

WAVEBAR® / WAVEBAR® NC

This Installation Guide provides recommendations for the application of Wavebar® and Wavebar® NC as a 'noise curtain'.



WORKING HEALTH AND SAFETY

- Personal Protection Equipment (PPE), including eye protection, gloves and safety clothing is recommended.

Note: This product is suitable for professional and experienced users only.

DESCRIPTION

Wavebar® products are flexible mass-loaded noise barriers used for blocking noise transfer between areas. The range is offered in varying surface densities and thicknesses.

Standard Specifications:

- Thicknesses : From 1.2 mm to 4.0 mm
- Surface densities : From 2 kg/m² to 8 kg/m²
- Roll lengths : 5 or 10 lineal metres

Please to refer our website www.pyroteknc.com to see the latest Information page on the range of products

PRODUCT COMPOSITION

From our range of 'Wavebar' mass barriers, Wavebar® and Wavebar® NC are recommended for use as 'noise curtains' to enclose or isolate noisy equipment or operation and personnel areas.

PRODUCT	PROPERTIES	ROLL WIDTH
Wavebar®	Plain facing with reinforced backing	1380 mm
Wavebar® NC	Tear resistant, high tensile strength tarpaulin base fabric backing.	1000 mm

POINTS TO NOTE WHEN INSTALLING

- Wavebar 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 Pyrotek's "Fixseal MSP15" to seal joins and edges. See Page 2 for "Options for joining Wavebar sheets"

Pyrotek's Wavebar® and Wavebar® NC are recommended for use as 'noise curtains'. Refer to Wavebar® TDS-311IP and Wavebar® NC TDS-314IP for more information.

applications

- Construction sites - Both indoor and outdoor
- Enclosures for industrial equipment - punch presses, blowers, drops saws, granulators and generators
- Portable acoustic curtain - draped over fencing to create an acoustic barrier
- Noise curtain for portable mobile equipment including jackhammers, drilling rigs and pile drivers
- Can be designed to be installed into a C-track support system for moveable / concertina curtains

Please refer to our website pyroteknc.com for latest information



TOOLS FOR INSTALLING WAVEBAR

Wavebar® products require only basic tools for installation (See images for reference)

1. Retractable safety blade / knife
2. Tape measure
3. Large square
4. Straight edge

Other joining and fastening accessories such as insulation pins, suitable plasticizer resistant adhesives like Pyrotek's "Fixseal MSP15", PU sealants, may be required when installing Wavebar®.

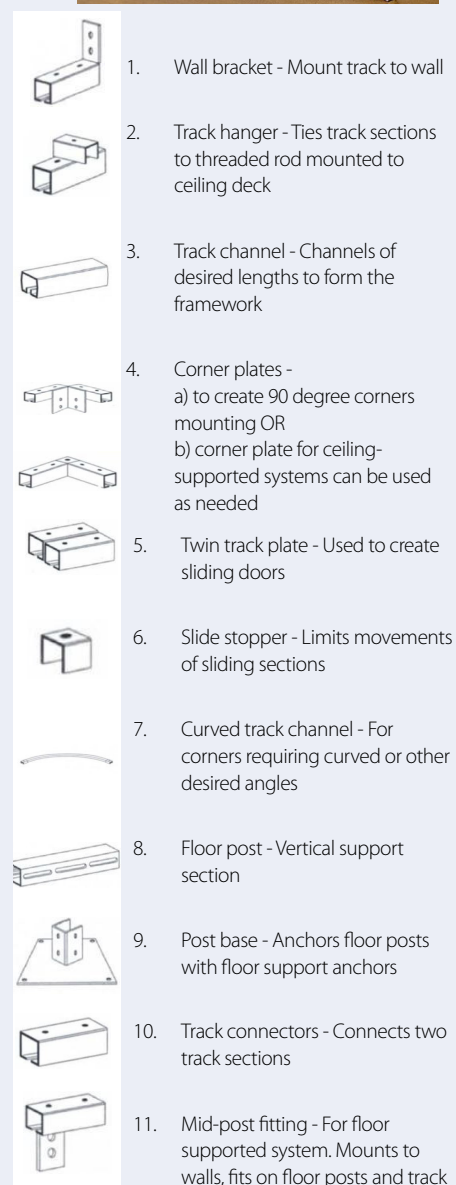
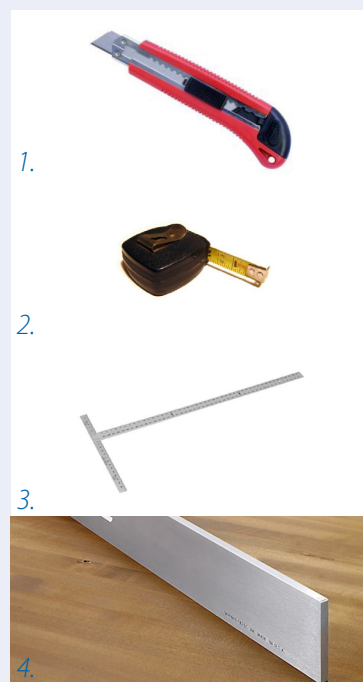
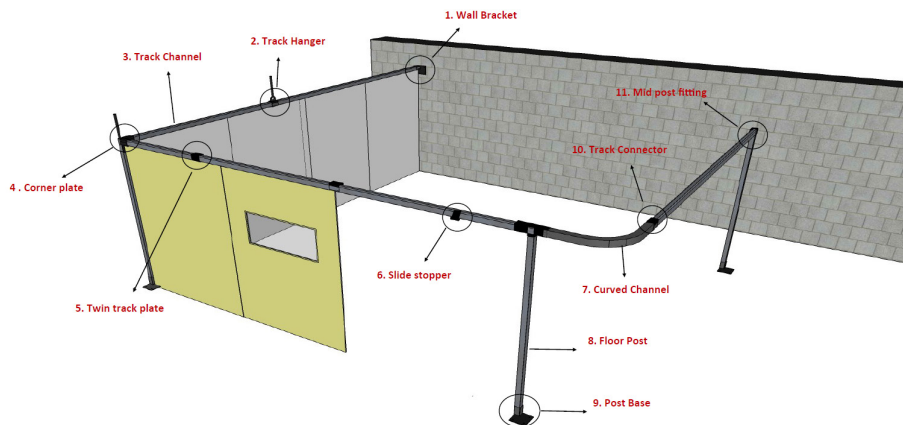
WAVEBAR USED AS CURTAINS

Wavebar® can be installed either:

- As portable curtain screens with adjustable feet for partial enclosures
- Or as complete enclosures with a curtain and track system that is either ceiling or floor-mounted and wall supported.

TYPICAL CURTAIN AND TRACK FRAMEWORK

Use the following illustration and details of hardware accessories as a general guideline to customise and design your curtain and track framework for installing Wavebar. Alternatively, Pyrotek can provide, on request, modular curtain systems with 'curtain and track' framework. Please contact your local Pyrotek representative for more information.



VARIATIONS

- Choice of absorber materials including polyester or fibreglass with thicknesses from 12 to 38 mm can be laminated or quilted to one or both sides to create a curtain composite. (Contact Pyrotek for more information on modular curtain systems)
- Pyrotek can offer clearview PVC for integrating into the curtain system as doors and windows.

Basic Guidelines:

- Wavebar can be installed as curtains to provide partial or complete enclosures around noisy areas. It can be cut to any desired shape, width or length and draped in long lengths as curtain sheets.
- Provide an overlap of at least 50 mm at adjoining sheet joins.
- If adjoining sheets are not sealed or fastened, provide an overlap of up to 150 mm.
- To hang Wavebar, fix reinforced brass eyelets at the top of each sheet. Fix the eyelets 50 mm from the top of the sheet, 50 mm in from the edge, and spaced at 150 mm centres. Heavy duty UV resistant cable ties or rings can be used to suspend the curtain.
- Ensure that the framework provides adequate strength to support the curtain system.

Options for joining Wavebar sheets:

1. Adjoining sheets can be joined using Pyrotek's 'Fixseal MSP15'. Apply the adhesive on both surfaces and applying firm pressure of approximately 5 to 10 kg/m² on the bonded sheets. It is important to carry out a trial before installing the sheets. Alternatively, use a polyurethane sealant or any solvent based adhesive can be used if not using 'Fixseal MSP15'.
2. Rivets with washers can be used if gluing is not preferred.
3. Wavebar can be sewn or sonically welded
4. Curtain sheets with holes punched along the vertical edges with polyester or nylon threaded fasteners to join adjacent sheets can be supplied on request.
5. Hook & loop fastening strip can be sewn to the curtain edges. Hook and loop interlocking fasteners are adhesive on one side and have either a male (hook) or female (loop) weave on the other.

Portable partial screens



Complete enclosures using curtain and track system



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For further information
and contact details,
please visit our website
pyroteknc.com

Caveats: Specifications are subject to change without notice. The data in this document is typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic or mechanical engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek NC is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights. DISCLAIMER: This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See www.pyroteknc.com/disclaimer.

