



# Abcite®

## Corrosion Protection



## Fire escape concealed by marine and weatherproof coated perforated steel sheet

### Contractor

Trade center building “Fisketorvet” located at the old inner harbour area of Copenhagen.

### Project

A Danish building contractor wanted to use perforated steel sheet to conceal fire escapes and others obstructions attached to the masonry of a new trade center to be built in central Copenhagen in a marine environment.

### Problem

These perforated steel sheets when coated, must have a good edge coverage, good resistance to an occasional saline mist and a flexibility that would enable the sheet to be bent at a 90°degrees angle without showing up cracks. The coated sheet must be sufficiently abrasion resistant that textile banners or large textile

advertisements could be attached to the coated sheets without leaving scars on the surface.

### Solution:

After careful testing of several alternatives, Abcite® was chosen for this job, which comprised some 9.500 square meters. The sheet used was electro-galvanized steel – a total of 62 tons – which was stamped, subsequently degreased, wire-brushed, conventional oven-heated to upwards 300 degrees centigrade and immediately thereafter dipped using the fluid-bed method, applying a coating thickness of 500-700 µm. The end result was spectacular and the design of the building has since drawn a lot of attention as a prominent attraction in the face-lifted part of the old inner harbour area of Copenhagen.

### Benefits:

- Abcite® coating is weatherproof.
- Abcite® is resistant against polluted atmospheres and marine salt sprays.
- Abcite® is abrasion and impact resistant even at low temperatures, has a high surface hardness, but remains pleasant to touch and has a nice appearance.
- Abcite® has an excellent temperature flexibility allowing steel sheet to be bent without showing any cracks.
- Abcite® can be coloured according to the specific requirements of the application.

## Application case history

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**DuPont Powder Coatings**