



BUILD FASTER. IMPROVE QUALITY.

EZPath[®]
MARINE CABLE TRANSITS



THIRD PARTY APPROVALS



PRAD



Specified Technologies Inc. (STI) was founded over 26 years ago and has quickly become the firestop industry leader through service, technology and innovation. STI has earned a reputation as the firestop authority by providing premium quality, high performance and technologically advanced fire safety products and solutions that save lives and protect property.

Firestop is our only business and our experienced team of experts exclusively develops fire protection products and systems. Our state-of-the-art research and development center includes one of the most advanced fire furnaces in the world and is staffed by engineers and scientists who understand the dynamics of passive fire protection. Our extensive product line preserves and protects the integrity of vessels and platforms and is manufactured under the strictest quality control standards to withstand the forces of nature, the threat of fire, and the test of time.

STI'S GLOBAL REACH

SEVEN REGIONAL OFFICES AROUND THE GLOBE



Warehouse



Marine Offices

STI Marine is a Division of STI

Specified Technologies Inc. was started in 1990 and is dedicated solely to firestopping.

We are present in over 50 cities strategically located across the globe.

STI formed STI Marine Firestop in 2011 and introduced the EZ-Path Marine Fire Rated Pathway.

STI Marine Europe was setup in 2016.

STI has warehouses in New Jersey, Memphis, TN, Reno, NV, Shanghai, Guangzhou, Singapore, Dubai and Rotterdam.



PRAD

STI MARINE FIRESTOP

BUILD FASTER. IMPROVE QUALITY.



STI MARINE EUROPE



- **James P. Stahl**

Vice President & General Manager Marine

20+ years with STI. Extensive background in fire testing and product development. 20+ patents in the field of fire protection. Member, ASTM Committee F25 on Ships and Marine Technology.



- **Ruben Wansink**

Regional Manager Europe

Since April 2016 at STI. Extensive marine related experience, having spent the last ten years in various sales and marketing related roles for a large multinational active within the marine market.



- **Carlo Luisi**

Technical Marine Manager Europe

Worked at a major European shipyard for 10 years, Naval Architect involved in quality, pipe and electrical departments.



STI MARINE GLOBAL



Global Marine Sales team

PRAD



STI MARINE FIRESTOP

BUILD FASTER. IMPROVE QUALITY.

Applications



Cables



Steel pipes



Plastic pipes



Multiple penetrants



GRE/GRP pipes

STI Solutions

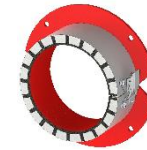
MFS

Marine Firestop Sealant



MFC

Marine Firestop Collar



MFC-W

Marine Watertight Firestop Collar



MDM

Marine Fire Rated Pathway



MPU

Marine Firestop Putty

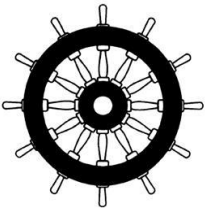


MRF

Marine Rubber Foam

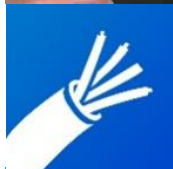


PRAD

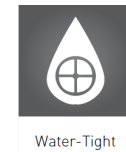
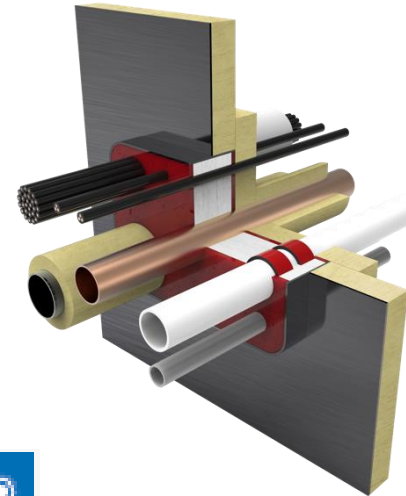


HIGHLIGHT: 2 Distinct Systems

Oil & Gas
compatible



Multi cable transits

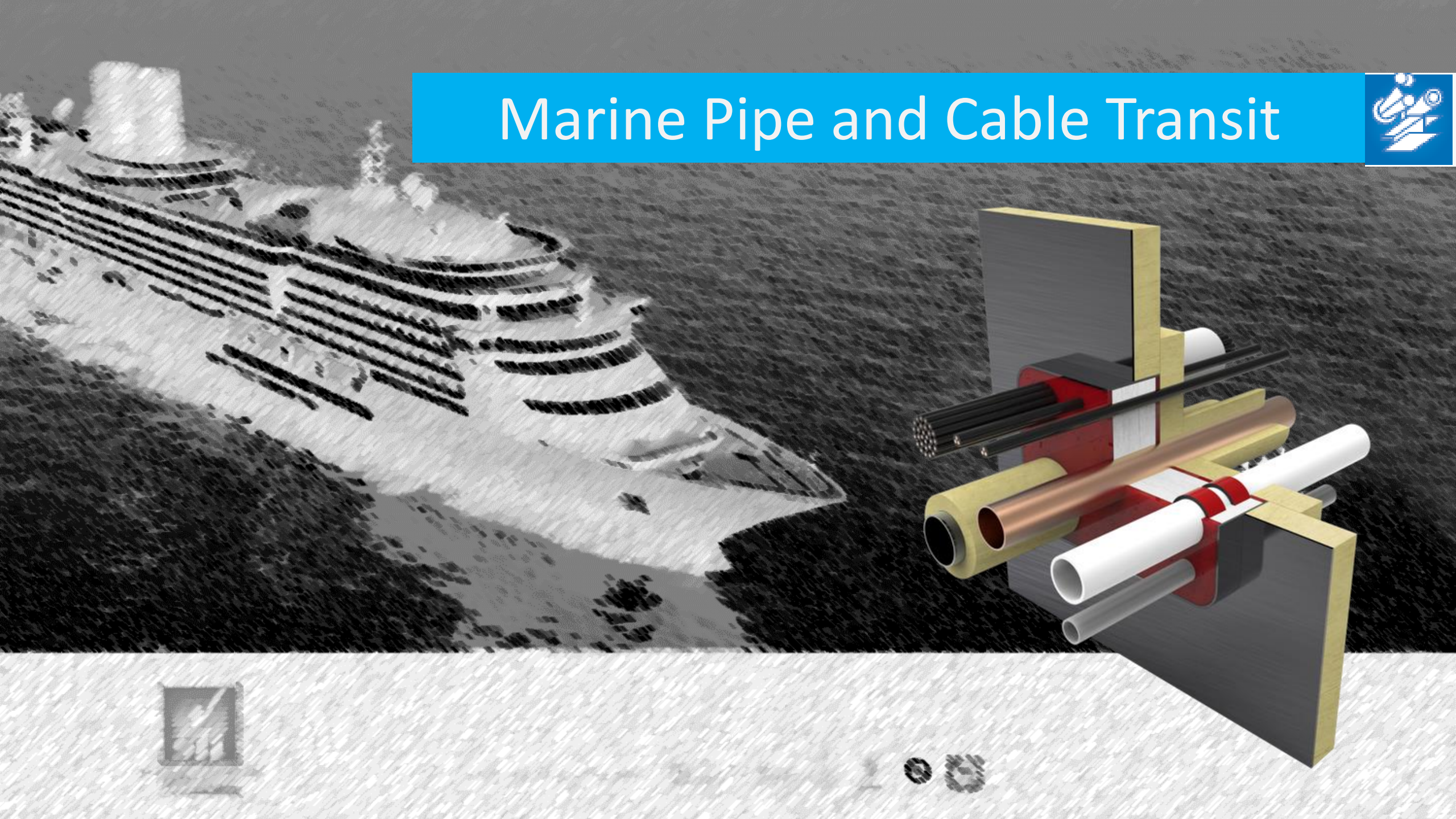


Water-Tight

Marine Pipe and Cable Transit

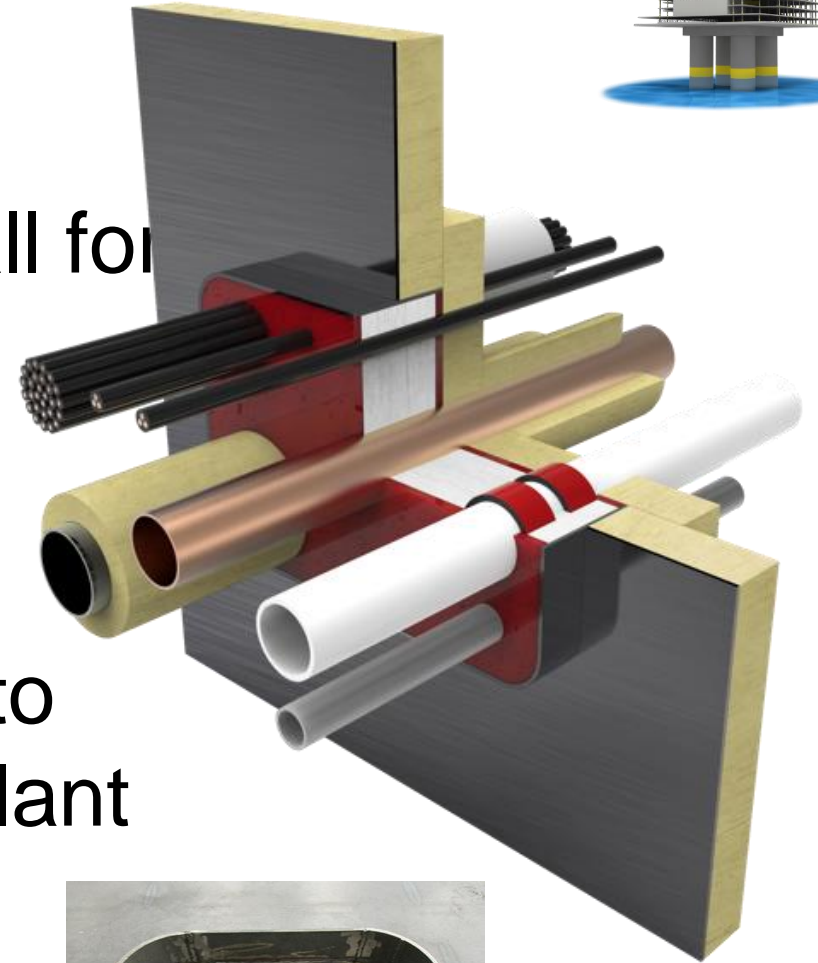
PRAD

Marine Pipe and Cable Transit





- MPACT is the fastest system to install for watertight divisions
- MPACT consists of a fibrous filler packing and watertight sealant
- MPACT is proposed as an alternate to rubber filler sleeves and silicone sealant



Water-Tight



Advantages

- Sleeve length can be reduced by 25%
- Less Sealant than competitive systems (35% reduction)
- Shelf life advantages (18 months. vs. 6 months.)
- Lower VOC Content; More environmentally friendly
- Two-component system:
 - simplify installation and logistics!



MM600/800
Retrofit Sleeve

How **M-PR-ET**™ Works

MARINE PIPE AND CABLE TRANSIT

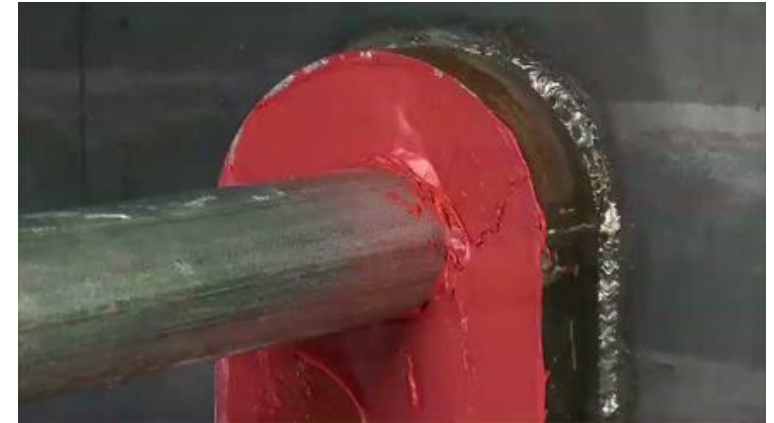
Oil & Gas
compatible



Pack Filler Blanket



Dispense Sealant



Trowel Sealant

Installation Video:

<https://vimeo.com/209765374>

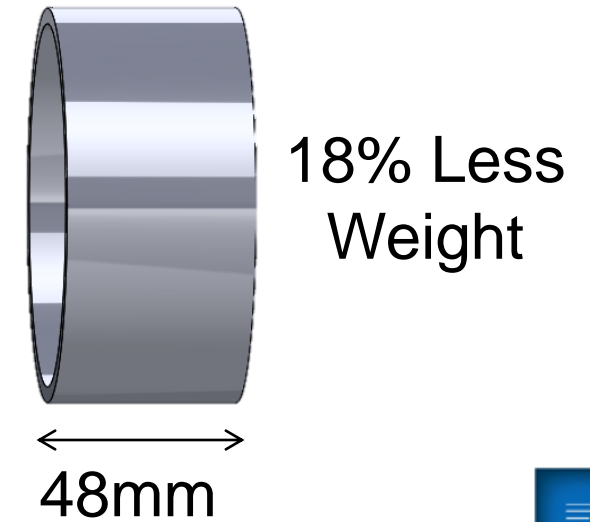
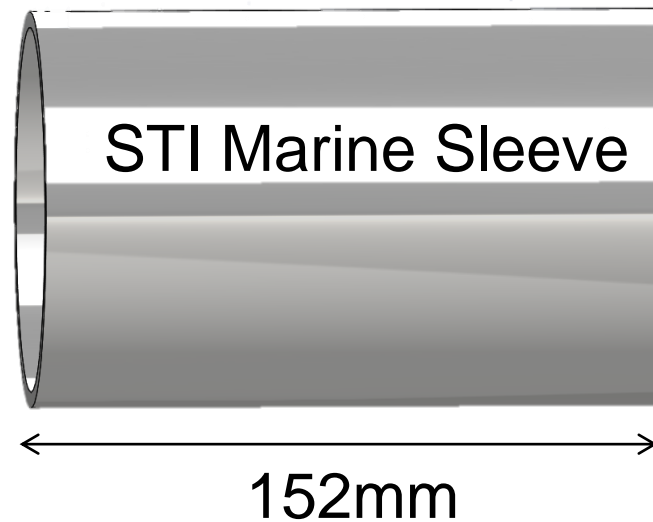
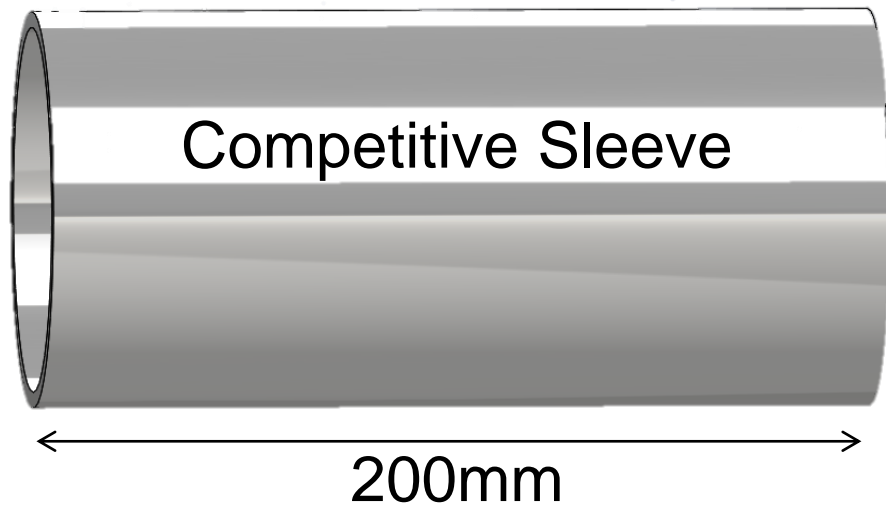


Reduce Sleeve Length

- MPACT requires 152 mm sleeve length
 - Competitive systems require 200 mm length
 - Reduce weight by >18%

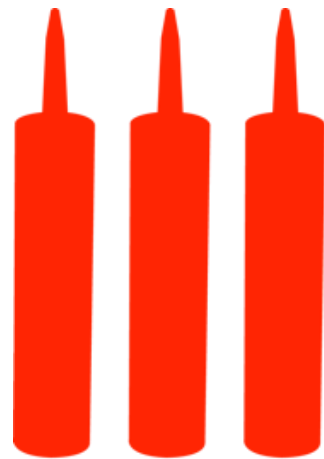


Note: Supplied by yard.



Reduced Sealant Thickness

- MPACT requires 13 mm depth
 - Competitive systems require 20 mm depth
 - Sealant reduced by 35%

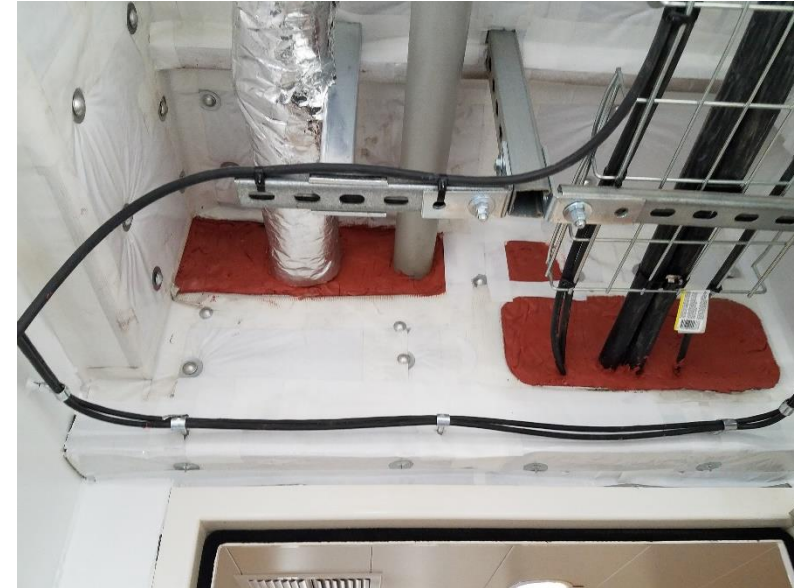


Others

VS



STI Marine



Better Shelf Life



MPACT has **18 month** shelf life

- Competitive silicone products have 6 month shelf life
- Silicone sealants still dispense, but will not cure
 - Impossible to know if the product has gone bad
- MPACT will eliminate these problems!

Low VOC Content



MPACT is more **environmentally friendly**

- MPACT MFS Sealant is VOC is 11 g/L
- Silicone sealants \approx 3x more VOC content
- MPACT MFS Sealant **less odor** than silicone sealants

Fewer Components

- MPACT has fewer components
 - Component #1: MFS Sealant; 281 ML cartridges
 - Component #2: MPACT Filler Blanket; 9.1 m x 127 mm wide x 25 mm thick rolls



OR



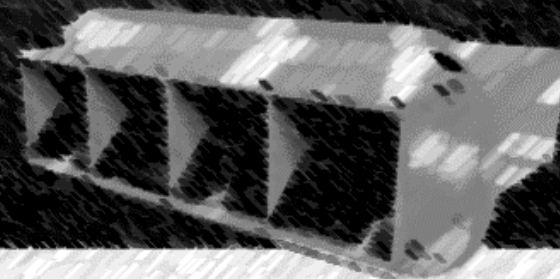
+



Pipe Penetrations



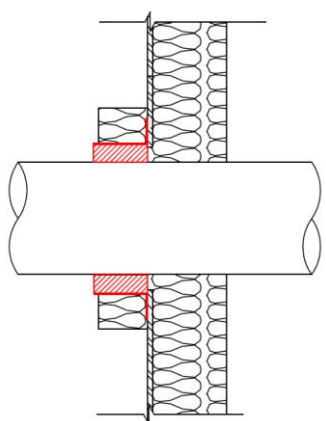
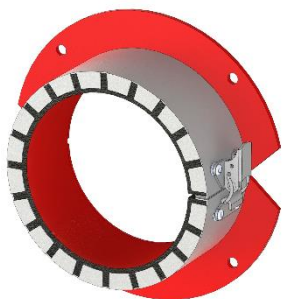
EZ Path
THE EASY WAY TO EASY



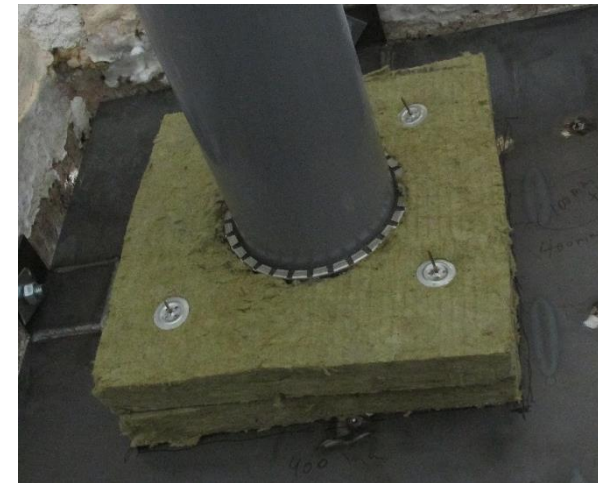
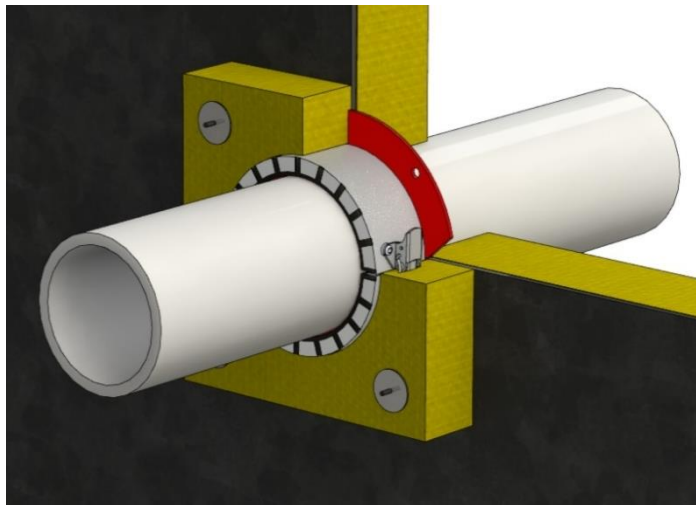
Oil & Gas
compatible



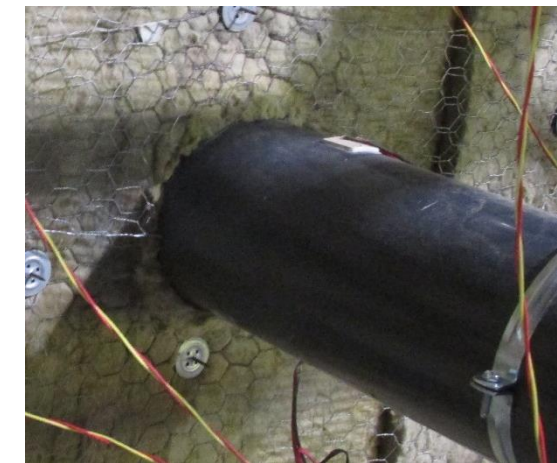
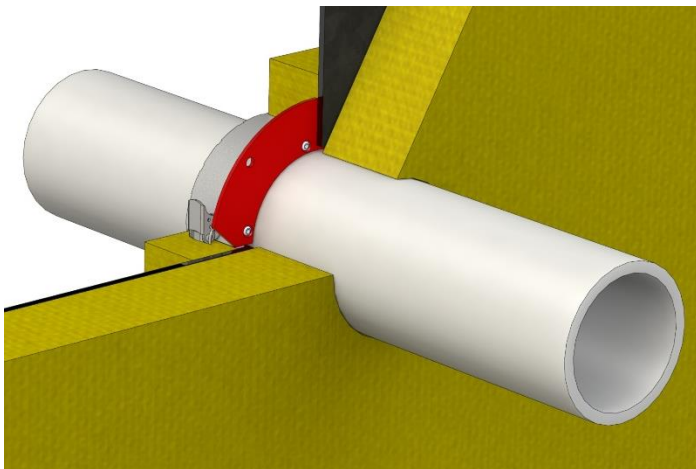
Bulkhead

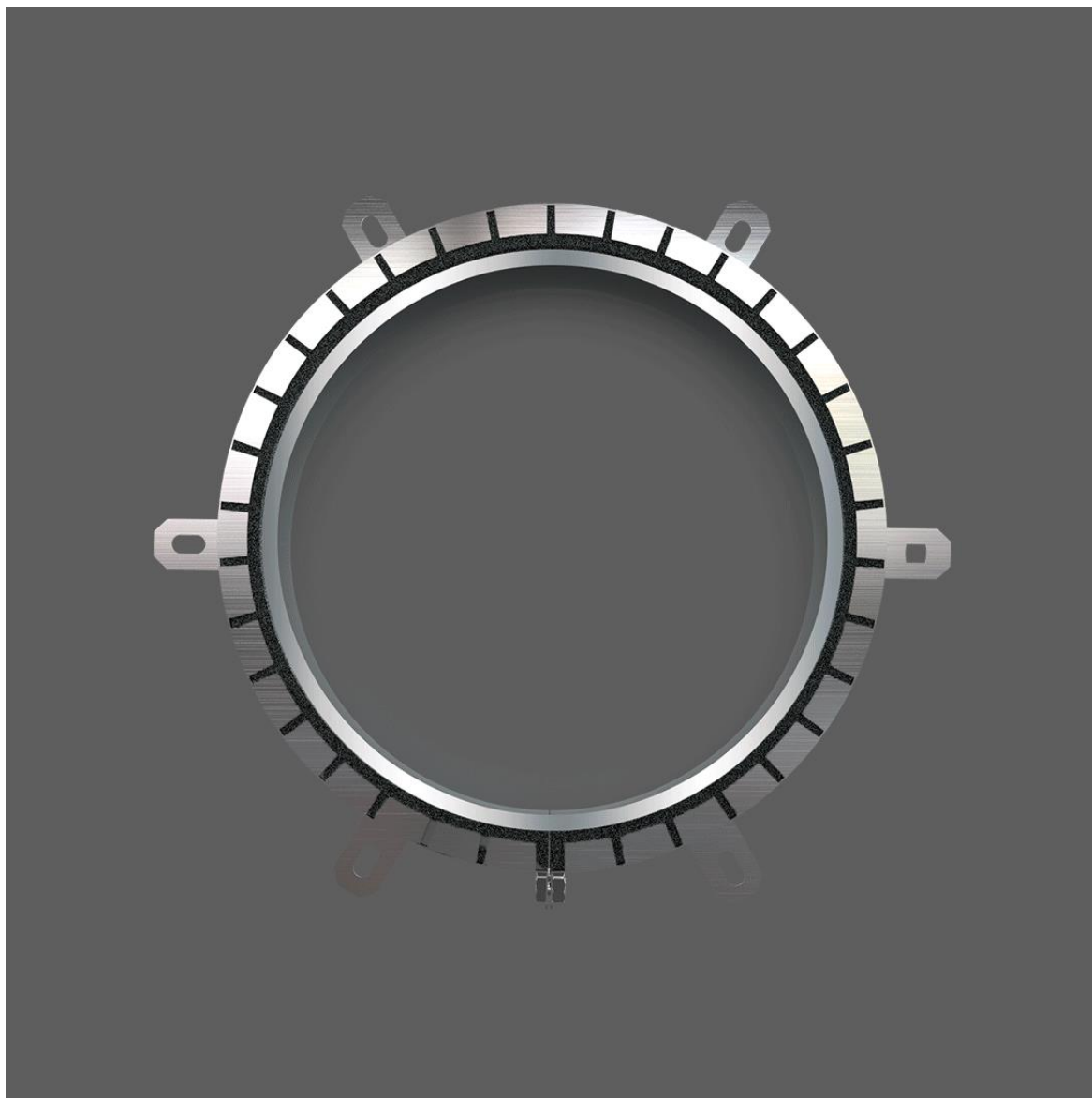


Exposed side



Unexposed side



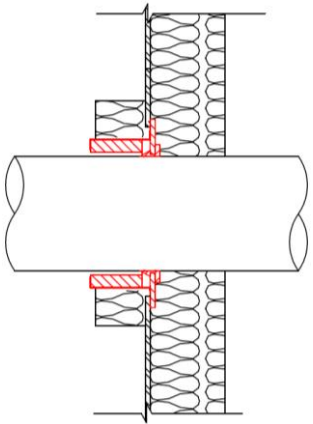
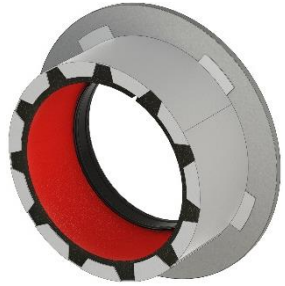


STI MARINE FIRESTOP

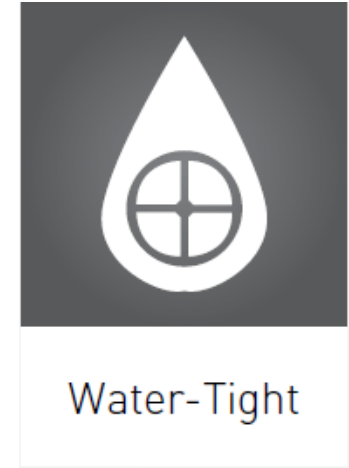
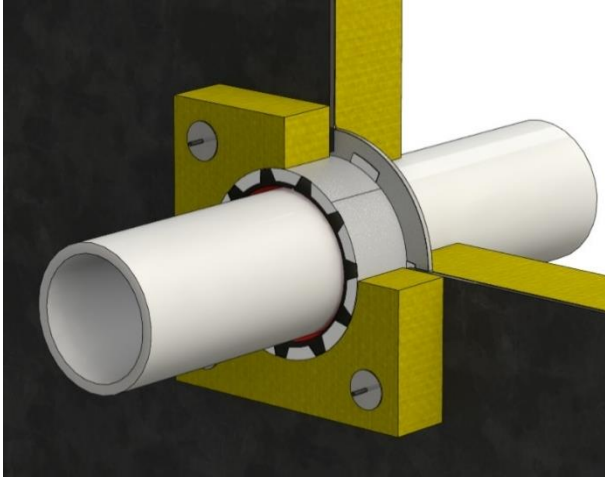
BUILD FASTER. IMPROVE QUALITY.



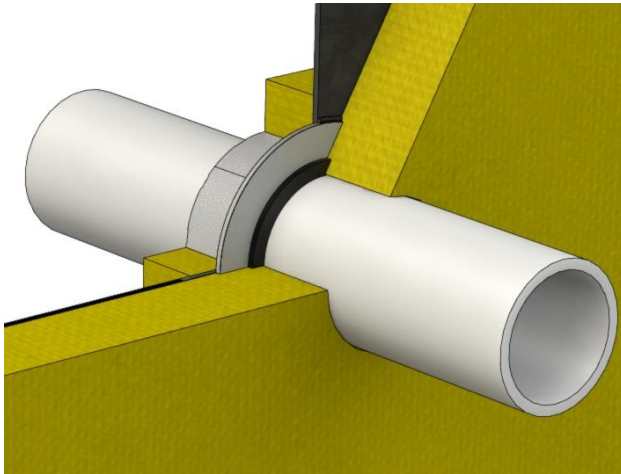
Bulkhead



Exposed side



Unexposed side



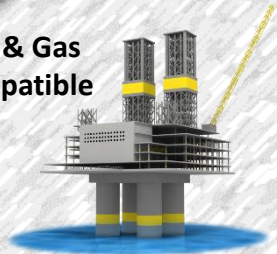
Multi cable transits



EZ Path



Oil & Gas
compatible



Cable Transits - A Brief History

- The Multi Cable Transit device was invented post WWII in the early 1950s
- Original design incorporated steel frames with modular blocks
- Over the course of 60 years, the design has seen refinements, many for the better



Multi Cable Transit (MCT) Failures

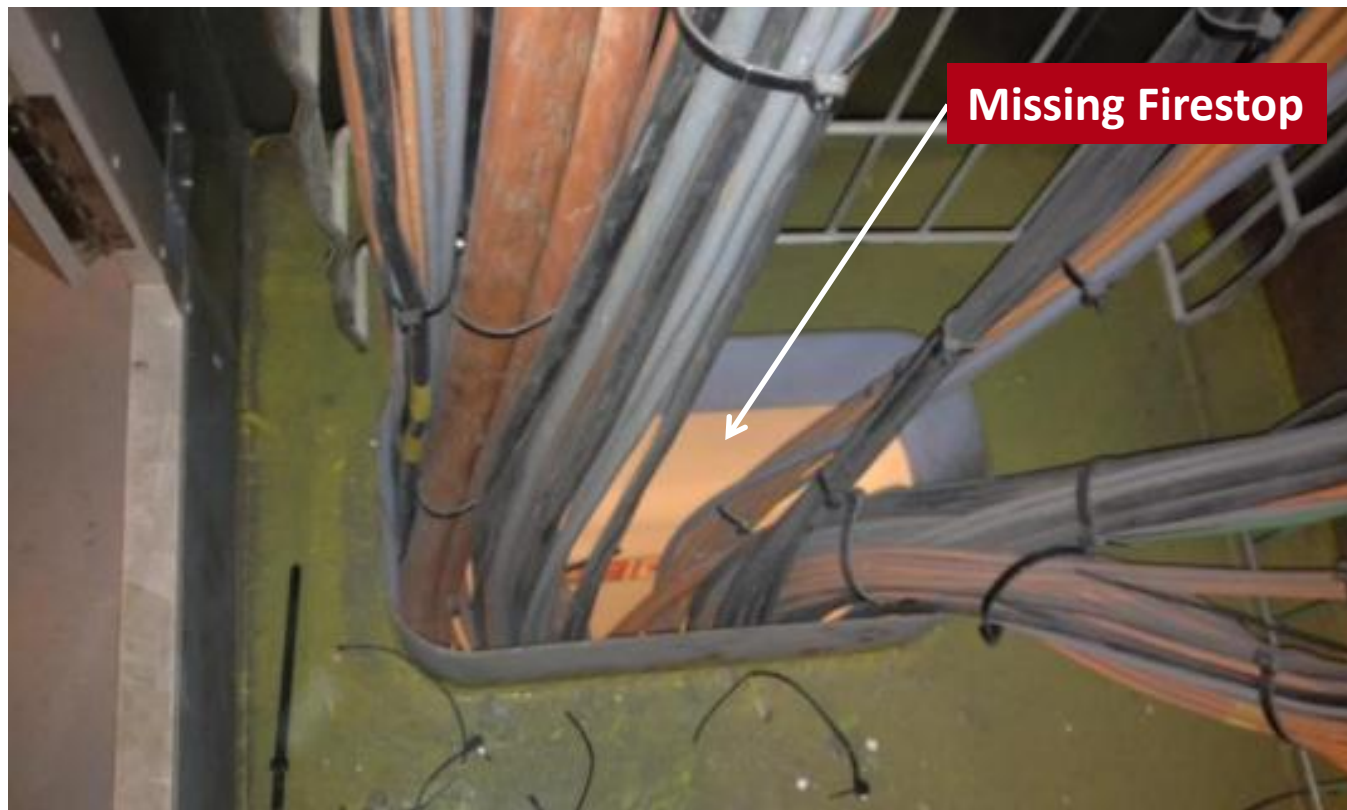
- All cases are from various types of vessels, including passenger ships, oil rigs, and drill ships
- Generally relate to ongoing maintenance over time



MCT Failures: Missing Blocks or misplaced wedges



Sealing Materials Removed Completely

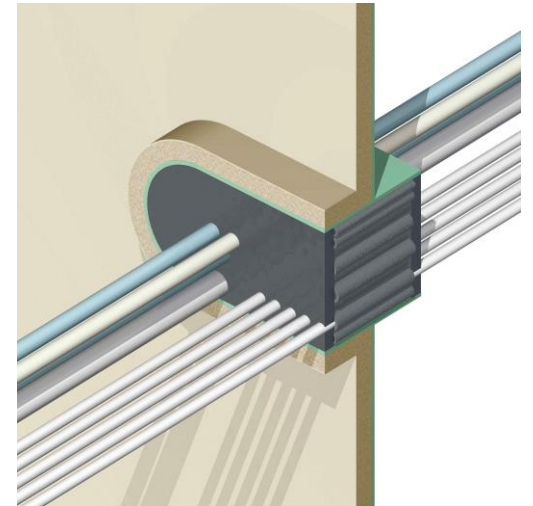
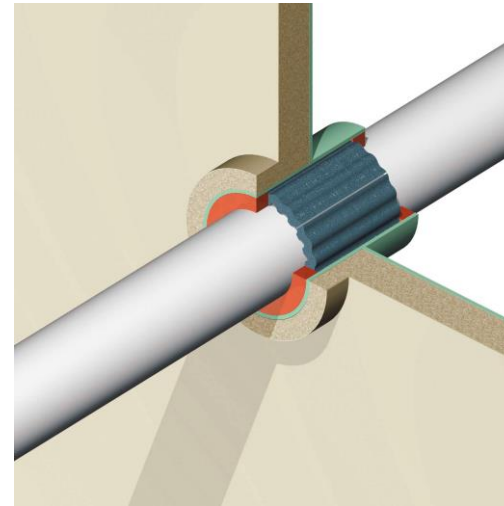


STI MARINE FIRESTOP

THE EVOLUTION OF CABLE TRANSITS

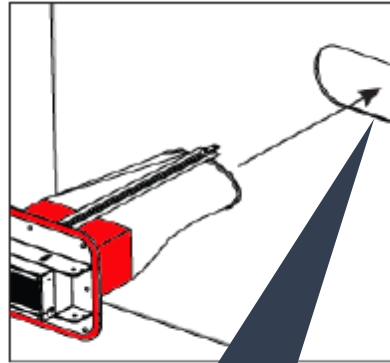
Current Transit Installation Method

1. Cut a Hole in the Division
2. Fabricate and Weld Sleeve
3. Pull Cables
4. Insert Filler Sleeves Around Each Cable
5. Insert Filler Sleeves in Open Spaces
6. Apply Sealant
7. Apply Sealant On Other Side of Division

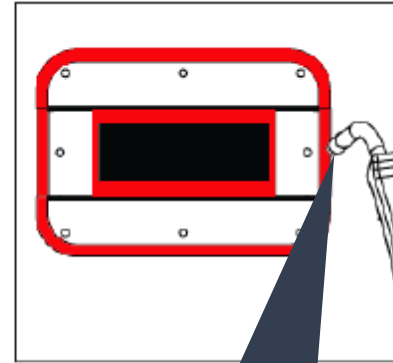


Installing EZ-Path® Is As Easy As 1-2-3!

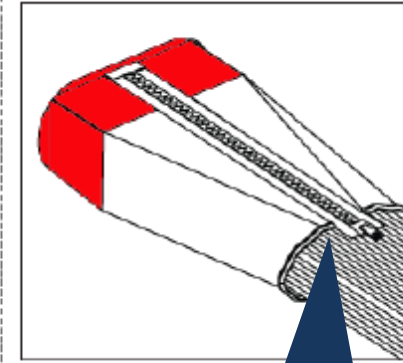
1. Cut a Hole in the Division
2. Spot Weld Device
3. Pull Cables



1. Cut hole



2. Spot Weld
MDM150



3. Pull Cables and
close boot
(if equipped)

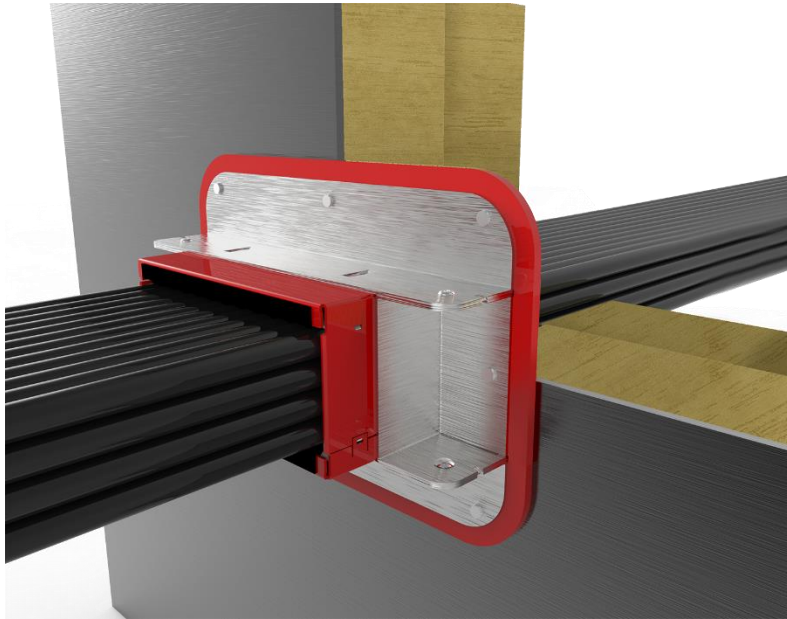
No Surveyor for additional cable pulls required. EZ-Path® always keeps it's fire integrity



Easy and Quick Success

Both Ship-Yards and STI strive to provide the most innovative, cost effective products and solutions on the market. We are both committed to continuous improvement and efficiency in production while promoting life safety and ensuring premium quality.

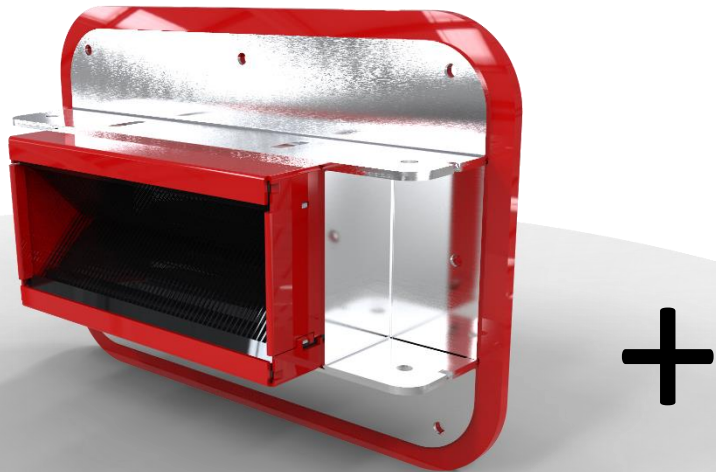
- [VIDEO](#)



EZ-Path in the production workflow

Transits are Installed During Block Construction

Once Blocks are Joined, Just Pull Cable and You are Done!



+

Welding in cable transit frames or sleeves

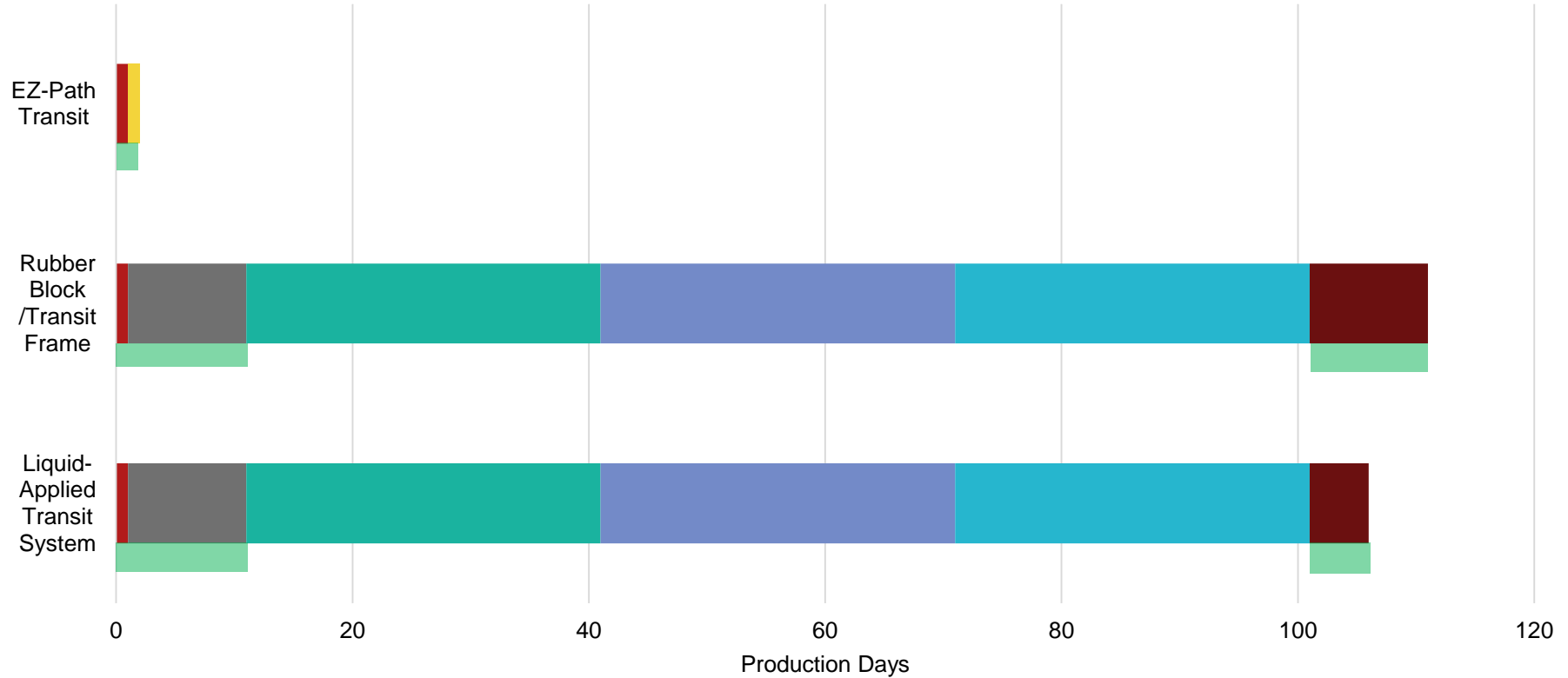
Block is turned 180 degrees



Save Time & Money with EZ-Path®

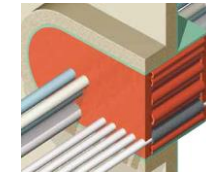
How Complicated is Your Transit Install?

- Project Start
- Cut holes in division
- EZ-Path install
- Sleeve or Frame install
- Pull Cable Scheduling
- Pull Cables
- Finishing Install Scheduling
- Finish Block/ Liquid Install



Side by Side Time and Labor Comparison of Install Methods

STI EZ-Path vs. Rubber Block & Liquid Applied Transit Systems

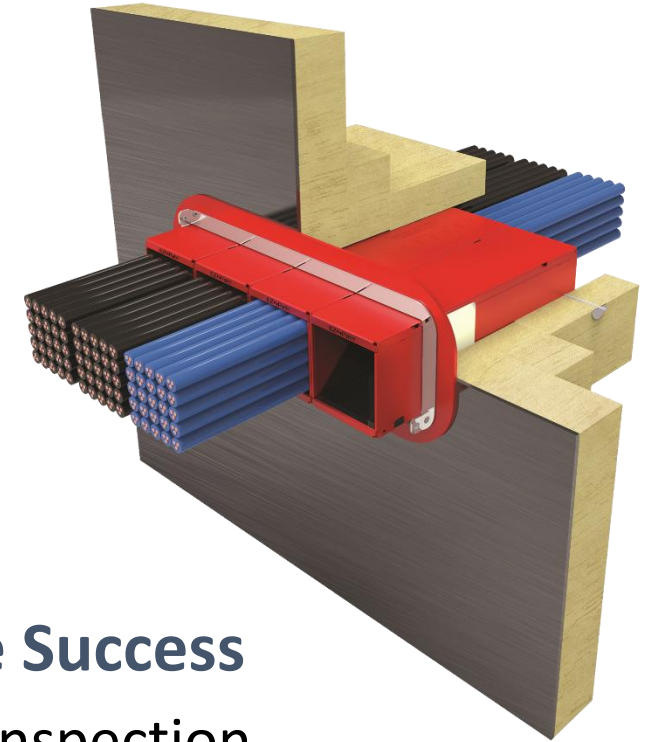


Step	Procedure	MDM150Y	Time Minutes	Rubber Block	Time Minutes	Liquid Applied	Time Minutes
1	Cut a hole in the division	✓	10	✓	10	✓	10
2	Buy/Manufacture Sleeve	NO	0	✓	60	✓	60
3	Bring heavy steel sleeve on board	NO	0	✓	30	✓	30
4	Weld sleeve to division.	NO	0	✓	60	✓	60
5	Carry Light weight EZ-Path on board	✓	15	NO	0	NO	0
6	Weld EZ-Path to division	✓	20	NO	0	NO	0
7	Paint over welds	✓	10	✓	10	✓	10
8	Marking and painting both sides of sleeve	NO	0	✓	30	✓	30
9	Pull cables	✓	Same	✓	Same	✓	Same
10	Close EZ-Path Zipper	✓	1	NO	0	NO	0
11	Adapt blocks opening to correct diameter	NO	0	✓	15	NO	0
12	Lubricate and insert blocks and divider plate	NO	0	✓	60	NO	0
13	Lubricate and insert wedge	NO	0	✓	15	NO	0
14	Tighten wedge with Torque Wrench	NO	0	✓	10	NO	0
15	Insert filler sleeves around each cable	NO	0	NO	0	✓	30
16	Insert filler sleeves in space between cables	NO	0	NO	0	✓	30
17	Apply sealant to one side	NO	0	NO	0	✓	15
18	Move to opposite side and apply sealant	NO	0	NO	0	✓	20
19	Finish insulation	✓	30	✓	30	✓	30
	Total time in minutes		86		330		325
	Total Time in hours		1.4		5.5		5.4
	Saved time by using EZ-Path				4.1		4.0
	Hourly rate for skilled labour		€ 65,00				
	Saved total labour cost				€ 264,33		€ 258,92

*Note: Comparison assumes MDM150Y Marine EZ-Path Fire Rated Pathway

Realize the Benefits

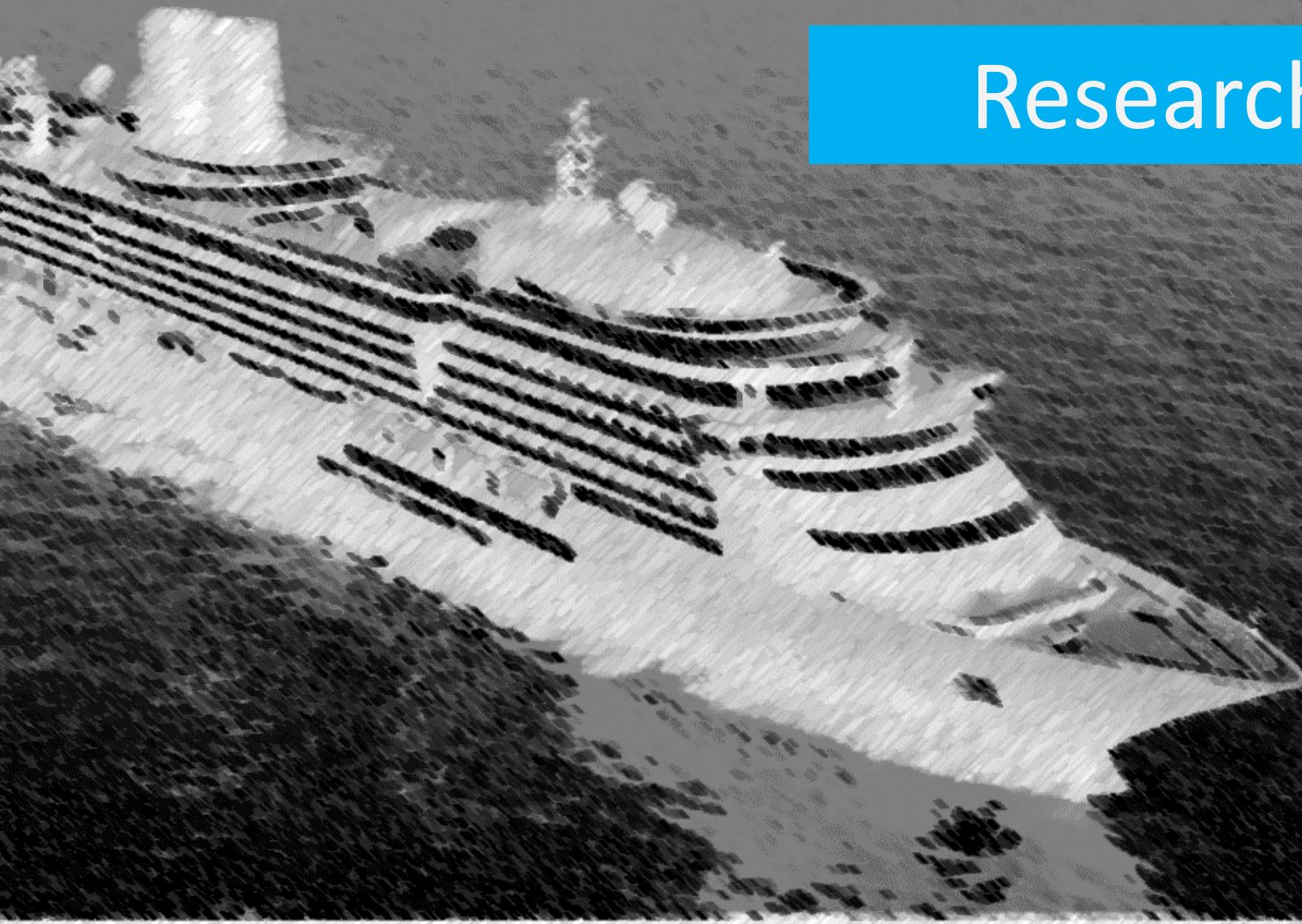
- No Complicated Sealing After Cable Runs
- Drastically Reduced Total Install Time
- No Design or Plan of Individual Cable Placement
- Less Welding
- Less Production Staging Issues
- Additional Capacity Built In
- Maintenance Free
- 100% Compliant, 100% of the Time



Ensure Success

- Easy Inspection
- Long Term Compliance
- Ongoing Owner Satisfaction

Research and Development



EZ▲▼Path
ANALYTICAL SOFTWARE



STI is also very responsive

- Meyer Werft has a problem with busbars and the present solution cracks and is time consuming to install
- They asked STI in mid-2016 to develop a solution
- We did, and had it tested by September 2016
- Installation is planned once the Type Approvals are in from DNV-GL



EXAMPLE 1

STI is also very responsive

- CCL wanted to replace copper exhaust pipes with GRE ones.
- We developed and fire-tested a 700mm GRE pipe within a few months.
- They were impressed with the speed and quality of STI's response



CERTIFICATE OF FIRE APPROVAL

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	STI Marine, a division of Specified Technologies, Inc.
Address	210 Evans Way, Somerville, NJ 08876 United States of America
Type	PIPE PENETRATION (STANDARD FIRE TEST)
Description	Fire Resisting GRE Pipe Penetration Seals - Type: "MPC" - STI Marine Firestop Collars for GRE pipe penetrations in A-60 Bulkheads and Decks
Specified Standard	IMO Res.MSC.307(88) - 2010 Fire Test Procedures Code, Annex 1, Part 3

The attached Design Appraisal Document forms part of this certificate.
This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Date of issue	12 May 2015	Expiry date	11 May 2020
Certificate No.	SAS F15-1 NEW	Signed	DRAFT 2
Sheet No	1 of 5	Name	M. Farrier Surveyor to Lloyd's Register EMEA A Member of the Lloyd's Register Group

Note:

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register of any modification or changes to the equipment in order to obtain a valid Certificate.

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or for any error or omission, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

EXAMPLE 2

Other Applications



EZ▲▼Path



Oil & Gas
compatible



Oil & Gas
compatible



Non-hardening Firestop Putty (MPU)

- STI Marine Firestop Putty
 - Non-hardening, moldable compound
 - Ideally suited for small to medium size openings in fire-rated divisions
 - 100% solids, butyl rubber formulation won't shrink or dry out
 - Allows for vibration



Oil & Gas
compatible



MPU52: Coils of Putty in a Convenient Pail!

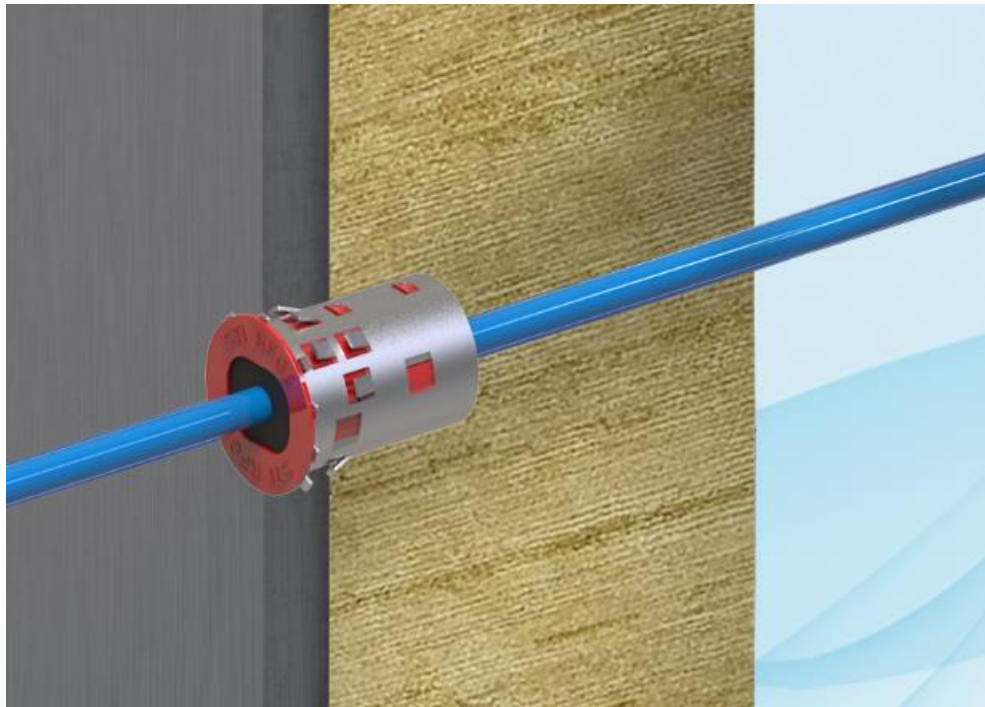


> Snap-Seal Cable Plugs

This two-piece device snaps together for easy installation and is ideally suited for single cable penetrations through joiner panels and other types of divisions.

MSS was specifically designed for use with surveillance cameras and provides a split design that can be used with new or previously installed cables.

Oil & Gas
compatible



Features & Benefits:

- Provides rapid intumescent expansion
- Snaps onto cables, plastic and metallic tubing



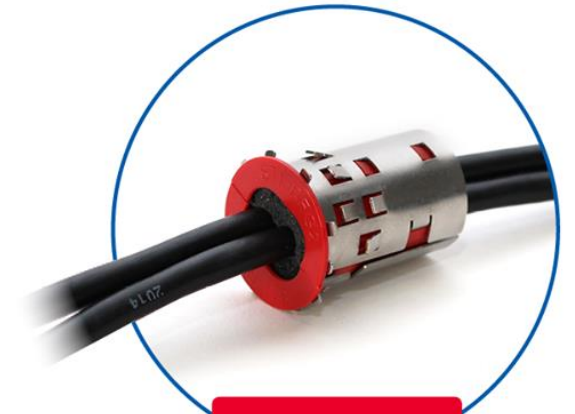
Applications:

- Ideal for one or more cables or plastic and metallic tubing with a total O.D. 14mm
- Use on data, alarm, security, CCTV or electrical cables



Tested to IMO FTP Code 2010, Part 3
- Class A-0 to A-60
- Class H-0 to H-120 (Bulkheads)

* Consult Factory for Most Current Testing & Approvals



MSS25

Marine Snap Seal



Marine Cable Spray (MCC105)

- Water-based, intumescent cable spray for protecting cables
- Designed to reduce flame travel along grouped cables
- Meets FM, IEC60331, and IEC60332 standards



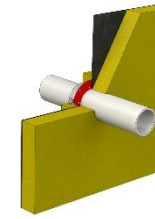
CONCLUSION



EZPath
ELECTRONIC ZONE PATHING



In house fire lab.



Before a fire test

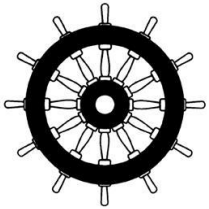


After a fire test

Deck test on Horizontal Furnace



STI CERTIFIED PRODUCTS



Wheel Mark

THIRD PARTY APPROVALS



STI Marine Firestop Products are approved by major classification societies, including American Bureau of Shipping (ABS), US Coast Guard (USCG), Bureau Veritas (BV), and MED B & D certification. Additional approvals by Lloyd's Register (LR) and Det Norske Veritas (DNV) are pending. Other approvals may be applied for on an as-needed basis. Contact STI for additional information on approvals.



Reference List





Big Foot LQ
Chevron
Refit



Ocean Guardian
Diamond Offshore
Refit



French Navy Ships
Newbuild projects

<div>  <div> MARINE FIRESTOP SYSTEMS <small>FOR LIFE SAFETY & PROPERTY PROTECTION</small> </div>  </div>							
REFERENCE LIST							
YEAR 2015 & 2016							
*Project name unknown							
type	Owner	Project type	project name	Yard	Installer/Vendor	delivery	build country
Ambulance vessel				Swiftships	Yard		
Bulk Carrier		Refit		Sturgeon Bay	Hiller Systems	2015	USA
Container Ship	Horizon	Refit	Horizon Kodiak	Shanghai	Yard	2015	USA
CRUISE	American Cruise Line	Newbuild	*	Chesapeake	Chesapeake	2016	USA
CRUISE	Carnival	Refit	Legend	drydock		2015	
CRUISE	Carnival	Refit	Freedom	drydock		2015	
CRUISE	Celebrity Cruises	Refit	Celebrity Expedition		Nordic Made	2016	USA
CRUISE	Holland America Line	Refit	Oosterdam		Century	2015	USA
CRUISE	Princess Cruises	Refit	Coral Princess		Century	2016	USA
CRUISE	Princess Cruises	Refit	Diamond Princess	drydock		2016	
CRUISE	Princess Cruises	Refit	Coral Princess	drydock		2015	
CRUISE	RCCL	Refit	Navigator	drydock		2015	
CRUISE	RCCL	Refit	Oasis of the Seas	drydock		2016	
Dredge	Great Lakes Dredging	Newbuild	Hull 257	ESG	ESG	2016	USA
Drill Ship	Diamond Offshore	Refit	Ocean Pioneer	Kiewit		2015	
Drill Ship	Diamond Offshore	Refit	Ocean Confidence			2015	
FERRY	Tallink Ferries	Newbuild	Tallink Megastar	Meyer Turku	Halton Indoor Vacuum	2017	Finland
Flotel	Hornbeck	Refit	HOS Riverbend			2015	
Flotel	Hornbeck	Refit	HOS Achiever			2015	
Liftboat	Montco	Newbuild					
Offshore	Hess	Newbuild	Stampede	Kiewit	Jamestown	2016	USA
Offshore	Shell	Newbuild	Appomattox	Kiewit	Performance Contractors	2016	USA
Offshore LQ	British Gas	Refit	Poinsettia and Hibiscus		H. Rocker Electric	2015	USA
Offshore LQ	Chevron	Refit	Big Foot		H. Rocker Electric	2015	USA
Offshore LQ	HHI	Refit	HHI Sonam			2016	USA
Offshore LQ	Loadmaster	Newbuild	*	Lonestar	Lonestar	2015	USA
OSV	Oceanneering	Newbuild		BAE	Meitec	2016	USA
OSV		Newbuild	Hulls 671, 672, 673	Bollinger	Yard	2015	USA
PSV	Beemore	Newbuild	Hulls 6037		Coastwise Electric	2015	USA
PSV	GulfMark	Newbuild	Hulls 111, 112, 113	BAE	Meitec	2016	USA
PSV	Harvey Gulf	Newbuild	Harvey Rain	Trinity	Meitec	2016	USA
PSV	Hornbeck	Newbuild	HOS Bayou			2015	
PSV	ThomaSea	Newbuild	Hulls 147-226, 148-131, 148-279	ThomaSea	ThomaSea	2015	USA
PSV		Newbuild	Hulls 561, 662, 591, 592	Bollinger	Yard	2015	USA
PSV		Newbuild		Gulf Island		2016	
Pushboat	Eymard	Newbuild	Ted Kaysar	Harvey		2015	USA
Pushboat	Eymard	Newbuild	Hulls 112, 113, 114, 115, 118, 119	Harvey		2015	USA
Research	Univ of Hawaii	Refit	Kaimikau O Kanaloa	dockside	ships force	2016	USA
River Tug		Newbuild	*	Dakota Creek	Dakota Creek	2016	USA
River Tug		Newbuild	*	Nichols	Nichols	2016	USA
River Tug		Refit	*	Bay Ship	Bay Ship	2016	USA
Semi-submersible	Diamond Offshore	Refit	Ocean Guardian			2015	
Semi-submersible	Diamond Offshore	Refit	Ocean Valiant			2015	
Super Yacht	Voyager	Refit	S/Y Voyager	Dania Cut	RKO Electric	2016	USA
Super Yacht	Voyager	Refit	S/Y Voyager	Dania Cut	Talon Mechanical	2016	USA
T-AKR	USN	Refit	USNS Shughart	dockside	ships force	2016	Denmark
T-AO	USN	Refit	Guadalupe	dockside	ships force	2016	USA





Coral Princess
Refit



HAL Oosterdam
Refit



French Navy Ships
Newbuild projects

 MARINE FIRESTOP SYSTEMS FOR LIFE SAFETY & PROPERTY PROTECTION							
			Reference List STI Marine				01 July 2016
	*Project name unknown						
type	Owner	Project type	project name	Yard	Installer/Vendor	delivery	build country
Ambulance vessel		Refit		Swiftships	Yard	2015	USA
Bulk Carrier		Refit		Sturgeon Bay	Hillier Systems	2015	USA
Container Ship	Horizon	Refit	Horizon Kodiak	Shanghai	Yard	2015	USA
CRUISE	American Cruise Line	Newbuild	*	Chesapeake	Chesapeake	2016	USA
CRUISE	Carnival	Refit	Legend	drydock		2015	
CRUISE	Carnival	Refit	Freedom	drydock		2015	
CRUISE	Celebrity Cruises	Refit	Celebrity Expedition		Nordic Made	2016	USA
CRUISE	Holland America Line	Refit	Oosterdam		Century	2015	USA
CRUISE	Princess Cruises	Refit	Coral Princess		Century	2016	USA
CRUISE	Princess Cruises	Refit	Diamond Princess	drydock		2016	
CRUISE	Princess Cruises	Refit	Coral Princess	drydock		2015	
CRUISE	RCCL	Refit	Navigator	drydock		2015	
CRUISE	RCCL	Refit	Oasis of the Seas	drydock		2016	
Dredge	Great Lakes Dredging	Newbuild	Hull 257	ESG	ESG	2016	USA
Drill Ship	Diamond Offshore	Refit	Ocean Pioneer	Kiewit		2015	
Drill Ship	Diamond Offshore	Refit	Ocean Confidence			2015	
FERRY	Tallink Ferries	Newbuild	Tallink Megastar	Meyer Turku	Halton Indoor Vacuum	2017	Finland
Flotel	Hornbeck	Refit	HOS Riverbend			2015	
Flotel	Hornbeck	Refit	HOS Achiever			2015	
Liftboat	Montco	Newbuild					
Offshore	Hess	Newbuild	Stampede	Kiewit	Jamestown	2016	USA
Offshore	Shell	Newbuild	Appomattox	Kiewit	Performance Contractors	2016	USA
Offshore LQ	British Gas	Refit	Poinsettia and Hibiscus		H. Rocker Electric	2015	USA
Offshore LQ	Chevron	Refit	Big Foot		H. Rocker Electric	2015	USA
Offshore LQ	HHI	Refit	HHI Sonam			2016	
Offshore LQ	Loadmaster	Newbuild	*	Lonestar	Lonestar	2015	USA
OSV	Oceanneering	Newbuild		BAE	Meitec	2016	USA
OSV		Newbuild	Hulls 671, 672, 673	Bollinger	Yard	2015	USA
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PSV	GulfMark	Newbuild	Hulls 111, 112, 113	BAE	Meitec	2016	USA
PSV	Harvey Gulf	Newbuild	Harvey Rain	Trinity	Meitec	2016	USA
PSV	Hornbeck	Newbuild	HOS Bayou			2015	
PSV	ThomaSea	Newbuild	Hulls 147-226, 148-131, 148-279	ThomaSea	ThomaSea	2016	USA
PSV		Newbuild	Hulls 661, 662, 591, 592	Bollinger	Yard	2015	USA
PSV		Newbuild	Gukt Island			2016	
Pushboat	Eymard	Newbuild	Ted Kaysar			2015	USA
Pushboat	Eymard	Newbuild	Hulls 112, 113, 114, 115, 118, 119	Harvey		2015	USA
Research	Univ of Hawaii	Refit	Kaimikau O Kanaloa	dockside	ships force	2016	USA
River Tug		Newbuild	*	Dakota Creek	Dakota Creek	2016	USA
River Tug		Newbuild	*	Nichols	Nichols	2016	USA
River Tug		Refit	*	Bay Ship	Bay Ship	2016	USA
Semi-submersible	Diamond Offshore	Refit	Ocean Guardian			2015	
Semi-submersible	Diamond Offshore	Refit	Ocean Valiant			2015	
Super Yacht	Voyager	Refit	S/Y Voyager	Dania Cut	RKO Electric	2016	USA
Super Yacht	Voyager	Refit	S/Y Voyager	Dania Cut	Talon Mechanical	2016	USA
T-AKR	USN	Refit	USNS Shughart	dockside	ships force	2016	Denmark
T-AO	USN	Refit	Guadalupe	dockside	ships force	2016	USA



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