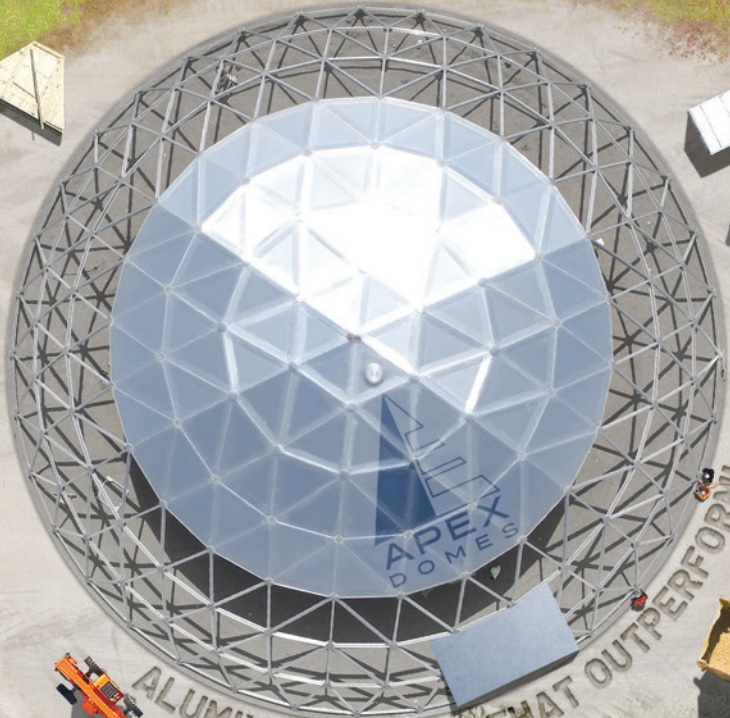


DRY BULK STORAGE SOLUTIONS



GET CONNECTED
TO UNMATCHED PERFORMANCE
WITH **TANK CONNECTION.**





ALUMINUM COVERS THAT OUTPERFORM!

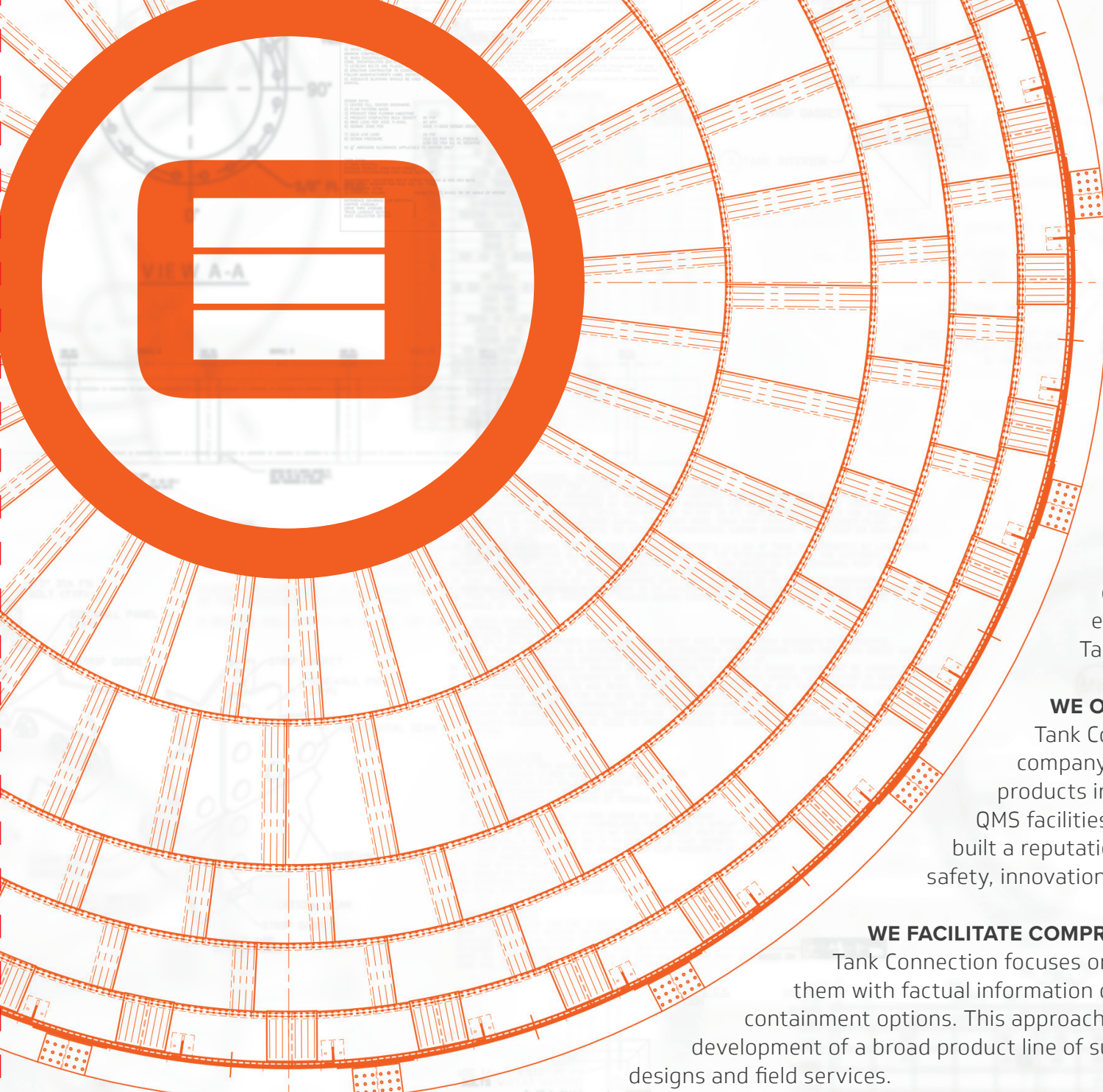


INNOVATIVE
DEVELOPER OF THE
NUMBER ONE
BOLTED SILO
DESIGN SELECTED
WORLDWIDE

THE HOPPER DESIGN EXPERTS

ELEVATE YOUR EXPECTATIONS
WITH THE GLOBAL LEADER IN
STORAGE TANK SOLUTIONS!





**AT TANK CONNECTION,
WE ENGINEER EXCELLENCE**

Tank Connection is the leading bolted tank manufacturer for factory coated bolted storage tanks and aluminum geodesic dome covers for dry bulk and liquid storage applications. Tank Connection is a vertically integrated company assuring the best products available while maintaining competitive pricing.

WE EXCEED EXPECTATIONS

Tank Connection is committed to helping clients find success with their projects. It is the utmost devotion to the customer that drives an unyielding pursuit of excellence that is the embodiment of Tank Connection.

WE OWN A REPUTATION OF SUCCESS

Tank Connection is an employee owned company, manufacturing American-made products in multiple ISO 9001:2015 Certified QMS facilities in the U.S. Tank Connection has built a reputation of success with a passion for safety, innovation and continuous improvement.

WE FACILITATE COMPREHENSIVE SOLUTIONS

Tank Connection focuses on listening to clients and providing them with factual information on different types of storage containment options. This approach to service clients is based on the development of a broad product line of superior storage tank products, designs and field services.

QUALITY & SAFETY DEFINES OUR PERFORMANCE

At Tank Connection, quality and safety are second nature. Tank Connection's field installation utilizes a synchronized jack process, which allows field crews to install tanks at grade level. This process receives the highest industry ratings for quality control and safety in the field.



**BOLTED RTP
HOPPER TANK
CAPACITIES**

Sizes up to
150,000 cubic feet
4247.5 cubic meters

**WHEN IT COMES TO
SAFETY, WE'VE GOT BOTH
FEET ON THE GROUND.**



**THE SAFEST FIELD
INSTALLATION
PROCESS IN
THE INDUSTRY.**

**WE JACK THE LARGEST BOLTED TANKS IN
THE WORLD FROM GRADE LEVEL.**



**Tank Connection jacking
systems are stored at
various locations around
the world for expeditious
results at the lowest
factored cost.**

**AN
ISO 9001:2015
CERTIFIED
QMS COMPANY**

THE RECOGNIZED EXPERTS IN STORAGE TANK SOLUTIONS

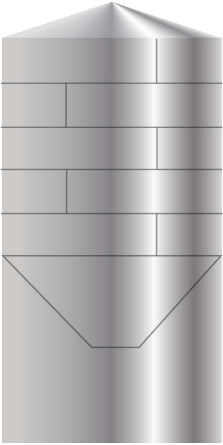
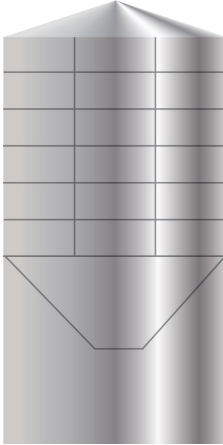
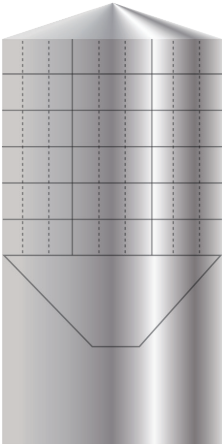
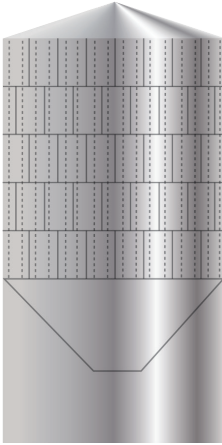
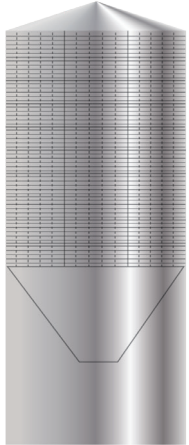





When it comes to precision design and expert knowledge, Tank Connection maintains one of the most comprehensive engineering departments in the tank industry. With an extensive in-house staff of PE's, project managers, and drafting services, Tank Connection is able to offer bulk storage tank construction tailored for any global location.

Starting with steel procurement at the mill and finishing with construction services in the field, all design, manufacturing, project management, system integration and field installation services are available through Tank Connection's experienced personnel.

Tank Connection offers heavy, robust tank designs that are designed for low maintenance and long term performance. Tank Connection's bolted RTP (rolled, tapered panel) tank construction outperforms all other types of bolted tank construction through its superior design, proprietary coating systems and safe field installation processes. Let Tank Connection's expert industrial designers and shop technicians, with decades of experience in tank production, turn your specifications into a specialized tank built to last.

Common Code Requirements

- IBC (International Building Code)
- UBC (Uniform Building Code)
- Eurocode
- ASCE (American Society of Civil Engineers)

HEAVY MODULAR TANK DESIGN		LIGHT MODULAR TANK DESIGN							
<p>FIELD WELDED</p> 	<p>BOLTED RTP</p> 	<p>BOLTED RTP</p> 	<p>BOLTED API 12B FLANGED PANEL</p> 	<p>CORRUGATED PANEL</p> 					
 <p>DESIGN A BEST QUALITY</p>	 <p>DESIGN A BEST QUALITY</p>	 <p>DESIGN B GOOD QUALITY</p>	 <p>DESIGN C MARGINAL QUALITY</p>	 <p>DESIGN D LOWEST QUALITY</p>					
DESIGN	Panel size varies	DESIGN	10' wide panel	DESIGN	2 stiffeners per 10' wide panel	DESIGN	2 stiffeners per 5' wide panel	DESIGN	4 stiffeners per panel
PANEL TYPE	Horizontal rolled	PANEL TYPE	Horizontal RTP	PANEL TYPE	Horizontal RTP	PANEL TYPE	Vertical flanged	PANEL TYPE	Corrugated
APPLICATION	Heavy bulk ind. power industry	APPLICATION	Heavy bulk ind. power industry	APPLICATION	Bulk industrial	APPLICATION	Grain, light bulk, plastics, other	APPLICATION	Grain

TANK CONNECTION BOLTED RTP DESIGN. PRECISION ENGINEERING PERFECTED.

Bolted RTP design is a combination of the best features of bolted and field welded storage tanks. The modular design allows for easy shipping and safe, grade level installation. Robust construction and precision engineering make Tank Connection's bolted RTP well-adapted to all climates, geology and weather conditions. It is easy to see why it is the product of choice for dry bulk applications worldwide.

UNMATCHED COATINGS



The highest quality tank design at a competitive price

Bolted RTP outdates API 12B and other flat panel designs



Bolted RTP is the only design recognized as a replacement for field welded tank construction



- #1 BOLTED TANK DESIGN WORLDWIDE
- UNMATCHED IN ALL CATEGORY RANKINGS
- LONG LIFE & LOW MAINTENANCE
- DIVERSE DESIGN CONFIGURATION & ACCESSORY OPTIONS
- EXACT MANUFACTURING TOLERANCES
- EXPERTS IN MATERIAL FLOW ENGINEERING
- PRECISION ENGINEERED BOLTED RTP DESIGN
- NO LEAK DESIGN
- STATE-OF-THE-ART, PROPRIETARY COATING TECHNOLOGIES
- MASS PRODUCTION ECONOMICS
- QUICK INSTALLATION
- GRADE LEVEL, SYNCHRONIZED JACKING PROCESS
- HEAVY TANK DESIGN
- FACTORY DIRECT INSTALLATION CREWS AVAILABLE
- SMOOTH WALL CONSTRUCTION



BOLTED RTP PERFORMANCE. THE COMPETITION SIMPLY DOESN'T STACK UP.

BOLTED RTP DESIGN

Seal: EPDM gasket

Heavy modular design: Up to 1/2" plate

Precision fabrication quality

Hopper attachment: Shop welded
(upper and lower compression attachment)

Interior coating: Dry Fusion 5500 FBE™

Exterior coating: Dry Fusion 5500 FBE™
+ EXT Fusion SDP™

Lap joint panel connections = No leak design

Jack-built = Grade level crews

External ledge: None (smoothwall)

Internal ledge: None (smoothwall)

Long life + Low maintenance

Superior aesthetics

Rating: Excellent



API 12B DESIGN

Seal: EPDM gasket

Light modular design: Up to 1/4" plate

Inconsistent flange panel fabrication

Hopper attachment: Bent plate
(same as corrugated grain tanks)

Interior coating: Powder coating primer

Exterior coating: Acrylic urethane

Chime connections = Leaks

Scaffold-built = Elevated crews

External ledge: Yes (2" horizontal ledge)

Internal ledge: Yes = Product contamination

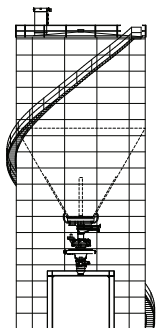
Limited life + High maintenance

Poor aesthetics

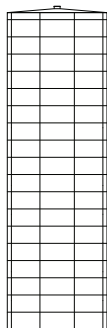
Rating: Poor

COMMON TYPES OF BOLTED RTP TANKS PROVIDED BY TANK CONNECTION

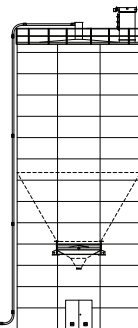
SKIRTED DRIVE THROUGH



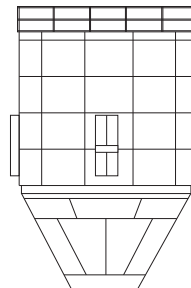
COLUMN ENCLOSURE



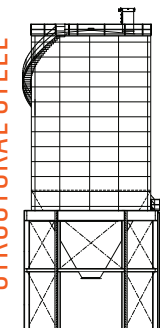
FULL SKIRT



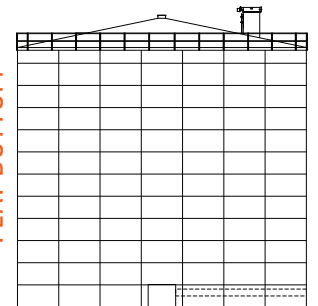
BOLTED LUG



SHORT SKIRT ON
STRUCTURAL STEEL



FLAT BOTTOM



PERFECTLY ADAPTABLE

Superior engineering combined with advanced coating technology make Tank Connection bolted RTP designs ideal for any bulk storage application, in any environment. The modular design of a bolted RTP is a logistically sound approach as it is easily containerized for expeditious shipping and installation anywhere in the world. A long track record of versatility and durability has proven bolted RTP design to be the best storage solution for mainstream and customized applications alike.

CEMENT TERMINAL
Bacadera Port, Aruba



FRAC SAND
Sexsmith, Alberta



FGD & LIMESTONE
Detroit, MI



SODIUM BICARBONATE
Montana City, MT



BIO SOLIDS FACILITY
Detroit, MI



FRAC SAND
Vernal, UT



SALT MINING
Cote Blanche, LA



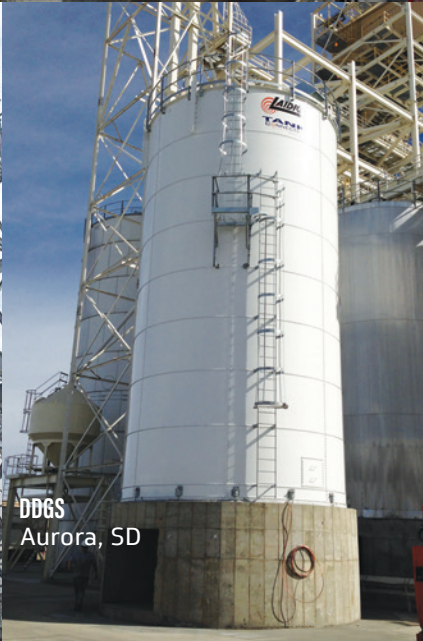
ENCLOSURE
Edwardsport, IN



CEMENT TERMINAL
Melbourne, Australia



SPECIALIZED MINERALS
Newberry, FL



DB&S
Aurora, SD



AGGREGATE
Jasper, MO

GAME-CHANGING INNOVATION

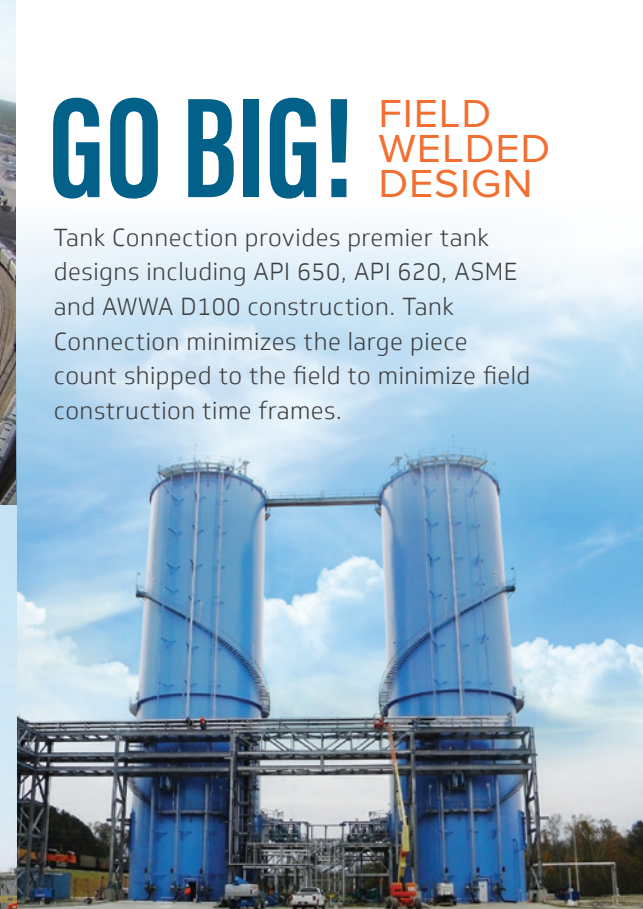
Tank Connection has been at the forefront of innovation and technology in the storage industry since its inception. Tank Connection continues to evolve its products and their capabilities to provide the best products in the market. The hybrid tank design is a Tank Connection innovation that developed from our power utility applications. This versatile design combines the best qualities of Bolted RTP, field welded and concrete tank construction.



SAND STORAGE
Monahans, TX



SOYBEAN MEAL
Hanford, CA



LIMESTONE
Quinton, AL



CEMENT TERMINAL
Whangarei, New Zealand



FLY ASH
Muscatine, IA



CARBON
Armistead, LA

GO BIG! FIELD WELDED DESIGN

Tank Connection provides premier tank designs including API 650, API 620, ASME and AWWA D100 construction. Tank Connection minimizes the large piece count shipped to the field to minimize field construction time frames.

THE HOPPER DESIGN EXPERTS



Tank Connection designs, manufactures and installs more large hopper bottom silos than any other tank manufacturer.



TANK CONNECTION SPECIALIZES IN MATERIAL FLOW DISCHARGE SYSTEMS

Tank Connection is recognized as the design and fabrication experts for functional mass flow storage systems. Flow testing depicts that functional mass flow discharge can be achieved with reduced hopper slopes by utilizing Tank Connection's proprietary fusion bond coating system. Reduced hopper slopes equate to cost savings for the client. Tank Connection remedies the storage problems of the past by prescribing the correct variables of hopper slope, outlet size, outlet configurations, materials of construction and surface finish, active flow-aid devices, passive flow-aid devices, internal and external coatings systems, applicable codes and the correct flow type required for reliable material flow. Some standard hopper product offerings include:

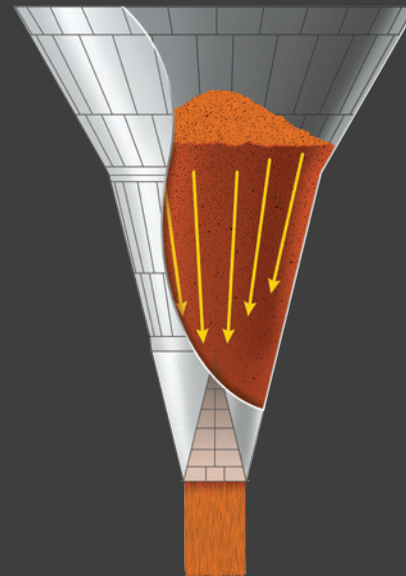
- Functional mass flow
- Funnel flow
- Expanded flow
- Active/vibratory discharge
- Numerous configurations of fluidized hopper designs
- Typical hopper slopes: 45° to 70°
- Custom slopes
- Custom design chisel hopper designs
- Hopper capacities from 1,000 – 125,000 ft³

FUNCTIONAL MASS FLOW DESIGN

- Smooth, steep hopper
- First-in, first-out
- Fine powders deaerate
- Segregation problems are minimized
- Material is fed uniformly at constant density

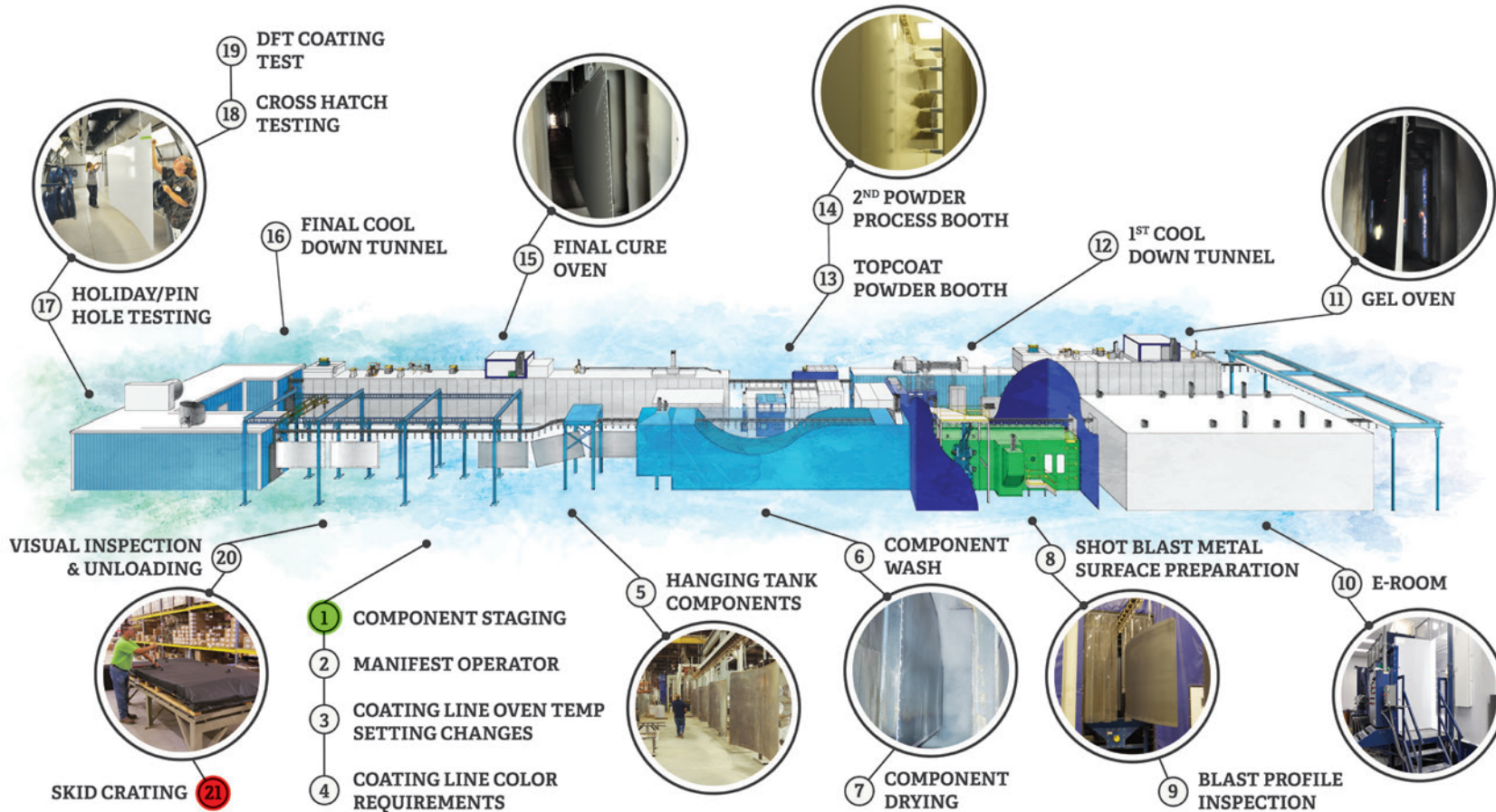
FUNNEL FLOW DESIGN

- Lower headroom
- First-in, last-out
- Lower storage cost
- Excellent for coarse, free-flowing materials



FUSION COATING TECHNOLOGY. UNMATCHED PROCESSES. UNRIVALED RESULTS.

Tank Connection maintains two state-of-the-art fusion powder coating lines, each over 200 yards (182.88 m) in length. The system and controlled station processes are unmatched by any other tank manufacturer. The proprietary fusion powder coating systems offered by Tank Connection are designed for high chemical resistance, corrosion resistance, flexibility, chip resistance, weatherability and UV protection.



21 STAGES **14** STATIONS

OVER 110 APPLICATION PROCESSES
CHECKS AND INSPECTIONS

EXCLUSIVE & Proprietary
AUTOMATION PROCESSES

TANK CONNECTION POWDER COATING COLORS

The colors shown are printed approximations. The exact color can be viewed using RAL standard color samples.

STANDARD COLORS					PREMIUM COLORS	
TC TAN RAL1001	TC WHITE RAL9016	TC LIGHT BLUE RAL5024	TC LIGHT GREEN RAL6019	TC GRAY RAL7035	TC COBALT BLUE RAL5011	TC FOREST GREEN RAL6005

DRY FUSION 5500 FBE™ [Base Coat]

This high performance epoxy powder coating has been specifically designed for bolted storage tank applications storing dry bulk materials. The factory baked-on coating is well suited as an excellent base coat when applied to a properly prepared substrate surface and topcoated with super durable polyester powder coatings.

CERTIFICATION

- **FDA - 21 CFR 175.300:** Resinous and Polymeric Coatings

CHARACTERISTICS

- Superior product flow promotion qualities
- Fusion bonded to substrate surface
- Abrasion, chip and scrape resistant
- Can be repaired in the field if damaged
- Superior test performance compared to all other coatings
- Does not crack or spall
- Excellent chemical and corrosion resistance
- Best warranty in the industry

PHYSICAL PROPERTIES

Condition	Test Method	Performance
Adhesion	ASTM D3359	100%
Abrasion Resistance	ASTM D4060-07 (CS-10, 1000g, 3000 cycles)	< 70mg loss
Abrasion Resistance	ASTM D968 - 690 Liters sand	No wear through
Chip Resistance	ASTM D3170-03	7B
Heat Resistance: Dry	Temperature (°F)	300°F (149°C)
Impact Resistance	ASTM D2794	160/160 direct/reverse
Hardness	ASTM D3363	6H
Flexibility	ASTM D522	1/8" (270° bend)
Pull Test	ASTM D4541	3000+ psi
Scrape Adhesion	ASTM D2197	>10 kg
Humidity Resistance	ASTM D2247 1,000 hours	No change

SPECIFICATION & PERFORMANCE

Film Thickness	5-9 mils DFT
Surface Profile	SSPC SP10 near white metal blast

DRY FUSION 5500 FBE™ + EXT FUSION SDP™ [Top Coat]

EXT Fusion SDP™ is a superdurable polyester powder coating that is designed for extreme exterior exposure weathering resistance. This coating provides significantly improved gloss retention and resistance to color change compared to standard coating systems. Utilizing the protective properties of Tank Connection's exclusive FBE epoxy powder fused to substrate with a fused topcoat of SD polyester, it outperforms all other tank exterior coating systems offered. In recognized exposure testing (Southern Florida Exposure Tests), this system is rated at **5 years** without change!

CHARACTERISTICS

- Outstanding toughness with proven weatherability
- Fusion bonded to FBE primer
- Gloss retention @ 60°: 80±5 GU
- Enhanced resistance to chalking or fading
- Superior exterior durability
- Best warranty in the industry
- Can not be scratched off independent of the base coating

PHYSICAL PROPERTIES

Condition	Test Method	Performance
Adhesion	ASTM D3359	4+
Impact Resistance	ASTM D2794	40+
Flexibility	ASTM D552	1/2" or better
Exterior Durability	AMMA 2604-05	5 year Florida*
Hardness	ASTM D3363	H+
Corrosion Resistance**	ASTM B117	> 10,000 hrs without failure

SPECIFICATION & PERFORMANCE

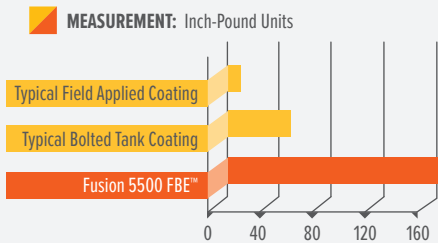
Film Thickness	6-10 mils DFT
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** When EXT Fusion SDP™ topcoat is used over DRY Fusion 5500™ primer.



DURABILITY

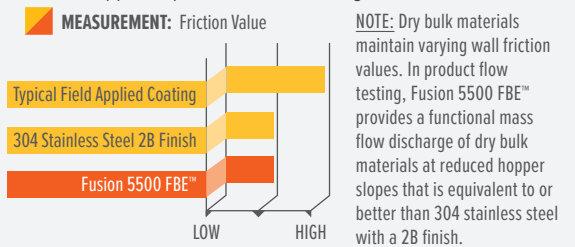
Impact Resistance: Per ASTM D2794



WALL FRICTION PROPERTIES

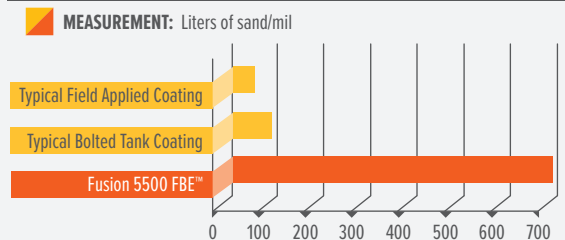
Lower wall friction values equate to less hopper slope required for functional mass flow discharge.

Reduced hopper slope = reduced tank height & lower installed cost



ABRASION RESISTANCE

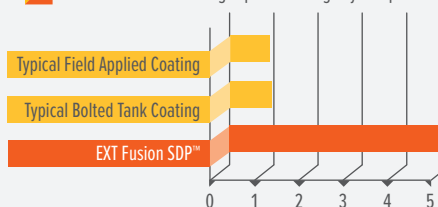
Falling Sand: Per ASTM D968 - Liters of sand/mil of erosion



SOUTHERN FLORIDA EXPOSURE TESTING

Reference: AMMA 2604 - 05

MEASUREMENT: Coating exposure rating in years per AMMA 2604 -05 testing





BULK STORAGE COVERS THAT OUTPERFORM



STRONGEST SPACE FRAME DESIGN

OPTIMUM COST EFFICIENCY

CLEAR SPAN DESIGN

FACTORY DIRECT INSTALLATION

QUICK FIELD INSTALLATION

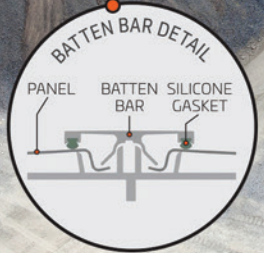
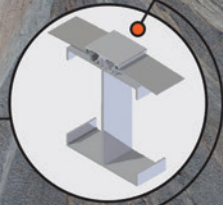
SUPERIOR AESTHETICS



PROPRIETARY NODE DESIGN
The spun aluminum hub cover provides a precision seal

**NEW CONSTRUCTION
RETROFIT APPLICATIONS
CUSTOMIZED DESIGNS**

A BETTER BATTEN BAR
A more robust system • The only batten bar engineered with three redundant features to provide a leak free design



PREVENTS ENVIRONMENTAL CONCERNS & PRODUCT LOSS

WATERTIGHT DESIGN

EXTENDED SERVICE LIFE

ENGINEERING EXCELLENCE

LOW MAINTENANCE

CUSTOM DESIGNED FOR BULK HANDLING & MISCELLANEOUS EQUIPMENT LOADS

SIZE RANGE
12 - 1,000 FEET
3.5 - 304.8 METERS

ALL ALUMINUM CONSTRUCTION

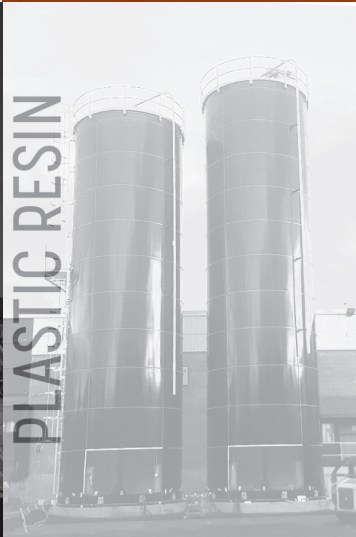
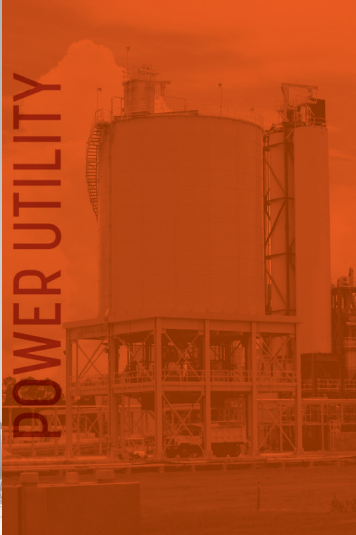
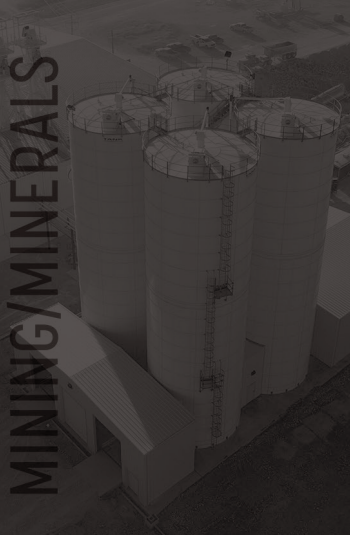
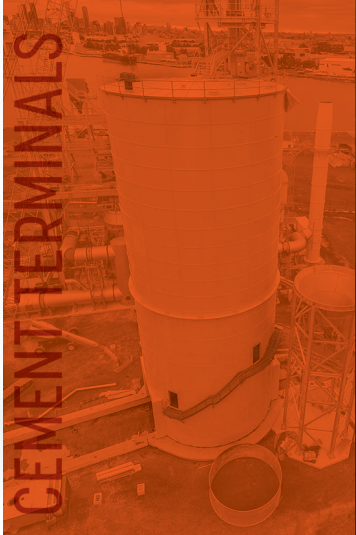
CORROSION RESISTANT

MINIMIZES FOUNDATION LOADS



ELEVATE YOUR EXPECTATIONS!

- Tank Connection designs and builds the highest quality products that will stand the test of time
- Honesty, integrity and a targeted focus on client success and satisfaction are paramount
- Tank Connection is home to the leading experts with the most experience in the industry
- Quality, technological innovation and accountability are driven by a progressive vision



WE WILL MEET AND EXCEED YOUR EXPECTATIONS!



REQUEST A QUOTE AND **GET CONNECTED WITH REAL PERFORMANCE**
FROM THE INDUSTRY LEADER, **TANK CONNECTION!**

TANK CONNECTION: 3609 North 16th Street, Parsons, KS 67357
PHONE: +1 620.423.3010 **EMAIL:** sales@tankconnection.com
WEB: TANKCONNECTION.COM **WEB:** APEXDOMES.COM

STAY **CURRENT**
STAY **CONNECTED**





