

Energy & Industrial

Product & Service Capabilities



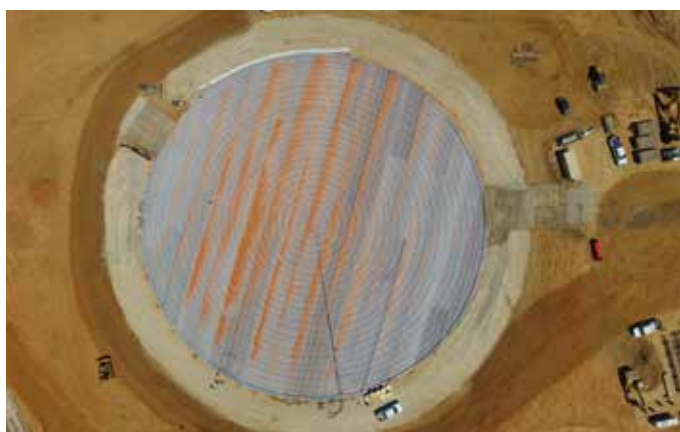
BRAND > **SAFWAY**[®]



› Abrasive Blasting

BrandSafway is at the forefront of technological advancements in abrasive blasting. Our cutting-edge robotic blasting machines are environmentally friendly and feature ergonomic designs for safer operation. Solutions include:

- › Robotic blasting
- › Water washing
- › Water jetting and UHP
- › High-frequency induction stripping
- › Mineral abrasive blasting



› BrandNet®

BrandNet, our state-of-the-art scaffold scoping, estimating, materials management and planning tool, helps you increase productivity and lower the total installed cost.

- › 3D Design
- › Estimating
- › Project management

- › Project controls
- › Planning/Scheduling
- › Materials management
- › Geolocation support
- › Customized reporting

› Cathodic Protection

BrandSafway's turnkey cathodic protection (CP) services prevent corrosion, maintain safe and reliable operations, extend asset life and prevent devastating failures.

Services include:

- › CP consulting, design, installation and maintenance of deep anode and conventional anode bed systems, under/interior tank CP systems and solar-powered CP systems
- › Remote monitoring
- › Surveys: annual test point, AC/DC interference, leak detection, pipeline, GPS, DCVG, ACVG, depolarized, depth-of-cover, plant and refinery
- › DOT compliance management
- › Periodic rectifier repair and adjustment
- › Thermal electric generator maintenance
- › Test station and line marker repair

› Coatings

The combination of our unmatched expertise, award-winning EHS record, quality control program and cost-effective options makes BrandSafway the premier provider of industrial coatings and painting services. Our experienced painters and supervisors use cutting-edge technology to deliver unparalleled services, including:

- › Maintenance outages, shutdowns, turnarounds and new construction



- › Pipelines and terminals
- › Off-site shop facilities
- › Asset management programs
- › Automated surface preparation
- › Industrial-quality painting
- › Thermal spray applications
- › Rhino liner applications
- › Internal coatings and liners
- › Corrosion under insulation (CUI) programs

› Corrosion Prevention

BrandSafway helps recognize corrosion risks through industry knowledge, standards and guidelines — allowing for recoating prior to substantial breakdown — often resulting in a 30 percent reduction of overall unit cost to perform coatings. Our services help our customers identify and manage corrosion-based risks to develop an optimized coatings life cycle for their facility and its assets, and include:

- › Surveys, assessments and programmed maintenance
- › Optimized coatings life cycle approach
- › Corrosion management program
- › Atmospheric coatings

› CUI Management

BrandSafway delivers corrosion under insulation (CUI) solutions through our highly trained and certified field and technical specialists, who have NACE, SSPC, NIA, SIA and solutions-specific training. In addition to risk assessment, grassroots programs, facility CUI surveys and project execution, our CUI management services include:

- › Scaffolding
- › Containment
- › Asbestos abatement
- › Insulation installation/removal
- › Lead abatement
- › Surface preparation
- › Coatings/TSA
- › Inspection/Integrity surveys

› Fireproofing

Our team of proven fireproofing and technical specialists are experts in a full range of applications and installation methods. Many are cross-trained in other related services such as access, insulation,



coatings and refractory, allowing us to leverage their capabilities for broader project needs. In addition, our substantial shop and yard facilities are capable of managing off-site applications. Our services include:

- › Epoxy systems
- › Form and pour



- › Pneumatic, spray and troweled applications
- › Dense concrete and lightweight cementitious
- › Hand packing
- › Corrosion under fireproofing management (CUF)

› Forming and Shoring

Aluma Systems, a BrandSafway company, offers a broad range of versatile, quality concrete forming and shoring. With more than four decades of experience in more than 50 countries, Aluma Systems has revolutionized on-site productivity (38 percent improvement) and optimized concrete pour cycles (40 percent cycle reduction), delivering high-efficiency concrete solutions, including:

- › Wall formwork
- › Slab formwork
- › Shoring solutions
- › Climbing formwork
- › Edge protection

› Heat Tracing

With more than 20 years of heat tracing experience, BrandSafway can help you to maintain uniform processing temperatures and protect pipelines and equipment from freezing at your facility. Services include:

- › Maintenance programs
- › Troubleshooting
- › Outage and turnaround services
- › Turnkey capital projects
- › Panel kits for tanks and vessels
- › Audits



› Insulation

BrandSafway delivers the safest and highest quality performance, skilled craftsmen, reduced overhead and a single point of project ownership. Our flexible pricing, detailed estimating tools and highly skilled personnel ensure schedule and budget compliance. Solutions include:

- › Maintenance, outages, shutdowns, turnarounds and new construction
- › Insulation and cladding/jacketing for boilers, ducting, piping and equipment
- › Managed maintenance programs
- › Off-site shop facilities
- › Corrosion under insulation (CUI) programs
- › Cryogenic, acoustic and heat conservation systems
- › Hot/cold protection and personnel protection
- › Standing seam panels for coke drums and tanks
- › Aerogel flexible blankets



- › Other standard insulation materials and weatherproofing metal jacketing
- › Heat loss/energy conservation
- › Insulation optimization and maintenance programs
- › Thermography services

› Leak Detection and Repair (LDAR)

With more than 200 trained technicians, 40-plus years of experience, industry-leading equipment and the most up-to-date software, BrandSafway delivers cost-effective LDAR services across North America to efficiently meet your compliance, program, project and emergency needs. Our comprehensive solutions include:

- › Leak detection
- › Optical gas imaging
- › Analytical analysis
- › Repair and maintenance
- › Tagging and inventory
- › Database management
- › Reporting

› Refractory Services

BrandSafway's expertise and innovative, patented technology, including the BrandTech® Power Distribution Unit, BrandTech® Precast Solutions, BrandTech® Precision Welding and Quik-X™ Refractory Anchoring System, offer industry-leading refractory solutions designed to safely increase productivity. Our services include:

- › Demolition of existing linings
- › Surface preparation



- › Abrasion-resistant linings
- › Pneumatic gunited linings
- › Shotcrete linings
- › Vibration cast linings
- › Pump cast linings
- › High-temperature brick linings
- › Corrosion-resistant linings
- › Plastic linings
- › Ceramic fiber linings (blanket and modules)
- › Shop fabrication capabilities
- › Burner tiles and precast shapes
- › Fireproofing
- › Intricate brick installation
- › Traditional and stud welding
- › Project controls development
- › API 936 inspections
- › Material recommendations

Full Range of Access Solutions

BrandSafway delivers value-added access and scaffolding services, which include outstanding safety performance with on-time and on-budget project management. We offer state-of-the-art engineering design, material tracking applications, customer-centric estimating and systematic project management. Our offerings include:

- › Rental and sales
- › Erecting and dismantling services
- › Estimating, project consulting and planning
- › On-site project and inventory management
- › Certified custom engineering designs
- › Safety programs and training

› Rope Access

BrandSafway's specialized rope access teams provide the means to reach otherwise inaccessible locations in a safe, proven and cost-effective way. Rope access services can work as an independent solution, be used in combination with conventional access methods, or complement our integrated multiservice package. Our technicians are highly trained and fully certified by the Industrial Rope Access Trade Association (IRATA) and the Society of Professional Rope Access Technicians (SPRAT).

› Spider® Powered Suspended Access

As the trusted leader in powered suspended access, Spider provides solutions for a variety of jobsites — from power plants to refineries — including:

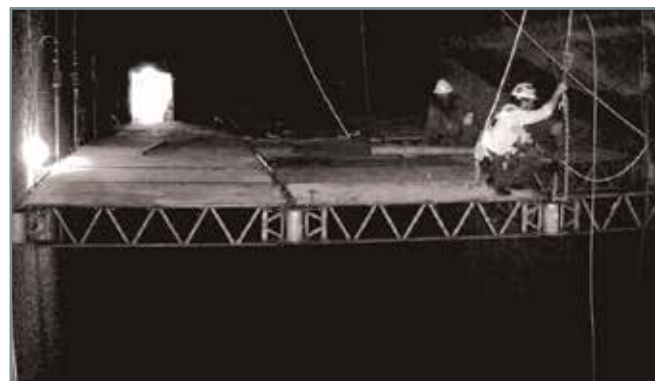
- › Traction and drum hoists
- › Work baskets
- › Modular platforms
- › Custom-engineered solutions



› QuikDeck® Suspended Access System

The modular design of QuikDeck can be easily assembled from a few basic components and configured to fit nearly any shape or size, and is ideal for the repair and maintenance of boilers, stacks, flares and pipe racks. With load capacities from 25 psf to 75 psf, QuikDeck can be:

- › Built in the air
- › Assembled on the ground and then hoisted into place
- › Easily handled by one person
- › Assembled without special tools or skills
- › Leapfrogged and relocated as work progresses





› Supported Scaffold

BrandSafway's versatile scaffold offerings can be configured to fit almost any type of structure and can be erected easily around circular refining and petrochemical vessels, tanks and storage systems.

Our solutions include:

- › Systems™ Scaffold
- › Sectional Scaffold
- › SafLock System Scaffold®
- › Tube & Clamp Scaffold

› SafRise® Mast Climbers

Our combustion and electric-powered mast climbers deliver dependable, high-performance vertical access to a variety of jobsites. SafRise increases productivity with safe vertical access at the highest speed-to-capacity ratio available. Our mast climber features include:

- › Modular designs
- › Lifting speeds up to 39 feet per minute
- › Lifting heights up to 550 feet
- › Lifting capabilities up to 10,000 pounds
- › Unique controlled-descent safety feature
- › Turnkey installation services

› SafTran® Transport Platforms

Ideal for industrial jobsites needing exclusive vertical site access for crews, tools and materials, SafTran provides efficient access for heights up to 150 feet. Available in a wide variety of configurations, SafTran provides:

- › Lifting speeds of 40 feet per minute
- › Gates with wide openings for easy handling of large, heavy material
- › Single- and double-mast installation
- › Transportation without a designated operator

› SafCar® Personnel Hoists

SafCar personnel hoists enable vertical movement of crews and materials. In addition to enhanced jobsite safety through electronic control and limit switches, interlocking gates, disc brakes and safety over-speed governors, our personnel hoists feature:

- › Lifting speeds up to 298 feet per minute
- › The ability to transport up to 8,000 pounds
- › A variety of configurations, including dual-car capability and one fixed mast
- › Counterweighted and non-counterweighted designs
- › Variable frequency drives (VFD)
- › Wide-opening gates to ease handling of large, heavy objects



› HAKI® Protection Systems and Mobile/Stationary Platforms

As the primary distributor of HAKI in North America, BrandSafway provides cost-effective weather proofing and material containment solutions and mobile or stationary platforms for safe access while facilities remain open and in use.

- › HAKITEC® 750 Temporary Roofs, Shelters and Buildings
- › HAKISPAN 750 Mobile and Stationary Platforms

BrandNet®

› For improved Engineering, Estimating, Planning and Execution

Advanced engineering and optimized access are keys to increasing safety, as well as saving time and money. BrandNet, our proprietary software application, utilizes BrandSafway's 100-plus years of access and scaffold experience along with our expertise in engineering to help you increase productivity and lower your total installed cost with:

- › 3D design
- › Project management
- › Planning/Scheduling
- › Geolocation support
- › Estimating
- › Project controls
- › Materials management
- › Customized reporting

BrandNet, together with our team of engineers – the largest and most experienced in the industry – deliver a return on your investment with improved project baselines, advanced scaffold design for safety, reusability and reduced modifications, better materials management, and enhanced visual work packages for field execution.

› Ready to Deliver

+Safety
First and Foremost

+Expertise
Industry-Leading Depth/Range

+Solutions
The Broadest Portfolio

+Productivity
Increased at Every Level

+Local
Management and Labor

With a commitment to safety as its foremost value, BrandSafway was created when Brand Energy and Infrastructure Services and Safway Group combined in 2017. A portfolio company of Clayton, Dubilier & Rice, BrandSafway has nearly \$5 billion in revenue, approximately 32,000 employees and over 350 locations in 30 countries.

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For more information, visit www.brandsafway.com