

Performance Certificate 08/01

Standalone Movable Flood Abatement System

AquaFence V1200

21 METER OF THE AQUAFENCE SYSTEM V1200, MOUNTED TO A CONTINUOUS WALL WITH 2 CORNER ELEMENTS (90° AND 60°) AND 2 ADAPTERS TO A CONCRETE WALL

HAVE BEEN TESTED WITHIN
THE HYDRAULICS LABORATORY OF CENTRE OF CLIMATE ADAPTATION RESEARCH (KLIFF)

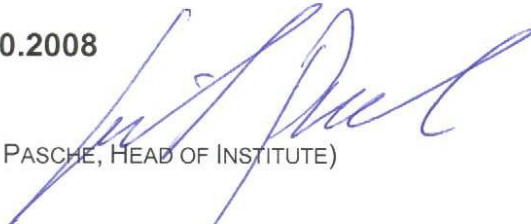
IN THE PERIOD OF
01.07.2007 – 31.10.2008

THE FOLLOWING PERFORMANCE INDICATORS HAVE BEEN DETERMINED:

DOCUMENTATION	Complete, clear and consistent with good legibility of the drawings and readability of the text
DEPLOYMENT	<p>completeness of the system at delivery</p> <p>good self-explanatory material for instruction of the workforce</p> <p>workforce requirements: Minimum 4 people 1 skilled instructor 3 assisting persons</p> <p>Deployment time: With workforce of 4 people: 200 min/100 m of wall elements (average)</p> <p>Foundation requirements: Plain and solid (e.g. concrete, asphalt) stable with respect to anchoring components</p> <p>Ease of assembly: Without complicated technical and organizational actions</p>
DURABILITY	<p>Minimum life cycle: 60 deployments for all Aluminium components, canvas and gaskets 100 cycles for the plywood wall</p>
LOAD RESISTANCE	<p>Hydrostatic: Tested for maximum water depth 90 cm</p> <p>Hydrodynamic: Tested for maximum current of 2 m/s and momentum force of 125 KN</p> <p>Debris load: Wooden log of 50x50 cm², 0,4 t weight with maximum approach velocity of 2,4 m/s</p> <p>In all load tests: No permanent deformation elastic deformation less than 4 cm leakage rate: < 65 litre per hour and meter</p>

HAMBURG, 29.10.2008

(PROF. DR.-ING. E. PASCHE, HEAD OF INSTITUTE)



Technische Universität Hamburg-Harburg
Forschungsschwerpunkt
Bautechnik und Meerestechnik
Institut für Wasserbau, 8 - 10
Denickestr. 22 • 21073 Hamburg
STAMP