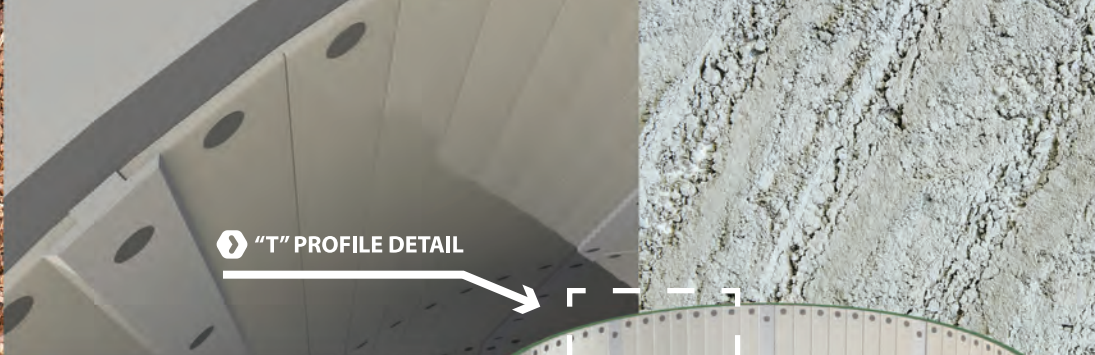


**Torlene**®  
*Premium Polymer Liners & Components*





"T" PROFILE DETAIL

COVE CORNER DETAIL



**Torlene®** sets the new standard in premium linings used in bulk material handling. Torlene® is recognized as the ultimate solution in bulk solids flow due to its exceptional non-stick sliding surface. The low-coefficient of friction and self-lubricating ability of Torlene®, allows work hardening and therefore superior abrasion resistance when compared to other premium liners.

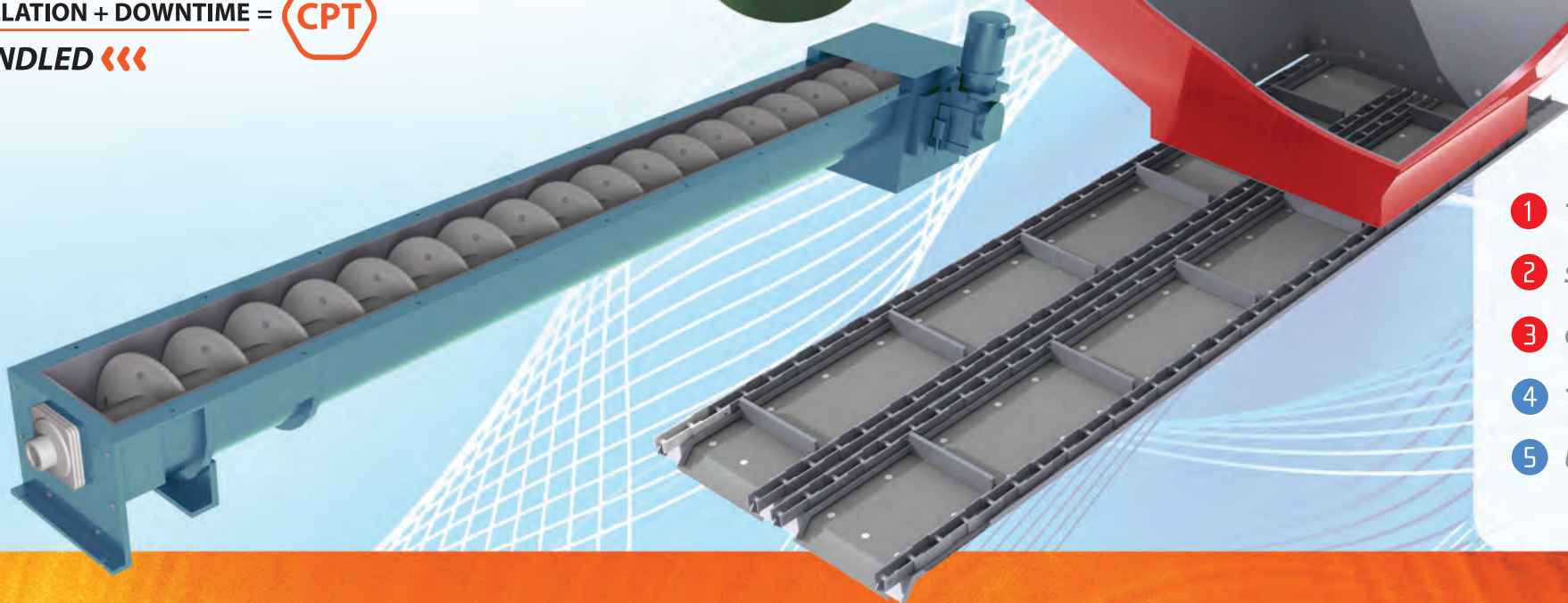
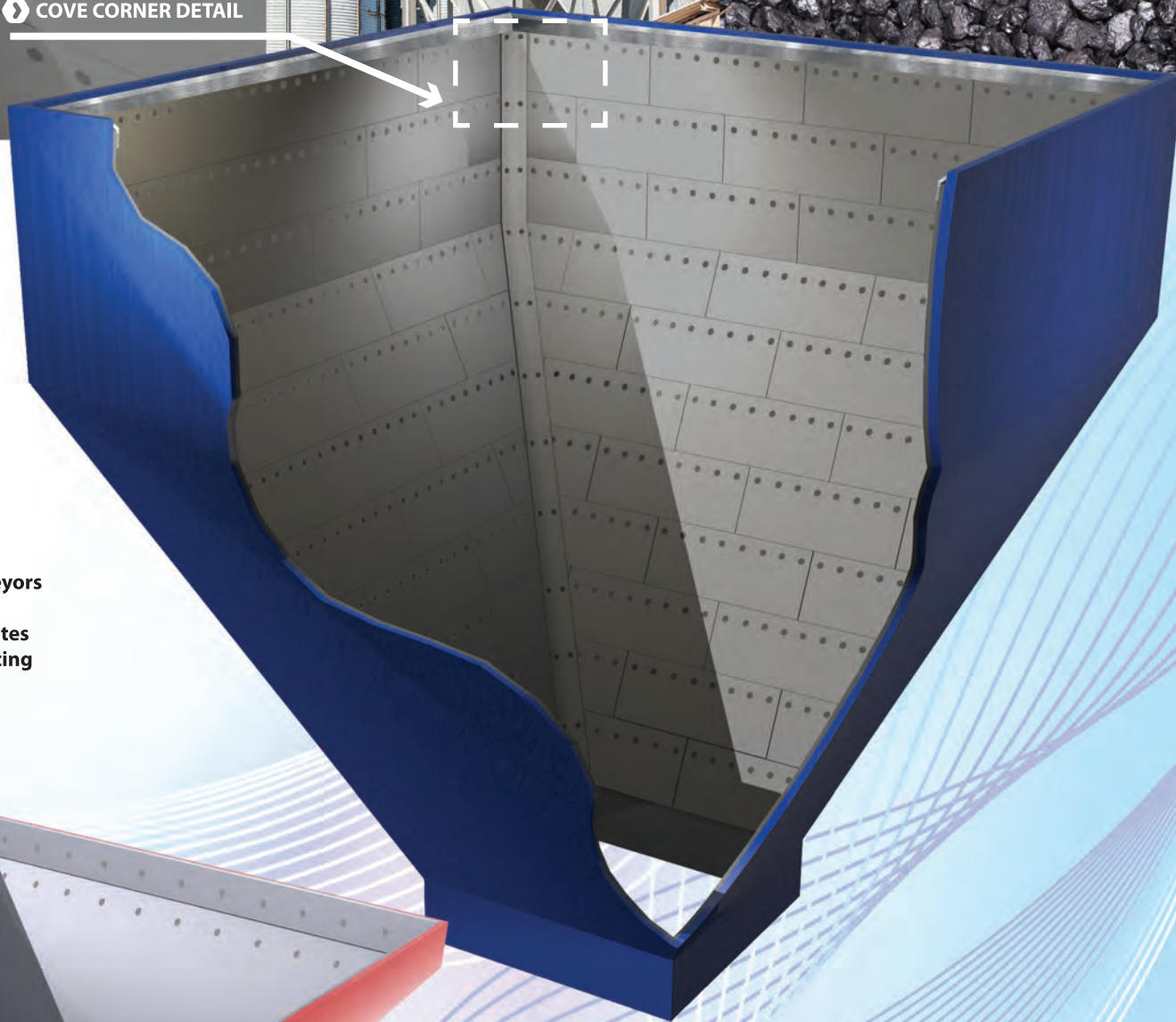
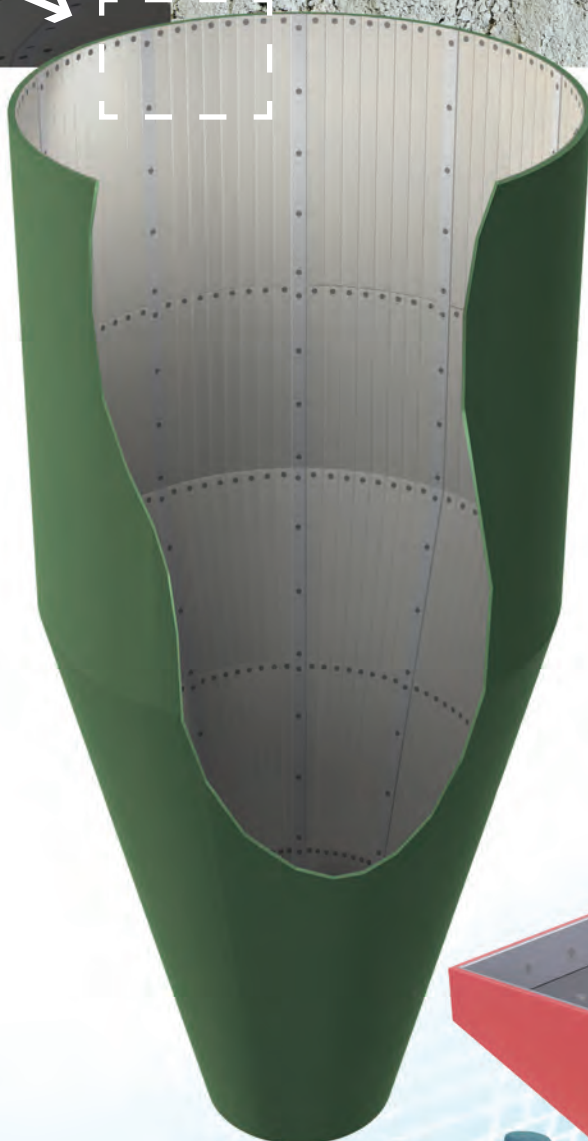
- **MATERIAL FLOW:** The smooth free-flowing surface of Torlene® will eliminate common problems with cohesive material flow bridging and ratholing.
- **ABRASION RESISTANCE:** Torlene® will outlast materials such as UHMW, Nylon, Teflon, HDPE, and similar materials many times over, due to its very dense molecular structure and extremely low coefficient of friction.
- **DIMENSIONAL STABILITY:** The unique dimensional stability of Torlene®, makes it perfect for the machining of bushings, bearings, and gears.
- **EXCEPTIONAL DIMENSIONAL STABILITY:** The alloyed matrix of Torlene makes it the most dimensionally stable plastimeric material, resulting in reduced stress failures and superior performance in many bearing applications.
- **LOWEST COST PER TON:** Torlene® will substantially reduce your operating cost, when compared to any other lining material. The true Cost Per Ton can be calculated as follows...

$$\frac{\text{MATERIAL COST} + \text{INSTALLATION} + \text{DOWNTIME}}{\text{TONS HANDLED}} = \text{CPT}$$

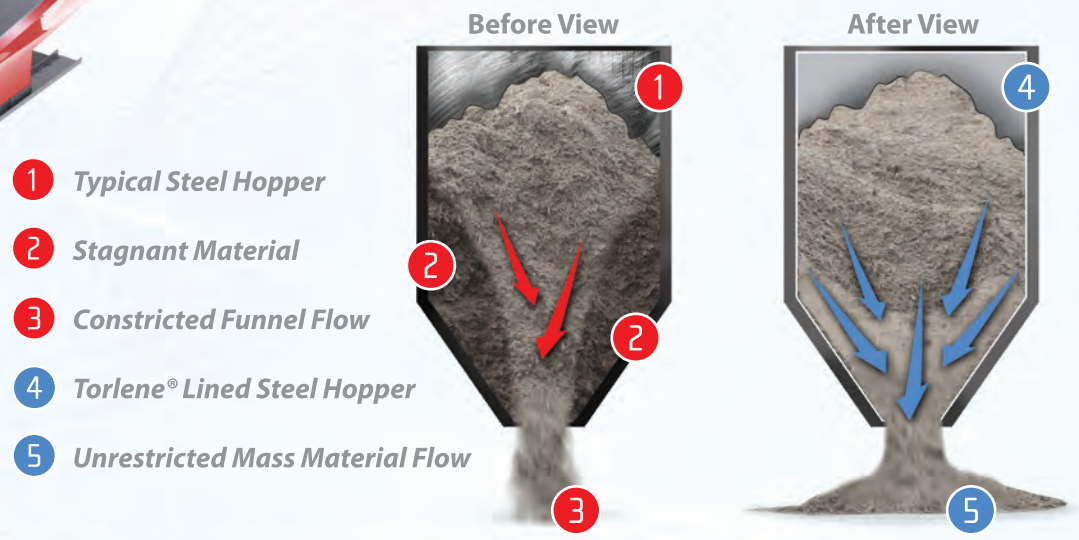
- INDUSTRIES**
- Power Generation
    - Coal
    - Biomass
    - Bark
    - Pellets
  - Pulp and Paper
  - Cement
  - Mineral Processing
  - Grain Handling
  - Steel
  - Waste Water

**APPLICATIONS**

- Liners**
- Silos
  - Bunkers
  - Chutes
  - Hoppers
  - Surge Bins
  - Drag Chains
  - Screw Conveyors
  - Slider Beds
  - Transfer Chutes
- Conveyor Skirting**
- Wear Strips**
- Bearings**
- Bushings**



**Hopper Cross-Section Flow Comparison**





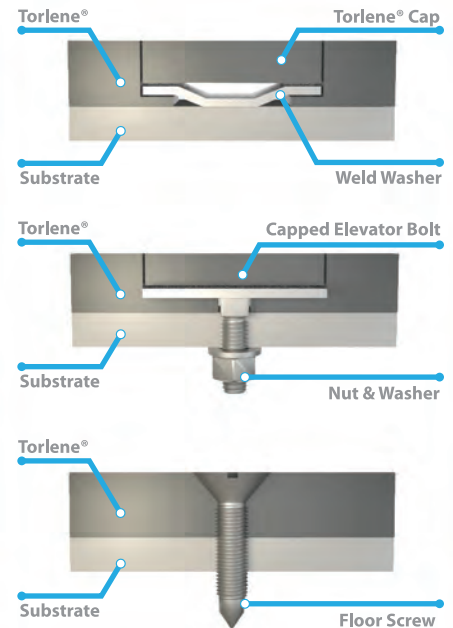
# Torlene®

Premium Polymer Liners & Components

- **INSTALLATION** — As **Torlene®** only weighs a fraction (approximately 12%) of that of carbon steel, there is no special handling equipment required. Cutting and Drilling can be performed with traditional hand held power tools. Installation can be done with either weld washers/caps\*, capped bolts\*, or floor screws.  
\*Used on 1/2" or thicker
- **OPTIONAL FORMULATIONS** — **Torlene®** is available in Anti-Static and Weldable Versions. It is also available in white for color sensitive mineral processing applications.
- **THERE IS NO COMPARISON!** — Equipment owners of bulk material handling equipment such as chutes, hoppers, and drag chain liners would agree, the coefficient of friction is the most important indicator of the total wear performance over time. **The lower the friction, the better the wear resistance.**

When comparing UHMW Polyethylene to **Hudco's Torlene®** the difference offers a remarkable and money-saving advantage for you and your company.  
\*\*See Product Comparison Chart Below

## INSTALLATION METHODS



## PRODUCT COMPARISON\*\*

Friction (ASTM D1894)	UHMW Polyethylene	Torlene®
Static	.15	.10
Dynamic	.12	.08

\*\*\*  
% DIFFERENCE = **50%**

## SHEET SIZES

### Typical Width x Length

48" x 120" (4' x 10')

### Available Thicknesses

1/8", 1/4", 3/8", 1/2", 3/4",  
1", 1-1/2", 2", 2-1/2", 3",  
3-1/2", 4", 5", 6"

## ROUND STOCK

### Maximum Length

120" (10')

### Diameter in Inches

1", 1-1/2", 2", 2-1/2", 3",  
3-1/2", 4", 5", 6"

## PHYSICAL PROPERTIES CHART

Physical Properties	Typ. Values	Test Methods
Density, g/cm <sup>3</sup>	0.94	ASTM D 792
Hardness, Rockwell R Scale	67	ASTM D 785
Recommended Operating Temperature		
Maximum Continuous, °F (°C)	225 (107)	
Tensile Properties		ASTM D 638
Maximum Strength, psi	5,200	
MPa	36	
Yield Strength, psi	2,800	
MPa	19	
Elongation at Break, %	400	
Flexural Modulus, psi	90,000	ASTM D 790
MPa	622	
IZOD Impact Strength at 23°C, ft-lbs/in <sup>2</sup> (kJ/m <sup>2</sup> )		
Notched	No break	ASTM D 256A
Double Notched	38 (78)	Internal
Mean Coefficient of Linear Thermal Expansion per °C	1.6 x 10 <sup>-4</sup>	ASTM D 696
Coefficient of Friction against Polished Steel at 23°C		ASTM D 1894
Static	.10	
Dynamic	.08	
Abraision Index	7.5	Sand Slurry
Abraision Index	9.0	ASTM G 65
Surface Resistivity, ohms	>1016	ASTM D 257
Volume Resistivity, ohms-em	>1016	ASTM D 257



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