

DESIGN ASSESSMENT CHECKLIST: FILTER STRIP				
GENERAL INFORMATION				
Site ID				
Asset ID(s)				
Filter strip location(s) and co-ordinates		Drawing reference(s)		
Date of assessment		Specification reference(s)		
Primary function(s) of filter strip	Conveyance/treatment			

CHECK	MDR	SUMMARY DETAILS <sup>1</sup>	ACCEPTABLE (Y/N)	COMMENTS/ REMEDIAL ACTIONS
<b>DIMENSIONS (SECTION 15.2)</b>				
Length of contributing drainage area (in direction of flow), L (m)				
Length of filter strip (in direction of flow), f (m)				
Width (m)				
Longitudinal slope (1 in ?)				
<b>INFLOWS (SECTION 15.8.1)</b>				
Provide a description of the contributing catchment land use and its size ( $m^2$ )				
Does the design include: <ul style="list-style-type: none"> <li>▪ a suitable flow spreading device?</li> <li>▪ appropriate drops from the adjacent surface into the filter strip?</li> </ul>				
<b>OUTFALL ARRANGEMENTS (SECTION 15.8.2)</b>				
Provide details of discharge arrangements from filter strip				
Is the filter strip designed to allow infiltration? If yes, attach the infiltration assessment				
Is a geomembrane required to prevent infiltration? If yes, give reason and reference specification or drawing				
Depth to maximum likely groundwater level (m)				
<b>CONVEYANCE (SECTION 15.4)</b>				
Proposed vegetation, and assumed roughness criteria (Manning's "n")				
Maximum velocity across filter strip at full flow conditions (m/s)				
Maximum water depth at full flow conditions (m)				

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<b>WATER QUALITY TREATMENT (SECTION 15.5)</b>				
For the 1-year 30-minute event confirm:				
• Flow height is acceptable for effective treatment.				
or				
• Maximum velocity is acceptable for effective treatment.				
<b>CRITICAL MATERIALS AND PRODUCT SPECIFICATIONS (SECTION 15.9)</b>				
Geomembrane				
Geotextile (non-woven)				
Topsoil				
Other (including proprietary systems):				
<b>LANDSCAPE/BIODIVERSITY (SECTIONS 15.6, 15.7 AND 15.10)</b>				
Does the proposed planting have potential to create biodiverse habitats?				
Have native plant species been used? (Note if ornamental species are proposed, give reasons, and describe measures that prevent their migration to natural water bodies.)				
Is the proposed planting appropriate to the location, visually, relative to gradient, water depths etc. and with respect to access and maintenance?				
Where relevant, confirm planting design does not adversely impact highway visibility and safety requirements (check with highway authority)				
Is the proposed topsoil profile suitable to sustain the proposed plant species and is it sufficiently permeable?				
<b>CONSTRUCTABILITY (SECTION 15.11)</b>				
Are there any identifiable construction risks? If yes, state and confirm acceptable risk management measures are proposed				
<b>MAINTAINABILITY (SECTION 15.12)</b>				
Confirm that access for maintenance is acceptable and summarise details				
Are there specific features that are likely to pose maintenance difficulties? If yes, identify mitigation measures required				

<b>FILTER STRIP DESIGN ACCEPTABILITY</b>	<b>SUMMARY DETAILS INCLUDING ANY CHANGES REQUIRED</b>	<b>ACCEPTABLE (Y/N)</b>	<b>DATE CHANGES MADE</b>
Acceptable:			
Minor changes required:			
Major changes required/redesign:			

**Note**

- 1 If there is an MDR (as indicated) confirm whether or not this is met and provide details of any variations.