

- + Heavy-duty, 30 mil, textured polyethylene liner provides rugged, impermeable barrier to capture leaks and spills.
- + Creates large, semi-permanent containment areas. Provides much more gallon capacity than shorter walled containment systems.
- + Versatile system can be easily disassembled for reuse at future sites.
- + Unlike some containment systems, the Ultra-Containment Wall is not secured to the substrate so it is perfect use in parking lots, sand, rocky soil, muddy soil, frozen soil or on concrete areas.
- + Made in the USA.
- + Meets SPCC, EPA Container Storage Regulation 40 CFR 264.175.



Connector pins allow systems to be setup quickly and easily without the need for special tools or equipment.



Large clips (included) hold the liner in place. Excess liner can be trimmed if desired.

Part#	Wall Height & Description ft. (m)	Dimensions in. (mm)	Weight lbs. (kg)	Max. Fill Height in. (mm)
8896	1 (0.3) - Straight Section	86 x 18 x 12 (2,184.4 x 457.2 x 304.8)	34 (15.4)	12 (305)
8897	1 (0.3) - Corner Section	36.8 x 36.8 x 12 (933.5 x 933.5 x 304.8)	12 (5.4)	12 (305)
8880	2 (0.6) - Straight Section	86 x 24 x 24 (2,184.4 x 609.6 x 609.6)	65 (29.5)	24 (610)
8881	2 (0.6) - Corner Section	36.8 x 19 x 24 (933.5 x 483.6 x 609.6)	19 (8.6)	24 (610)
8883	3 (0.9) - Straight Section	86 x 24 x 36 (2,184.4 x 609.6 x 914.4)	76 (34.5)	36 (914)
8884	3 (0.9) - Corner Section	36.8 x 19 x 36 (933.5 x 483.6 x 914.4)	25 (11.3)	36 (914)

Complete Systems:						
Part#	Wall Height ft. (m)	Usable Dimensions ft. (m)	Item Quantity	Containment Cap. gal. (L)	Weight lbs. (kg)	Max. Fill Height in. (mm)
8898	1 (0.3)	15 x 55.7 x 1 (4.6 x 16.8 x 0.3)	20-Straight, 4-Corners, Liner not included	6,211 (23,511.2)	728 (330)	12 (305)
8882	2 (0.6)	15 x 55.7 x 2 (4.6 x 17 x 0.6)	20-Straight, 4-Corners, Liner not included	12,421 (47,018.6)	1,376 (624)	24 (610)
8885	3 (0.9)	15 x 55.7 x 3 (4.6 x 17 x 0.9)	20-Straight, 4-Corners, Liner not included	18,632 (70,529.8)	3,007.5 (1,364.2)	36 (914)



Ultra-Containment Wall® Assembly Instructions



- 1. Unpack walls and corners.
- 2. Inspect for any shipping damage and missing parts.



3. Set up walls and corners in area requiring spill containment.



- 4. Insert pin at each wall/corner connection.
- 5. Set up <u>all</u> walls and corners. This will insure the correct spacing.



6. Remove walls on side that frac tank/tanker truck/other vehicle will be rolled through.



7. Unroll liner and place over walls.



8. Walk around the containment area so that the liner lays close to the Containment Walls.



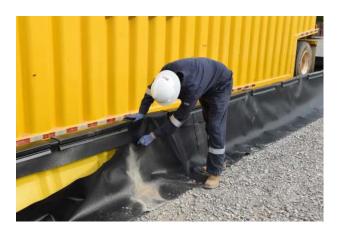
9. Carefully drive/roll container (frac tank, etc) into Containment Wall system.



10. Once truck and/or any other equipment that will not be contained is removed, replace any walls/corners that were removed in step 6.



11. Place clips (two per wall / one per corner) over liner to secure it in place. (NOTE: The clips are designed to fit snugly and may require a fair amount of force to install. A rubber mallet can be helpful).



12. OPTIONAL: If desired, any excess liner material can be trimmed using a sharp utility knife.



13. Your installation/assembly is now complete. The Containment Wall System should be inspected periodically for any leaks or damage.



Chemical Compatibility Guide - Molded Polyethylene

For UltraTech Spill Containment Products

This listing was prepared to provide guidance to the chemical compatibility of UltraTech Spill Containment Products which are manufactured and constructed of a molded polyethylene.

Polyethylene is susceptible to attack by some chemicals which may cause stress cracking, swelling, oxidation or may permeate the polyethylene. These reactions may reduce the physical properties of polyethylene.

When considering an UltraTech polyethylene product for use in secondary containment applications, it is important to note that most secondary containment products are designed to hold leaked chemicals for only hours, a day, at most a week.

These secondary containment units would then be cleaned of any chemical. In these short term applications, a greater variety of chemicals may be used with the polyethylene since the exposure time of the chemical to the polyethylene is limited.

A = Suitable for long term storage at 100 degrees Fahrenheit or less.

B = Suitable for short term storage less than one year.

C = Do NOT store these chemicals in UltraTech containment products.

User testing may prove some of these chemicals are suitable for secondary containment applications with an exposure time of one week or less.

Aqua RegiaC

Acetaldehyde (40%)A
Acetanide
Acetic Acid (50%)A
Acetic Acid (50%)
Acetic Ether
Acetone
Acetylene Tetrabromide
Acrylic EmulsionsB
AcrylonitrileA
Adipic AcidA
Aliphatic HydrocarbonsA
AlkalineA
Allvl Alcohol (96%)A
Aluminum Chloride (20%)A
Aluminum FluorideA
Aluminum Hydrogen Solution (10%)A
Aluminum HydroxideA
Alums (All Types)A
Ammonia (Aqueous)A
Ammonium AcetateA
Ammonium BifluorideA
Ammonium Carbonate (50%)A
Ammonium ChlorideA
Ammonium Hydrogen Fluoride (50%)A
Ammonium HydroxideA
Ammonium Metaphsophate Sat'dA
Ammonium Nitrate Sat'dA
Ammonium Persulfate Sat'dA
Ammonium PhosphateA
Ammonium SaltsA
Ammonium Sulfate Sat'dA
Ammonium Sulfide, Sat'dA
Ammonium Thiocyanate Sat'dA
Amyl AcetateA
Amyl Alcohol (100%)A
Amyl ChlorideC
Aniline (100%)B
Aniline HydrochlorideB
Anti Freeze
Antimony SaltsA
Antimony Trichloride (90%)A

Aqua RegiaC
Aqueous Alkalies (NaOH)A
Arsenic AcidA
Barium CarbonateA
Barium ChlorideA
Barium CyanideA
Barium HydroxideA
Barium NitrateA
Barium SaltsA
Barium SulfateA
Barium SulfideA
Battery Fluid, AcidB
BenzaldehydeA
Benzene Sulfonic AcidB
BenzeneB
Benzoic AcidA
Benzyl AlcoholA
Benzyl ChloroformateA
Boric Acid ConcA
Boric Acid DiluteA
Borzx Cold Sat'dA
Bromine, LiquidC
Bromine, WaterC
BromobenzeneC
BromoformC
ButadieneA
Butanediol (100%)A
ButanolA
Butyl AcetateA
Butyl Alcohol (100%)A
Butyl PhenolC
Butylene GlycolA
Butylene LiquidC
ButyleneC
Butyric AcidA
Calcium CarbonateA
Calcium ChlorideA
Calcium HydroxideA
Calcium HypochloriteA
Calcium Nitrate (50%)A
Calcium SulfateA

Cai Doil Disutilue	
Carbon Disulfide	
Carbon Monoxide	A
Carbon Tetrachloride	
Carbonic Acid (Aq. CO2)	
Caustic (Aqueous)	А
Caustic Potash Sol. (50%)	A
Caustic Soda Sol. (10%)	
Chloroacetic Acid	
Chlorobezene	
Chloroform	
Chloromethane	С
Chlorsulfonic Acid (100%)	
Chrome Alum Sat'd	
Chromic Acid (50%)	
Clycolic Acid (All Conc.)	
Copper Cyanide	
Cresylic Acid	
Crotonic Aldehyde	
Cuprous Chloride Sat'd	
Cyclohenanone	
Cyclohexane	
Cyclohexanol	
Dextrin Sat'd	
Dextrose Sat'd	
Di Isobutyl Ketone	
Dibutyl Ether	
Dibutyl Sebacate	
Dibutylphthalate	
Dichloroacetic Acid	
Dichlorobenzene, Liquid	
Dichloroethylene	
Diesel Fuel	
Diesel Oil	
Diethanolamine	
Diethyl Carbonate	
Diethylene Glycol	
Digycolic Acid (30%)	
Dimethyl Formamide	
Dimethylamine	
Dinonyl Phthalate	C

Carbon BisulfideC



Dioctyl Phthalate	C	Magnesium Hydroxide	A	Potassium Hydroxide	A
Dioxane	A	Magnesium Nitrate	A	Potassium Nitrate Sat'd	
Diphenyl Oxide	C	Magnesium Oxide	A	Potassium Perborate Sat'd	A
Disodium Phosphate	A	Magnesium Salts	A	Potassium Perchlorate	
Electrolyte	A	Magnesium Sulfate		Potassium Phosphates	A
Ethanol	A	Maleic Acid	A	Potassium Sulfate	A
Ether	C	Methanol	A	Propanol	
Ethyl Acetate (100%)	В	Methyl Acetate	A	Propargyl Alcohol (7%)	А
Ethyl Alcohol	A	Methyl Alcohol (100%)	A	Propionic Acid (50%)	
Ethyl Butyrate	В	Methyl Amine (32%)		Propyl Alcohol	A
Ethyl Chloride		Methyl Bromide		Propylene Dichlrode (100%)	
Ethyl Ether	C	Methyl Chloride	C	Propylene Glycol	А
Ethylene Chloride	C	Methyl Ethyl Ketone	В	Propylene Oxide	А
Ethylene Chlorohydrin	A	Methyl Isobutyl Ketone	В	Pyridine	В
Ethylene Diamine	A	Methyl Isopropyl Ketone	В	Selenic Acid	
Ethylene Dichloride	C	Methyl Sulfate	A	Sewage	
Ethylene Glycol		Methyl Sulfuric Acid (All Conc.)		Silicic Acid	А
Ethylene Oxide		Methylene Chloride	C	Silver Nitrate	
Fatty Acids		Mineral Oils		Soda Ash	
Ferric Sulfate	A	Monochloroacetic Acid Ethyl Ester		Sodium Acetate Sat'd	А
Ferrous Salts	A	Monochloroacetic Acid Methyl Ester	A	Sodium Benzoate	
Ferrous Sulfate		Mowilith D	A	Sodium Bisulfate (10%)	
Fluoboric Acid		Naptha	В	Sodium Bisulfite	
Fluosilicic Acid (All Conc.)		Napthalene		Sodium Bromate	
Formaldehyde (40%)		Nicotine Dilute		Sodium Chloride	
Formamide		Nicotinic Acid		Sodium Chlorite	
Formic Acid (All Conc.)		Nitric Acid (50%)		Sodium Chromate	
Fuel Oil		Nitrobenzene		Sodium Disulfite	
Furfural (100%)		Nitrotoluene		Sodium Dithionite (10%)	
Furfuryl Alcohol		Octyl Cresol		Sodium Fluoride Sat'd	
Gallic Acid Sat'd		Oleic Acid (All Conc.)		Sodium Hydroxide Conc	
Gasoline		Oleum Conc		Sodium Hypochlorite	
Gluconic Acid (All Conc.)		Oxalic Acid (All Conc.)		Sodium Nitrate	
Glycerine		Palmitic Acid		Sodium Oxalate	
Glycol		Paraffin Emulsions		Sodium Persulfate	
Heptane		Perchloric Acid (50%)		Sodium Phosphate	
Hexane		Perchloroethylene		Sodium Sulfonates	
Hydrazone Hydrate		Petroleum Ether		Stearic Acid (All Conc.)	
Hydrobromic Acid (50%)		Petroleum		Succinic Acid (COM)	
Hydrochloric Acid (All Conc.)		Phenylhydrazine		Sulfuric Acid (98%)	
Hydrocyanic Acid Sat'd		Phosphoric Acid (All Conc.)		Sulfuric Acid, Fuming	
Hydrofluoric Acid (All Conc.)		Phosphorous (Yellow 100%)		Sulfurous Acid	
Hydrofluorisilicic Acid (All Conc.)		Phosphorous Chlorides		Sulfuryl Chloride	
Hydrogen Bromide (10%)		Phosphorous Pentoxide		Tartaric Acid Sat'd	
Hydrogen Peroxide (90%)		Photographic Solutions		Tetrachlorethylene	
Hydrogen Phosphide (100%)		Phthalic Acid (All Conc.)		Tetrachloroethane	
Hydrogen Sulfide		Phthalic Anhydride	А	Tetrahydrofurane	
Hydroiodic Acid (All Conc.)		Pickling Baths	Λ.	Tetrahydronaphthalene	
Hydroquinone		Sulfuric Acid Undersold a sid		Thionyl Chloride Titanium Salts	
Hydrosulfite (10%)		Hydrochloric Acid Picric Acid (194)			
Hydroxylamine Sulfate	A	Picric Acid (1%)		Toluene Sulfonic Acid (All Conc.)	
Hydrozine (35%)		Plating Solutions		Toluene Transformer Oil	
Hydrozine Hydrochloride		Potassium Aluminum Sulfates (50%) Potassium Bichromate		Tributylphosphate	
Hypochlorous AcidIso Octane		Potassium Borate (10%)		Trichloroacetic Acid	
				Trichloroethane	
Isopropyl Acetate		Potassium Bromide Potassium Chlorate		Trichloroethylene	
Isopropyl Alcohol		Potassium Chloride			
Isopropyl Ether Jet Fuel		Potassium Chromate		Tricresyl Phosphate Triethanolamine	
Kerosene				Trioctyl Phosphate	
Lactic Acid (All Conc.)		Potassium Cyanide Potassium Dichromate (40%)		Trisodium Phosphate Sat'd	
Lead Acetate Sat'd		Potassium Ferri Ferro Cyanide Sat'd		Turpentine Oil	
Magnesium Carbonate		Potassium Fluoride		Xylene	
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Ultra-Containment Wall® MATERIAL SPECIFICATIONS (LINER)

Material Specifications		
Properties	ASTM Test	Typical Roll Avg.
Appearance		Black & Black/Gray
Thickness, nominal	D 5994	30 mil
Weight		150 lbs/MSF
Asperity Height	D 7466	10 mil
Tensile Strength	D 6693	69 lb/in
Elongation at Film Break ¹	D 6693	350%
Tear Resistance ¹	D 1004	17 lbf
Puncture Resistance	D 4833	36 lbf
Impact Resistance	D 1709	<2520 grams
Volatile Loss	D 1203	<1%
Dimensional Stability	D 1204	<2%
Carbon Black (black layers only)	D 1603	>2.0%
Maximum Static Use Temperature		180°F
Minimum Static Use Temperature		-70°F

The Ultra-Containment Wall liner is a co-extruded textured linear low density polyethylene (LLDPE) geomembrane containing carbon black and ultraviolet inhibitors to ensure protection against harmful UV degradation.

The test values listed in this data sheet are representative of initial production runs. These values may be revised at anytime without notice as additional test data becomes available.

Updated: 10.11.18

¹ Tests are an average of primary reinforcement directions.

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Ultra-Containment Wall Subgrade Standards

A base shall be prepared on the bottom and slopes of the area to be lined. This base shall be free of all sharp objects, roots, grass and vegetation. Rocks or stones greater than 1/2" should be removed. Unsuitable material found during the pre-installation inspection by the installer shall be removed prior to the installation of the liner.

The base (subgrade) material shall be native materials or materials obtained from a borrow source compacted to a minimum 95% compaction or an approved construction fabric of at least 100 mils thickness, weighing 8 oz. per square yard with a grab tensile strength of at least 275 lbs. per square inch and a Mullen burst strength of at least 450 pounds per square inch, which will provide a finished sub grade suitable for the flexible membrane lining.

Foreign materials, vegetation, protrusions, voids, cracks and other penetrating or raised sources shall be removed from the sloping areas as well as the base. Loose rocks, rubble and other foreign matter shall be collected and deposited in the appropriate site out of the area to be lined. The excavated and filled areas shall be trimmed to elevations and contours shown on the drawings and shall be smooth, uniform and free of all foreign matter, vegetation and sudden changes in grade.

A pre-installation inspection shall be called for and ALL interested parties, including governmental agencies, shall be present for this inspection. Any parties not participating in this inspection shall be construed as accepting the site preparation and will acknowledge this defacto acceptance in writing at the appropriate time.

FINAL SUBGRADE PREPARATION:

The subgrade shall be prepared immediately prior to the placing of the liner. The surface on which the liner is to be placed is to be **firm**, **clean**, **dry and smooth**. Anchor trench excavation and any structure seal preparation should be completed before the lining installation begins.

Minimum NRCS Pond Sealing standard subgrade requirement per 521 A Cushion.

A cushion layer shall be placed beneath the liner if the subgrade particles contain sharp angular stones that could damage the liner or particles greater than 3/8-inch for geo-membrane liners and ½-inch for GCL's. The cushion may be a 10-oz/sq yd or heavier non-woven geotextile or a layer at least 6 inches thick of soil meeting the particle size and shape requirements of the subgrade. Geotextile cushion material shall meet the requirements of GRI Test Method GT12(a). Follow the manufacturer's recommendations for any additional protective measures.