



**CERTIFICATE OF QUALITY
GEOMEMBRANES**

Nature of the decision : Renewal
 Validity of the décision : 17/05/2019 to 26/09/2021 ⁽¹⁾

ASQUAL certify that geomembrane

Commercial Name : COLETANCHE XP2
 Labelled on roll as : COLETANCHE XP2
 Maximum production width : 5,2 m
Distributeur : AXTER S.A.S
 Producer : AXTER S.A.S
 Adress : Rue Joseph Coste - F- 59552
 Manufacturing place : COURCHELETTES (59)

is in compliance with Technical Rules of Certification "Geomembranes" revision n° 14 of 17/05/2018.

MODIFIED BITUMEN		Declared Value	95% relative range					
			Min		Max			
Descriptive Characteristics	Functional thickness (EN 1849-1)							
	<input type="checkbox"/> Smooth (average value) (mm)	3,00	3,00		3,45			
	<input type="checkbox"/> Minimum individual value (mm)	2,70						
Mecanical Characteristics	Static puncture (NF P84-507)							
	<input type="checkbox"/> Strength (N)	450	405		-			
	<input type="checkbox"/> Displacement (mm)	14,0	11,9		-			
	Tensile strength (EN 12311-2)		MD	CD⁽³⁾	MD	CD		
	<input type="checkbox"/> Strength at 15% elongation(kN/m)		15,0	13,0	12,8	11,1	-	-
	<input type="checkbox"/> Strength at break (kN/m)		22,0	18,0	18,7	15,3	-	-
	<input type="checkbox"/> Elongation at break (%)		35,0	35,0	28,0	28,0	-	-

MD : Machine Direction CD: Cross Direction

		measured values
Hydraulic Caractéristiques ⁽²⁾⁽³⁾	Water permeability (NF EN 14150)	$< 10^{-6} \text{ m}^{-3} \cdot \text{m}^{-2} \cdot \text{j}^{-1}$
Weldability ⁽³⁾	Tensile and shear (NF P84-501 and NF P84-502-1)	Compliant with welding factor or tensile strength

Recommendations of the producer for the realization of the welds (available on request from the producer):

Filler Materials not applicable
 Temperature not applicable

The tests are carried out according to the norms quoted completed by the collection of procedures and do not correspond to the conditions of building sites

(1) Subject to ASQUAL's controls and unless withdrawn, suspended or modified. Cancel and replace any previous certificate. Only a product stamped with the ASQUAL logo and present on the list available on the site www.asqual.com can take advantage of this certificate.

(2) This characteristic is measured on the smallest thickness of the family.

(3) This characteristics is not tested at renewal

Approved by director
 P.LEBON

ASQUAL certification "Geomembranes" does not guarantee the suitability of the certified product to the technical constraints of the project. This mission is the responsibility of the designers who, after sizing their needs, specify the appropriate products to the sites, on the basis of their technical characteristics. It is up to the designer to fully carry out his mission and determine the performance required for the application in question, which may justify the use of specific products. ASQUAL can not be held responsible for any problems arising from a mismatch of the certified product with its application. It is recommended that designers refer on leaflet 10 from CFG.



ASQUAL LE PROGRÈS PAR LA QUALITÉ CERTIFIÉE

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Association Qualité sans but lucratif



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GEOMEMBRANES**

Nature of the decision : Renewal
 Validity of the décision : 17/05/2019 to 26/09/2021 ⁽¹⁾
 ASQUAL certify that geomembrane
Commercial Name **COLETANCHE XP3**
 Labelled on roll as COLETANCHE XP3
 Maximum production width : 5,2 m
Distributeur : **AXTER S.A.S**
 Producer : AXTER S.A.S
 Address : Rue Joseph Coste - F- 59552
 Manufacturing place COURCHELETTES (59)

is in compliance with Technical Rules of Certification "Geomembranes" revision n° 14 of 17/05/2018.

MODIFIED BITUMEN		Declared Value	95% relative range					
			Min		Max			
Descriptive Characteristics	Functional thickness (EN 1849-1) <input type="checkbox"/> Smooth (average value) (mm)	3,50	3,50		4,03			
	<input type="checkbox"/> Minimum individual value (mm)	3,15						
Mecanical Characteristics	Static puncture (NF P84-507) <input type="checkbox"/> Strength (N)	530	477		-			
	<input type="checkbox"/> Displacement (mm)	14,0	11,9		-			
	Tensile strength (EN 12311-2)		MD	CD ⁽³⁾	MD	CD	MD	CD
	<input type="checkbox"/> Strength at 15% elongation(kN/m)		19,0	16,0	16,2	13,6	-	-
	<input type="checkbox"/> Strength at break (kN/m)		25,0	21,8	21,3	18,5	-	-
	<input type="checkbox"/> Elongation at break (%)		35,0	35,0	28,0	28,0	-	-

MD : Machine Direction CD: Cross Direction

		measured values
Hydraulic Caractéristiques ⁽²⁾⁽³⁾	Water permeability (NF EN 14150)	$< 10^{-6} \text{ m}^{-3} \cdot \text{m}^{-2} \cdot \text{j}^{-1}$
Weldability ⁽³⁾	Tensile and shear (NF P84-501 and NF P84-502-1)	Compliant with welding factor or tensile strength

Recommendations of the producer for the realization of the welds (available on request from the producer):
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