

# P R O T O C O L

## O N P R O D U C T T Y P E T E S T I N G



Czech

**Registration No. 1017 – CPD – 05.686.914**

Issued in compliance with Article 5 Section 1 Clause b) of Government Order No. 190/2002 Coll. and in compliance with Council Directive No. 89/106/EEC of 21<sup>st</sup> December, 1988, on the approximation of laws, regulations and administrative provisions of the Member States relating to construction products, amended by Council Directive 93/68/EEC, by the Notified Body No. 1017.

### Domestic Wastewater Treatment Plant

Type range: **Marsh Uni Ensign**

Types: **6PE, 10PE, 12PE, 16PE, 20PE, 25PE, 30PE, 35PE, 40PE, 45PE, 50PE**

**EN 12566-3:2005+A1:2009**

### MARSH INDUSTRIES LIMITED

Units 3-13, Little Addington Business Park, Irthlingborough Road, Little Addington,  
Kettering NN14 4AS UNITED KINGDOM  
VAT Ident. No.: GB866868943

Place of the production: See above

TÜV SÜD Czech s.r.o. performed the initial testing of the respective product characteristics described in Annex ZA of the standard

**EN 12566-3:2005+A1:2009**

The testing results are presented in the Evaluation Report Reg.No. 05.686.242 from 20-04-2012, which consists of 3 pages and forms an inseparable part of this Product Type Testing Protocol.

Treatment efficiency on organic daily loading BOD <sub>5</sub> = 0,49 kg/day	BOD <sub>5</sub> COD <sub>CR</sub> TSS N-NH <sub>4</sub> <sup>+</sup> P <sub>total</sub>	97,4 % 91,0 % 94,1 % 81,0 % 42,0 %	11,5 mg O <sub>2</sub> /l 71,5 mg O <sub>2</sub> /l 19,2 mg/l 8,4 mg/l 5,7 mg/l
Watertightness	Passed		
Structural behaviour	Passed		
Durability	Passed		

In Prague, 03.05.2012



On behalf of the Notified Body 1017

# PROTOCOL

## ON PRODUCT TYPE TESTING



Czech

Registration No. 1017 – CPR – 05.686.914, Revision No. 2

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC, this protocol is issued for the construction product:

### Domestic Wastewater Treatment Plant

Type range: Marsh Uni Ensign; Marsh Uni Ensign Shallow

Types: 6PE, 10PE, 12PE, 16PE, 20PE, 25PE, 30PE, 35PE, 40PE, 45PE, 50PE

### MARSH INDUSTRIES LIMITED

Units 3-13 Little Addington Business Park, Irthlingborough Road,  
Little Addington, Kettering NN14 4AS United Kingdom  
VAT Ident. No.: GB866868943

Place of production: See above

TÜV SÜD Czech s.r.o. performed the initial testing of the respective product characteristics described in Annex ZA of the standard

### EN 12566-3:2005+A1:2009

The results of the tests are given in the Evaluation Report Reg. No. 05.686.242 from 20 April 2012 and in the Inspection Report No. 06.431.719 from 1 February 2013, which are integral parts of this Protocol on product type testing.

Evaluation of tests:

Essential characteristics	Performance			Harmonised TS
Treatment efficiency on organic daily loading $BOD_5 = 0,49$ kg/day	$BOD_5$	97,4 %	11,5 mg $O_2$ /l	EN 12566-3.2005+A1:2009 Annex B
	$COD_{CR}$	91,0 %	71,5 mg $O_2$ /l	
	SS	94,1 %	19,2 mg/l	
	$N-NH_4^+$	81,0 %	8,4 mg/l	
	$P_{Total}$	42,0 %	5,7 mg/l	
Watertightness (water test)	Passed			EN 12566-3.2005+A1:2009
Structural behaviour (calculation)	Passed			EN 12566-3.2005+A1:2009
Durability	Passed			EN 12566-3.2005+A1:2009

This Protocol was first issued on 3 May 2012 as the Protocol on product type testing according to CPD.

Prague, 11 July 2013



on behalf of Notified Body 1017  
Jana Bačínová  
Head of Certification Department