



Extremely able
Extremely safe
absafe



Absafe Pty Ltd
Ph 03 9486 3777
Web absafe.com.au

106 Gipps Street
Collingwood, VIC 3066



At Absafe, passion is our driving force, experience makes us one of the best and innovation keeps us there.

What we do

Absafe Pty Ltd is a leading specialist contractor that provides industrial rope access inspection, remedial and maintenance services to all forms of façade and structures as well as height safety services.

We specialise in working at height, confined spaces and other difficult access situations.

Absafe's experience managing complex works in challenging environments is the key in our delivering innovative solutions for all manner of engineering projects and façade and structural works.

Safe and cost effective, Absafe's trade qualified and experienced technicians deliver world-class results backed by three separate accreditations as well as industry recognised certifications and affiliations.

Operating since 2002, our management team has over a 150 years combined experience in trades based rope access and engineering.

With over 50 employees and branches in Melbourne and the Latrobe Valley you can always be assured of the best technicians and most up to date equipment and procedures being brought to your project.

Absafe also runs a retail branch, Absafe Specialist Equipment, supplying height safety, rope access, and specialist rescue equipment with a showroom and test facility to try out what gear is right for you.

Services

- Remedial Engineering & Maintenance
- Concrete Repairs
- Protective Coatings
- Height Safety
- Rope Access
- Confined Space
- Condition Assessment / Inspection
- Engineering
- Cardox
- Shotcreting
- Specialist Equipment

Qualifications

- Industrial Rope Access Trades Association (IRATA)
- Painter Contractor Certification Program (PCCP) Accreditation
- Civil Contractors Federation (CCF)
- Australasian Concrete Repair Association (ACRA)
- Australian Corrosion Association (ACA)
- Registered Building Practitioners







Integrity is critical to our approach, consequently we are regularly audited in order to maintain our IRATA and PCCP membership and we are currently working towards ISO 9001 certification.

History of Excellence

Absafe has a proven history delivering projects within the industrial sector. Our success managing inspection and remedial engineering on chimney stacks, cement silos, cooling towers, power station boiler ducts, transmission towers & specialist experience in bridge and façade inspection and refurbishment, has helped us develop unique and effective procedures to deal with these difficult to access areas and carve ourselves a niche position for our expert services.

We are highly experienced shutdown specialists and can provide turn-key for inspection and remedial engineering works.

At Absafe, we understand the importance of operating within critical time paths and within the intense framework of major shuts and work to integrate with broader services for the most efficient outcomes on projects of this type.

Absafe's core expertise lies in its ability to access difficult spaces and carry out works safely and proficiently. This combined with our engineering and technical expertise means we can work with clients to install, maintain and monitor structures throughout their lifetime.

Our long history, combined with our constant striving to be at the forefront of the industry, means the wealth of experience and innovative equipment solutions we bring to projects provide our partners with effective solutions to meet all project needs.

Our continuous improvement process involves constant monitoring of our Integrated Management System (IMS) for performance markers to maintain innovation and best outcomes for our client partners. Formal project debriefs are reviewed by the senior management teams so changes to policy and procedures can be adopted where necessary and information can be captured and implemented for future project solutions.

Safety Standards

- Integrated Management System (IMS)
- Quality Management System in accordance with AS/NZS ISO 14001: 2004
- Environmental Management System in accordance with AS/NZS ISO 14001:2004
- Occupational Health & Safety Management System in accordance with AS/NZS 4801: 2001





Remedial Engineering & Maintenance

Accessing difficult sites is just the start. Once there, we can repair and maintain all types of plant and machinery and make safe all structures and façades. Whatever your problem, we have the experience and the equipment to deliver the whole solution.

Façade Refurbishment

Absafe cover all aspects of external refurbishment from repairs to coatings. We respond quickly to remove unsafe or dislodged materials from your building façade, and arrange for gantries, scaffolds, booms and all permits.

We repair or install downpipes, rain heads, or flashings that plumbers can't reach. We also fabricate parts so you are only dealing with one contractor. When highly specialised tradesmen are needed, we can set up specialised rigging and temporary safety lines for other contractors.

Concrete Repair

Absafe are experienced at repairing delamination, spalling and cracks in concrete wherever they appear, and performing core drilling wherever needed. We restore structural integrity to concrete walls, slabs and columns with crack injection, and we can boost structural performance with carbon fiber or composite upgrades.

Stabilisation

Rockfall meshing installation- We're experts at adapting rockfall protection meshing to stabilise chimneys and concrete structures. In fact we pioneered it. When it comes to embankments and revetments, we also do top and bottom anchoring, surface scouring and traffic management.

Remedial Engineering and Maintenance Services

- Façade Refurbishment
- Concrete Repair
- Stabilisation





Concrete Repairs

Absafe are specialist concrete repairers dealing with all types of structures within the built environment.

As active members of the Australian Concrete Repair Association (ACRA), we have a long history of façade refurbishment using a variety of repair strategies.

Our mandate of providing quality workmanship to support an effective maintenance plan is integral to ensuring the success of any repair process.

Absafe use an experienced and extensively trained workforce and pride ourselves on being at the forefront of a growing industry. As such, we are committed to constant advancement of techniques and technical knowledge and consistently apply this as part of our continuous improvement processes.

This type of innovation has led to pioneering large scale concrete repair works utilising our specialist access expertise in carrying out shotcreting at heights up to 150 metres.

Concrete Repairs Services

- Concrete Repair
- Form & Pour
- Polyurethane Crack Injection
- Epoxy Crack Injection
- Corrosion Treatments Including Cathodic Protection
- Carbon Fibre Reinforcing
- Shotcreting
- Grout Injection





Protective Coatings

Absafe are PCCP accredited (Painter Contractor Certification Program) with an extensive repertoire of top level coatings projects. We have a trades qualified supervisory team backed by NACE Inspection Certification. Our expertise extends from steel coatings to concrete façades.

We maintain excellent relations with our suppliers and have a commitment to training and keeping abreast of changes within the industry.

Abrasive Blasting

With over ten years of blasting experience, Absafe have developed innovative operating systems and are equipped for working at height or within enclosed spaces. Our blasting units have been customised to enable us to reach areas others can't. We utilise an Atlas Copco compressor combined with 2 inch bull hose into a unit that we've adapted to ensure the optimal cleaning profile despite conditions.

Industrial Coatings

Our industrial applicators work with all types of structures and façade, and we are endorsed as product experts by Jotun, International and BASF. Our Integrated Management System Quality Controls are currently undergoing ISO 9001 Certification.

Waterproof Membranes

We apply all types of waterproofing from bitumen membrane to waterproof coatings. Our expertise extends from façades and roofs through to balconies and basements.

Protective Coatings Services

- Abrasive Blasting
- Industrial Coatings
- Waterproof Membranes







Height Safety

With many years of practical experience, Absafe develop height safety solutions applying new manufacturing technologies, methodologies and PPE innovation to help operators and safety professional navigate and produce practical steps to manage the hazards arising from work at height.

The team at Absafe have a strong focus on safety and risk assessment and with crews actively working in these environments, we have a practical knowledge and depth of understanding of the characteristics, hazards and legislative requirements needed to operate safely. This commitment to safety and operational experience allows Absafe to provide expert consultancy services for high risk environments.

Absafe engineering and consultancy services utilise a range of tools developed specifically for assessing tasks and controls outside the realm of normal day to day work.

Engineering & Installation

Difficult access engineering design is our specialty. Absafe are certified to install, inspect and maintain Sala, Skylotec, Ferno, Sayfa and Latchways height safety systems and can incorporate these with custom designed access solutions, including anchors, walkways, handrails and ladders.

We can design abseiling anchor systems to suit the most complicated or remote structures. We solve common problems such as weak parapets and old roofs with smart solutions to load spreading, and structural upgrades where required. We can design a system that will turn your worst, no go zones into accessible areas. That includes installing man-winchs and rigging.

Height Safety Services

- Engineering & Installation

Absafe can also provide the administrative controls & procedure manuals and can train your staff in the use of new safety systems. The access systems we design are smart, safe, & cost effective. Absafe provide in-house engineering so we can incorporate a range of features without the need to bring in external consultants. All our work is certified to structural design codes and Occupational Health & Safety Standards, and underwritten by professional indemnity insurance.





Rope Access

Absafe is an IRATA member company.

Rope access is a form of work positioning initially developed from techniques used in climbing and caving. Andy Caddy, Absafe's Director, has been working in the field since the inception of Rope Access in Australia in the mid-1990s. He has watched Rope Access evolve from being a little known extreme method of access to one in which \$3 million façade remedial projects solely utilising this technique are the norm.

IRATA International's rope access system is a safe method of working at height where ropes and associated equipment are used for workers to manoeuvre into and operate in difficult access areas.

The advantage of using rope access methods lies in the safety and efficiency with which workers can get to or from difficult locations and then carry out their work, often with minimal impact on other operations and surrounding area. We combine our multi-trade capabilities with advanced rope access techniques to provide unique and cost effective solutions for demanding engineering and construction challenges.

The safety and efficiency provided by using rope access methods allows for greater flexibility in accessing work areas and performing inspection, repair, ongoing maintenance and remediation.

The primary objective when using rope access methods is to plan, manage and carry out the work with minimal accidents, incidents or dangerous occurrences

IRATA International has in place a continuously evolving regime of work procedures that members are required to follow and which are monitored for compliance to ensure that a safe system of work is established and maintained.

This sets IRATA International member companies apart from other rope access providers

Rope Access Services

- Installation
- Repairs
- Inspection

Like any other method of working at height, the application of rope access should be regarded as a complete system, in which planning, management, competence and suitable equipment should be treated with equal importance, as each is dependent on the others to ensure a safe system of work.







Confined Space

The Absafe team includes highly experienced confined space operators using world-leading equipment and technology and innovative entry and rescue recovery solutions.

Experienced in:

- Stainless steel silos
- Boilers
- BGOD
- Water systems
- Sewerage systems
- Concrete bulk material silos

With an experienced trade-skilled team, Absafe provide inspection, maintenance and repair works to the highest standard. We are capable of assuming all procedural responsibility for the confined space system or adopt and comply with clients existing operating procedures.

Standby Rescue

Experienced and trained in supplying standby rescue and retrieval crews for all areas including:

- Low oxygen or hazardous environments Including full SCBA and airline rescue.
- High angle rescue including difficult access areas and safe retrieval
- Rope access within confined spaces (ascending or descending rescues).

Absafe can develop and manage full rescue procedures, hazard assessment and mitigation including confined space procedures, permit systems, environmental & safe work monitoring.

Absafe also supply and manage all associated safety and rescue equipment through our specialist equipment division.

Confined Space Services

- Consultancy
- Installation
- Repairs
- Standby Rescue

Consultancy

Absafe can assist our clients to satisfy the Australian requirements for entering and working in and around confined spaces as well as rescue and recovery solutions. Our confined space expertise draws upon years of practical experience which we can use to ensure your work areas are accessed and managed according to your specific risk profile and comply with current regulations.

Absafe can assist you in developing the following:

- CS Entry Permits
- CS Risk Assessments
- CS Policies & Procedures
- CS Registers
- CS Audits
- CS Rescue Plans





Condition Assessment / Inspection

Absafe use a highly experienced rope access team guided by a professional engineer to inspect sites general inspections can't normally reach. Our detailed inspection reports are written to Australian Standards and industry best practice. Our investigations highlight required works and other vital information needed to accurately price ongoing maintenance and repair works to protect your assets.

Coatings

We are licensed NACE coatings inspectors and we have a large range of specialist equipment including Holiday Testers to thickness and pull off testing units. We're experienced in applying waterproof coatings and a wide range of industrial coatings to external structures.

Corrosion

Using thickness and map testing, visual data compilation and assessment analysis, we can accurately report the exact levels of corrosion in your steel structures.

Façade

Absafe are experts at identifying concrete defects like spalling and delamination, and can detect leaks and perform emergency repair works on all concrete façades and structures. We perform advanced concrete testing and can carry out core drilling at any height, with the added ability to perform emergency makesafes at any time.

Condition Assessment / Inspection Services

- Coatings
- Corrosion
- Façade





Engineering

Absafe provides engineering services to not only complement our works but to provide a standalone service according to the needs of our clients.

Having an in house engineering department means that we always have a professional interface between the clients requirements and service delivery. Clive Austin, our chief engineer, has been with the company over ten years and considered an expert on height safety system design.

Engineering Services

- Façade / Bridge / Structure
 - Refurbishment Consulting
 - Height Safety Systems
- Steel Fabrication Design / Construct

Façade / Bridge / Structure Refurbishment Consulting

Absafe can provide façade inspection reports detailing data collation, concrete laboratory sampling, and remediation method recommendations.

Height Safety Systems

Apart from general height safety system design, Absafe specialises in designing safe access to difficult locations. Whether it be for rope access systems for façade maintenance or accessing confined space or plant and equipment.

We have years of experience combined with the backup of all the major component suppliers. We also offer assistance for other design professionals with height safety components of their tenders.

Steel Fabrication Design / Construct

Over the years we have had to access some unique structures. We are experts at not only design of load bearing steel structures but at installation as well. We also design and fabricate davits, custom anchors, winch supports, etc.





Cardox

In Cement and other manufacturing plants, the *Cardox CO2 System* is the most efficient and cost effective method of clearing build-up and blockages in preheaters, cyclones, inlet chambers, riser ducts, feed pipes, rotary kilns, raw feed mills, precalciners, coolers and anywhere in the plant's processing line.

Absafe is unique in that we can place Cardox in areas such as internal silos etc. without the need for the installation of ports to facilitate emergency clearance operations of most dry bulk materials.

Utilising our confined space expertise we can safely access most areas to drill and plant the Cardox units with optimum results.

Cardox is classed as non-explosive

- No special permits for transport or storage
- Safe in gaseous mines
- Dramatic reduction in coal fines/dust
- No shock waves or vibration

Cardox tubes are filled with liquid carbon dioxide (exactly the same as a fire extinguisher). When energised by the application of a small electrical charge, the chemical heater instantly converts the liquid carbon dioxide to a gas. This conversion

expands the CO2 volume and builds up pressure inside the tube until it causes the rupture disc at the end of the tube to burst. This releases the CO2 - now 660 times the original volume - through a special discharge nozzle to create a powerful heaving force, at pressures up to 40,000 psi (3,000 bar). This all takes place in milliseconds.

Carbon dioxide gas is an inert gas that is commonly used in fire extinguishers, so it is safe to use without fear of generating secondary reaction with gases in the vessel / silo. In addition, the quick release of the gas refrigerates the discharge, bringing it to a temperature low enough to avoid ignition of any air-gas mixture inside the blocked vessel.

Used by all the major cement manufacturers, Cardox is widely recognised as the most efficient, reliable and cost effective method of clearing build-ups and blockages in preheaters, cyclones, cooler areas & rotary kilns.

Cardox can quickly remove build-ups and restore plant production to optimum levels.





Shotcreting

Shotcrete Repair

With aging concrete infrastructure, industry is advocating for more cost effective solutions to carry out large scale, difficult access repair works.

As specialist concrete repairers, Absafe in partnership with equipment manufacturer Antec Engineering have developed equipment and an innovative system to allow these large scale repairs to be carried out in the most economical manner to date.

Unique to Absafe, we now have the technology and experience to carry out shotcreting repairs to façades and structures at heights over 150 metres whilst utilising light access systems such as rope access or swing stage methods.

The process relies on the dry spray method whereby the dry concrete mix is carried via a large air compressor system to the work face. Water is then injected into the mix at the nozzle and impacted onto the surface at pressure to allow the bond to form.

Patch preparation and rebar treatment/ repair is still a critical part of the process, however the new application procedure developed by Absafe has revolutionised concrete remediation.

Abrasive Blasting

Our specialist range of equipment includes two contractor size abrasive blast units. These units were re-designed by and for our experienced rope access personnel trained to handle all blasting requirements at height, in confined spaces and within difficult to reach areas.

Shotcreting Services

- Shotcrete Repair
- Abrasive Blasting





Specialist Equipment

Using our significant experience in rope access, confined space, working at heights, environmental monitoring and other specialist equipment, Absafe can provide expert advice and world-class equipment solutions to meet even the most rigorous demands in the field. We can support our technical equipment range with ongoing inspection and servicing as well alongside our height safety system and anchor installation and maintenance from our engineering and installation team.

The Absafe team has worked closely with Emergency Services and Technical Rescue teams throughout Australia providing advice and equipment solutions for high angle/vertical rescue, confined space and swift-water rescue applications.

Our Collingwood showroom is unique in that it provides a hands on approach allowing customers to try out height safety and confined space systems in specially built platforms and staging areas.

With a great range of products on show, come in and explore.

Major Brands

- Petzl
- Skylotec
- Rock Exotica
- Pelican Products
- Sundstrom
- MSA Safety Company
- Ferno
- Tool@rrest
- FastAid
- Led Lenser
- Tatonka
- GoPro
- SALA
- Leatherman
- Klean Kanteen
- Maxpedition
- SealSkinz
- Lifeproof
- Ironclad
- Camelbak
- Protecta





Absafe Pty Ltd
Ph 03 9486 3777
Web absafe.com.au

106 Gipps Street
Collingwood, VIC 3066