



## Declaration of Performance CE N° 19.2\_EN

1. **Armed Pipe – Class II.**
2. Type, dimensions and production date identified in the product/ package.  
(Unique identification code of the product type)
3. Intended use is the conveyance of sewage, rainwater and surface under gravity or occasionally at low head of pressure, in pipelines that are generally buried.  
(Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11 (4))
4. ACL - A Cimenteira do Louro, S.A., Monte do Louro, Louro, Ap.163, 4761-926 V. N. Famalicão.  
(Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to article 11 (5))
5. Not Relevant.  
(Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in article 12 (2))
6. System of assessment and verification of constancy of performance 4.  
(System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V)
7. Declaration of Performance relating to the harmonized standard  
**EN 1916:2002+AC:2003/2006/2008.**  
(In case of the declaration of performance concerning a construction product covered by a harmonised standard)
8. Not Relevant.  
(In case of the declaration of performance concerning a construction product covered for which a European Technical Assessment has been issued)
9. Declared Performance:

Essential Characteristics		Performance			Harmonised Technical Specification
Watertightness		No leakage of pipe at 50 kPa (0.5 bar) internally			EN 1916:2002 +AC:2003/2006/2008.
Longitudinal Bending Strength		Dimensionally Adequate			
Durability		Adequate for normal serviceability conditions			
Durability of Joints		Demonstrated according to Method 1			
Crushing Strength	2000 mm	Resistance Class		Minimum Resistance (kN/m)	
	Ø500x2000	ASTM	EN 1916		
	Ø600x2000	II	75		
	Ø800x2000				45,0
	Ø1000x2000				60,0
	Ø1200x2000				75,0
Ø1500x2000	90,0				
			112,5		

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Manuel Leitão Oliveira e Silva, Chairman of the Board, signed for and behalf of the manufacturer.

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Louro, 3th June 2013

(Signature)





**Declaration of Performance CE N° 19.3\_EN**

1. **Armed Pipe – Class III.**
2. Type, dimensions and production date identified in the product/ package.  
(Unique identification code of the product type)
3. Intended use is the conveyance of sewage, rainwater and surface under gravity or occasionally at low head of pressure, in pipelines that are generally buried.  
(Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11 (4))
4. **ACL - A Cimenteira do Louro, S.A., Monte do Louro, Louro, Ap.163, 4761-926 V. N. Famalicão.**  
(Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to article 11 (5))
5. **Not Relevant.**  
(Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in article 12 (2))
6. **System of assessment and verification of constancy of performance 4.**  
(System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V)
7. **Declaration of Performance relating to the harmonized standard EN 1916:2002+AC:2003/2006/2008.**  
(In case of the declaration of performance concerning a construction product covered by a harmonised standard)
8. **Not Relevant.**  
(In case of the declaration of performance concerning a construction product covered for which a European Technical Assessment has been issued)
9. **Declared Performance:**

Essential Characteristics		Performance			Harmonised Technical Specification
Watertightness		No leakage of pipe at 50 kPa (0.5 bar) Internally			EN 1916:2002 +AC:2003/2006/2008.
Longitudinal Bending Strength		Dimensionally Adequate			
Durability		Adequate for normal serviceability conditions			
Durability of Joints		Demonstrated according to Method 1			
Crushing Strength	2000 mm	Resistance Class		Minimum Resistance (kN/m)	
	Ø500x2000	ASTM	EN 1916	50,0	
	Ø600x2000	III	100	60,0	
	Ø800x2000			80,0	
	Ø1000x2000			100,0	
	Ø1200x2000			120,0	
Ø1500x2000	150,0				

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Manuel Leitão Oliveira e Silva, Chairman of the Board, signed for and on behalf of the manufacturer.

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Louro, 3th June 2013

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(Signature)





**Declaration of Performance CE N° 19.5\_EN**

1. **Armed Pipe – Class IV.**
2. Type, dimensions and production date identified in the product/ package.  
(Unique identification code of the product type)
3. Intended use is the conveyance of sewage, rainwater and surface under gravity or occasionally at low head of pressure, in pipelines that are generally buried.  
(Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11 (4))
4. **ACL - A Cimenteira do Louro, S.A., Monte do Louro, Louro, Ap.163, 4/61-926 V. N. Famalicão.**  
(Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to article 11 (5))
5. **Not Relevant.**  
(Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in article 12 (2))
6. **System of assessment and verification of constancy of performance 4.**  
(System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V)
7. Declaration of Performance relating to the harmonized standard  
**EN 1916:2002+AC:2003/2006/2008.**  
(In case of the declaration of performance concerning a construction product covered by a harmonised standard)
8. **Not Relevant.**  
(In case of the declaration of performance concerning a construction product covered for which a European Technical Assessment has been issued)
9. Declared Performance:

Essential Characteristics		Performance		Harmonised Technical Specification	
Watertightness		No leakage of pipe at 50 kPa (0.5 bar) Internally		EN 1916:2002 +AC:2003/2006/2008.	
Longitudinal Bending Strength		Dimensionally Adequate			
Durability		Adequate for normal serviceability conditions			
Durability of Joints		Demonstrated according to Method 1			
Crushing Strength	2000 mm	Resistance Class			Minimum Resistance (kN/m)
		ASTM	EN 1916		
	Ø300x2000	IV	150		45,0
	Ø400x2000				60,0
	Ø500x2000				75,0
	Ø600x2000				90,0
	Ø800x2000			120,0	
	Ø1000x2000			150,0	
Ø1200x2000	180,0				
Ø1500x2000	225,0				

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4, Manuel Leitão Oliveira e Silva, Chairman of the Board, signed for and behalf of the manufacturer.

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Louro, 3th June 2013

(Signature)





**Declaration of Performance CE N° 19.6\_EN**

1. **Armed Pipe – Class V.**
2. **Type, dimensions and production date identified in the product/ package.**  
(Unique identification code of the product type)
3. **Intended use is the conveyance of sewage, rainwater and surface under gravity or occasionally at low head of pressure, in pipelines that are generally buried.**  
(Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11 (4))
4. **ACL - A Cimenteira do Louro, S.A., Monte do Louro, Louro, Ap.163, 4761-926 V. N. Famalicão.**  
(Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to article 11 (5))
5. **Not Relevant.**  
(Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in article 12 (2))
6. **System of assessment and verification of constancy of performance 4.**  
(System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V)
7. **Declaration of Performance relating to the harmonized standard**  
**EN 1916:2002+AC:2003/2006/2008.**  
(In case of the declaration of performance concerning a construction product covered by a harmonised standard)
8. **Not Relevant.**  
(In case of the declaration of performance concerning a construction product covered for which a European Technical Assessment has been issued)
9. **Declared Performance:**

Essential Characteristics		Performance		Harmonised Technical Specification		
Watertightness		No leakage of pipe at 50 kPa (0.5 bar) internally		EN 1916:2002 +AC:2003/2006/2008.		
Longitudinal Bending Strength		Dimensionally Adequate				
Durability		Adequate for normal serviceability conditions				
Durability of Joints		Demonstrated according to Method 1				
Crushing Strength	2000 mm	Resistance Class			Minimum Resistance (kN/m)	
		ASTM	EN 1916			
	Ø300x2000	V	175			52,5
	Ø400x2000					70,0
	Ø500x2000					87,5
	Ø600x2000					105,0
	Ø800x2000			140,0		
	Ø1000x2000			175,0		
Ø1200x2000	210,0					
Ø1500x2000	265,0					

10. **The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Manuel Leitão Oliveira e Silva, Chairman of the Board, signed for and behalf of the manufacturer.**

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