

# ECHO LINER TECHNICAL DATA SHEET

VERSION: 001

VERSION DATE: 30/01/2019

## PRODUCT DESCRIPTION

A flexible, extensible, seamless liner for lining around 45 and 90 degree bends in pipes. Circular knitted construction with a polyurethane coating custom sized for pipe rehabilitation. Manufactured in accordance with ISO9001:2015



## DIMENSION AVAILABILITY, TYPICAL RESIN & ROLLER GAP INFORMATION

PIPE DIAMETER (MM)	TYPICAL INSTALLED THICKNESS (MM)	TYPICAL RESIN ADDITION			ADDITIONAL INFO	
		LITRES PER METRE	KG/M IF SG 1.2	LB/FOOT IF SG 1.2	APPROX ROLLER GAP MM	SUPPLY LENGTHS METRES
50	2.5	0.37	0.45	0.30	8mm	25/50
70+	3.5	0.79	0.94	0.63	9mm	100
100	3.5	1.06	1.27	0.86	9mm	100
125	3.5	1.34	1.60	1.08	9mm	100
150	3.5	1.61	1.93	1.30	9mm	100
200	3.5	2.16	2.59	1.74	9mm	100

## INSTALLATION METHOD

INSTALLATION TYPE	RESIN TYPE			CURING REGIME			
	EP	UP	VE	HOT WATER (<80°C)	STEAM & AIR (<80°C)	AMBIENT	WARM WATER
EVERSION	✓	✗	✓	✓	✓	✓	✓
BLIND SHOT	✓	✗	✓	✓	✓	✓	✓
DRAG-IN	✗	✗	✗	✗	✗	✗	✗

Note: We recommend that all Echo Liner installations should be supported at all positions outside of the pipe being lined. If not a blind shot, it is important to evert the product in longitudinal tension in order to avoid wrinkling. Compatibility of specific resins should be verified,



**RSM Lining Supplies**  
CHOICE AND TECHNOLOGY



ECHO LINER

RSM Lining Supplies Global Ltd  
Unit 2, Doncaster, UK, DN4 8GE  
PHONE: +44 (0)330 043 9604  
EMAIL: sales@rsm-web.com  
WEBSITE: www.rsm-web.com

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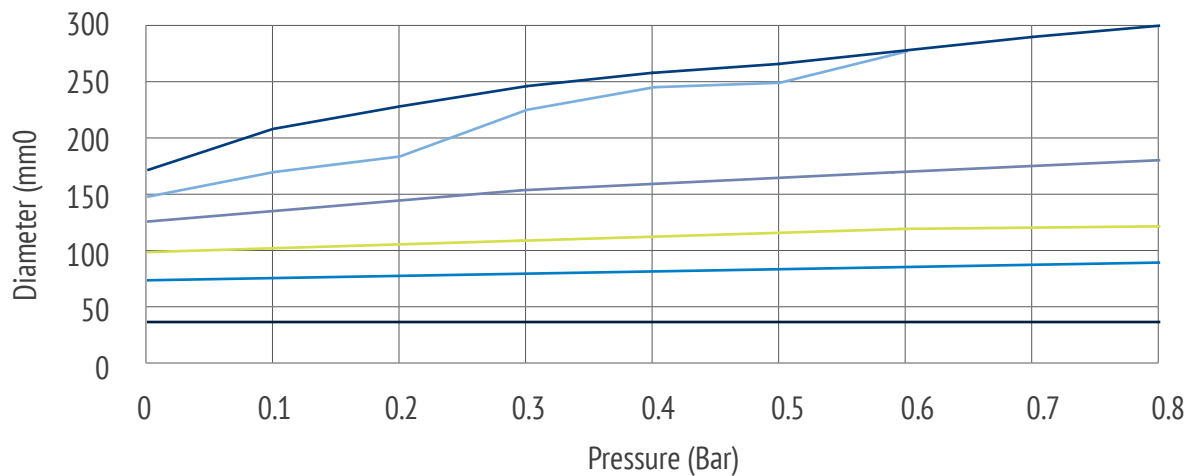
## LINER INSTALLATION & PREPARATION (TYPICAL VALUES)

A suitable holdback should be employed and should be paid out in tension with air or water pressure as below. Site circumstances, such as ground water head, should be considered when selecting an appropriate installation head.

Diameter	MINIMUM EVERSION HEAD (WITH HOLD-BACK TENSION)		MAXIMUM EVERSION OR CURE HEAD		RECOMMENDED CURE HEAD	
	BAR	PSI	BAR	PSI	BAR	PSI
50	0.3	4.5	0.6	9	0.4	6
70+	0.3	4.5	0.6	9	0.4	6
100	0.3	4.5	0.5	7	0.4	6
125	0.3	4.5	0.4	6	0.3	4.5
150	0.2	3	0.3	4.5	0.2	3
200	0.2	3	0.3	4.5	0.2	3

## TYPICAL EXTENSION CHARACTERISTICS

### DIAMETER V PRESSURE



Diameters



ALL INFORMATION IS PROVIDED BY RSM LINING SUPPLIES GLOBAL LTD IN GOOD FAITH, BUT WITHOUT WARRANTY. ALL CALCULATIONS SHOULD BE VERIFIED. ROLLER GAP SETTING IS FOR GUIDANCE ONLY, IMPREGNATION EQUIPMENT DIFFERS: RUBBER WRAPPING ON ROLLERS, POSITIONAL HYSTERESIS AND FLEXING OF ROLLERS CAUSE ROLLER GAP SETTINGS TO VARY BETWEEN DIFFERENT EQUIPMENT. ROLLER GAP SETTINGS FOR ANY GIVEN EQUIPMENT SHOULD BE REPEATABLE. WE STRONGLY RECOMMEND THE RESIN ADDITION BE MONITORED AND CONTROLLED BY ADJUSTMENT OF THE ROLLER GAP SETTING. ULTIMATELY IT IS THE CORRECT RESIN ADDITION WHICH IS IMPERATIVE, NOT THE ROLLER GAP.



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