

...Not only sandbags!

Comparing the NOAQ Tube Wall with sandbags may be regarded as unfair, as sandbags weren't designed especially for flood protection. The comparison is relevant though, as sandbagging still is the prevailing method, even if other techniques have been developed in recent years.

Do compare the characteristics of the NOAQ Tube Wall system with any other product on the market, inserting its data in the free column to the right.

		Tubewall TW75	Sandbag wall	Other system
Height		75 cm (30")	Various, here: 75 cm (30")	
Stable by overtopping?		Yes	No	
Speed of deployment by two people	m/hour foot/hour	60 200	1 3.3	
Own weight	kg/meter lb/foot	5 3,3	700 470	
Max. ground pressure	kPa PSI	10 1.4	20 2.8	
Ground evenness Requirements		Very small	None	
Need for additional components to be brought from elsewhere		No	Sand	
Angles Possibility to create angles		Variable 0 - 90° in both quarters	Unlimited	
Volume required for storing 30 linear feet		0.5 m ³ 18 ft ³	8 m ³ 270 ft ³	
Reusable		Yes	Bags - maybe Sand - no	

NOAQ TUBE WALL SPECIFICATIONS Flood Protection Systems



Unbeatably light

0.4% of the weight of a corresponding sandbag dike makes it lighter than any other device.

Extremely fast

The low weight makes for fast installation, enabling you to save more property in less time. Two people can erect 60m/hour and dismantle it at the same speed.

Stable

Even when damming water to the brim.

Flexible

Works as well on lawns and meadows as it does on concrete and asphalt.

No ground damage

Neither from the device itself, nor from heavy vehicles.

Neat and handy

Takes little storage space when collapsed, and is easy to ship.

Introduction

The NOAQ patented Flood Fighting System is a completely new and revolutionary concept for rapid flood protection. The system is comprised of inflatable plastic tubes that interconnect to create a temporary water barrier, a "Tube Wall".

A traditional sandbag dike can withstand the water pressure because of the weight of the sand. The NOAQ Tube Wall is instead utilizing the weight of the floodwater!

Each tube has a skirt fused to the side facing the water. As the floodwater rises, the increasing water pressure squeezes the skirt against the ground, securely anchoring the tube. The NOAQ Tube Wall becomes impossible to move!

The device is quick and easy to set up which gives you the opportunity to take command of the situation and to take the offense in flood defense!

Hynds Environmental Systems Limited

North Island

PO Box 17388, Greenlane 1546,
Auckland, New Zealand
Telephone +64 9 571 0090
Facsimile +64 9 571 0091
Email sales@hyndsenv.co.nz

South Island

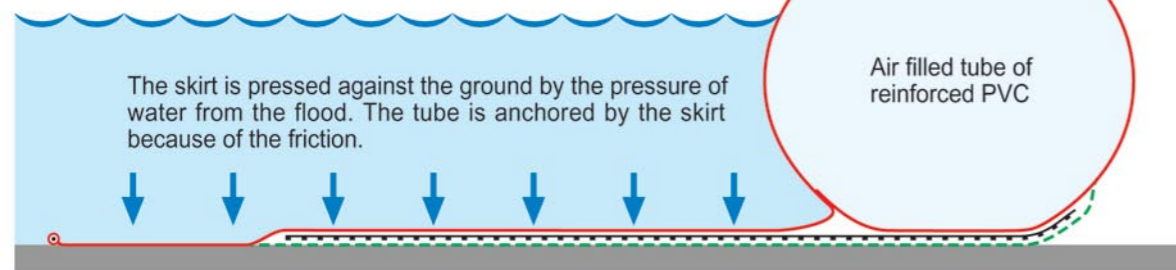
PO Box 16552, Hornby 8441,
Christchurch, New Zealand
Telephone +64 3 344 1370
Facsimile +64 3 344 1375
Email mikes@hyndsenv.co.nz

protecting our environment

www.hynds.co.nz

Reference EV31 October 2006

This is how the NOAQ Tube Wall works



Sealing

The outer part of the skirt is pressed tight to the ground to prevent leakage.

Anchoring

The stability of the construction is directly proportional to the difference of water pressure between the upper and lower side of the skirt. Therefore, a patented drainage layer leads underseeping water out to the dry side.

Damming

As no uplift forces act on the damming part, there is no need for heavy weights. An air filled tube is easy to handle.

Work with natural forces!

Traditionally, temporary flood protection barriers are made of heavy materials like sand and concrete to counteract the pressure force from the floodwaters. Even waterfilled tubes are designed to work this way.

We do it the other way round, taming the water to work for us! The water pushing on the wall is at the same time anchoring it!

Low weight

This gives us the opportunity to make the construction itself very light, using airfilled tubes for damming the water.

Low weight means less labour, less labour means higher efficiency and higher efficiency means more property protected!

Thoroughly tested

The patented system was developed with support from the Swedish Rescue Services Agency. It has been thoroughly tested and examined by independent institutions, and is also among the systems recommended in the Emergency Preparedness Canada report, "Alternatives to sandbags for temporary flood protection".

NOAQ Tube Wall TW75 - hard facts:

Wall height:	75cm (30")
Wall length:	No limitations
Wall width:	approx. 2.4m (7.9 foot)
Wall weight:	5kg/m (3.3lb/foot)
Tube length:	7 - 20 m (23 - 66 foot)
Tube weight:	35 - 100 kg (77 - 220lb)



The tube wall

The Tube Wall is the fastest, lightest and most flexible flood protection system on the market. This makes it the first choice for quick response to a flood threat.

When you arrive at the site, just roll the tubes out, fill them with air from the handheld blower and connect them with ordinary zippers. That's it.

Don't bother

You don't have to check in beforehand whether the ground is even enough, or if the soil can bear a dike. You don't have to worry about access for vehicles or machinery on waterlogged roads. And you don't have to worry about huge costs for removing the stuff afterwards. Dismantling a NOAQ Tube Wall is as easy as deploying it.

And best of all - you don't have to choose which house to save and which house to give up. The fast deployment of the Tube Wall enables you to save them all!

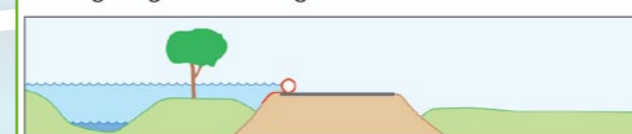
Some applications...



Protecting residential areas and other crucial objects



Adding height to existing levees



Protecting roads from damaging cross-running currents



Keeping essential roads open to traffic

Free

The best things in life are free. For establishing a NOAQ Tube Wall you need air for inflating the tubes and water for anchoring them. Both freely available in large quantities. You also need a ground strip that is free from trees and other obstacles.

Patented

The Tube Wall itself, and the technique to stabilize mobile water barriers by draining away underseeping water, is patented in several countries.

Awarded

The inventor Sigurd Melin has been awarded the SKAPA-prize for the Tube Wall. The prize is annually distributed to the best Swedish Inventions. In 2002, he participated in the live broadcasted BBC Programme "Best Inventions", and won.

R & D

The NOAQ Tube Wall has been tested under different conditions; on surfaces like asphalt, gravel, meadows and even on snow, on sloping ground, exposed to wave action etc.

We continue to develop flood protection equipment and methods for the world market. Other products, based on the same principle of utilizing the weight of the floodwater, are on the way.