

# Crystal Fountains

International Water Feature Specialists

5) Applications Test #5 – Architectural Stepped Glass Sculpture (CF Drawing Ref. Water Feature # 1.4, 1.5, 1.7 & 1.8)

These sculptural elements are positioned at the terminus of major view corridors and must compliment the pools within which they are located. These elements are designed to transform from a sophisticated and simple white light water effect into a dynamic glowing night element with various illumination sequences.

**Purpose:** To further confirm the water and lighting effects as related to this glass art piece.

**Details:** This test was a full-scale mock-up of stepped crystalline glass construction using textured cast glass block with a metal support frame. Measuring approximately 1300mm x 1000mm, this art piece was both backlit and uplit. The mock-up was placed in a pool and tested with designed flow rates.

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**Findings:**

- Lighting** – AKC approved internal and external LED uplights as designed and tested. Furthermore, AKC agreed that both sources of illumination should be synchronized.
- Water Flow Characteristics** – The designed flow rates were tested and approved by AKC.
- Glass Type** – It was agreed that all glass should be clear, crystalline and non-ferrous. CF shall specify this in their package.
- Glass Structure** - It was agreed that the supplier of the architectural glass water features shall be required to submit glass samples including all associated hardware and supports as part of their bid scope. Furthermore, a full-scale mock-up shall be carried out by the glass supplier on site and for approval by AKC and Emaar.

**Photo Reference:**

