



Australia-New Zealand-Pacific Islands



CONTACT – NEILL LAURENSEN  
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# ABOUT SIGNATURE SYSTEMS GROUP

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- Signature Systems Group ( [www.signaturecorp.com](http://www.signaturecorp.com) ) is the world's largest manufacturer of composite matting.
- Industries include Oil & Gas –Power and Transmission – Utilities – Construction – Stadium Flooring – Military - Large Scale Events – Disaster Relief and many other sectors
- With a broad and proud (repeat) customer base across all sectors

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# CUSTOMERS INCLUDE



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# SIGNATURE'S EXPERIENCE

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- Over 20 years of experience with matting products
- Experts in manufacturing and installing matting
- World class customer and product support
- State-of-the-art manufacturing facility
- Experience working on large-scale projects all over the world with major companies

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# MANUFACTURING FACILITY

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- Quality Control / Quality Assurance
- Extensive quality procedures and protocols
- Strict health, safety, and environmental procedures – no compromise attitude
- Located in Orlando, FL
- Capacity upgrades 2019





# VALUES AND MISSION

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- Health and safety of our workforce
- Ethical and open practices
- High quality product and customer support
- Environmental Sustainability

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# **INDUSTRIAL MATTING PRODUCT RANGE**



[www.signaturecorp.com](http://www.signaturecorp.com)



**MEGADECK<sup>®</sup> HD**

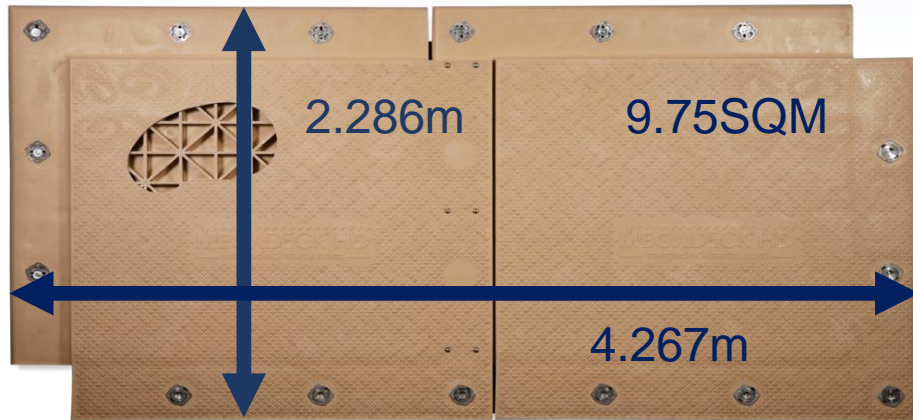
**INTRODUCTION TO  
MEGADECK HD**



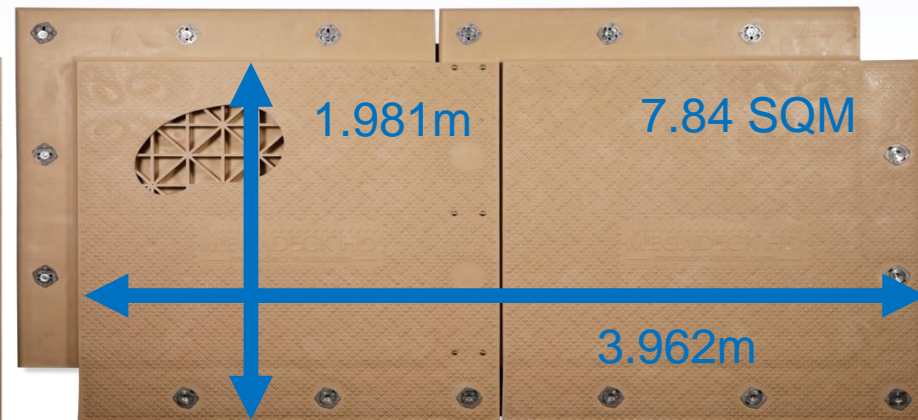
# MEGADECK® HD - DIMENSIONS

	Mat dimensions	Usable Surface Area
Length	2.286 M	1.981 M
Width	4.267 M	3.962 M
Sqm	9.75 SQM	7.85 Sqm

Mat Dimensions



Usable surface area



Weight loading - 600 PSI = 42 Kg per SqCM = 413 tons per SQM





# TECHNICAL FEATURES

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## FORMULATION OF COMPOSITE MATERIALS FOR OPTIMAL PERFORMANCE

- 100% Virgin HDPE plastics
- Special impact modifiers
- UV resistance
- Anti-static additives
- Thermal stabilizers
- Engineered to withstand extreme weights and retain performance characteristics for many years



# TECHNICAL FEATURES

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SCIENTIFIC MATERIAL FORMULATION ALONG WITH  
INTERNAL STRUCTURAL GEOMETRY ENABLES  
MEGADECK TO:

- Perform in varying climates from freezing temperatures to hot and humid environments
- Have an extended lifespan during heavy use
- Maintain high level performance standards

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# RFID CHIPS FOR TRACKING INVENTORY

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- Imbedded RFID chip
- Value added benefit for accurate inventory control

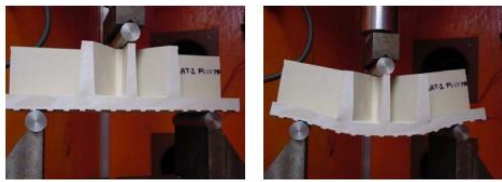
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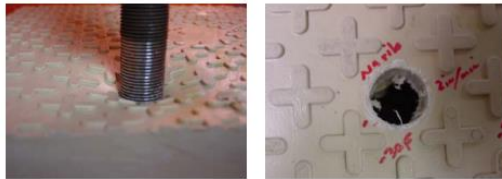
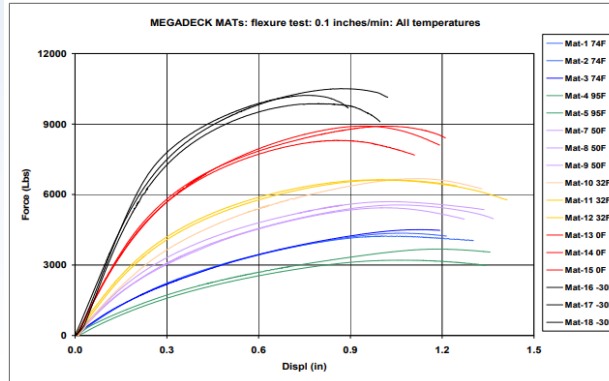
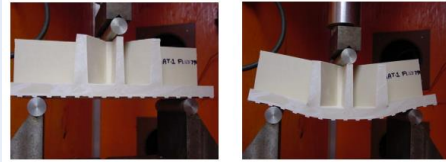
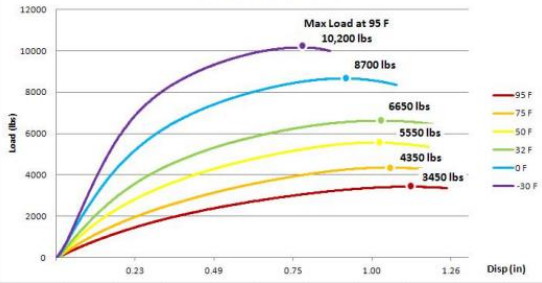


# BEST TECHNICAL AND SUPPORT TEAM

- Signature's team provides extensive support in the field
- We offer the best customer and product support
- We will train your personnel on installation practices and procedures
- Technical product deployment support



Load vs. Displacement  
for various temperatures



Puncture Tests  
with 1 in rod at 2 in/min

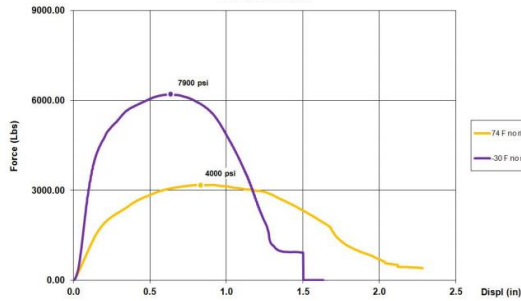
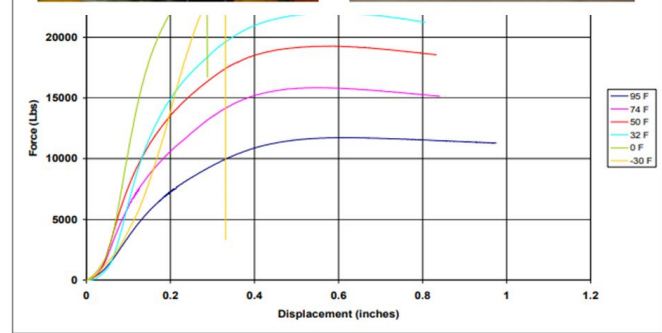
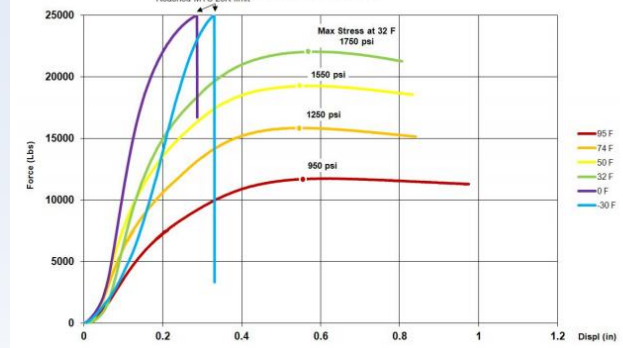


Figure 5: Puncture test plots shown with max stress at puncture



Compression Test  
with 4 inch diameter platten







# DURABLE AND LONG LASTING

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Long work life

Unlimited shelf life

Will not rot, crack, split or degrade

Ability to decontaminate mats

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**MEGADECK<sup>®</sup> HD**

**PERFORMANCE AND  
APPLICATION**





# PERFORMANCE

**COMPOSITE FORMULA ENSURES  
MEGADECK PERFORMANCE IN THE  
HARSHEST ENVIRONMENTS.**

**Proven success in climates including:**

- Rainy and wet regions
- Freezing temperatures
- Hot and humid environments
- Soft sand and clay soils



## CASE HISTORY

# ECUADOR

### PETROAMAZONAS CONSIDERATIONS:

- Project is located in an environmentally-protected area (National Park) and requires the highest environmental and safety standards
- Soft clay and sand soils with wet terrain and intense daily rains





## CASE HISTORY

# COLOMBIA

### PACIFIC RUBIALES CONSIDERATIONS:

- Accessibility to remote region (temporary roadways)
- Provide solid, safe temporary work surface on unstable wet soils
- Ability to relocate and reconfigure the installation of mats in a timely manner (quick transport of mats from drill site to drill site)



## CASE HISTORY

# INDONESIA

### **PERTAMINA CONSIDERATIONS:**

- High strength-to-weight ratio performance in wet and soft clay soils
- Ability to easily install the matting in difficult climates and cultural challenges
- Easily transportable via containerisation to remote locations



## CASE HISTORY

# NORTH DAKOTA, USA

### ALUTIIQ CONSIDERATIONS:

- High performance in extremely cold climates
- High weight bearing properties
- Uniform worksite in remote location







**MEGADECK<sup>®</sup> HD**

**INSTALLATION**



# INSTALLATION EQUIPMENT

- Wheel loader
- Skid Steer with tracks
- Mechanical Lifting device
  - Chains
  - Vacuum Pump with plant

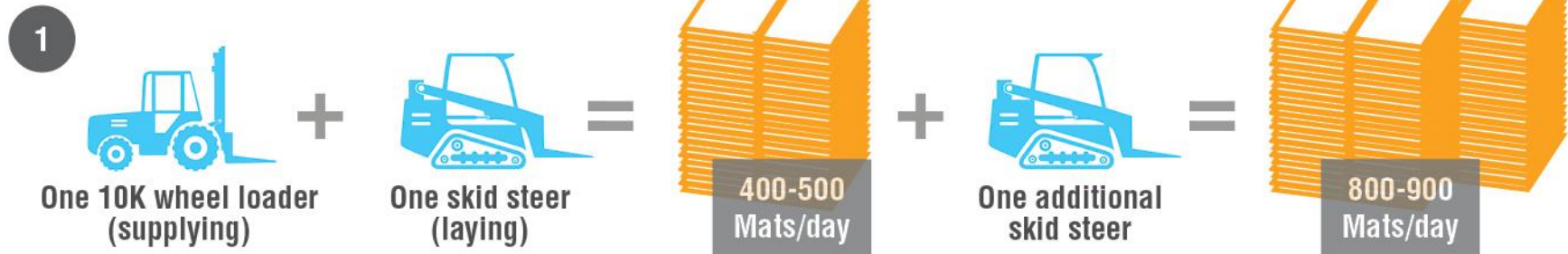




# INSTALLATION RATES

## Example

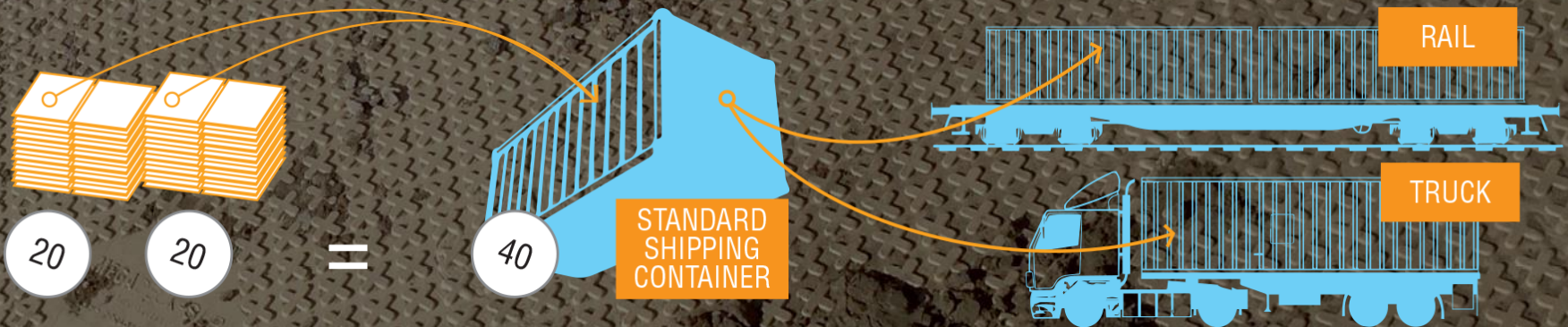
GROUND CREW  
3 people



# TRANSPORTING THE MATS

## SIZE IS IDEAL FOR RELOCATING MATS FROM SITE TO SITE

- Optimal dimensions for conveniently fitting in ISO containers.
- No customised pallets, mats simply stack into the container.







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**MEGADECK** HD

**SIGNAROAD**