

## QUADZERO™ dBX

This installation guide provides a recommendation for the application of Quadzero dBX to improve noise transmission loss performances through bulkheads, deckheads, partitions and linings, whilst achieving a decorative foil finish.

### WORKING HEALTH AND SAFETY

- Personal Protection Equipment (PPE), including eye protection, gloves and safety clothing is recommended.
- Always follow, read and understand any information contained within the product technical datasheets and safety data sheets.
- The product is suitable for all users provided the guidelines in this document are followed.
- If unsure, please consult with your local Pyrotek representative.
- Care should be taken when handling, practicing good lifting practices, potentially more than one installer, as rolls of product are heavy.

### DESCRIPTION

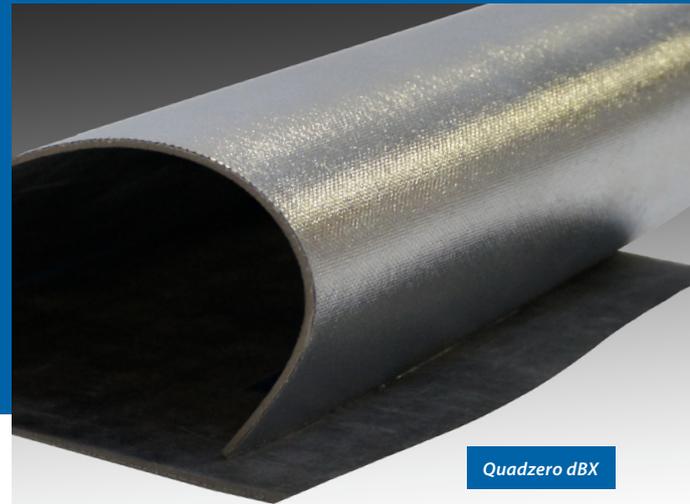
Quadzero dBX barriers are dense, flexible surface coverings that reflect noise. They are:

- effective at improving noise on board, by limiting noise transfer from machinery rooms to adjacent living spaces
- effective at reducing noise transfer between cabin spaces, increasing privacy and/or confidentiality
- more flexible, economical and practical than full height partitions
- easy to install, ideal for new build and retro-fit applications
- proven, with project history and reference lists in multiple vessel types as a safe and effective way of reducing noise

*Please refer our website [www.pyroteknc.com](http://www.pyroteknc.com) to see the latest information page on the complete range of products.*

### POINTS TO NOTE WHEN INSTALLING

- Quadzero dBX is heavy. Rolls over 25 kg require two persons to lift.
- Providing an 'airtight' assembly achieves best noise reduction.
- Sealing all joins with an overlap of 50 mm is recommended. Use Tape AGC to seal joins and edges. See Page 2 for Joining Options of Quazdero dBX.



Quadzero dBX

*Quadzero™ dBX is a high performance foil faced mass loaded noise barrier, approved for use in maritime applications as a surface covering or veneer for bulkheads and ceilings, applied on top of marine certified insulation systems.*

## applications

- Surface covering of approved/certified insulation within marine engine rooms, machinery spaces on bulkheads and deckheads to reduce noise transmission
- Inside of interior fitout panels to improve noise performances
- Outside or inside of metal air ducts, air trunking to reduce noise breakout
- Wrapped around HVAC ducts, exhaust ducts or pipes to reduce noise transfer
- Can be hung as flexible curtains, mobile or permanent – to isolate areas, and reduce the noise between these areas
- Applied on the interior of generator enclosures, to improve the noise attenuation of generator sound enclosures

Please refer to our website [pyroteknc.com](http://pyroteknc.com) for the latest information



## GENERAL GUIDELINE RECOMMENDATION

### TOOLS FOR INSTALLING QUADZERO™ dBX

Quadzero dBX requires basic tools for installation  
(See images for reference)

- A. Retractable safety blade / knife
- B. Tape measure
- C. Large square
- D. Straight edge

Other joining and fastening accessories such as Tape AGC or insulation pins may be required when installing Quadzero dBX.

### INSTALLING QUADZERO™ dBX

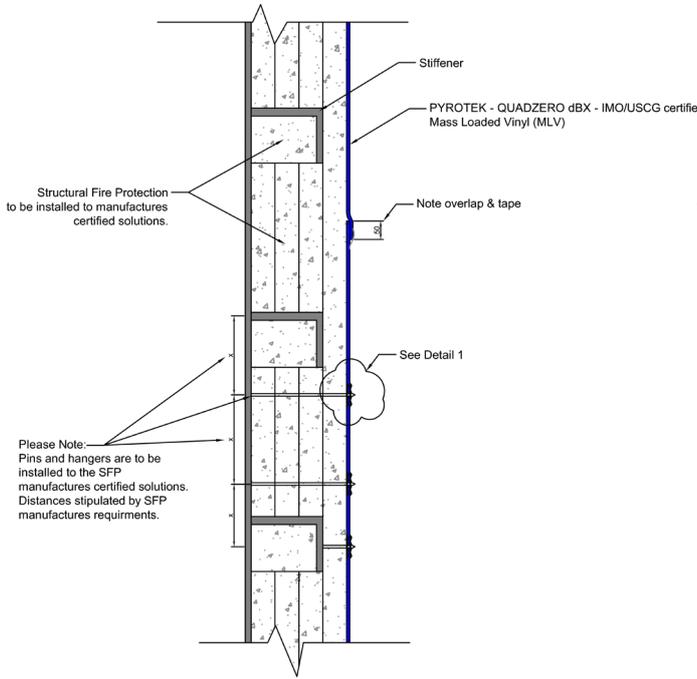
Marine – Deckheads and Bulkheads

- Ensure insulation, whether it be standard, non-combustible, or structural fire protection (A0, A15, A30, A60) is installed according to the relevant supplier installation guide and/or fire certifications.
- Cut Quadzero dBX to manageable lengths and impale the product into the same steel pins used to secure the insulation before it.
- Using a secondary washer/friction clip/speed clip, secure the Quadzero dBX in place.
- Ensure all joints are overlapped by  $\geq 50$  mm and sealed with marine approved tape, such as Tape AGC from Pyrotek.
- Ensure all corner edges are overlapped and sealed with Tape AGC.
- Penetrations, where applicable, should be treated with insulation according to the fire requirements – follow IMO regulations and certifications. In these circumstances, Quadzero dBX can be easily cut-out to allow penetrations, following the methods shown below.
- Review drawing images below.

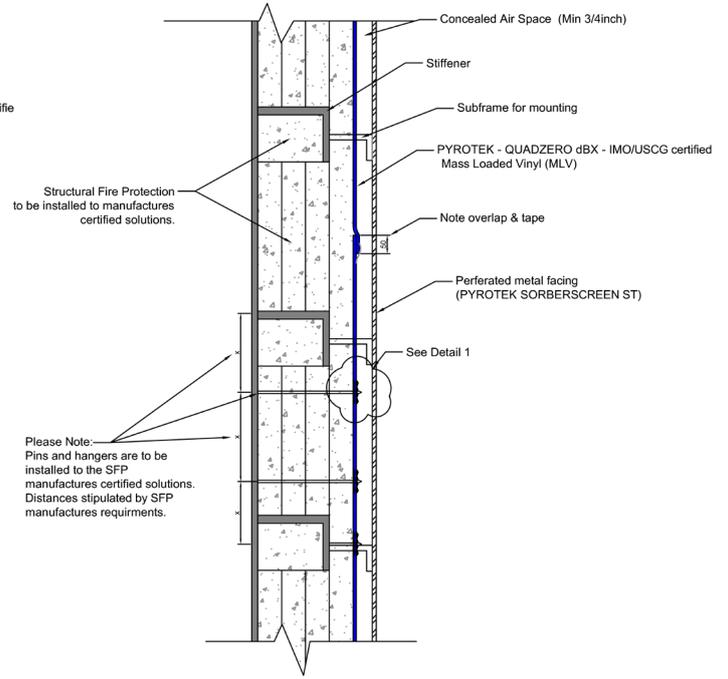


### SFP WITH 'PYROTEK - QUADZERO dBX' MASS LOADED VINYL

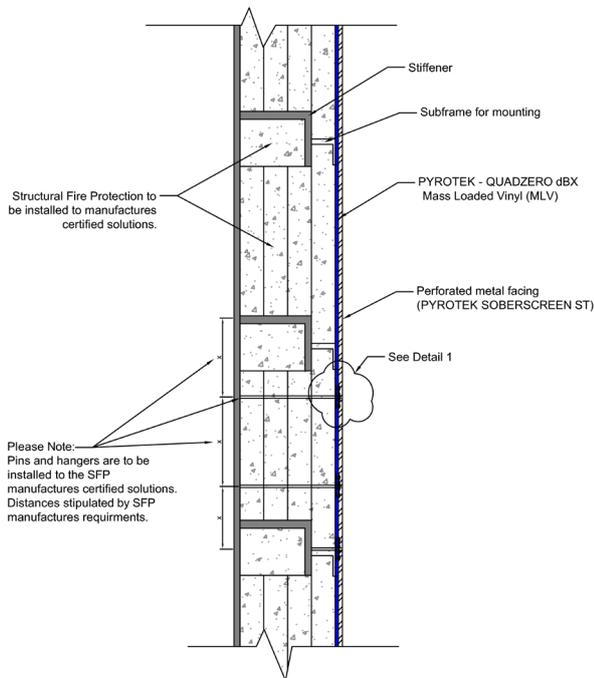
#### INSTALLATION GUIDE 1



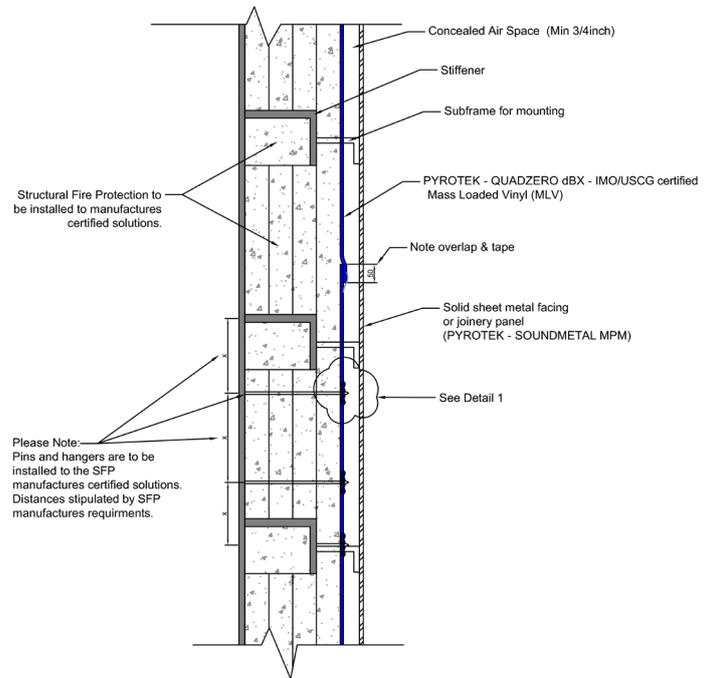
#### INSTALLATION GUIDE 2 WITH CONCEALED AIRSPACE



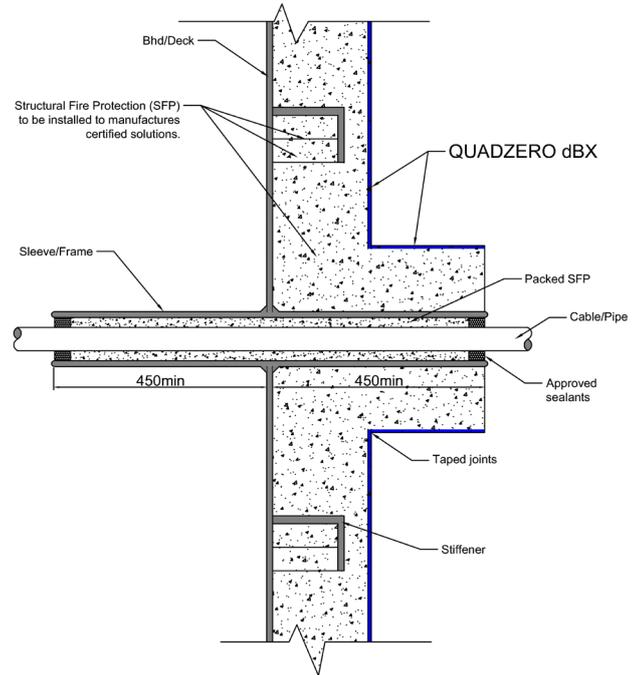
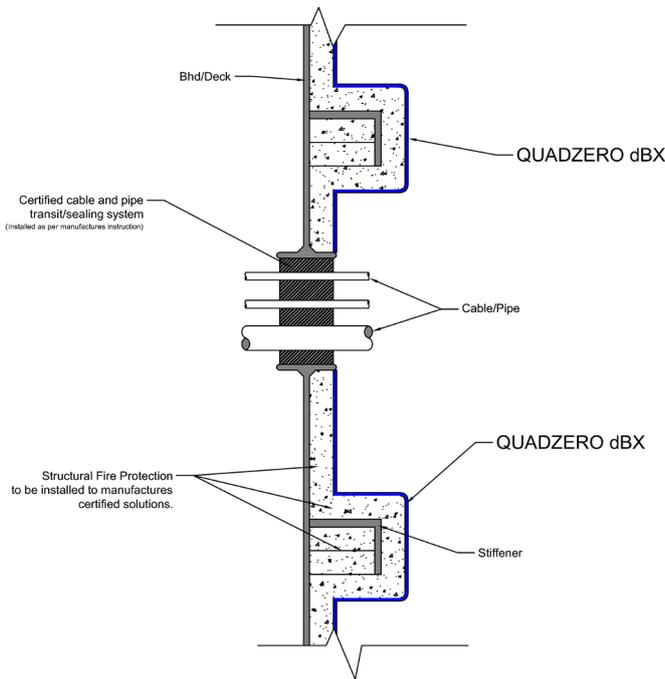
#### INSTALLATION GUIDE 2-A



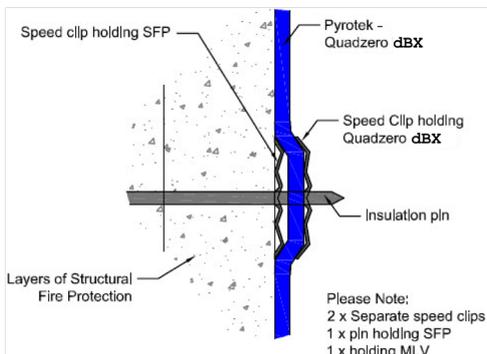
#### INSTALLATION GUIDE 3 WITH CONCEALED AIRSPACE



BHD/DECK PENETRATION METHOD



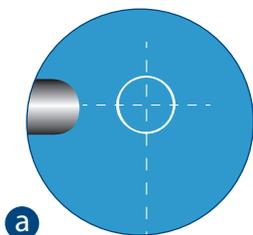
Detail 1



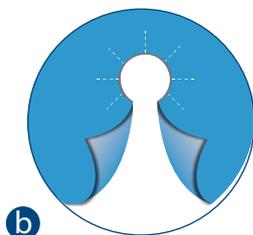
Please Note:

- Pyrotek Quadzero dBX to have minimum 50 mm overlap on joints.
- All joints sealed with approved tape.
- Quadzero dBX foil facing side away from the SFP.
- Pins should protrude 25 mm past Quadzero dBX. Dependent on type of washer used.

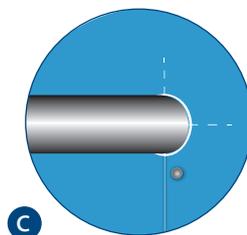
INSTALLATION AROUND PIPEWORK, DUCTING AND PENETRATIONS



**a** cut a slit from edge of sheet to pipework location. cut flange lines to diameter of pipe



**b** move pipe or Quadzero into location before closing flaps behind the pipe



**c** ensure all junctions of ducting and Quadzero are securely taped, mechanically fixed or sealed with plasticiser resistant mastic

Please contact Pyrotek® for further information or detailed advice on your specific application.