



Asset Acceptance

Engineering Advisory Note EAN 05

Approval process for use of BlackMAX polypropylene pipe

Background:

Asset Acceptance provides a Certificate of Design Acceptance for all new developments that create gifted Territory assets. The Design Acceptance includes approval of the Stormwater design.

This EAN05, is to be used if, after a design has been approved, the developer, consultant or contractor wishes to substitute the approved pipe material with BlackMAX.

Advice:

There are two scenarios, where BlackMAX polypropylene pipe may be incorporated into a design.

Scenario 1

A stormwater system is initially designed with BlackMAX polypropylene pipe and the design is certified by either a Chartered Engineer or an Engineer who is listed on the National Professional Engineers Register (NPER) as being compliant with TAMS Standards and specifications, including the additional requirements detailed in this EAN.

In this case BlackMAX may be used subject to compliance with relevant standards and specifications and additional requirements listed in this document.

Scenario 2

If, after a design has been approved, the developer, consultant or contractor wishes to substitute the approved pipe material (e.g. RCP) with BlackMAX. The design must be reviewed by the original design consultant, to ensure that the design can be amended to comply with the requirements of this EAN and without compromising the integrity of the original certified design. The revised design must be submitted to Asset Acceptance for consideration, prior to construction. If the design satisfies TAMS requirements, a revised Certificate of Design Acceptance will be issued.

The following information is to be included in the submission:

1. A written request from the developer to change the pipe material.
2. Confirmation from the original designer that they do not object to the use of BlackMAX polypropylene pipe in their design.
3. A Certification, to cover the amended design, from either a Chartered Engineer or an Engineer who is listed on the National Professional Engineers Register (NPER)

Note: For both scenarios, additional BlackMax polypropylene pipe requirements are provided below:

1. The design must assess the likely construction traffic loads and provide adequate cover to minimise the likelihood of damage during construction.
2. When backfilling a trench with BlackMAX, the contractor is to ensure that the pipe is not displaced by the material placed in the bedding sides and haunch, and that pipes longitudinal and lateral grades are maintained as specified.
3. TAMS does not support the use of BlackMAX pipe under roads.
4. TAMS does not support the use of BlackMAX pipe under civil structures, in the event of the pipe failing, would require excavation, demolition, redesign, new construction etc to replace or rectify the failed pipe.
5. Ovality tests shall be carried out on all pipes, to manufactures test protocol [i.e. correct diameter ovality tool is used for the period pipe has been in ground] and the test data provided to TAMS at OA submission. The test must be undertaken post backfill.
6. The Work as Executed drawings [WAE] must clearly identify the BlackMAX pipe use in the estate stage(s) and in the Asset Description forms.
7. BlackMAX pipes located in areas of intra flow [ground water] are more susceptible to floating up from the trench as the pipe weight is less than concrete pipes. Provision must be made to adequately secure BlackMAX pipes when these conditions occur.
8. The Work as Executed drawings [WAE] and Asset Description forms must clearly identify the extent of BlackMAX pipe used in the estate stage(s).
9. TAMS fees and charges may apply if changes are made to the approved design

Administrative Arrangement

This Technical Direction takes effect from date of endorsement by the Director.