ULTRATECH INTERNATIONAL, INC.

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.

Acetaldehyde (40%) ..... A	Aqua Regia C	Carbon Bisulfide C
Acetamide ..... A	Aqueous Alkalies (NaOH) ..... A	Carbon Disulfide C
Acetic Acid (50%) ..... A	Arsenic Acid ..... A	Carbon Monoxide ..... A
Acetic Acid Anhydride ..... B	Barium Carbonate ..... A	Carbon Tetrachloride C
Acetic Ether ..... B	Barium Chloride ..... A	Carbonic Acid (Aq. C02) ..... A
Acetone ..... A	Barium Cyanide ..... A	Caustic (Aqueous) ..... A
Acetylene Tetrabromide ..... B	Barium Hydroxide ..... A	Caustic Potash Sol. (50%) ..... A
Acrylic Emulsions ..... B	Barium Nitrate ..... A	Caustic Soda Sol. (10%) ..... A
Acrylonitrile ..... A	Barium Salts ..... A	Chloroacetic Acid ..... A
Adipic Acid ..... A	Barium Sulfate ..... A	Chlorobezene ..... A
Aliphatic Hydrocarbons ..... A	Barium Sulfide ..... A	Chloroform C
Alkaline ..... A	Battery Fluid, Acid ..... B	Chloromethane C
Allyl Alcohol (96%) ..... A	Benzaldehyde ..... A	Chlorsulfonic Acid (100%) C
Aluminum Chloride (20%) ..... A	Benzene Sulfonic Acid ..... B	Chrome Alum Sat'd ..... A
Aluminum Fluoride ..... A	Benzene ..... B	Chromic Acid (50%) ..... B
Aluminum Hydrogen Solution (10%) ..... A	Benzoic Acid ..... A	Clycolic Acid (All Conc.) ..... A
Aluminum Hydroxide ..... A	Benzyl Alcohol ..... A	Copper Cyanide ..... A
Alums (All Types) ..... A	Benzyl Chloroformate ..... A	Cresylic Acid ..... A
Ammonia (Aqueous) ..... A	Boric Acid Conc. ..... A	Crotonic Aldehyde ..... A
Ammonium Acetate ..... A	Boric Acid Dilute ..... A	Cuprous Chloride Sat'd ..... A
Ammonium Bifluoride ..... A	Borzx Cold Sat'd ..... A	Cyclohenanone ..... B
Ammonium Carbonate (50%) ..... A	Bromine, Liquid C	Cyclohexane ..... A
Ammonium Chloride ..... A	Bromine, Water C	Cyclohexanol ..... A
Ammonium Hydrogen Fluoride (50%) ..... A	Bromobenzene C	Dextrin Sat'd ..... A
Ammonium Hydroxide ..... A	Bromoform C	Dextrose Sat'd ..... A
Ammonium Metaphsophate Sat'd ..... A	Butadiene ..... A	Di Isobutyl Ketone ..... B
Ammonium Nitrate Sat'd ..... A	Butanediol (100%) ..... A	Dibutyl Ether C
Ammonium Persulfate Sat'd ..... A	Butanol ..... A	Dibutyl Sebacate ..... B
Ammonium Phosphate ..... A	Butyl Acetate ..... A	Dibutylphthalate ..... B
Ammonium Salts ..... A	Butyl Alcohol (100%) ..... A	Dichloroacetic Acid ..... B
Ammonium Sulfate Sat'd ..... A	Butyl Phenol C	Dichlorobenzene, Liquid C
Ammonium Sulfide, Sat'd ..... A	Butylene Glycol ..... A	Dichloroethylene C
Ammonium Thiocyanate Sat'd ..... A	Butylene Liquid C	Diesel Fuel ..... B
Amyl Acetate ..... A	Butylene C	Diesel Oil ..... B
Amyl Alcohol (100%) ..... A	Butyric Acid ..... A	Diethanolamine ..... B
Amyl Chloride C	Calcium Carbonate ..... A	Diethyl Carbonate ..... A
Aniline (100%) ..... B	Calcium Chloride ..... A	Diethylene Glycol ..... A
Aniline Hydrochloride ..... B	Calcium Hydroxide ..... A	Digycolic Acid (30%) ..... A
Anti Freeze ..... A	Calcium Hypochlorite ..... A	Dimethyl Formamide ..... B
Antimony Salts ..... A	Calcium Nitrate (50%) ..... A	Dimethylamine ..... B
Antimony Trichloride (90%) ..... A	Calcium Sulfate ..... A	Dinonyl Phthalate C

Continued on next page

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

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Ultra-Spill Deck P1

Product Data Sheet

Part#	1321
Dimensions In. (mm)	25 7/8 x 25 7/8 x 5¾ (657 x 657 x 146)
Load Capacity UDL lb.(kg)	1,500 (681)
Sump Capacity gal (L)	11 (42)
Weight lb. (kg)	23.0 (10.0)
Forklift Access	No
# per Pallet	20
Composition	Linear Low Density Polyethylene (LLDPE)
Color	Yellow
Compliance	Spill Prevention, Control and Countermeasure Act (SPCC). 40 CFR 264.175 (When connected to other Spill Decks using bulkhead fittings)

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Ultra-Spill Deck P2

Product Data Sheet

Part#	1086
Dimensions In. (mm)	52 x 25 7/8 x 5¾ (1,321 x 657 x 146)
Load Capacity UDL lb.(kg)	3,000 (1,361)
Sump Capacity gal (L)	22 (83)
Weight lb. (kg)	40.0 (18.0)
Forklift Access	No
# per Pallet	20
Composition	Linear Low Density Polyethylene (LLDPE)
Color	Yellow
Compliance	Spill Prevention, Control and Countermeasure Act (SPCC). 40 CFR 264.175 (When connected to other Spill Decks using bulkhead fittings)

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Ultra-Spill Deck P4

Product Data Sheet

Part#	1072
Dimensions In. (mm)	52 x 52 x 5¾ (1,321 x 1,321 x 146)
Load Capacity UDL lb.(kg)	6,000 (2,722)
Sump Capacity gal (L)	44 (167)
Weight lb. (kg)	70.0 (32.0)
Forklift Access	No
# per Pallet	10
Composition	Linear Low Density Polyethylene (LLDPE)
Color	Yellow
Compliance	Spill Prevention, Control and Countermeasure Act (SPCC). 40 CFR 264.175 (When connected to other Spill Decks using bulkhead fittings)

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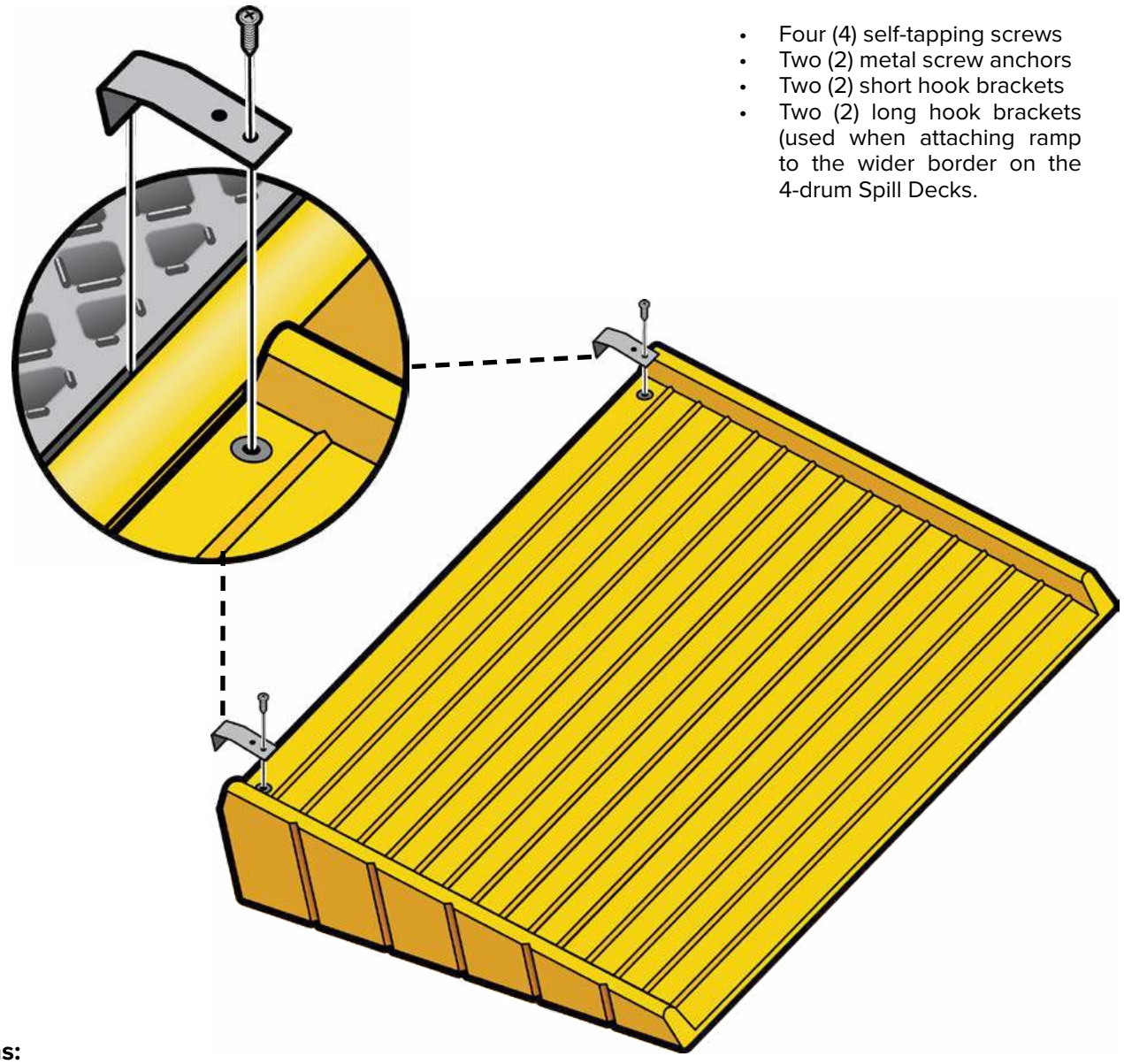
Ultra-Spill Deck Ramp (Part# 1089)

Assembly Instructions

Hardware List

- Four (4) self-tapping screws
- Two (2) metal screw anchors
- Two (2) short hook brackets
- Two (2) long hook brackets (used when attaching ramp to the wider border on the 4-drum Spill Decks.



Instructions:

1. Select the proper hook bracket from the enclosed hardware packet. The bracket selection is determined by the location that the ramp will be placed.
2. Align the first hole behind the bend in the hook bracket with the metal screw anchor and fasten with self-tapping screw. Do not overtighten.
3. Insert a self-tapping screw in the remaining hole in the hook bracket. Do not overtighten.
4. Repeat steps 1 through 3 for the remaining side.

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Ultra-Spill Deck Ramp

Product Data Sheet

Part#	1089
Dimensions In. (mm)	24 x 32 x 5¾ (610 x 813 x 146)
Load Capacity UDL lb.(kg)	600 (272)
Weight lb. (kg)	17.0 (8.0)
# per Pallet	25
Composition	Linear Low Density Polyethylene (LLDPE)
Color	Yellow
Warranty	5 years

- Connects to Spill Decks with steel mounting hooks (included).

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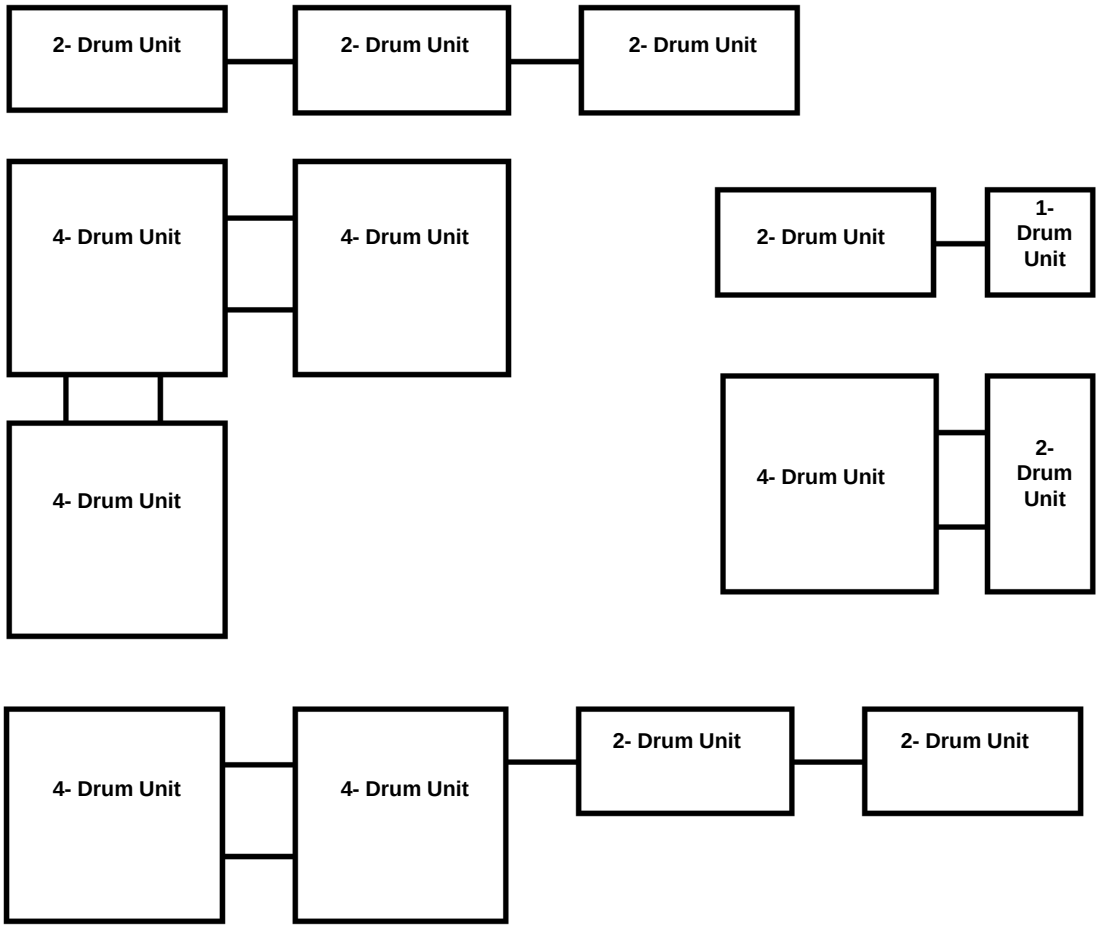
Ultra-SpillDeck

Instructions: Please review drawings below for possible set-ups of the Ultra-SpillDeck System. Then Draw your planned set-up in box below so we may know where to drill for the bulkhead fitting connections.

Note: The bulkhead fittings must be designated upon ordering so that the Ultra-SpillDecks can be predrilled to meet your needs.

Examples: Here are several common set-ups offered as suggestions.
You are not limited to just these particular setups. Feel free to design your set-up to fit your needs.

Please note connecting lines in drawings below. They represent bulkhead connection points and quantity needed.
Each 26" Side or Short Side with connection will require: 1 each T-Strip (P/N 1131) and Bulkhead Fitting (P/N 1073)
Each 52" Side or Long Side with connection will require: 2 each T-Strips (P/N 1131) and Bulkhead Fittings (P/N 1073)



Draw your configuration below:

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Installation Instructions

Ultra-Spill Deck® Connecting Modules

NOTE: One of the many benefits offered by the Ultra-Spill-Deck product line is the ability to connect different modules together with bulkhead fittings in virtually any configuration desired. The bulkhead fittings allow spills to channel from one module to the next, thereby "borrowing" containment capacity. Certain configurations require multiple bulkhead fitting connections while others require only one bulkhead fitting connection.

To simplify the instructions for proper assembly, the example below details connecting two SpillDeck modules with only one bulkhead fitting. For configurations which require multiple bulkhead fitting connections, simply duplicate the following steps for each connection required:

Step 1: Lift and remove the black decking from each Ultra-Spill Deck module. Align the modules so that the holes will match up to each other. Leave about a six inch gap between the modules.

Step 2: Take the bulkhead fitting (1) & remove the hex nut (2), plastic washer (3) and rubber washer (4). Place the threaded bulkhead fitting through the connection hole on one of the modules from the inside.

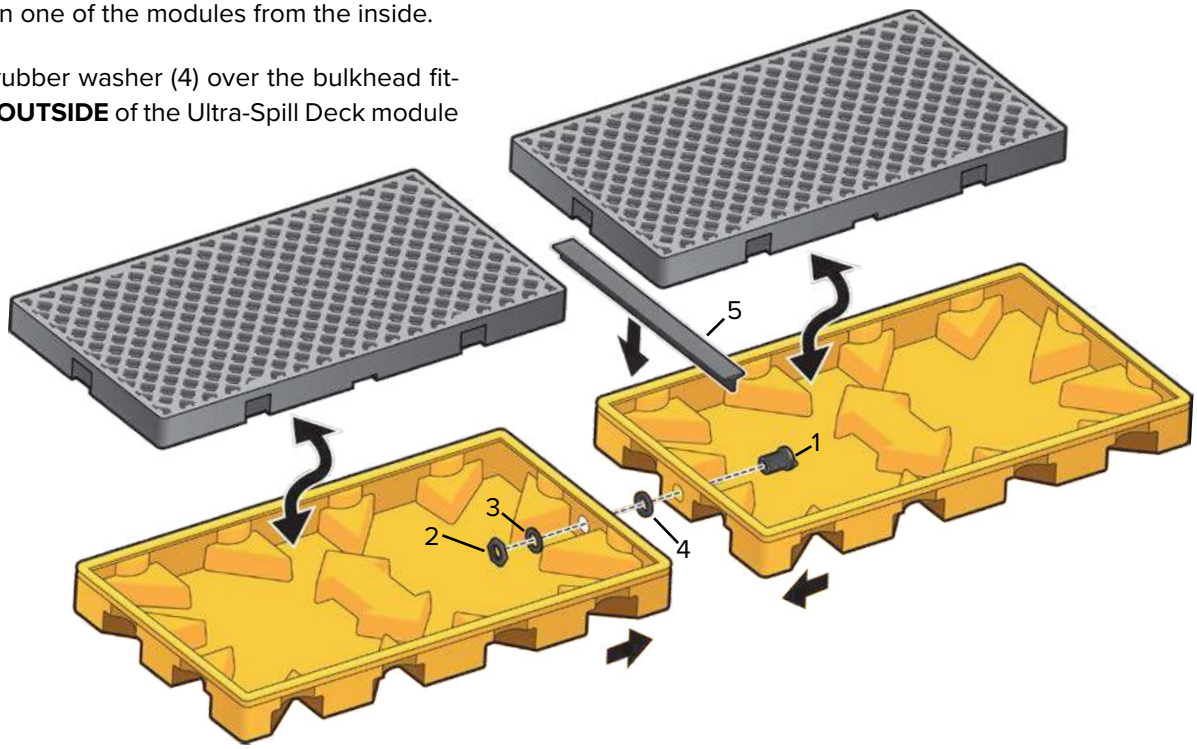
Step 3: Place the rubber washer (4) over the bulkhead fitting on the **OUTSIDE** of the Ultra-Spill Deck module as shown.

Step 4: Carefully pull the two Ultra-Spill Decks together, making sure the rubber washer stays **BETWEEN** the decks and the bulkhead fitting goes through the hole in the other deck.

Step 5: Once the two Ultra-Spill Decks are together and in line, place the plastic washer over the bulkhead fitting. Then thread (hand tighten) the hex nut onto the fitting. Note that the fittings are reverse threaded and the hex nut should be turned counter-clockwise to tighten.

Step 6: Using a pipe wrench tighten the hex nut, making sure that the rubber washer is compressed between the two Ultra-Spill Deck modules.

Step 7: Place the black decking back into each Ultra-Spill Deck. Place the T-Strip (5) into the edge where the two modules meet.



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