

**Project:** JISA – Jumairah International Staff Accommodation  
Project No. 89001906.50  
**Client:** JISA  
**Contractor:** Drake & Scull - Dubai  
**Location:** Dubai - UAE  
**Type:** District Cooling Chambers Leak Repair  
**Date:** Sept 2007

## Project Description:

A total of 37 large pipe chambers were treated with each chamber having four large steel pipes passing through the concrete walls. The pipe pass through the walls and ranged in diameter between 450-1200mm. The larger opening in the wall was the concern for leakage from raising ground water table.

## Materials:

**X-Calibur** hand applied Polyurea waterproofing material

## Project Value:

Dhs. 250,000

## Work Description:



The HDPE heat insulation material was removed from the pipe surface up the wall of the inside level of the chamber wall. The steel pipe surface was exposed and abraded from the heat insulation foam material. The gap around the pipe was filled with Polyurethane foam up to the external wall surface. Waterproof concrete plug was used to fill the gap around the pipe and form a good backing for the final coating. Finally, a multiple waterproof coating material was applied on the concrete and steel surface to prevent any leak passing through.

