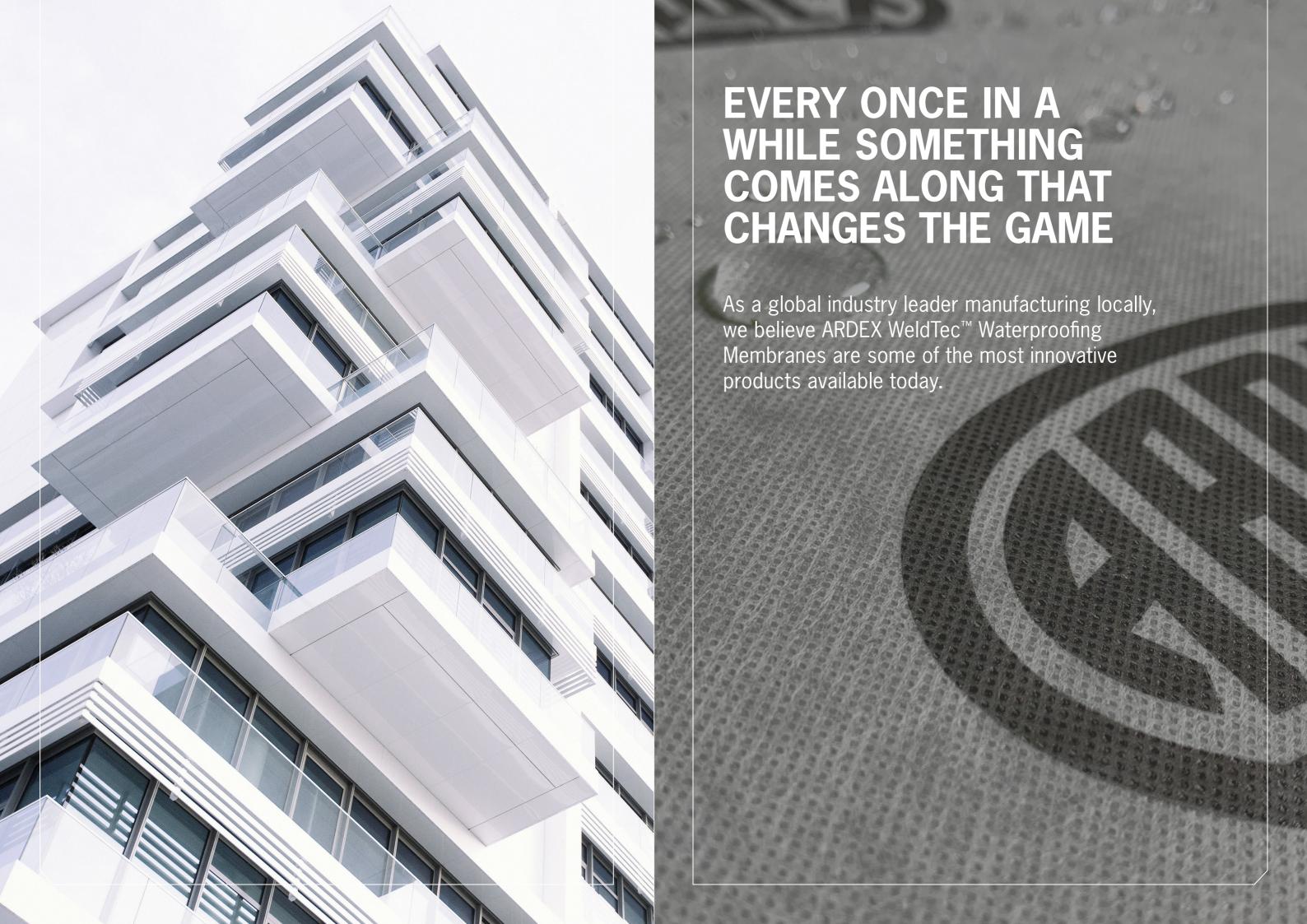


Eliminate waste and reuse, recycle or recover energy from waste that cannot be otherwise prevented. Waste will only be land-filled as a last resort.



Develop sustainable workplace environments, foster employee awareness to act in accordance to these values and promote social responsibility.





WHAT IS WeldTec.?

ARDEX WeldTec is a Weldable Waterproofing Sheet Membrane made up of synthetic rubber and Polypropylene filaments which resists against aging and remains flexible to accommodate structural movements.

WeldTec is one of the safest products on the market today achieving the Green Building Council of Australia Green Star for low VOC emissions. Ensuring every element of the building is protected, ARDEX engineered key WeldTec products.

THE WeldTec. RANGE

ARDEX WPM 750

Safe and secure undertile waterproofing solution suitable with undertile heating systems.

ARDEX WPM 1000

High performance easy installation waterproofing membrane suitable for tanking, rooftops, decks, under tiles, pavers, pond linings and cavity door flashings.

ARDEX WPM 715

High quality, heat-welded waterproofing membrane designed for use in exposed areas with properties that resist ageing from heat, sunlight and ozone.

ARDEX WPM 1500

High performance below ground tanking waterproofing membrane suitable for geothermal conditions, tanking foundations, basements, and all other below ground waterproofing.

ARDEX ROOT REPELL™

Versatile weldable waterproofing membrane with Root Inhibitor suitable for planter boxes, retaining walls and living roofs.

WHY CHOOSE WeldTec.?

WeldTec is hot air welded to provide a guaranteed watertight seam and lap. No fussing with tapes or adhesives!

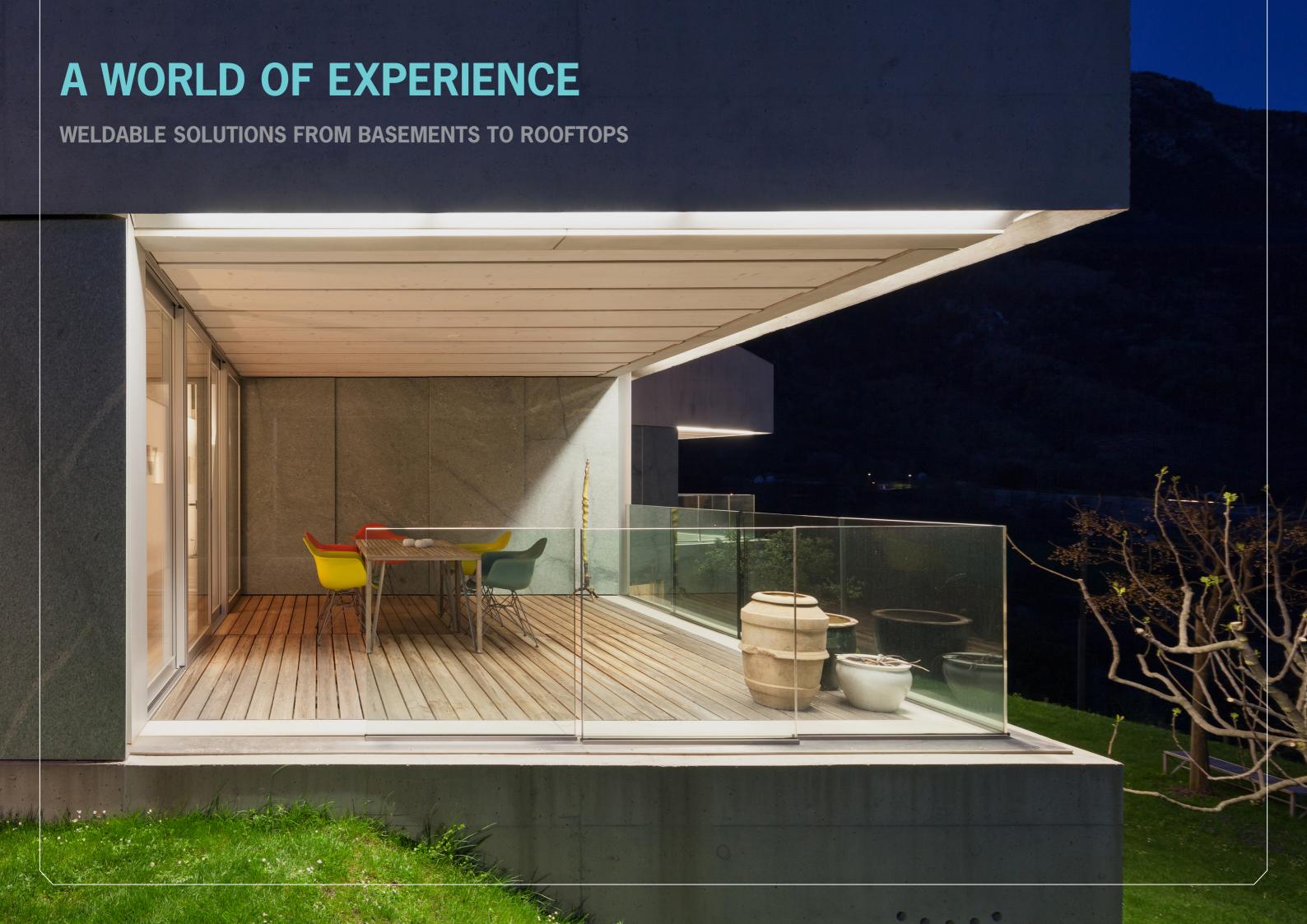
It is the ideal range for combinations with living roofs to creating subfloor warm rooms.

The range provides an economical option due to its cost-effective dimensions, installation is quick and can be easily managed by one person.

KEY FEATURES AND BENEFITS

- Resists tearing, flex-cracking, bubbling and abrasions
- Welded detailing creates superior water tight laps
- Forms a unique continuous waterproofing membrane
- Heat welded laps and seams results in quick installation
- Loose laid or fully adhered system is available
- Excellent flexibility and elongation





WELDTEC™ INTERNAL UNDERTILE SHEET MEMBRANE

ARDEX WPM 750



COMPOSITION

The ARDEX WPM 750 is an undertile waterproofing sheet membrane system that is fleece-lined for the direct adhesion of tiles and screeds in areas such as showers and bathrooms.

The ARDEX WPM 750 is heat welded at the laps and seams to create a superior sheet membrane, with a consistent membrane thickness that allows for quick installation.

TILING

Recommended ARDEX tile adhesives such as ARDEX X77, ARDEX X56, ARDEX X18 or ARDEX Optima can be used.

For other ARDEX adhesives, contact ARDEX Technical Services.

UNIQUE CHARACTERISTICS

- Compliant to AS4858 Wet Area Membranes
- Commence direct stick tile and screed applications 60 minutes after membrane installation
- Total 0.75mm waterproofing gauge
- Heat welded seams and laps
- Excellent resistance to cracking, tearing, bubbling, and absorption
- Compatible with ARDEX recommended tile adhesives
- Compatible with ARDEX water-based liquid applied membranes
- Excellent flexibility and elongation no fillet or bond breaker required
- Up to 20 years material warranty

SUBSTRATES

Concrete, compressed fibre cement sheet, plywood, and paper face plaster board (wet areas). For further substrate types, please consult with ARDEX Technical Department 1800 224 070.

SIZE

1.40m wide x 20m long

THICKNESS

0.75mm

PACKAGING

Weight per roll = 16kg

WELDTEC™ EXTERNAL UNDERTILE SHEET MEMBRANE

ARDEX WPM 1000



COMPOSITION

The ARDEX WPM 1000 is a versatile/tileable rubber membrane that can be heat welded. It has excellent gas impermeability and toughness which remains flexible at low temperatures.

The ARDEX WPM 1000 is suitable for waterproofing non-exposed rooftops, decks, under tiles, pavers, canal and pond linings (when tiled or slurry coated), cavities and door flashings.

TILING

Recommended ARDEX tile adhesives such as ARDEX X77, ARDEX X56, ARDEX X18 or ARDEX Optima can be used.

For other ARDEX adhesives, contact ARDEX Technical Services.

UNIQUE CHARACTERISTICS

- Compliant to AS4654.1 Waterproofing Membranes for External Above-ground Use Materials
- Compliant to AS2904 Damp-proof Courses and Flashings
- Commence direct stick tile and screed applications 60 minutes after membrane installation
- Total 1.2mm waterproofing gauge
- Excellent resistance to cracking, tearing, bubbling, and absorption
- Excellent flexibility and elongation no fillet or bond breaker required
- Heat welded seams and laps
- Compatible with ARDEX recommended tile adhesives
- Compatible with ARDEX water-based liquid applied membranes
- Up to 20 years material warranty

SUBSTRATES

Concrete, compressed fibre cement sheet, plywood, and paper face plaster board (wet areas). For further substrate types, please consult with ARDEX Technical Department 1800 224 070.

SIZE

1.40m wide x 20m long

THICKNESS

1.2mm

PACKAGING

Weight per roll = 35kg

WELDTEC™ VERSATILE MEMBRANE WITH ROOT INHIBITOR

ARDEX ROOT REPELL™



COMPOSITION

Specially formulated, the ARDEX ROOT REPELL™ contains a premium Root Inhibitor, PREVENTOL B2, which repels root growth without killing the root. It is designed primarily for areas covered or exposed to soil and plants. Once installed, the ARDEX ROOT REPELL™ will remain a permanently flexible waterproofing lining.

USES

Can be used on any project size from commercial to residential buildings. The ARDEX ROOT REPELL™ Weldable Waterproofing Membrane is a high performance membrane specially designed for waterproofing planter boxes, garden beds, retaining walls, living roofs and anywhere that is susceptible to roots causing damage to the membrane or structure.

UNIQUE CHARACTERISTICS

- Compliant to AS4654.1 Waterproofing Membranes for External Above-ground Use Materials
- Heat welded laps and seams means large roof gardens can be quickly installed
- Total 1.2mm waterproofing gauges
- Excellent resistant to tearing, flexcracking, bubbling and abrasion
- ARDEX ROOT REPELLTM successfully passed the FLL test for root and rhizomes penetration
- Premium root inhibitor to provide effective root control without killing the root
- Resistant to fertiliser and chemicals
- Up to 20 years material warranty

SUBSTRATES

Concrete, compressed fibre cement sheet, and plywood. For further substrate types, please consult with ARDEX Technical Department 1800 224 070.

SIZE

1.40m wide x 20m long

THICKNESS

1.2mm

PACKAGING

Weight per roll = 35kg

WELDTEC™ BELOW GROUND TANKING MEMBRANE

ARDEX WPM 1500



COMPOSITION

The ARDEX WPM 1500 is a fleece-lined, weldable tanking membrane for below ground applications. It is generally applied prior to concrete being cast against it. ARDEX WPM 1500 is fully bonded which allows resistance against lateral water migration.

USES

As well as being resistant to chemical attacks, ARDEX WPM 1500 is tested for geothermal areas so it withstands thermal shocks and accommodates structural movement.

The ARDEX WPM 1500 is used as a single layer membrane in horizontal or vertical applications for waterproofing within below ground tanking. It is primarily applied to the outside structure of a building, such as foundations or basement to prevent water ingress.

Other forms of tanking where ARDEXWPM 1500 can be used include under floor slabs, behind masonry walls, the linings of substrates of in situ or pre-cast concrete, retaining walls, lift shafts, and tunnels.

UNIQUE CHARACTERISTICS

- BRANZ Appraised No.1126 (2021) -Below Grade Tanking
- Compliant to AS4654.1 Waterproofing Membranes for External Above-ground Use Materials
- Accommodates structural movements
- Resistant to chemical attacks
- Withstands thermal shocks
- Total 1.5mm waterproofing gauge
- High elongation with excellent crackbridging capabilities
- Gas barrier applications resistent against radon, hydrogen sulphide, and methane gas
- Not reliant on confining pressures, hydration or tape seams to permanantly bond to the structure
- Welded detailing creates very strong and long lasting watertight laps
- Can be loose laid or direct adhered
- Up to 20 years material warranty

SUBSTRATES

Concrete, compressed fibre cement sheet, and plywood. For further substrate types, please consult with ARDEX Technical Department 1800 224 070.

SIZE

1.40m wide x 20m long

THICKNESS

1.5mm

PACKAGING

Weight per roll = 53kg

WELDTEC™ EXPOSED ROOFING MEMBRANE

ARDEX WPM 715



DESCRIPTION

ARDEX WPM 715 is a high quality, heat-welded waterproofing membrane designed for use in exposed areas. Each membrane shows excellent resistance to atmospheric agents, and resistant to ageing from heat, ozone, and sunlight. ARDEX WPM 715 displays excellent flexibility in low temperatures, suitable for all climatic zones, and with excellent resistance to geothermal gas including hydrogen sulphide and methane. The heat-welded installation ensures fast installation and added security as a strong, continuous membrane.

USES

ARDEX WPM 715 are ideal for use as single layer membranes in both horizontal or vertical applications for waterproofing decks and roofs.

UNIQUE CHARACTERISTICS

- Compliant to AS4654.1 Waterproofing Membrnes for External Above-ground Use Materials
- Excellent resistance to ageing from heat, sunlight and ozone
- Excellent resistance to atmospheric agents
- Excellent resistance to geothermal gas including hydrogen sulphide and methane
- Welded detailing creates very strong watertight laps
- Excellent flexibility at lower temperatures
- No significant maintenance required
- Available in grey & black finish
- Up to 20 years material warranty

SUBSTRATES

Concrete, Plywood, Insulation Board, Orientated Strandboard, CFC Sheet, Timber, Galvanised Metal, Zincalume, and Polyurethane Foams.

For further substrate types please consult ARDEX Technical Department.

THICKNESS

ARDEX WPM 715 = 1.5mm

PACKAGING

ARDEX WPM 715 weight per roll = 52kg

SIZE

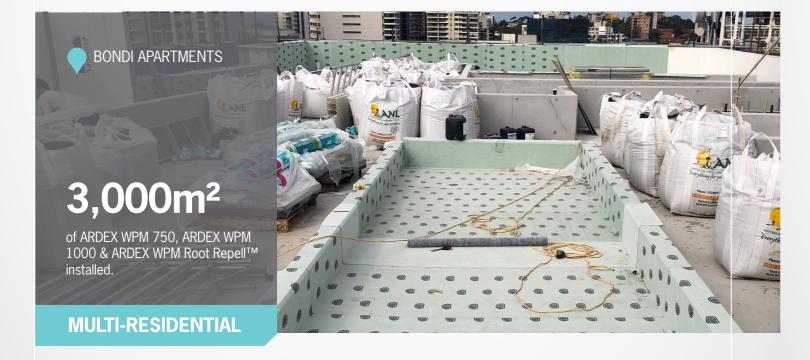
1.40m wide x 20m long



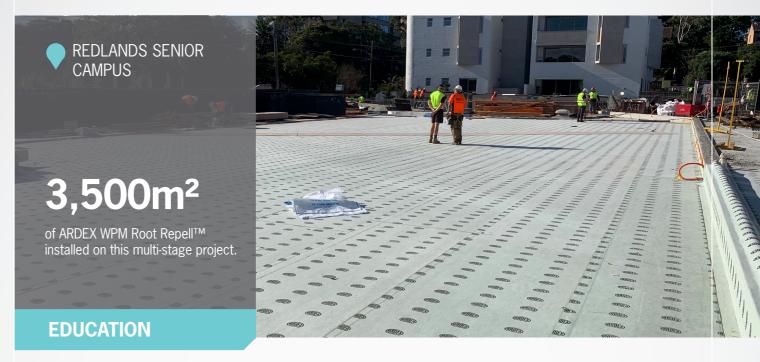
PROJECT SOLUTIONS



ARDEX was able to provide a solution for below ground works by specifying **ARDEX WPM 1500**. Over 300 square metres of membrane was subsequently applied for this project. **ARDEX WPM 1500** was detailed around pile caps and a "pitch pocket" was created using off-cuts of **ARDEX WPM 1500**. This was then filled with **ARDEX EG 800 F** flowable commercial epoxy grout system and 5/2 aggregate to create a reliable and long lasting waterproofing system.



Due to the SystemARDEX approach, the Weldtec™ system was specified on this newly constructed multi-level residential apartments. The **ARDEX WPM 750** was installed in all bathrooms and wet areas, in conjunction with the **ARDEX WPM 002** liquid membrane. The multi-purpose rooftop entertaining area consisted of **ARDEX WPM 1000** being installed under paver pad systems, with the **ARDEX Root Repell™** being installed within all planter boxes. This external area was completed with the **ARDEX WR 120 FR** render as part of the ARDEX system.



The Weldtec[™] system was chosen due to its speed of installation, durability, and reliability. The multipurpose outdoor landscaped areas were constructed over the top of existing classrooms and the new carpark. The **ARDEX WPM Root Repell**[™] was installed as part of a complete SystemARDEX specification, along with the **ARDEX DRS 50 DC** drainage cell and **ARDEX DRS 1 GT** geotextile fabric.



Work was undertaken to waterproof sections of the Manly Early Learning Centre. The waterproofing system undertaken on this three-storey building included waterproofing all planter boxes & garden beds on each level with **ARDEX Root Repell™** along with waterproofing all concrete decks with **ARDEX WPM 1000** which were either direct stick tiled or covered with a timber decking system. Over 3,000sqm of **ARDEX WPM 1500** was installed in the below-ground car park.

RELIABLE SOLUTIONS

ARDEX WELDTEC MEMBRANE OFFERS SUPERIOR RESISTANCE & DURABILITY

ARDEX WeldTec has outstanding resistance to flex-cracking, tearing, and abrasions. The stable formula components can provide in excess of 20 year durability as a membrane in the Australian environment.

FAST AND EASY

The single ply protection requirement and fast hot air welded seams combine for a rapid installation process. ARDEX WeldTec is available in easy to use 1.4m widths x 20m lengths providing fast economical coverage.

OUALITY ASSURANCE

Drawing on our vast industry and product knowledge, ARDEX offers one-on-one technical support and a robust guarantee and warranty.

SECURE HOT AIR WELDED SEAMS

ARDEX WeldTec hot air welded seams result in high strength and a fully secure, consistent seam quality. Heat welded seams form a homogeneous bond by fusing the top and bottom sheets together. ARDEX WeldTec seaming process enables it to be installed year round in a variety of weather conditions.

TECHNICAL SUPPORT

ARDEX offers comprehensive technical backup and support. Our dedicated Technical Services Facility, R&D facility and experienced Sales and Service field staff provide assistance in writing specifications to ensure the best result possible.

SYSTEM SECURITY

Backed by an international company that has been successfully involved in the building and construction industry for over 70 years, you can stake your reputation on the ARDEX Australia system. Our products have been developed in the total SystemARDEX philosophy and the technology is based on innovation that has been a key influencer to this continued success.

APPLICATION

The ARDEX WeldTec range are high performance waterproofing membrane systems, that are simple to install and safe to use. The ARDEX Weldtec range is to be installed only by ARDEX Accredited Applicators who are trained by our technical staff from the ARDEX Training Academy.

