

Company Profile

TROVESCE

TROVESCE



DUR A BUILD



Introduction

Trovesce traces its roots back to more than three decades with the establishment of the import & indenting business, with principles in Germany, South Korea, China & USA to name a few, as well as clients in various sectors of Pakistan.

The gradual success in Pakistan's industrial sector led us to expand our business into Water & Waste Water Treatment and Construction divisions over the following decades.

Today, Trovesce has diversified into Construction Services, Water & Waste Water Treatment Solutions, Engineering Services and Indent Divisions.



We Build Trust

The backbone of Trovesce, a team of highly motivated and experienced individuals, work in close partnership with our clients to understand their custom requirements and deliver them innovative solutions with a single purpose in mind – To exceed our clients expectations every time.

An **ISO Certified** Company



Quality Management
System (QMS)



Environmental
Management
System (EMS)



Occupational Health &
Safety Management
System (OH&S)



Pakistan Engineering
Council (Registered)



Our **Vision**

To lead the market by our solution-oriented products & services and expertise in an environmentally sustainable manner through innovation and commitment.

Trovesce aspires to be a performance driven product and service company that leads the market without compromising on our core values. Environmental sustainability is a corner stone of our company, and together with our employees and clients, we aim to create a sustainable future for our communities, ourselves and the planet.



Our **Mission**

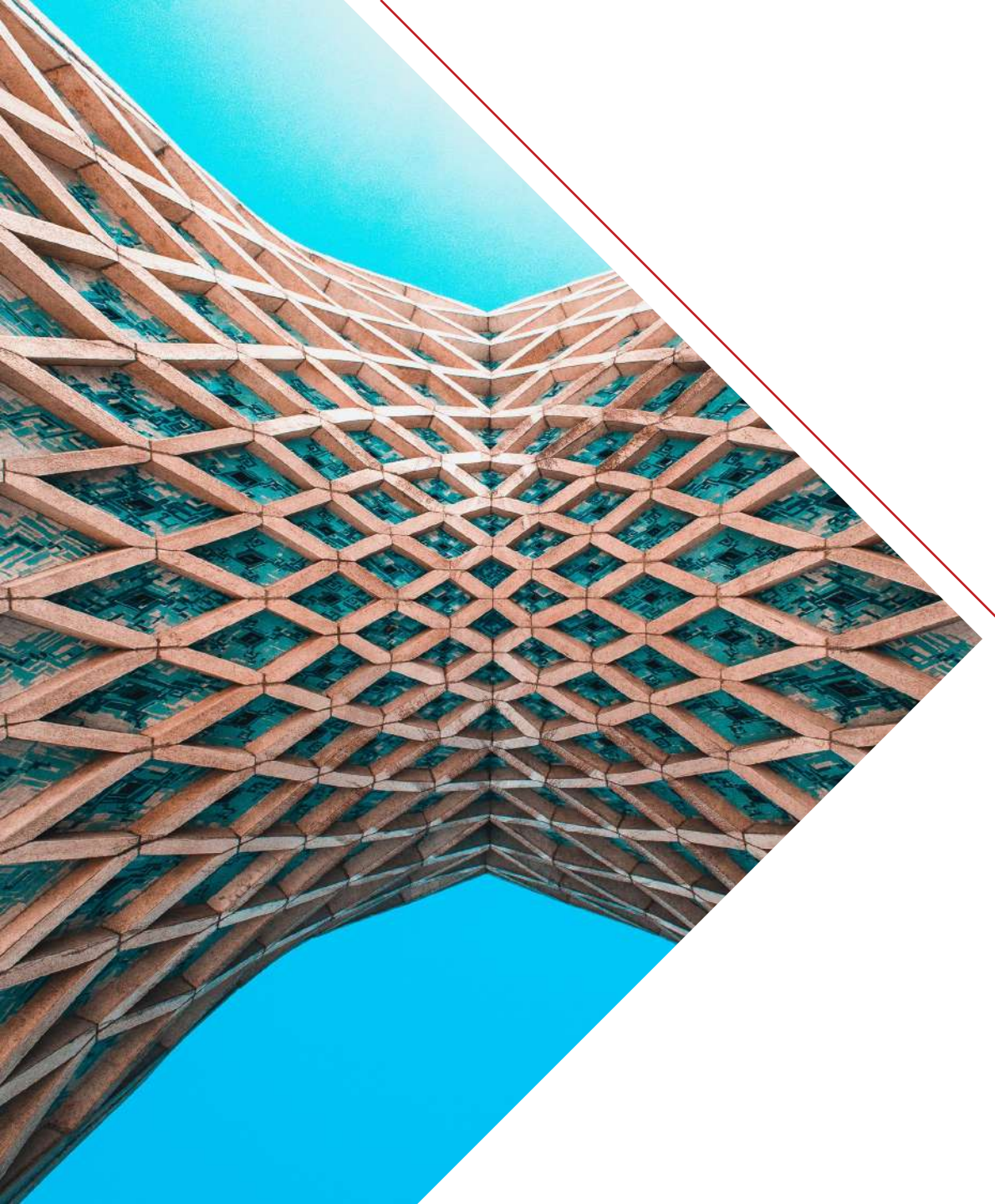
Everyday at Trovesce, we strive to provide innovative solutions, which fosters economic growth for industries and businesses, and provides comfort for homes.

From Industrial Sheds, Warehouses and Modular Buildings to Water and Waste Water Treatment Plants to Industrial and Residential coatings, Trovesce aims to provide innovative and affordable solutions to every sector in the country.

QHSE Policy

TROVESCE is committed to providing quality services within a safe, healthy and legally compliant work environment which ultimately reduces the chances of work-related injury and ill-health and gains customer loyalty and complies with the principles of continuous improvement.





Our **Commitment**

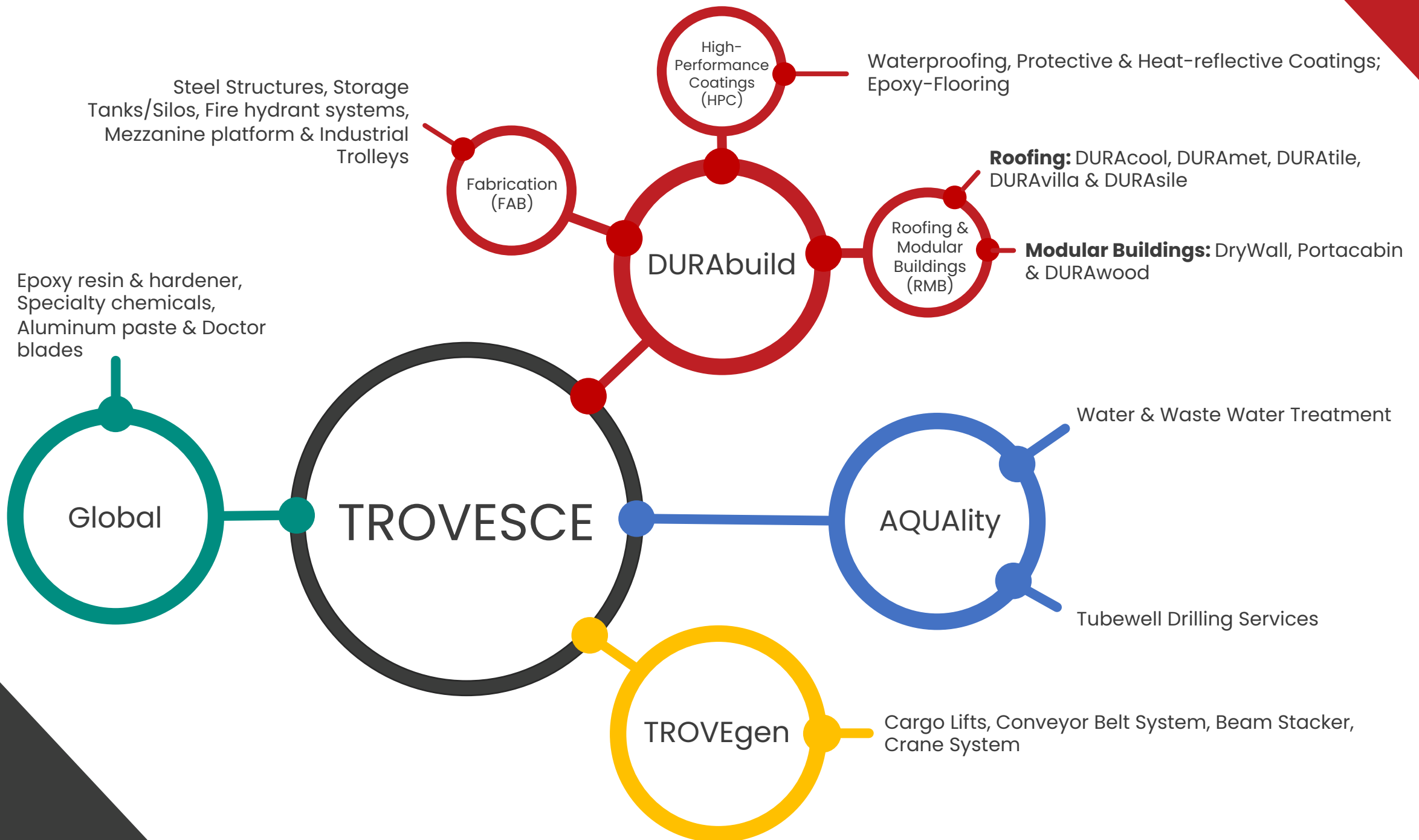
Our commitment is based on achieving business success through responsible social, environmental and economic practices that helps build healthy communities in which we operate.

We are committed to continuous improvement in the prevention of pollution, injury, ill health and to eliminate hazards, OH&S and Quality risks within applicable legal and regulatory requirements while also complying with Environmental standards relating to our business.

Make all employees well trained for health, safety & environment and maintain such a working environment that is safe for our employees and does not create health, Environmental & Quality risks.

To support our customer's satisfaction by consistently delivering products to them on time that meet or exceed their needs and expectations.

Meeting the requirements of all applicable laws, regulations and standards relating to our business activities.



Construction Division

DURAbuild

DURAbuild (Construction Division of Trovesce) provides innovative and cost-effective Roofing and Modular Building Solutions, High Performance Coating Solutions and Fabrication Services on turn-key basis to its clients, tailoring solutions to the specific needs of its clients with the highest standards of quality.





Our Services

DURAbuild (Construction Division of Trovesce) provides innovative and cost-effective Roofing and Modular Building Solutions, High Performance Coating Solutions and Fabrication Services on turn-key basis to its clients, tailoring solutions to the specific needs of its clients with the highest standards of quality.



Roofing & Modular Buildings (RMB)

Our Roofing solutions range from Hollow Structural Sections with Organic-Fiber Cladding to Pre-Engineered Steel Buildings (PEB) with Metal and UPVC Cladding. Our Modular Building solutions range from highly customizable Porta-cabins to Light Gauge Steel (LGS) building systems.



High Performance Coatings (HPC)

The High Performance Coating Solutions include Water Proof and Heat Reflective Coatings and a range of other specialized coatings.



Fabrication Services (FAB)

DURAbuild's Fabrication Services include Heavy and Light Duty Steel Structures and Mezzanine Platforms.



ROOFING & MODULAR BUILDINGS (RMB)

RMB

DURACool

► MS Structure with Onduline Roofing System

Durability with **Environmental** Control

With its perfectly detailed structure & comprehensive range of accessories, from the wall-base to the roof-lid, DURAcOOL offers solutions suited to any type of roof.

01

Industrial & Commercial
Buildings / Sheds

02

Offices, Labour,
Residential Blocks

03

Dairy Sheds

04

Environmental Controlled
Poultry Houses

05

Warehouses

06

Hangers

14

High **Quality** Roofing System

DURAcool Roofing System is manufactured using Onduline sheets, a unique technology that combines cellulosic fibres and selected bitumen for better waterproofing performance and pre-pigmented with a special resin. The paint is impregnated into the sheet together with resin by employing a special technique to ensure that the colors of the sheet retain their original characteristics even under extremely severe conditions.

The DURAcool Roofing System is perfectly watertight, absolutely stainless, and maintenance-free and ecological which never gets cracked due to its flexible structure, does not become moldy, does not contain asbestos, is resistant to UV rays, and is not affected by the airborne chemical and biological substances.



Features



Waterproof

Absolutely waterproof under all climatic conditions.



Light weight

With an overall weight of 4 kg/m², it is highly advantageous with regard to easy application and earthquake safety.



Resistance to UV Rays

No surface deformation takes place under effects of UV rays.



Thermal Conductivity

The thermal conductivity of Onduline HR is $\lambda = 0.105 \text{ kcal/mh}^\circ\text{C}$.



Resistance to Extreme Temperatures

No visible changes occur in the material to a temperature range between -35°C to $+105^\circ\text{C}$.



Bending Under Vertical Load

Capable of carrying a homogeneously distributed load of 350 kg/m².



Biological Characteristics

Onduline HR do not decompose by adverse effects of any biological factors such as mold or fungi



Sound Absorbency

The sound absorbency value is 40 dB.



Chemical Characteristics

Various salts, acid and alkali do not cause any changes in its performance



No Asbestos

Onduline HR do not contain any asbestos



DURABLE BUILD



RMB

DURAmet

► MS Structure with Metal Roofing System

High Performance Roofing System

DURamet Roofing System provides a complete solution for your Industrial & Commercial buildings as well as replacement of existing roofing sheets with high-performance cladding system

01

Sustainable Performance

The product is durable and resilient to harsh climate and is strong.

02

Long Life

Multiple layers of protection provides a long life against corrosion.

03

Tested, Tested & Tested Again

The product undergoes corrosion testing, durability testing & application testing.

04

Easy Maintenance

Very easy to maintain



Structural System

The Structural System of PEB consists of rigid frames that are fabricated from plate steel and cold-formed into Columns, Roof Beams, Rafters, End Wall Posts and other support members.

The Structural System of the PEB gives it its main characteristic features: flexibility, speed and large spans without intermediate supporting columns. The Structural System is manufactured in segments according to the specific needs of the client and in accordance with the design requirements and allowable stresses consequently making the structure flexible and eliminating the need for intermediary columns. These segments are simply bolted together resulting in a rapid erection process that saves time and resources of the client.

The Secondary Structure is placed over the Structural System and includes Purlins, Wind Bracings, girts, eave struts, Flange Bracing, Base Angles etc. The roof and wall claddings are installed on Purlins and Wall Girts respectively.





RMB

DURAtile



Metal Roofing Systems

Smart Roof Strong Roof

DURAtile Steel roof exceeds the expectations of traditional roofing materials and offers nice visual appeal, almost indistinguishable from a traditional roof

When you buy a DURAtile Roof:

01

You buy a roof for life

Designed and manufactured to the highest possible standard and quality.

02

You protect your home & family

Resistant against extreme weather, fire-proof, and your home has less load to carry.

03

Your building project looks fantastic

A wide choice of profiles, finishes, colours...

04

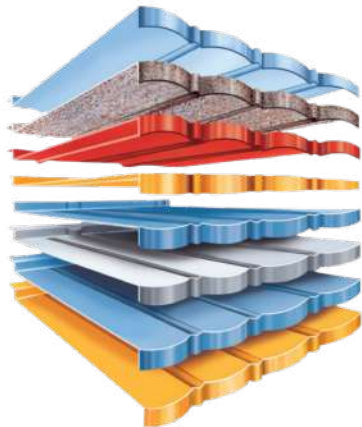
You are economic & ecologic

Long-lasting, no maintenance, 100% recyclable



High **Quality** Stone-coated Steel

Each IKOtile product is pressed from the highest quality steel available in our industry, to guarantee a durable and strong roof. The steel is protected on both sides with an exclusive coating and primer that offers an excellent protection against fire, corrosion and less vulnerable to fracture.



- 100% clear acrylic overglaze
- Quartz-based chip coating
- Acrylic polymer resin base coat
- Polyester / epoxy primer
- Corrosion resistant coating
- Base steel 0.40 mm
- Corrosion resistant coating
- Polyester / epoxy primer



BOND



CLASSIC



SHINGLE



GALLO



VIKSEN



MISTRAL



ROMANA



SHAKE



WOODSHAKE



ROMAN



Features



Quake Resistant
Proofed



Frost Secure
Proofed



Hail Strength
Proofed



Windstorm
Proofed



Impenetrable
Proofed



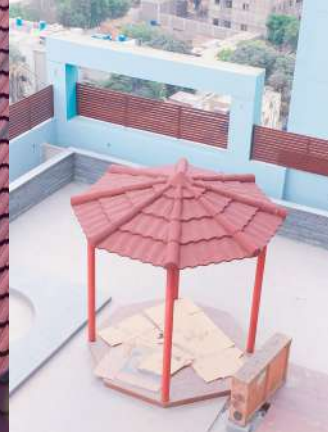
UV Resistant
Proofed



Lightning Resistant
Proofed



DURAtile



DURAtile



DURAtile



RMB

DURAvilla

► MS Structure with Onduvilla Roofing System

A **Unique** Solution for your **Roof**

DURAvilla boasts an attractive Mediterranean-style look with a clay-tile resemblance, offering a truly aesthetic solution.

01

**Clay-tile look,
outstanding aesthetics**

02

**Excellent
waterproofing**

03

**Good acoustical
performance**

04

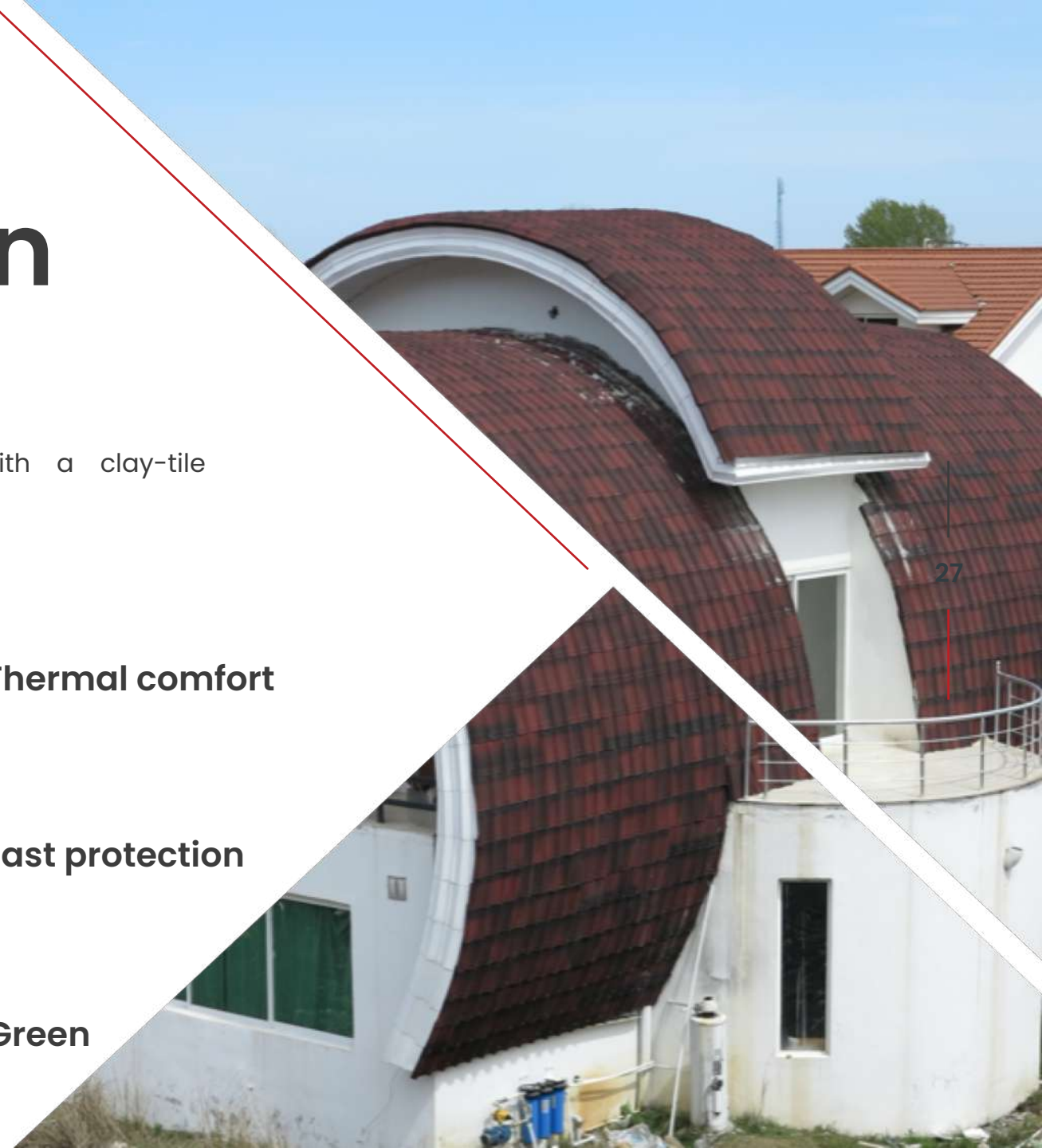
Thermal comfort

05

Fast protection

06

Green



High Quality Roofing System

The main component of DURAvilla Roofing System is Onduvilla which provides an attractive roofing style for residential homes while delivering, and in some areas exceeding, the weather protection functionality that homeowners expect.

Onduvilla is made from a composite of asphalt with a fiber matte core. This lightweight composite technology has been used by Onduline in other roofing materials with outstanding results for the past 70 years. The coloured coating on Onduvilla, which is based on decades of research and testing, delivers another layer of protection.



Features



Flexible & Water-tight

Under all climatic conditions



Light-weight

Overall weight of 4 kg/m²



Ventilated

Prevents condensation



Safe Overlaps

Prevents rainwater from getting in



Temperature resistant

Resistant to high & low temperatures



Thermal Conductivity

$\lambda = 0.105 \text{ kcal/mh}^\circ\text{C}$



Sound Absorbency

40 dB



No Asbestos

Free from asbestos



Two Tone Red



Two Tone Green



Two Tone Brown





DURA BUILD

RMB

DURAsile



MS Structure with Tensile Membrane Roofing System

A Unique Solution for your Roof

DURAsile boasts an attractive light weight tensile structure, offering a truly aesthetic solution.

01

Coverage

Tensile fabric structures can create an expensive covered area.

02

Versatile

Tensile fabric structures are versatile in design, making them ideal for various applications.

03

Weatherproof

Tensile fabric structures are durable and designed to withstand even the most severe weather conditions

04

Visual

Tensile fabric structures create a visual focus of attention and provide a dramatic impact.

05

Practical

Tensile fabric structures are a quick and efficient way to cover a large area





RMB

DURAmo**d**

▶ Modular Buildings, PortaCabins, Drywall Systems, LGS Systems

Portable Solutions

DURAmod provides a complete solution to your temporary as well as permanent accommodation and operational facilities through its wide range of porta-cabins and modular buildings.

With its versatile design and sustainable structure, DURAmod building systems enable us to create buildings of any size, with multiple stories for up to 1000 people or more.

01

Homes

02

Beach Huts

03

Farmhouses

04

Class Rooms

05

Canteens

06

Labour Blocks

07

Offices

08

Cafes

35



DURAmoD Cladding: Dry Wall

One of the main component of DURAmoD are high quality Shera fiber cement boards. Shera fiber cement boards and planks are highly durable, flexible, water resistant, fire proof, resistant to insects and chemical corrosion. They are also highly workable using normal tools; in short: they are useful in all kinds of buildings and throughout the whole house, from the cellar to the roof.

DURAmoD combines high quality fibre cement board systems with Light Gauge Steel Structures to create a wide array of projects of Industrial, Commercial and Residential sector.





Features

01

Fast Construction and installation

Construction period is 25-30% less than conventional structures.

02

Easily customizable

DURAmod buildings can be easily customized to suit your requirements .

03

Aesthetic

Very aesthetic with modernistic and minimalist designs.

04

Excellent Strength

Excellent strength relation to the weight of the structure

05

Reusable material

Material can be re-used in other buildings.

06

Interior Designing and furnishing

Interior designing and furnishing can be done like any other structure.

07

Easy maintenance

Very easy to maintain

08

Cost Effective

DURAmod buildings are very cost effective when compared to traditional buildings

Thermally Modified Wood

DURAWood offers **thermally modified wood** that offers high stability and durability. Heat treatment eliminates resin and other extractives, consequently increasing decay resistance while decreasing swelling and shrinking.

Nova-Claddings are long-lasting and stable, allowing for horizontal and vertical applications with its size and profile options. Thus, while supporting the design and aesthetic appearance of your buildings, it also provides a high resistance to all weather conditions.

01

Cladding

05

Surface Finishing

02

Decking

06

Structural Wood

03

Sun-shade

07

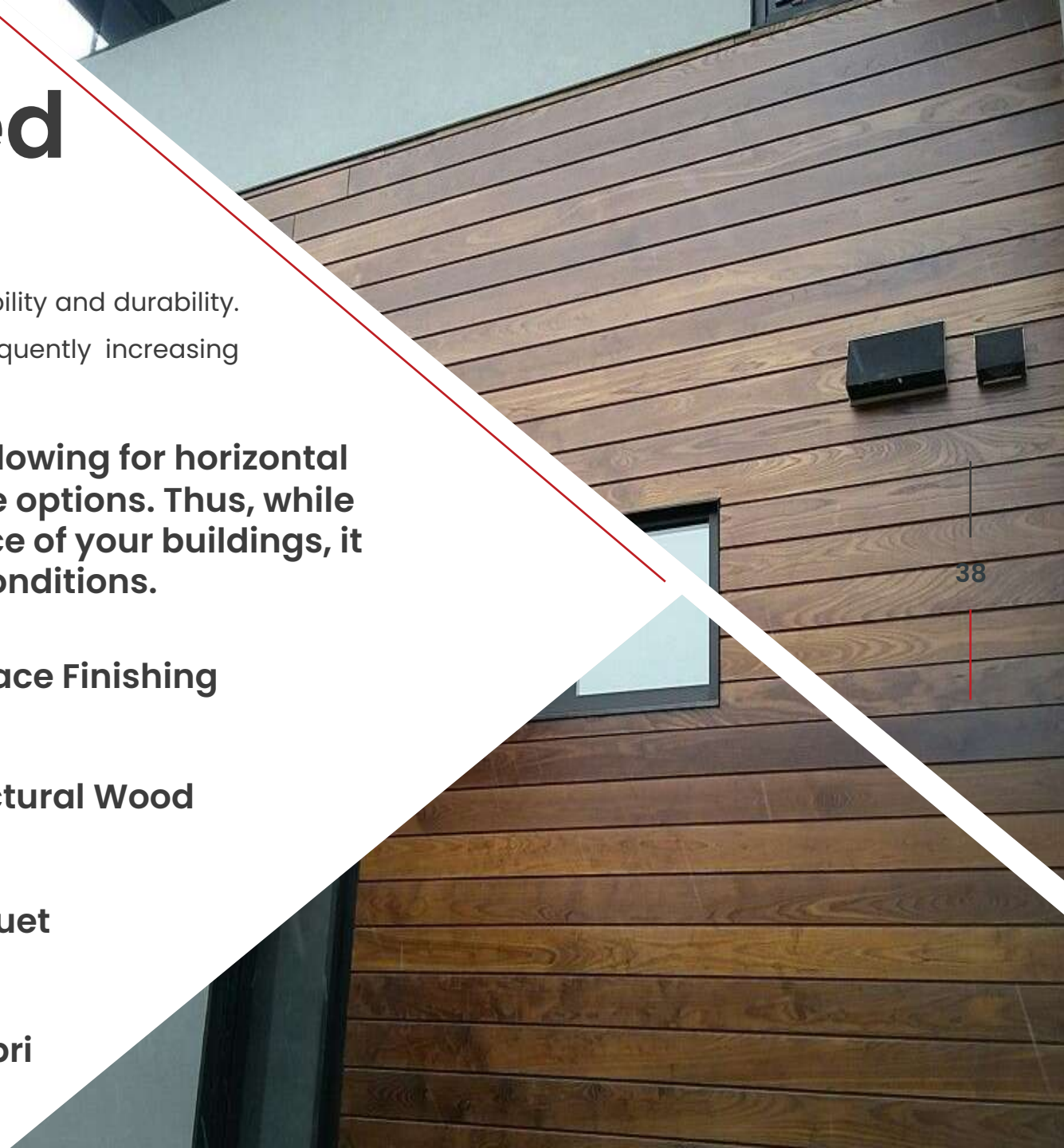
Parquet

04

Pergola

08

Lambri









DURABUILD





High Performance Coatings (HPC)

HPC

DURAccoat

▶ High Performance Coatings



The **Right** Solution

DURAcOat provides a range of high-performance coatings solutions for Industrial & Commercial settings.

01

Waterproof & Weather Resistant

02

Effective on all types of Roofs

03

Fungus, Algae & other Micro-organism Resistant

04

Contains Special Additives to Inhibit Heat-transfer

05

Very low VOC – a truly Green Product

06

Reflects more than 88% of Solar Rays

07

Reduces Temperature by upto 15°C

08

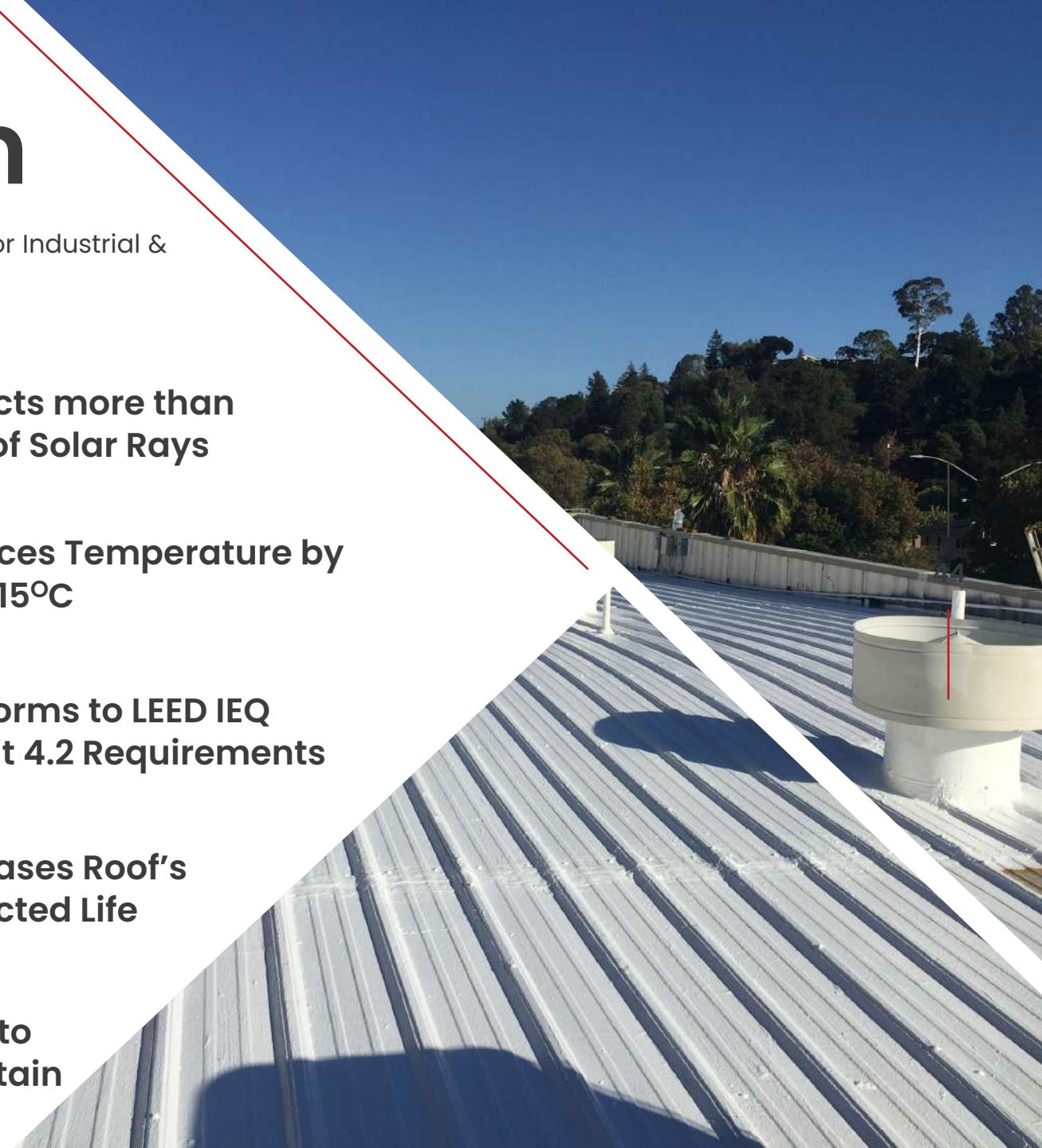
Conforms to LEED IEQ Credit 4.2 Requirements

09

Increases Roof's Expected Life

10

Easy to Maintain

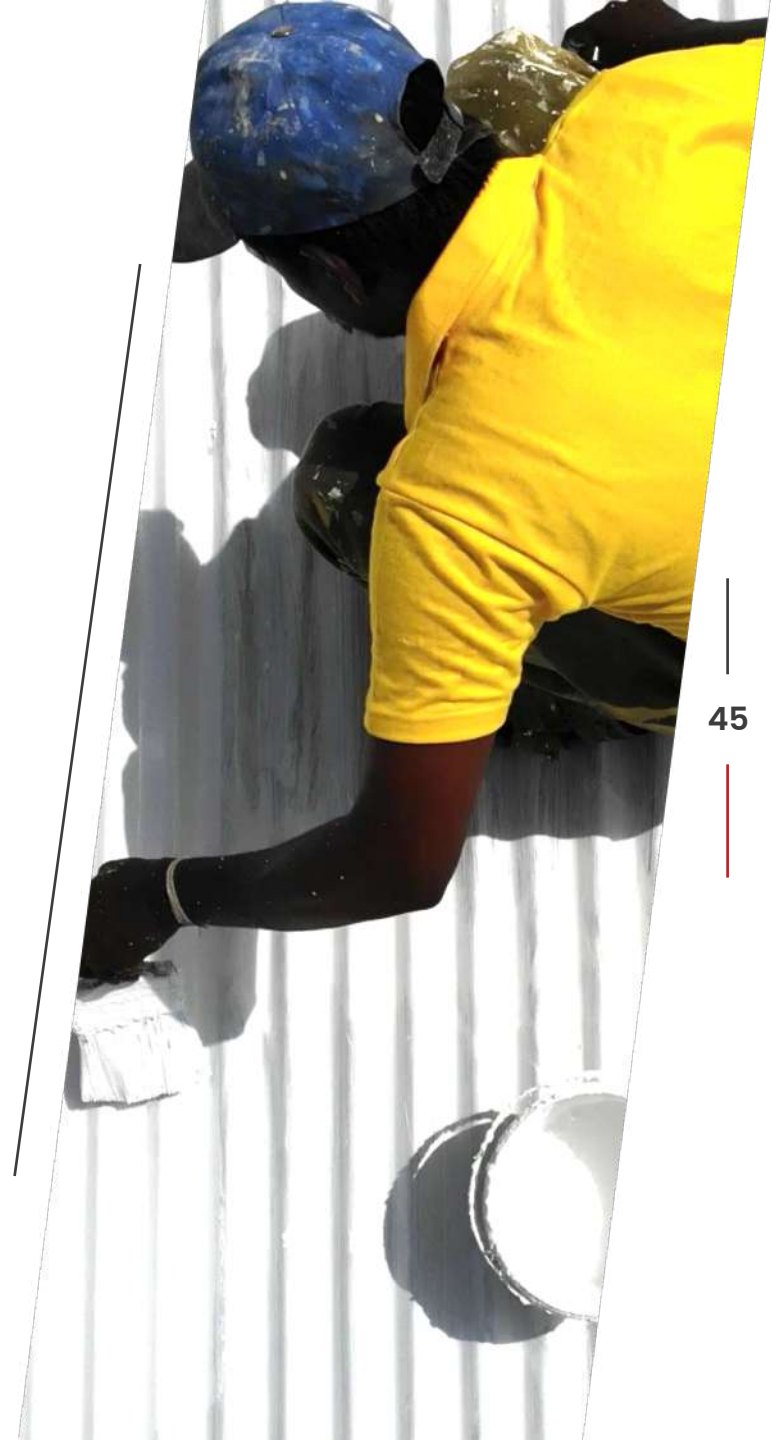


DURAccoat WPH210-3

DURAccoat WPH 210-3 provides high performance coating solutions for the industrial and commercial sectors. Rust, water-leakage & seepage and high roof temperatures are some of the issues that are increasingly being faced by the industries today. These issues affect all types of R.C.C, G.I and asbestos roofs. Rust, a type of corrosion, is one of the most common issue that is being faced by the industries today. Iron and its alloys react with water, moist air, oxygen etc. to form iron oxide (rust). Rust corrodes the structure very rapidly, making it unstable and weak. Rust, once it has affected any particular area, can travel throughout the structure very easily, corroding and destabilizing it.

Similarly, water-leakage and seepage issues weaken the structure, encourages the growth of mold and fungus which can be hazardous to health and may not comply with industrial standards and certifications and can damage or disrupt the material stored or the workplace under such a structure. It can also incur regular high maintenance and repair costs.

High-roof temperatures is another issue that is being commonly faced by the industries. It not only creates unbearable high indoor temperatures but also results in high energy bills. It may also damage or deform material that is sensitive to high temperatures which is stored under these Roofs.



DURAbuild offers DURAc Coat WPH 210-3, which includes multiple coats of rust protective coatings, water-proof coatings and heat-reflective coatings etc. that are applied in a series of combinations according to the surface condition of the affected area after DURAbuild's technical team's visit and analysis.

W

Water-Proofing

The water-proof coating is an elastomeric membrane coating that protects roofs and surfaces from water leakages and seepages. This not only water-proofs the roof and surface but also simultaneously prevents the growth of fungus, algae And other micro-organisms.

P

Protective

The rust protective coating inhibits the growth and spread of the rust already present in the surface while simultaneously protecting it from any further attack of rust. The rust protective coating performs extremely well in the humid climatic conditions and prevents any further oxidizing process.

H

Heat-Reflective

The heat-reflective coating is an acrylic elastomeric-coating that reflects more than 88% of the solar rays, reducing the roof temperatures by up to 15°C. This high reduction in heat considerably reduces the energy bills and increases indoor comfort. The high reflective properties, with a SRI of 110, the heat reflective coating is highly suitable for roofs where solar panels are installed. Recent studies have revealed that solar panels power generation can be increased by up to 30% with the use of heat reflective coatings.

Fabrication (FAB)





DURAfab



Industrial Fabrication

Enduring **Solutions**

DURAfab provides a range of fabrication services for Industrial & Commercial settings.

With a dedicated team of experienced professionals, DURAfab has a solution ready for all your fabrication needs.

01

Steel Structures

02

Silo / Hoppers

03

Fire Hydrant Systems

04

Mezzanine Platforms

05

**Industrial
Trolleys**



Mezzanine Platforms

Mezzanine Platforms are easy solutions to utilizing existing overhead space, gaining more working areas for offices, storage, or even for manufacturing and fabrication. Thus you can increase your efficiency and proficiency by using your area to its maximum capacity.

DURAfab can put this space to work with minimal interruption to your working floor area by installing pre-fabricated components made for your specific design.

Steel Structures

Light weight steel structures are now becoming extremely popular due to their various short and long term benefits. Steel structures are extremely cost effective when compared to other structural materials, along with being time efficient and environmentally friendly. These structures are also highly durable, making them a long term solution. Iron structures, on the other hand, are used for heavy duty purposes and are also durable in the long term.

DURAfab offers various types of light and heavy structures modeled according to your requirements. Structures can vary from large scale storage warehouses to small scale buildings.



Industrial Trolleys

DURAfab can offer a wide range of industrial trolleys in various sizes, finishes and specification according to each client's need. These trolleys are manufactured as per the set industry norms using high grade raw material that is sourced from some of the trustworthy vendors.

DURAfab offers customized trolleys for various industries such as textile, pharmaceutical, food etc.



Fire Hydrant Systems

A well designed and a well laid out Hydrant System forms the backbone of the entire fire fighting system. It comprises of heavy duty above & underground piping with accessories. External and Fire Escape Hydrant valves are provided at every strategic location. A fire hydrant is a pipe that allows water to flow from a water main with the control of a valve in order to put out a fire.

DURAfab can offer fabrication services for complete layout of piping system in Industrial settings

Storage Tanks & Silos

Bulk storage tanks and silos have almost endless applications in a variety of industries. They can be used to store corn, grain, livestock feed, chemicals, cement, sand, wood chips, lime, ash, water, oil, and many more materials — each with its own fabrication requirements.

Silos can be built to nearly any dimensions and specifications. The type of material to be stored in the tank will determine what type of construction materials and finishing products should be used.

While the term silo is most often associated with vertical storage structures, there are many different silo systems that are designed for horizontal storage. Vertical storage does have many advantages and has been deemed the most cost effective and safest way to handle bulk material due to the natural tendency for product to flow smoothly from top to bottom within the tank



Engineering Division

TROVEgen

TROVEgen is the Engineering division of Trovesce offering a range of technical services and products.



Enduring **Solutions**

TROVEgen provides a range of engineering services for Industrial & Commercial settings.

With a dedicated team of experienced professionals, TROVEgen has a solution ready for all your engineering needs.

01

Conveyor Belt Systems

03

Crane Systems

02

Cargo Lifts

04

Beam Stacker

Conveyor Belt System

Conveyor systems play an important role in in-house warehouse logistics especially in filling, palletizing and loading facilities. A conveyor belt system consists of two or more pulleys (referred to as drums), with an endless loop of carrying medium – the conveyor belt – that rotates around them creating a pull effect for the goods it's carrying.

TROVEgen can offer multiple types of conveyors such as friction drive belt conveyor, flat belt roller, chain drive, troughed and portable conveyors customized for every requirement.



Cargo Lift

Vertical cargo lift is an auxiliary lift equipment that has strong steel structure and loading capacity so as to be used in a wide range of workplaces, including warehouses, factories, construction sites and some centers of goods. It has high-strength load capacity with customized platform size and lifting height, to cater to a wide range of lifting applications. Cargo lift saves large labor cost and time, offer fast, efficient, convenient and safe access to any levels in multi-storied building. It can be installed indoor and outdoor for lifting cargoes applications.

TROVEgen can offer customized solutions for cargo lifts based on each client's need.



Crane Systems

To move extremely heavy or bulky loads through the overhead space in a facility, instead of through aisles or on the floor, an overhead crane can be beneficial as it has high lifting capacities for load movement. Crane travel is directed by an operator, that guide their electric- or pneumatic-powered travel. Typical uses include manufacturing, storage, loading or unloading activities inside a facility, outside in a yard, or at a railway or shipping port.

Beam Stackers

Computerized Warp Beam Storage System (Beam Stacker) is the best solution for storage of warp beams/size beams/weaving beams/fabric roll, which are widely applicable in the weaving preparation workshop, weaving unit and finishing unit for space utilization and to avoid damage of ready warp/fabric roll. It employs PLC controlled storage and retrieval of beams with a possibility to operate forward or reverse movement to ensure shortest distance for beam to travel. It helps to stop the beam at exact position. Beam details can be registered / printed for records.



MEP Services

Mechanical, Electrical & Plumbing Solutions



Introduction

MEP engineering is the science and art of planning, designing and managing the MEP systems of industrial, commercial & residential buildings. These systems are a building's central nervous system and are responsible for the "creature comfort" features of a structure.

With our associated technical team of highly trained professionals committed to their work, an experienced managerial body, ISO 9001, ISO 14001 & ISO 45001 certifications along with PEC registration, and a satisfied clientele across all industrial, commercial & residential sectors of Pakistan, the company has served the clients satisfactorily for decades.



Our expert & in-house MEP engineers and architects including MEP designing and related services with international building and construction industry standards. We offer our Mechanical, Electrical & Plumbing (MEP) and Building Information Modeling (BIM) services to contractors, consultants, con-contractual workers and builder

M

Mechanical

The mechanical design elements of a building, most especially the heating and cooling systems, help make life inside more comfortable. These systems allow us to occupy buildings in hot and cold temperatures, under all weather conditions.

E

Electrical

The electrical system in a building keeps the lights on, keeps our devices powered, and keeps the other systems running. Architectural lighting design and plans are a crucial component of the electrical engineering process.'

P

Plumbing

Where would we be without plumbing? Water is what sustains us. Plumbing systems provide fresh water for drinking, cleansing and more. And they take storm and sanitary wastewater away, safely.

Providing **Quality** Turnkey Solutions

Our MEP engineers are capable to provide economically applicable designs and feasible Mechanical, Electrical and Plumbing/Piping services

01

HT Panel/ Transformer installation/ testing/ commissioning

02

LT Panels/ Power Distribution Boards/ Lighting Panels

03

Power distribution cable system

04

Cable Tray Management/ Installation

05

Earthing/Lightening Arrestor system

06

Lighting installations



01

Raw power outlets , UPS power outlets, convenience outlets

02

**Routs for Data/
Communication cables**

03

**Fire alarm system installation/
testing/ commissioning**

04

**C.C.TV System installation/
testing/ commissioning**

05

**Complete Mechanical installation
services of machines/ piping routs**

06

**Complete Plumbing solution at
projects for complete drain
systems/ piping**





Our Clients

It all comes down to our list of satisfied clientele which is our topmost priority and is testament to our quality of work and professionalism.

“

“From the very beginning, a strong link of communication & coordination was maintained, which reflected DURAbuild’s aim of prioritizing technical assistance and after-sales services for their clients.”

– ORIENTmMcCANN

“The whole project was seen & handled in an organized way. The emphasis on safety, quality of work and customer services is highly appreciated”

– GATRON INDUSTRIES LIMITED

“The high technical capabilities of Trovesce, along with their very cooperative team, ensured that the project follows a smooth & hurdle-free journey, from initiation to successful completion”

– KHAS SOCKS & KNITWEAR

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Authorized Representative

Onduline[®]
AVRASYA A.Ş.

SRON[®]
SILO ENGINEERING

IKOtile
metal roofing systems

novawood[®]

Alucosuper[®]

UNITED GYPSUM[®]

BUILDING TRUST

Sika[®]

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