References

Heiligenhafen Pier 2



Uponor involvement

- 500 m of the Uponor Ecoflex Supra Plus pipes

Heiligenhafen Pier 2

Uponor Ecoflex Supra Plus provides frost-free drinking water and waste water transportation at Heiligenhafen Pier all year round.
Heiligenhafen, the holiday town on the Baltic Sea, has had a new attraction since 2012: The Adventure Pier [Erlebnis-Seebrücke].
In order to run the gastronomic businesses and the sanitary facilities not only in the summer but all year round, Uponor Ecoflex Supra Plus provides frost-free drinking water and waste water transportation.

Project Facts:

Location	Completion		
Heiligenhafen, Germany	2012		
Building Type	**Product systems**		
Hotel buildings	Local Heat Distribution		
Address	**Website**	**Project Type**	
Seebrückenpromenade 23774 Heiligenhafen	https://www.ostsee.de/heiligenhafen/seebruecke.html	New building	

Partners

Planners:
Seebauer | Wefers und Partner GbR
Babelsberger Straße 40|41
10715 Berlin

Ingenieursbüro b&o Ingenieure
Friedensallee 23
22765 Hamburg (Ottensen)

Installers:
Mäder & Rath Haustechnik GmbH
Wittrockstraße 24
23774 Heiligenhafen

Client:
HVB Heiligenhafener
Verkehrsbetriebe GmbH & Co. KG
Am Jachthafen 4A
23774 Heiligenhafen

The 420 m long pier zig-zags over the sea from the main bathing beach. Visitors can listen to the see on the pier's sun deck or enjoy the sea view in the glazed lounge. The Adventure Pier's swimming deck and the play area offer fun in the water.

During the winter months, outdoor temperatures can fall to as low as -20°C in Heiligenhafen. In order to run the kitchen in the lounge as well as the sanitary facilities all year round, Uponor Ecoflex Supra Plus provides frost-free drinking water and waste water transportation, even at low temperatures. This is why the builder, HVB Heiligenhafener Verkehrsbetriebe GmbH & Co. KG, chose the flexible, pre-insulated Uponor Ecoflex Supra Plus pipe system.

Uponor Ecoflex Supra Plus offers a high level of insulation against heat and cold

500 m of Uponor Ecoflex Supra Plus pipes were laid under the pier to provide drinking water and waste water disposal. The pier was designed by the engineering firm b&o Ingenieure and Seebauer | Wefers und Partner GbR.

The installed pipe system consists of a stable and yet flexible outer pipe as well as a medium pipe made from non-cross-linked polyethylene (PE 100). This is encased in insulation made from multi-layer cross-linked polyethylene foam.

The special pipe geometry and the outer pipe's impact-resistant polyethylene material (PE-HD) provide the required ring stiffness yet still facilitate narrow bending radii. Additional special tools and expensive welding work were not required. The insulating material also has a high level of water resistance.

Uponor Ecoflex pipes are particularly robust and durable and offer a high level of insulation against heat and cold due to these properties. Additionally, the pipes are low-weight and are particularly flexible. This means that they can be laid particularly easily.

The integrated frost protection cable provides secure transportation

The Uponor Ecoflex Supra Plus pipe has a self-regulating frost protection cable integrated into it in the factory. This means that the water can be transported in a frost-proof way even in low outdoor temperatures. Thanks to the temperature controlled regulator, the frost protection cable is only enabled when required. This saves energy and reduces operating costs. The outer

pipes are also insulated and sealed at the joints using Uponor insulation sets.

Quick installation times save time and costs.

As opposed to pipes by other manufacturers, Uponor Ecoflex pipes can even be laid in minus temperatures. Due to the particularly long 150 m pipes, only a few pipe couplings are required for the fresh water and waste water lines in comparison to competitors and only two regulators are required for the frost protection cable. This saves additional installation time and material costs. Due to all these benefits, the pipes were economically installed by four installers in only four days.

The waste water is transported using high pressure. To avoid sedimentation and the consequent damage it causes in the pipes, and in order to avoid pipe damage,there is water already inside the pipes which is pushed through by flowing water.

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