

TenCate GeoDetect® S-BR sensor-enabled geotextile

Installation safety instructions

1. Storage

- Keep the TenCate GeoDetect® S-BR rolls fixed on its original wooden palette in dry and safe conditions until it is installed.
- Do not place heavy loads on top.

2. Preparation of the monitoring area

This part must be carried out before the installation of the TenCate GeoDetect® S-BR.

- The area to be monitored has to be prepared prior the installation of the TenCate GeoDetect® S-BR sensor.
- According to the design, precisely identify the area to be monitored on site, the position of the strips (start, curves and end) and the location of the junction boxes and junction cables.
- The support soil must be flat, have a smooth and uniform surface, preferably compacted, and free from aggressive elements (stone or roots); the surface roughness must be less than 10 mm. If this is not the case, place a 5-10 cm thick layer of fine soil ($d_{100} < 10$ mm) at the interface between the support soil and the TenCate GeoDetect® S-BR strip.
- The minimum width of the rolling area is 1 m.
- Prepare a sufficient amount of fine soil close to the installation area to cover, ballast and protect the strip once it is installed.

3. Handling

This part must be carried out the day of installation, by or with the supervision of a TenCate GeoDetect® installer.

- Move the palette to the installation area.
- Place the palette safely on a flat and horizontal area near the starting point of the monitoring section.
- Gently remove the wrapping around the TenCate GeoDetect® S-BR roll.

Date : 29 December 2011

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S.A.S. au capital de 6 475 000 €
RCS Pontoise B 353 782 410
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Code APE 1395Z
N° identification FR 14 353 782 410



- Don't pull on the yellow cables with pigtails connected to the strip, if any.
- Take care of the pigtails that could be placed inside the mandrel.



4. Installation

This part must be carried out by or with the supervision of a TenCate GeoDetect® installer.

- Lift the strip carefully from the palette to the start point. Use two lifting belts to be placed around the roll outside the optical cables or a steel bar inserted into the mandrel without damaging the optical cables inside if any.
- Unroll an extra length of strip required for the connection.
- Unroll by lifting the strip or by rolling manually the strip on top of the support soil. Prevent any folding of the TenCate GeoDetect® S-BR material during installation. If folding were to occur, smooth the fabric by gently pulling on the strip. Excessive pulling on the strip may induce unwanted strain to the optical cables.
- Don't walk on the strip, or on the external patch cords.
- When unrolled, immediately ballast the strip with minimum 5 cm of fine soil ($d_{100} < 10$ mm). Remove any folds before covering.



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Read carefully before installation

- The first 30 cm of top soil top should not include stones larger than 20 mm.
- If necessary, compact the first 30 cm top layer with a light weight hand operated compactor.
- Continuously check the continuity and the optical performance of the optical lines with an OTDR.



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5. Connection

This part must be carried out by a TenCate GeoDetect® installer.

- The optical cables of the TenCate GeoDetect® S-BR material and the optical junction cables are connected together by means of fusion splicing.
- The splices are protected with protection sleeves and placed into watertight junction boxes
- The junction boxes are placed inside manholes.
- The optical junction cable is protected by a plastic conduit.
- Check continuously the continuity and the optical performance of the optical lines and connections with an OTDR.



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