

EQUESTRIAN BARNs AND RIDING ARENAS

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CERM-EX is independent firm of designers, engineers, architects, planners, consultants and technical specialists working across every aspect of today's built environment. Our presence is global with a strong representation in Turkey, North America, and Europe. We constantly strive to achieve inspiring and exacting solutions that make a genuine difference to our customers, end-users and society as a whole.

www.cerm-ex.com

HORSE STABLE CONSTRUCTION

CERM-EX pioneers sustainable horse stable construction, blending decades of expertise with innovative practices. Our commitment to environmentally conscious design ensures structures that prioritize both equine comfort and environmental preservation. Choose CERM-EX for a greener, more responsible approach to horse stables.

ROOF AND INSULATION SYSTEMS

The roof of the stable is crafted with materials designed to withstand harsh weather conditions while providing optimal comfort for horses. We use thermal-insulated panels to regulate interior temperatures and reduce heat stress. Options for skylights or transparent panels can be integrated to maximize natural lighting while maintaining insulation.

SITE EVALUATION AND PREPARATION

Our process begins with a comprehensive evaluation of the site to determine its suitability for stable construction. We assess soil conditions, drainage patterns, and topography to ensure the land can support the structure's weight and accommodate horse-related activities. The site preparation includes proper leveling, compacting, and grading to create a strong, stable foundation while addressing drainage concerns to prevent water pooling around the stables.

STALL & INTERIOR STRUCTURE CUSTOMIZATION

We design and install spacious, safe, and horse-friendly stalls with smooth, non-slip flooring, durable partition walls, and anti-kick materials. Stall doors are equipped with secure yet easy-to-operate mechanisms, while walls and ceilings are treated for soundproofing and insulation. Integrated drainage systems within stalls ensure cleanliness and hygiene.

STABLE LAYOUT DESIGN AND PLANNING

We work closely with equestrian experts and architects to design stables that prioritize horse comfort, safety, and operational efficiency. The layout is meticulously planned to include optimal stall sizes, feed storage, grooming areas, tack rooms, and aisles wide enough for smooth handling. Special attention is given to ventilation, light orientation, and materials to create a healthy, stress-free environment for horses.

VENTILATION, LIGHTING, & CLIMATE CONTROL SYSTEMS

Creating the perfect indoor climate is critical for horse health. Our structures incorporate advanced ventilation systems to maintain fresh airflow and eliminate odors. LED lighting solutions are installed to mimic natural light, promoting a calm and stress-free environment. Optional heating and cooling systems can be integrated for regions with extreme climates.

STRUCTURAL STEEL FABRICATION AND ERECTION

Our expertise in steel fabrication ensures the creation of durable and safe stable structures. Using high-quality, corrosion-resistant steel, we manufacture components like columns, beams, trusses, and partitions that meet equestrian standards. The erection process is performed with precision, ensuring the structure is not only strong but also accommodates features like open spaces for natural ventilation and adaptable sections for future expansions.

INSPECTION & STRUCTURAL QUALITY ASSURANCE

Before project handover, our team conducts thorough inspections to ensure all structural elements meet equestrian standards and client specifications. From testing the stability of steel frames to ensuring stall safety, no detail is overlooked. Our commitment extends to offering maintenance support, ensuring the longevity of the structure and adapting to future needs.



HOW WE WORK

HORSE STABLE SERVICES

PROJECT MANAGEMENT

At CERM-EX, we adopt a consistent and structured approach to project management for our horse stable services. Drawing from internationally recognized standards and the expertise of our experienced project managers, we ensure every equestrian facility is delivered with precision, quality, and care. Our approach is tailored to meet the specific needs of horse stables, combining proven methodologies with industry best practices.

CERM-EX Horse Stable Project Management provides a clear and structured roadmap throughout the project cycle. From initial design to final delivery, we ensure excellence in execution, innovative solutions, and access to specialized expertise. This guarantees that every stable is designed and constructed to enhance horse comfort, safety, and performance.

WE WORK AS INDEPENDENT CONSULTANTS IN AN OPEN, TRANSPARENT MANNER WITH OUR PROJECT STAKEHOLDERS

We embrace a fully integrated multidisciplinary approach to our work at CERM-EX. Our specialized teams are carefully selected from across our organization for each horse stable project, ensuring the right expertise is applied to every detail. With regular collaboration and knowledge sharing among our teams, we guarantee that the best practices and innovative solutions are tailored to meet the unique needs of equestrian facilities.

As part of our approach, we adhere to best practices in project management, ensuring clear communication of technical and design information with our clients and stakeholders. This transparency fosters effective decision-making throughout the project lifecycle. Our passion for equine-focused engineering is evident in our commitment to applying rigorous standards and creativity to every aspect of stable design, from advanced ventilation systems to customized stall layouts, ensuring the well-being and performance of the horses.



A high-contrast, black and white close-up photograph of a horse's face, focusing on its eye and the texture of its coat and mane. The lighting is dramatic, highlighting the contours of the horse's head.

BLENDING SUSTAINABLE PRACTICES WITH INNOVATIVE CONSTRUCTION

Technical Excellence

At CERM-EX, our mission is clear: to deliver unparalleled excellence in every aspect of horse stable construction while remaining firmly committed to sustainability. Through ongoing refinement of our design tools, construction methods, and building components, we prioritize eco-conscious practices at every turn. Continuous training, systematic knowledge sharing, and rigorous project evaluations serve as the cornerstones of our commitment to technical excellence and environmental responsibility.

Creative Installations

Beyond our core projects, CERM-EX finds joy in crafting smaller-scale ventures within our horse stable construction service, including pavilions and artistic installations. These endeavors not only serve as creative outlets but also as laboratories for testing new technologies and pushing the boundaries of traditional design. Embracing the spirit of exploration, we extract valuable insights from these projects, enriching our expertise and enhancing the quality of our larger-scale endeavors.

SITE EVALUATION & PREPARATION

Our process begins with a comprehensive evaluation of the site to determine its suitability for stable construction. We assess soil conditions, drainage patterns, and topography to ensure the land can support the structure's weight and accommodate horse-related activities. The site preparation includes proper leveling, compacting, and grading to create a strong, stable foundation while addressing drainage concerns to prevent water pooling around the stables.



At CERM-EX, the foundation of every successful horse stable project begins with meticulous site evaluation and preparation. This crucial first step ensures that the stable structure is built on solid ground and is tailored to the unique conditions of the site.

Comprehensive Site Assessment

Our team of experts conducts a detailed analysis of the proposed site, including:

- **Soil Testing and Analysis:** To determine load-bearing capacity, stability, and suitability for construction.
- **Topography and Grading Assessment:** Evaluating slopes, elevations, and drainage patterns to optimize water flow and prevent pooling or flooding.
- **Climate and Environmental Impact Study:** Factoring in local weather conditions to design structures that withstand heat, humidity, cold, or wind.
- **Zoning and Permitting Compliance:** Navigating local regulations to ensure the project meets all legal and environmental requirements.

Ground Preparation

Once the site has been evaluated, we move forward with preparing the land for construction:

- **Land Clearing:** Removing vegetation, rocks, and debris to create a clean and level working area.
- **Excavation and Grading:** Reshaping the terrain to provide proper drainage and a stable foundation for the stable structure.
- **Soil Stabilization:** Using advanced techniques to strengthen the soil and prevent settling or erosion over time.
- **Foundation Preparation:** Laying the groundwork for a durable, long-lasting structure, including compacting the soil and preparing for concrete or steel foundations.

Customized Planning for Horse Stables

Every horse stable has unique needs based on the number of horses, type of activities, and operational goals. Our site preparation plans are tailored to include:

- Pathways and access roads for ease of movement.
- Proper orientation for natural ventilation and light.
- Water management systems to direct runoff away from the stable and paddocks.

Drainage and Water Flow Management

Water management is vital for maintaining a clean and healthy environment for horses. Our preparation includes:

- Installing drainage systems to handle rainwater and runoff effectively.
- Designing flood mitigation measures for sites prone to heavy rains or waterlogging.

Stable Layout Optimization

A well-prepared site sets the stage for an efficient stable layout:

- **Orientation:** Positioning the stable for optimal airflow, sunlight, and access to utilities.
- **Designated Zones:** Planning areas for stalls, wash bays, tack rooms, feed storage, and manure management.
- **Safety Considerations:** Incorporating firebreak zones, emergency access routes, and secure fencing.

Utility Integration

We ensure all essential utilities are planned and prepared during site preparation:

- **Water Supply:** Installing underground pipes for consistent water delivery to stalls, wash bays, and paddocks.
- **Electrical Infrastructure:** Laying conduits for lighting, ventilation systems, and security cameras.
- **Waste Management:** Planning for manure pits and composting areas that are easy to access yet away from main activity zones.

Noise and Stress Reduction

Our planning incorporates features to minimize stress for horses:

- **Noise Buffers:** Positioning stables away from noisy areas or installing sound barriers to reduce external disturbances.
- **Soft Pathways:** Using non-slip, cushioned materials for walkways to provide comfort for hooves and reduce noise.

Pasture and Paddock Planning

We extend our preparation to outdoor spaces:

- **Rotational Grazing Design:** Dividing pastures to allow for natural regrowth and reduce overgrazing.
- **Shelter Positioning:** Planning run-in shelters in paddocks to provide shade and weather protection.

STABLE LAYOUT DESIGN AND PLANNING

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Custom Stable Layouts

Each stable design is tailored to the specific needs of the client, horses, and site:

- **Horse-Centered Design:** Creating layouts that cater to horse behavior, ensuring stress-free movement and safety.
- **Stable Orientation:** Positioning stables to optimize natural ventilation, sunlight, and protection from harsh weather conditions.
- **Flow Efficiency:** Designing logical workflows for feeding, cleaning, and horse movement to save time and energy.

Essential Stable Areas

We incorporate all necessary areas into a cohesive and functional layout:

- **Stalls:** Designing comfortable, spacious, and ventilated stalls with safe materials to ensure the well-being of each horse.
- **Tack Rooms:** Strategically placed tack rooms that provide easy access while keeping equipment organized and protected.
- **Feed Rooms:** Secure, moisture-controlled spaces for storing hay, grain, and supplements.
- **Wash Bays:** Including wash areas with non-slip surfaces, drainage systems, and temperature-controlled water for grooming and care.
- **Quarantine and Recovery Stalls:** Designing separate spaces for sick or recovering horses to minimize the risk of infection and allow for easy monitoring.

Safety and Accessibility

Our stable layouts prioritize safety for both horses and handlers:

- **Wide Aisles:** Allowing safe and easy movement of horses, equipment, and handlers.
- **Non-Slip Flooring:** Using durable, anti-slip materials to reduce the risk of accidents.
- **Emergency Access:** Planning exits and paths that ensure quick evacuation during emergencies.

Ventilation and Lighting

Proper air circulation and lighting are integral to stable design:

- **Natural Ventilation:** Incorporating windows, vents, and strategic stall placement to reduce heat, odors, and moisture.
- **Artificial Lighting:** Installing energy-efficient, adjustable lighting to ensure visibility during night-time care while minimizing horse stress.

Manure Management Integration

Efficient manure management is a key aspect of stable layout planning:

- **Manure Storage Zones:** Creating designated, easily accessible areas for manure collection.
- **Waste Disposal Systems:** Planning pathways and equipment for efficient removal and disposal.

Outdoor Spaces Integration

Beyond the stable walls, we integrate outdoor spaces into the design:

- **Paddocks and Turnout Areas:** Planning safe, secure, and accessible areas for daily horse exercise.
- **Training Arenas:** Designing adjacent riding arenas or lunging rings to meet training needs.
- **Access Routes:** Creating smooth transitions between the stable and outdoor areas for seamless horse movement.

Utility Planning

A seamless integration of utilities is critical for functionality:

- **Water Systems:** Installing automatic waterers, pipes, and irrigation systems for stalls and paddocks.
- **Electric Systems:** Planning for lights, fans, and other electrical needs while ensuring safety from exposure or damage.
- **Storage Spaces:** Allocating areas for storing tools, medical supplies, and horse accessories.

Aesthetic and Environmental Considerations

Our layouts blend functionality with aesthetics:

- **Eco-Friendly Materials:** Using sustainable building materials to reduce environmental impact.
- **Natural Integration:** Designing stables that harmonize with the surrounding landscape.
- **Visual Appeal:** Creating inviting and professional-looking structures that reflect your vision.

Collaborative Planning

We work closely with you to ensure every detail is considered:

- **3D Models and Renderings:** Providing detailed visual representations of the layout before construction begins.
- **Adjustable Designs:** Offering flexibility to adapt the layout to meet changing requirements.
- **Expert Guidance:** Leveraging the knowledge of our equestrian and architectural teams to design the best stable for your needs.

STRUCTURAL STEEL FABRICATION & ERECTION

Our expertise in steel fabrication ensures the creation of durable and safe stable structures. Using high-quality, corrosion-resistant steel, we manufacture components like columns, beams, trusses, and partitions that meet equestrian standards. The erection process is performed with precision, ensuring the structure is not only strong but also accommodates features like open spaces for natural ventilation and adaptable sections for future expansions.



Custom Steel Fabrication for Stables

We understand that every horse stable is unique. Our fabrication services are designed to create structures that blend functionality and style:

- **Tailored Designs:** Customizing steel components to suit your stable's specific layout and size requirements.
- **Durability:** Using high-grade steel materials to ensure resistance to environmental wear, including corrosion, extreme weather, and heavy loads.
- **Precision Engineering:** Employing advanced techniques and state-of-the-art equipment to fabricate structural elements that guarantee a perfect fit and seamless assembly.

Key Features of Our Fabrication Services

Our steel fabrication process includes:

- **Steel Frames and Supports:** Designing and fabricating strong frames to support roofs, walls, and additional structures like mezzanines.
- **Roof Trusses and Beams:** Crafting trusses and beams for optimal load distribution and enhanced structural integrity.
- **Custom Doors and Windows:** Producing secure, horse-friendly access points and ventilation systems.
- **Protective Coatings:** Applying weather-resistant coatings to steel elements, ensuring longevity and minimal maintenance.

Steel Erection Services for Horse Stables

Our expert erection team ensures that your stable structure is assembled efficiently and safely:

- **On-Site Assembly:** Precise installation of prefabricated components to ensure structural integrity and design accuracy.
- **Safety First:** Adhering to strict safety protocols during the erection process to protect workers, horses, and surrounding environments.
- **Efficient Workflow:** Coordinating with project timelines to ensure minimal disruption and timely completion.

Advantages of Steel for Horse Stables

Steel offers unparalleled benefits for equestrian facilities:

- **Strength and Stability:** Ensuring long-lasting support for roofing, walls, and other structural elements.
- **Fire Resistance:** Providing a safer environment for horses by minimizing fire hazards.
- **Flexibility in Design:** Allowing for open spaces, tall ceilings, and modular additions to accommodate varying needs.
- **Sustainability:** Using recyclable materials for an eco-friendly construction process.

Specialized Features for Horse Stables

Our steel fabrication and erection services include elements designed specifically for equestrian use:

- **Non-Slip Flooring:** Installing steel grates and supports that accommodate anti-slip flooring materials for added safety.
- **Ventilation Structures:** Fabricating steel-framed ventilation systems for optimal airflow.
- **Integrated Lighting Systems:** Designing steel frameworks to support modern LED lighting for visibility and energy efficiency.
- **Expandable Structures:** Providing modular solutions that allow for future additions, such as more stalls, tack rooms, or training areas.

Quality Assurance

At CERM-EX, quality is our priority. We adhere to strict industry standards throughout the fabrication and erection process:

- **Certifications and Compliance:** Meeting all local and international standards, including those specific to the Middle East, Europe, and the U.S.
- **Inspection and Testing:** Conducting rigorous quality checks on every steel component before and after erection to ensure structural integrity.
- **Durability Guarantee:** Offering warranties on materials and workmanship for peace of mind.

ROOF AND INSULATION SYSTEMS

The roof of the stable is crafted with materials designed to withstand harsh weather conditions while providing optimal comfort for horses. We use thermal-insulated panels to regulate interior temperatures and reduce heat stress. Options for skylights or transparent panels can be integrated to maximize natural lighting while maintaining insulation.



Roofing Systems for Horse Stables

Our roofing systems are designed with functionality, durability, and aesthetics in mind. We focus on providing long-lasting protection for your stable while ensuring the safety and comfort of its occupants.

- **Durable Materials:** We use high-grade materials such as galvanized steel, aluminum, or composite panels to withstand harsh weather conditions, including heavy rain, wind, and snow.
- **Custom Design:** Roofs are tailored to suit the size, shape, and architectural style of your stable, ensuring a seamless integration with the overall design.
- **Ventilation Features:** Integrated roof ventilation systems allow for proper air circulation, preventing the buildup of heat, moisture, and odors inside the stable.
- **Weather Resistance:** Our roofing systems are engineered to resist UV radiation, corrosion, and thermal expansion, ensuring a long lifespan with minimal maintenance.
- **Sound Dampening:** We incorporate sound-reducing materials to minimize noise from rain or hail, creating a calmer environment for the horses.

Insulation Systems for Horse Stables

Effective insulation is essential to maintaining a stable and comfortable indoor environment, regardless of the outdoor climate. Our insulation solutions are designed to regulate temperature and minimize energy consumption.

- **Thermal Insulation:** High-performance insulation materials, such as rigid foam panels or reflective barriers, are used to maintain a consistent indoor temperature, keeping the stable cool in summer and warm in winter.
- **Moisture Control:** Insulation systems include vapor barriers to prevent condensation, which could lead to mold growth and structural damage.
- **Eco-Friendly Options:** We offer sustainable insulation materials, such as recycled or natural fibers, for clients prioritizing environmental responsibility.
- **Acoustic Insulation:** Specialized insulation reduces noise transmission, helping to create a quiet and stress-free environment for horses and caretakers.

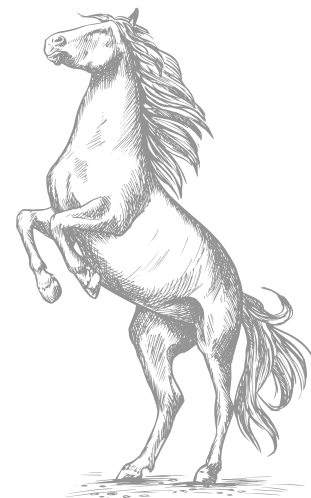
Roof and Insulation Features for Horse Stables

To ensure the best possible performance, we include several key features in our roof and insulation systems:

- **Ridge Vents:** For effective ventilation along the roofline, improving airflow and reducing humidity.
- **Overhangs and Gutters:** Designed to manage rainwater efficiently and protect walls and foundations from water damage.
- **Fire Resistance:** Roofing and insulation materials meet stringent fire safety standards to enhance the overall safety of the facility.
- **Adaptability for Add-Ons:** Roof structures are engineered to support additional features such as skylights, solar panels, or sprinkler systems.

Benefits of Our Roof and Insulation Systems

- **Improved Comfort:** Maintain an optimal environment for horses, ensuring their health and well-being.
- **Energy Efficiency:** Reduce heating and cooling costs with advanced insulation technology.
- **Durability:** High-quality materials ensure longevity, reducing the need for frequent repairs or replacements.
- **Safety:** Fire-resistant and weatherproof designs provide reliable protection for your horses and assets.



HORSE STABLE SERVICES

STALL & INTERIOR STRUCTURE CUSTOMIZATION

We design and install spacious, safe, and horse-friendly stalls with smooth, non-slip flooring, durable partition walls, and anti-kick materials. Stall doors are equipped with secure yet easy-to-operate mechanisms, while walls and ceilings are treated for soundproofing and insulation. Integrated drainage systems within stalls ensure cleanliness and hygiene.



Custom Stall Design

The stall is the heart of any horse stable, and we focus on crafting spaces that prioritize horse safety, comfort, and ease of maintenance.

- **Durable Materials:** Stalls are built with high-quality, robust materials like galvanized steel, hardwood, or composite panels that are resistant to wear, moisture, and impact.
- **Ventilation and Airflow:** We design stalls with proper airflow systems, including grill partitions or mesh panels, to maintain fresh air and minimize odors.
- **Safe Enclosures:** Custom partitions, doors, and gates are designed to eliminate sharp edges or gaps, ensuring a safe environment for horses.
- **Size and Layout:** Stall dimensions are customized to meet the requirements of different horse breeds, ensuring enough space for movement and comfort.
- **Feeding and Watering Systems:** Integrated feed doors, hay racks, and automatic waterers are seamlessly built into the stall design for convenience and efficiency.

Interior Structure Customization

The interior structure of a stable plays a crucial role in its functionality and aesthetic appeal. Our services cover every detail to ensure your stable meets your exact needs.

- **Tack and Storage Rooms:** Designated spaces with custom shelving, saddle racks, and lockers to store equipment, keeping the stable organized.
- **Wash Bays:** Custom-built wash bays with non-slip flooring, drainage systems, and water fixtures tailored for grooming and cleaning needs.
- **Feed Rooms:** Optimized layouts with durable, pest-resistant storage solutions for feed and supplements.
- **Walkways and Aisles:** Wide, non-slip surfaces for walkways and aisles to ensure easy movement for horses and handlers.
- **Lighting Systems:** Strategic placement of task and ambient lighting for optimal visibility and safety.
- **Noise Reduction:** Use of sound-dampening materials in walls and ceilings to minimize noise and maintain a calm environment.

Aesthetic and Functional Enhancements

CERM-EX goes beyond functionality to include design elements that add aesthetic value and create a welcoming atmosphere.

- **Custom Colors and Finishes:** Choose from a variety of finishes and colors to complement the stable's overall design.
- **Decorative Hardware:** Hinges, latches, and other hardware can be customized for both functionality and style.
- **Windows and Skylights:** Natural light is brought in with custom windows and skylights, promoting a healthy and pleasant environment for horses.
- **Climate Control Features:** Insulated walls and ceilings combined with integrated HVAC systems for temperature regulation.

Benefits of Customization

- **Enhanced Comfort:** Custom designs provide horses with a safe and comfortable space to rest, eat, and move.
- **Optimized Workflow:** Tailored layouts and features make daily operations easier and more efficient for caretakers.
- **Durability and Longevity:** High-quality materials and craftsmanship ensure the interior structures last for years with minimal maintenance.
- **Aesthetic Appeal:** Stylish and well-designed interiors enhance the overall look and feel of the stable.

Tailored Solutions for Every Stable

At CERM-EX, we understand that no two stables are alike. That's why we collaborate closely with our clients to understand their specific needs and preferences, delivering customized interiors that exceed expectations.

VENTILATION, LIGHTING, & CLIMATE CONTROL SYSTEMS

Creating the perfect indoor climate is critical for horse health. Our structures incorporate advanced ventilation systems to maintain fresh airflow and eliminate odors. LED lighting solutions are installed to mimic natural light, promoting a calm and stress-free environment. Optional heating and cooling systems can be integrated for regions with extreme climates.



At CERM-EX, we recognize the critical role that environmental factors play in maintaining the health and comfort of horses. Our Ventilation, Lighting, and Climate Control Systems are meticulously designed to create the perfect environment for your stable. Whether it's ensuring proper airflow, maintaining optimal lighting, or regulating temperature and humidity, our solutions are tailored to the specific needs of your horses and their caretakers.

Ventilation Systems

Proper ventilation is essential for maintaining air quality, controlling odors, and reducing respiratory risks for horses. Our advanced ventilation systems are designed to ensure continuous air circulation throughout the stable.

- **Natural Ventilation:** Strategically placed windows, vents, and louvers allow fresh air to flow through the stable, creating a healthy environment while minimizing drafts.
- **Mechanical Ventilation:** Exhaust fans, ceiling fans, and circulation fans are integrated to enhance airflow in areas where natural ventilation is insufficient.
- **Airflow Design:** Customized layouts ensure uniform air distribution, preventing hot spots and reducing humidity levels.
- **Odor and Dust Control:** Effective ventilation minimizes the buildup of ammonia and dust particles, protecting the respiratory health of your horses.

Lighting Systems

Proper lighting is essential for both the well-being of horses and the efficiency of stable operations. Our lighting solutions are designed to mimic natural daylight, ensuring comfort and visibility.

- **Natural Lighting:** Skylights, roof panels, and strategically placed windows bring in natural light, reducing the need for artificial lighting during the day.
- **LED Lighting:** Energy-efficient LED fixtures provide bright, even lighting with minimal glare, suitable for nighttime visibility and daily tasks.
- **Task Lighting:** Focused lights in specific areas, such as grooming bays, tack rooms, and feed rooms, ensure sufficient illumination for detailed tasks.
- **Dimming Systems:** Adjustable lighting levels accommodate the natural sleep cycles of horses and create a calming atmosphere.
- **Safety Features:** All lighting installations are designed to minimize shadows and avoid spooking horses, ensuring a safe environment.

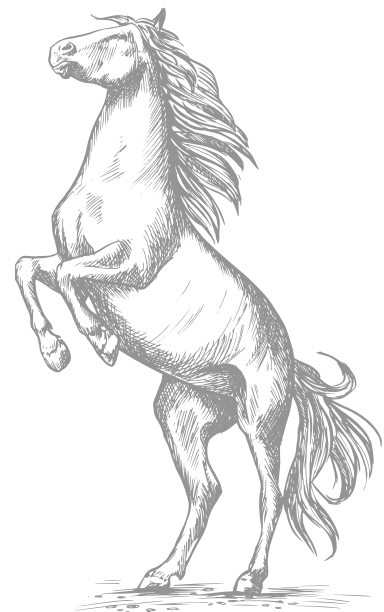
Climate Control Systems

Maintaining a consistent and comfortable temperature is crucial for the health and performance of horses. Our climate control systems are designed to regulate temperature and humidity efficiently.

- **HVAC Systems:** High-performance heating, ventilation, and air conditioning systems maintain optimal temperatures year-round.
- **Radiant Heating:** Underfloor or overhead radiant heating systems provide consistent warmth without creating drafts, ideal for colder climates.
- **Cooling Solutions:** Evaporative cooling systems, fans, and misting systems keep the stable cool during hot weather.
- **Humidity Control:** Integrated dehumidifiers and ventilation prevent excessive moisture buildup, reducing the risk of mold and respiratory issues.
- **Smart Climate Controls:** Automated systems monitor and adjust temperature, humidity, and airflow to ensure a stable and comfortable environment.

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INSPECTION & STRUCTURAL QUALITY ASSURANCE

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Comprehensive Inspection Process

From the initial design phase to final completion, our inspection process is structured to identify and address any potential issues at every stage of construction.

- **Material Inspection:** All construction materials, including steel, roofing, and insulation, are thoroughly inspected for compliance with quality specifications before installation.
- **Structural Integrity Testing:** Load-bearing components are tested for strength and stability to ensure they can handle operational demands and environmental conditions.
- **Foundation Inspections:** Before construction begins, we evaluate and certify the foundation's stability, ensuring it can support the structure and withstand natural elements.
- **Erection Quality Checks:** Each phase of structural assembly is inspected to ensure proper alignment, joint strength, and precision of connections.
- **Final Walkthroughs:** Once construction is complete, a detailed inspection ensures the finished stable meets all safety, design, and functionality requirements.

Key Quality Assurance Measures

Our quality assurance measures are designed to maintain consistent standards across every project while adhering to local and international regulations.

- **Certified Standards Compliance:** All construction and inspection processes comply with international standards such as ISO 9001, EN 1090, and relevant Middle Eastern building codes.
- **Third-Party Verification:** In addition to internal inspections, we collaborate with certified third-party inspectors to provide unbiased validation of structural integrity.
- **Non-Destructive Testing (NDT):** Advanced techniques such as ultrasonic testing, radiography, and magnetic particle testing ensure welds and joints meet stringent quality benchmarks without compromising the structure.
- **Documentation and Reporting:** Detailed reports documenting all inspections, tests, and certifications are provided for transparency and future reference.

Focus Areas for Horse Stables

The unique needs of horse stables require specialized inspection and quality assurance measures to ensure a safe and functional environment:

- **Load Capacity:** Verifying the structure can support the weight of feed storage, hay lofts, and other stable elements.
- **Ventilation Pathways:** Ensuring proper installation of ventilation systems to maintain air quality and minimize drafts.
- **Safety Features:** Inspecting stall partitions, gates, and doors for secure installation and smooth operation.
- **Environmental Durability:** Assessing the structure's resistance to local weather conditions, such as heat, humidity, or snow loads.

Ongoing Maintenance Support

Beyond initial construction, our commitment to quality assurance extends to long-term performance and maintenance:

- **Periodic Inspections:** Scheduled evaluations to ensure the structure remains safe and operational over time.
- **Proactive Repairs:** Early identification of wear or damage allows for timely repairs, preventing costly issues.
- **Upgrade Assessments:** Evaluations to recommend enhancements or retrofitting for improved functionality or compliance with updated regulations.

Benefits of Our Inspection & Quality Assurance Services

- **Enhanced Safety:** Rigorous inspections eliminate risks, ensuring a secure environment for horses and caretakers.
- **Longevity:** Quality materials and construction techniques extend the stable's lifespan.
- **Compliance:** Adherence to industry standards and local building codes avoids regulatory issues.
- **Peace of Mind:** Transparent processes and detailed documentation provide confidence in the structure's reliability.



CUSTOM RIDING ARENA DESIGN & CONSTRUCTION

At CERM-EX, we specialize in designing and constructing world-class riding arenas tailored to meet the needs of riders, horses, and equestrian facilities. Whether you're building a private training space or a commercial equestrian center, our riding arenas combine functionality, durability, and aesthetic appeal to create the perfect environment for equestrian activities.



Tailored Arena Design

- **Indoor & Outdoor Options:** We offer fully enclosed arenas for year-round use and open-air designs to embrace natural surroundings.
- **Custom Dimensions:** Arena sizes are tailored to your specific discipline, from dressage and show jumping to multipurpose use.
- **Optimal Layouts:** Thoughtfully designed spaces ensure smooth movement for horses and efficient workflows for riders and staff.

Premium Riding Surfaces

- **Waxed Sand Layers:** High-performance surfaces with superior cushioning, traction, and dust control for horse safety and performance.
- **Drainage Systems:** Engineered base layers, gravel sub-layers, and geotextile membranes ensure rapid water removal and surface stability.

Durable Structures

- **Large-Span Designs:** Spacious, column-free arenas for unrestricted movement, with high-strength steel frames for maximum durability.
- **Weather-Resistant Materials:** Roofs, walls, and structural elements are designed to withstand harsh weather conditions while maintaining aesthetic appeal.

Advanced Climate Control & Ventilation

- **Efficient Ventilation:** Natural and mechanical systems to maintain fresh air circulation and reduce humidity.
- **Temperature Regulation:** Heating, cooling, and humidity control systems ensure a comfortable environment year-round.
- **Energy-Efficient Systems:** Smart climate solutions that optimize performance while reducing operational costs.

Safety & Accessibility

- **Rubber-Covered Aisles:** Slip-resistant, shock-absorbing surfaces for horse and rider safety.
- **Strategic Layouts:** Wide walkways, safe barriers, and clear sightlines for ease of movement and visibility.
- **Emergency Exits:** Properly planned exits for rapid evacuation if needed.

Lighting Solutions

- **High-Bay LED Lighting:** 500 lux illumination for bright, even lighting with minimal glare, suitable for training and competitions.
- **Natural Light Integration:** Skylights and open panel options enhance visibility and reduce energy consumption.

Comfortable Viewing Areas

- **Spectator Stands:** Elevated seating for unobstructed views of the arena, ensuring a comfortable experience for spectators.
- **VIP Lounges:** Private viewing areas with premium amenities for a luxurious experience.
- **Integrated Lighting and Ventilation:** Designed for comfort and visibility, even during evening events or extreme weather.

Thoughtful Arena Wall Design

- **Safety-First Sloped Walls:** Angled walls guide horses away from hard impacts during tight turns or high-speed maneuvers.
- **Kickboards and Padding:** Reinforced lower walls for durability and additional padding for horse safety.
- **Seamless Integration:** Walls designed to blend with the arena's overall structure, ensuring a polished and cohesive look.

Why Choose CERM-EX?

- **Expertise:** Years of experience in designing equestrian facilities worldwide.
- **Customization:** Tailored solutions to fit your specific needs and preferences.
- **Quality Assurance:** High standards in materials, construction, and safety.
- **Turnkey Service:** From design to construction and maintenance, we handle every detail.

Build Your Dream Arena with CERM-EX

At CERM-EX, we combine innovation, craftsmanship, and equestrian expertise to deliver riding arenas that exceed expectations. Whether you're creating a private training space, a large competition venue, or a state-of-the-art horse walker area, our custom solutions ensure the perfect balance of performance, safety, and style.

HORSE WALKER FABRICATION & INSTALLATION

At CERM-EX, we design, produce and install state-of-the-art horse walkers that enhance the fitness, safety, and well-being of horses. Whether you need a simple exercise solution or an advanced automated system, our horse walkers are tailored to meet the unique needs of your facility while maintaining the highest standards of safety, durability, and functionality.



Custom Horse Walker Designs

Every horse walker we build is designed with the specific requirements of your space, horses, and operational goals in mind:

- **Circular or Oval Layouts:** Flexible designs to suit your available space and the number of horses.
- **Capacity Options:** Horse walkers for 2 to 10+ horses, with configurations to accommodate varying workloads.
- **Compact Footprints:** Space-efficient designs that fit seamlessly into your facility's layout without compromising usability.

Features of CERM-EX Horse Walkers

Our horse walkers are equipped with advanced features to ensure optimal performance and ease of use:

- **Non-Slip Flooring:** Durable, shock-absorbing surfaces to prevent injuries and enhance horse comfort during exercise.
- **Adjustable Speed Settings:** Customizable programs to vary exercise intensity and duration for each horse's needs.
- **Safety Features:** Secure gates, padded partitions, and emergency stop systems for maximum safety during operation.
- **Weather-Resistant Structures:** Covered or fully enclosed options to protect horses from rain, sun, and harsh weather conditions.
- **Quiet Operation:** Designed to minimize noise, creating a calm and stress-free environment for horses.

Automation & Control

We integrate advanced automation technologies into our horse walkers to streamline operations and improve efficiency:

- **Programmable Systems:** Set exercise routines with adjustable speed, direction, and duration for consistent training.
- **Remote Control Options:** Manage the horse walker conveniently from your smartphone or central control system.
- **Energy Efficiency:** Low-energy motors reduce operational costs without compromising performance.

Integrated Design Solutions

Our horse walker designs are seamlessly integrated into the overall layout of your equestrian facility:

- **Accessibility:** Convenient access points for handlers to move horses safely in and out of the walker.
- **Drainage Systems:** Engineered drainage prevents water pooling, ensuring a clean and dry exercise area.
- **Landscaping Integration:** Walkers are designed to complement surrounding paddocks, arenas, and stable areas.

Benefits of CERM-EX Horse Walkers

- **Improved Fitness:** Regular, controlled exercise promotes strength, endurance, and overall health in horses.
- **Time Efficiency:** Automated systems reduce manual labor, freeing up time for caretakers.
- **Customizable Workouts:** Tailored programs cater to the specific training needs of each horse.
- **Safety First:** Non-slip surfaces, secure partitions, and emergency systems ensure a safe environment.

Why Choose CERM-EX?

- **Equestrian Expertise:** Years of experience in designing and constructing high-performance equestrian facilities.
- **Tailored Solutions:** Custom designs to fit your space, budget, and operational needs.
- **Durable Materials:** High-quality components for long-lasting performance, even under heavy use.
- **Turnkey Service:** From design and construction to installation and maintenance, we handle every detail.



Any questions? Our specialists are read to help!

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