TUHH
Technische Universität Hamburg-Harburg

WASSERBAU
River and Coastal Engineering

Performance Certificate 09/01

Temporary Flood Abatement System

FLOODStop

A DOOR BARRIER, 80 CM WIDE UND 180 CM HIGH AND A WINDOW BARRIER, 80 CM WIDE AND 80 CM HIGH

HAVE BEEN TESTED WITHIN

THE HYDRAULICS LABORATORY OF CENTRE OF CLIMATE ADAPTATION RESEARCH (KLIFF)

IN THE PERIOD OF

01.07.2008 – 31.04.2009

THE FOLLOWING PERFORMANCE INDICATORS HAVE BEEN DETERMINED:

DOCUMENTATION	Complete, clear and consistent with good legibility of the drawings and readability of the text	
DEPLOYMENT	completeness of the system at delivery good self-explanatory material for instruction of the workforce workforce requirements::	Minimum 1 person recommended 2 persons
	Deployment time:	until readiness for operation with 2 persons 3 min for barrier element (average)
	Foundation requirements:	Plain and solid (e.g. concrete) In cases of brickwork a circular sealing band necessary
	Ease of assembly:	simple and feasible without special knowledge Application of special compressor ecommended
DURABILITY	Minimum life cycle:	after 90 deployments still properly functioning No damage or material tiredness
LOAD RESISTANCE	Hydrostatic:	Tested for maximum water depth 180 cm
	Hydrodynamic:	Tested for maximum current of 2 m/s
	Debris load:	Wooden log of 30x30 cm², 0,2 t weight with maximum approach velocity of 4,1 m/s
	Deformation	no permanent deformation elast. deformation < 4 cm at 150 cm water depth with debris load resistant till v<2,8 m/s
	Leckage Rate:	door with smooth surface (aluminum sheet): tight – given till 1,1 m water depth

HAMBURG, 31.04.2009

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

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