

Declaration of Performance
No.: GEOLON® FW180 2021-09-23

1. Unique identification code of product type: GEOLON® FW

2. Product type : GEOLON® FW180

3. Intended use:

EN 13249:2016 Roads and other trafficked areas (excluding railways and asphalt inclusion)
EN 13250:2016 Railways
EN 13251:2016 Earthworks, foundations and retaining structures
EN 13252:2016 Drainage systems
EN 13253:2016 Erosion control works (coastal protection, bank revetments)

EN 13254:2016 Reservoirs and dams
EN 13255:2016 Canals
EN 13257:2016 Solid waste disposals
EN 13265:2016 Liquid waste disposals

Functions: Reinforcement | Separation | Filtration

4. Contact address:

TenCate Geosynthetics Netherlands bv
Europalaan 206, 7559 SC Hengelo, Netherlands
phone: + 31 546 544811; www. tencategeo.eu; service.nl@tencategeo.com

5. System or systems of assessment: System 2+

ESSENTIAL CHARACTERISTICS	PERFORMANCE		Test standard	Harmonised technical specifications
	Mean value	Tolerance		
Tensile strength, T_{max} MD	40 kN/m	- 10 kN/m	EN ISO 10319	EN 13249:2016
Tensile strength, T_{max} CMD	40 kN/m	- 10 kN/m	EN ISO 10319	EN 13250:2016
Elongation, ϵ_{max} MD	25%	+/- 5%	EN ISO 10319	EN 13251:2016
Elongation, ϵ_{max} CMD	25%	+/- 5%	EN ISO 10319	EN 13252:2016
Cone drop penetration, D_c	10 mm	+ 2 mm	EN ISO 13433	EN 13253:2016
Static puncture resistance, F_p	6000N	- 1500N	EN ISO 12236	EN 13254:2016
Characteristic opening size, O_{90}	180 μ m	+/- 55 μ m	EN ISO 12956	EN 13255:2016
Water permeability, q_{95}	50 l/m ² s	-16 l/m ² s	EN ISO 11058	EN 13257:2016
Weathering resistance	To be covered within 1 month after installation.		EN 12224	EN 13265:2016
OXIDATION RESISTANCE	Predicated to be durable in a minimum of 100 years in natural soils with 4<pH<9 and soil temperature <25 °C.		EN ISO 13438	
Has passed the following tests: 1) Weathering resistance EN 12224. 2) Resistance to oxidation EN ISO 13438.				

6. In case of the declaration of performance (DoP) concerning a construction product covered by a harmonized standard:

Notified Body No. 0799 Kiwa GmbH TBU, 48268 Greven performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control under system 2+.

7. Declared performance :

8. Declaration:

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Ingrid Voost (QHSE Manager EMEA)
(name and function)

Hengelo, 2021-09-23
(place and date of issue)



(signature)