

<b>Installation protocol BRAWOLINER®</b>				Page: _____		<b>Weather</b>		Deployment manager: _____								
<b>Hot curing (water)</b> <input type="checkbox"/> <b>Hot curing (steam)</b> <input type="checkbox"/>				Date: _____		Temperature: _____		Personnel: _____								
						Precipitation: _____		Col. vehicle: _____								
Place of deployment: _____				Customer: _____				Site number: _____								
TV preliminary inspection (* circle applicable)		YES *	NO *	HP cleaning	YES	NO	Daytime cordoning off		YES	NO						
TV post-inspection		YES	NO	Calibration	YES	NO	Milling work		YES	NO						
DN:	Length:	Material:			From shaft:		To shaft:									
Shaft depth in [m]:		Location:			Diameter in [m]:											
Gradient (height difference) in [m]:		Type of damage:			Number / location of inlets:											
Bends:																
Number of pumps:		Qty.	Sealing balloons:	Qty.	Pump lines:	m	Distance water connection [m]:		Distance heating system [m]:							
<b>Material</b>																
Material specification by _____ Cus. <input type="checkbox"/> Cont./site manager <input type="checkbox"/> Cont./polisher <input type="checkbox"/> Comments: _____																
<b>Liner</b>		Brawoliner <input type="checkbox"/>	Brawoliner 3D <input type="checkbox"/>	HT variant <input type="checkbox"/>	Nominal diameter DN: _____			<b>Resin</b>		Batch No.: Comp. A: _____						
		Brawoliner XT <input type="checkbox"/>	Connection sl. <input type="checkbox"/>		Batch number case: _____					Batch No.: Comp. B: _____						
										<b>Brawo</b>						
										I	III	HT	AC	TC	RR	SRR
<b>Installation</b>																
Preliner used		YES	NO	<u>Comments:</u>								<b>Sketch</b>				
End		Open	Sleeve	Closed												
Calibration hose		YES	NO													
Waste water-free?		YES	NO													
Resin storage temperature (TARGET: 5°C - 30°C):																
Resin temperature before installation (TARGET: 13 - 15°C):																
Mixing ratio [A:B]:																
Resin quantity in [kg/m]:		Total [kg] TARGET:		A [kg] ACTUAL:		B [kg] ACTUAL:										
Mixing time (TARGET: 3 min):		min		roller spacing TARGET: mm		roller spacing ACTUAL: mm										
vacuum (TARGET: 0,5 bar, 5 min. before/during impregnation)		bar														
Processing time in Liner:		Brawo I (max. approx. 50 min at 15°C)		Mixing start:		Installation time:										
		Brawo III (max. approx. 3.5 h at 15°C)		Mixing start:		Installation time:										
		Brawo HT (max. approx. 70 min at 20°C)		Mixing start:		Installation time:										
		Brawo RR (max. approx. 30 min at 15°C)		Mixing start:		Installation time:										
		Brawo AC (max. ca. 2-2,5 h bei 15 °C)		Mixing start:		Installation time:										
		Brawo TC (max. ca. 8 h bei 15 °C)		Mixing start:		Installation time:										
Inversion pressure (TARGET: 0.2 - 0.3 bar):				bar		Inversion with water column (TARGET: 2 - 3 m):						m				
<b>Curing</b>																
Curing condition:		HOT		Water		Steam		COLD								
Curing temperature:		°C														
Curing time hot:		Brawo I (approx. 45 min at 70°C)		Brawo III/AC (approx. 140 min at 70°C)		Brawo TC (approx. 300 min at 70°C)		Brawo HT (approx. 80 min at 70°C)		-						
Curing time hot:		Brawo I (approx. 100 min at 50°C)		Brawo III/AC (approx. 220 min at 50°C)		Brawo TC (approx. 540 min at 60°C)		Brawo HT (approx. 140 min at 50°C)		Brawo RR (approx. 75 min at 50°C) BRAWO SRR (appr. 50 min at 50°C)						
Curing time cold:		Brawo I (approx. 13 h at 10°C)		Brawo III/AC (approx. 24 h at 10°C)		-		Brawo HT (approx. 20 h)		Brawo RR (approx. 6 h at 10°C) BRAWO SRR (appr. 2 h at 20°C)						
Curing time ACTUAL:																
Curing pressure (TARGET 0.3 - 0.4 bar):		bar		Water column (TARGET: 3 - 4 m):		m										