







STAGE 1 WATER SENSITIVE URBAN DESIGN

WATER SENSITIVE URBAN DESIGN	
REQUIREMENTS (FROM ACT PRACTICE GUIDELINES FOR WATER SENSITIVE URBAN DESIGN: MODULE 1)	RESPONSE
<p>THIS RULE APPLIES TO ALL DEVELOPMENT CURRENTLY CONNECTED OR INTENDED TO BE CONNECTED TO MAINS WATER SUPPLY EXCEPT ANY OF THE FOLLOWING:</p> <p>A) DEVELOPMENT SUBJECT TO THE ESTATE DEVELOPMENT CODE</p> <p>B) DEVELOPMENT FOR MINOR ALTERATIONS OR EXTENSIONS INVOLVING 50% OR LESS OF THE EXISTING FLOOR AREA.</p> <p>DEVELOPMENT ACHIEVES A MINIMUM 40% REDUCTION IN MAINS WATER CONSUMPTION COMPARED TO AN EQUIVALENT DEVELOPMENT CONSTRUCTED IN 2003.</p>	<p>COMPLIES</p> <p>PLEASE REFER TO 'WATER REDUCTION COMMERCIAL' ATTACHED. THE REQUIRED REDUCTION OF 40% IS ACHIEVED BY THE USE OF A COMBINATION OF 4 & 5 STAR APPLIANCES AND A 75KL RAINWATER TANK.</p>
<p>THIS RULE APPLIES TO DEVELOPMENT FOR AT LEAST ONE OF THE FOLLOWING:</p> <p>A) DEVELOPMENT ON SITES GREATER THAN 2,000M² INVOLVING WORKS THAT HAVE THE POTENTIAL TO ALTER THE STORMWATER REGIME OF THE SITE, INCLUDING SITES SUBJECT TO THE ESTATE DEVELOPMENT CODE</p> <p>B) DEVELOPMENT WITHIN EXISTING URBAN AREAS WHICH INCREASES IMPERVIOUS AREA BY 100M².</p> <p>THIS RULE DOES NOT APPLY TO ANY OF THE FOLLOWING:</p> <p>A) DEVELOPMENT OF MAJOR ROADS</p> <p>B) SITES IDENTIFIED IN A PRECINCT CODE THAT STORMWATER RETENTION REQUIREMENTS FOR THE SITE HAVE BEEN FULLY DEALT WITH THROUGH AN ESTATE DEVELOPMENT PLAN.</p> <p>DEVELOPMENT COMPLIES WITH AT LEAST ONE OF THE FOLLOWING:</p> <p>A) STORMWATER RETENTION MANAGEMENT MEASURES ARE PROVIDED AND ACHIEVE ALL OF THE FOLLOWING:</p> <p>I) STORMWATER STORAGE CAPACITY OF 14KL PER 100M² OF THE TOTAL IMPERVIOUS AREA OF THE SITE IS PROVIDED SPECIFICALLY TO RETAIN AND REUSE STORMWATER GENERATED ON SITE AS A WHOLE</p> <p>II) RETAINED STORMWATER IS USED ON SITE</p> <p>B) DEVELOPMENT CAPTURES, STORES AND USES THE FIRST 15MM OF RAINFALL FALLING ON THE SITE.</p> <p>FOR THIS RULE, ON-SITE STORMWATER RETENTION IS DEFINED AS THE STORAGE AND USE OF STORMWATER ON SITE.</p>	<p>COMPLIES</p> <p>DEVELOPMENT IMPERVIOUS AREA IS 5,532m². RESULTING OSR REQUIREMENT OF 78KL AND OVERALL STORMWATER TANK SIZE OF 95KL.</p>
<p>THIS RULE APPLIES TO DEVELOPMENT FOR AT LEAST ONE OF THE FOLLOWING:</p> <p>A) DEVELOPMENT ON SITES GREATER THAN 2,000M² INVOLVING WORKS THAT HAVE THE POTENTIAL TO ALTER THE STORMWATER REGIME OF THE SITE, INCLUDING SITES SUBJECT TO THE ESTATE DEVELOPMENT CODE</p> <p>B) DEVELOPMENT WITHIN EXISTING URBAN AREAS WHICH INCREASES IMPERVIOUS AREA BY 100M²</p> <p>THIS RULE DOES NOT APPLY TO ANY OF THE FOLLOWING:</p> <p>A) DEVELOPMENT OF MAJOR ROADS</p> <p>B) SITES IDENTIFIED IN A PRECINCT CODE INDICATING THAT STORMWATER DETENTION REQUIREMENTS HAVE BEEN FULLY MET.</p> <p>STORMWATER DETENTION MEASURES ARE PROVIDED AND ACHIEVE ALL OF THE FOLLOWING:</p> <p>A) CAPTURE AND DIRECT RUNOFF FROM THE ENTIRE SITE</p> <p>B) STORMWATER STORAGE CAPACITY OF 1KL PER 100M² OF IMPERVIOUS AREA IS PROVIDED TO SPECIFICALLY DETAIN STORMWATER GENERATED ON SITE</p> <p>C) THE DETAINED STORMWATER IS DESIGNED TO BE RELEASED OVER A PERIOD OF 6 HOURS AFTER THE STORM EVENT.</p> <p>FOR THIS RULE ON-SITE STORMWATER DETENTION IS DEFINED AS THE SHORT TERM STORAGE AND RELEASE DOWNSTREAM OF STORMWATER RUNOFF.</p>	<p>COMPLIES</p> <p>DEVELOPMENT IMPERVIOUS AREA IS 5,532m². RESULTING OSD REQUIREMENT OF 56KL AND OVERALL STORMWATER TANK SIZE OF 95KL.</p>
<p>THIS RULE APPLIES TO DEVELOPMENT FOR ALL OF THE FOLLOWING:</p> <p>A) WHERE THE DEVELOPMENT SITE IS GREATER THAN 2,000M²</p> <p>B) WHERE DEVELOPMENT INVOLVES WORKS THAT HAVE POTENTIAL TO ALTER THE STORMWATER REGIME FOR THE SITE.</p> <p>THIS RULE DOES NOT APPLY TO DEVELOPMENT OF MAJOR ROADS.</p> <p>THE AVERAGE ANNUAL STORMWATER POLLUTANT EXPORT IS REDUCED WHEN COMPARED WITH AN URBAN CATCHMENT OF THE SAME AREA WITH NO WATER QUALITY MANAGEMENT CONTROLS FOR ALL OF THE FOLLOWING:</p> <p>A) GROSS POLLUTANTS BY AT LEAST 90%</p> <p>B) SUSPENDED SOLIDS BY AT LEAST 60%</p> <p>C) TOTAL PHOSPHOROUS BY AT LEAST 45%</p> <p>D) TOTAL NITROGEN BY AT LEAST 40%.</p>	<p>COMPLIES</p> <p>WATER QUALITY TARGETS ARE MET THROUGH USE OF ATLAN FLOWFILTER FLF 2500/10 SERIES.</p> <p>-100% REDUCTION OF GROSS POLLUTANTS</p> <p>-96.3% REDUCTION OF SUSPENDED SOLIDS</p> <p>-92.7% REDUCTION OF TOTAL PHOSPHORUS</p> <p>-50.4% REDUCTION OF TOTAL NITROGEN</p>
<p>THIS RULE APPLIES TO AT LEAST ONE OF THE FOLLOWING DEVELOPMENTS:</p> <p>A) DEVELOPMENT ON SITES GREATER THAN 2000M² INVOLVING WORKS THAT HAVE POTENTIAL TO ALTER THE STORMWATER REGIME FOR THE SITE</p> <p>B) DEVELOPMENT WITHIN EXISTING URBAN AREAS THAT INCREASE THE IMPERVIOUS AREA OF THE SITE BY 100M² OR MORE.</p> <p>DEVELOPMENT ACHIEVES A MINIMUM OF 20% OF THE SITE AREA TO BE PERMEABLE.</p> <p>OR</p> <p>IT IS DEMONSTRATED THAT THE DEVELOPMENT ACHIEVES ALL OF THE FOLLOWING:</p> <p>A) INCREASES PERMEABLE SURFACES AND LIVING INFRASTRUCTURE THROUGH GREEN SPACES</p> <p>B) PLANTS THAT REQUIRE IRRIGATION ARE SUPPORTED BY SUSTAINABLE WATER SYSTEMS SUCH AS ONSITE STORMWATER HARVESTING TO ACHIEVE MICROCLIMATE BENEFITS</p> <p>C) PROMOTES EVAPOTRANSPIRATION TO MITIGATE EXTREME TEMPERATURES, IMPROVE AIR HUMIDITY AND OVERALL HUMAN COMFORT.</p>	<p>THE DEVELOPMENT ACHIEVES THE DESIGN INTENT WITH A DEVELOPMENT PERMEABLE AREA OF 20%</p>

STAGE 1 WATER REDUCTION COMMERCIAL

Percentage Reduction	=	40%
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Indoor information	
What is the Net Lettable Floor Area (m ²)?	1,407
What is the water rating of the shower head?	4 Star 
What is the water rating of the dishwashers?	4 Star 
What is the water rating of the sink in the kitchen?	5 Star 
What is the water rating of the toilets?	4 Star 
What is the water rating of the urinals?	5 Star 
What is the water rating of the basins in the bathroom?	5 Star 

Site information	
Site area (m ²)?	6,858
Roof area (including house and garage or carport) (m ²)?	2,514
Irrigated garden area (m ²)?	50

Rain water tank information	
Is there going to be a water tank installed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the size of the tank (L)?	78,000
What is the approx. roof area flowing into the tank (m ²)?	2,514
What will be the use for the water in the tank?	<input type="text" value="Garden"/>
What is the % of Toilets connected to Rain Water?	0%
What is the % of Urinals connected to Rain Water?	0%

STAGE 2 WATER SENSITIVE URBAN DESIGN





<p style="text-align: center;">WATER SENSITIVE URBAN DESIGN</p> <p>REQUIREMENTS (FROM ACT PRACTICE GUIDELINES FOR WATER SENSITIVE URBAN DESIGN: MODULE 1)</p>		RESPONSE
<p>THIS RULE APPLIES TO ALL DEVELOPMENT CURRENTLY CONNECTED OR INTENDED TO BE CONNECTED TO MAINS WATER SUPPLY EXCEPT ANY OF THE FOLLOWING:</p> <p>A) DEVELOPMENT SUBJECT TO THE ESTATE DEVELOPMENT CODE</p> <p>B) DEVELOPMENT FOR MINOR ALTERATIONS OR EXTENSIONS INVOLVING 50% OR LESS OF THE EXISTING FLOOR AREA.</p> <p>DEVELOPMENT ACHIEVES A MINIMUM 40% REDUCTION IN MAINS WATER CONSUMPTION COMPARED TO AN EQUIVALENT DEVELOPMENT CONSTRUCTED IN 2003.</p>	COMPLIES	<p>PLEASE REFER TO 'WATER REDUCTION RESIDENTIAL' ATTACHED. THE REQUIRED REDUCTION OF 40% IS ACHIEVED BY THE USE OF A COMBINATION OF 3, 4 & 5 STAR APPLIANCES AND A 39KL RAINWATER TANK.</p>
<p>THIS RULE APPLIES TO DEVELOPMENT FOR AT LEAST ONE OF THE FOLLOWING:</p> <p>A) DEVELOPMENT ON SITES GREATER THAN 2,000M² INVOLVING WORKS THAT HAVE THE POTENTIAL TO ALTER THE STORMWATER REGIME OF THE SITE, INCLUDING SITES SUBJECT TO THE ESTATE DEVELOPMENT CODE</p> <p>B) DEVELOPMENT WITHIN EXISTING URBAN AREAS WHICH INCREASES IMPERVIOUS AREA BY 100M².</p> <p>THIS RULE DOES NOT APPLY TO ANY OF THE FOLLOWING:</p> <p>A) DEVELOPMENT OF MAJOR ROADS</p> <p>B) SITES IDENTIFIED IN A PRECINCT CODE THAT STORMWATER RETENTION REQUIREMENTS FOR THE SITE HAVE BEEN FULLY DEALT WITH THROUGH AN ESTATE DEVELOPMENT PLAN.</p> <p>DEVELOPMENT COMPLIES WITH AT LEAST ONE OF THE FOLLOWING:</p> <p>A) STORMWATER RETENTION MEASURES ARE PROVIDED AND ACHIEVE ALL OF THE FOLLOWING:</p> <p>I) STORMWATER DETENTION CAPACITY OF 1KL PER 100M² OF THE TOTAL IMPERVIOUS AREA OF THE SITE IS PROVIDED SPECIFICALLY TO RETAIN AND REUSE STORMWATER GENERATED ON SITE AS A WHOLE</p> <p>II) RETAINED STORMWATER IS USED ON SITE</p> <p>B) DEVELOPMENT CAPTURES, STORES AND USES THE FIRST 15MM OF RAINFALL FALLING ON THE SITE.</p> <p>FOR THIS RULE, ON-SITE STORMWATER RETENTION IS DEFINED AS THE STORAGE AND USE OF STORMWATER ON SITE.</p>	COMPLIES	<p>DEVELOPMENT IMPERVIOUS AREA IS 2,751m². RESULTING OSR REQUIREMENT OF 39KL AND OVERALL STORMWATER TANK SIZE OF 47KL.</p>
<p>THIS RULE APPLIES TO DEVELOPMENT FOR AT LEAST ONE OF THE FOLLOWING:</p> <p>A) DEVELOPMENT ON SITES GREATER THAN 2,000M² INVOLVING WORKS THAT HAVE THE POTENTIAL TO ALTER THE STORMWATER REGIME OF THE SITE, INCLUDING SITES SUBJECT TO THE ESTATE DEVELOPMENT CODE</p> <p>B) DEVELOPMENT WITHIN EXISTING URBAN AREAS WHICH INCREASES IMPERVIOUS AREA BY 100M²</p> <p>THIS RULE DOES NOT APPLY TO ANY OF THE FOLLOWING:</p> <p>A) DEVELOPMENT OF MAJOR ROADS</p> <p>B) SITES IDENTIFIED IN A PRECINCT CODE INDICATING THAT STORMWATER DETENTION REQUIREMENTS HAVE BEEN FULLY MET.</p> <p>STORMWATER DETENTION MEASURES ARE PROVIDED AND ACHIEVE ALL OF THE FOLLOWING:</p> <p>A) CAPTURE AND DIRECT RUNOFF FROM THE ENTIRE SITE</p> <p>B) STORMWATER STORAGE CAPACITY OF 1KL PER 100M² OF IMPERVIOUS AREA IS PROVIDED TO SPECIFICALLY DETAIN STORMWATER GENERATED ON SITE</p> <p>C) THE DETAINED STORMWATER IS DESIGNED TO BE RELEASED OVER A PERIOD OF 6 HOURS AFTER THE STORM EVENT.</p> <p>FOR THIS RULE ON-SITE STORMWATER DETENTION IS DEFINED AS THE SHORT TERM STORAGE AND RELEASE DOWNSTEAM OF STORMWATER RUNOFF.</p>	COMPLIES	<p>DEVELOPMENT IMPERVIOUS AREA IS 2,751m². RESULTING OSD REQUIREMENT OF 28KL AND OVERALL STORMWATER TANK SIZE OF 47KL.</p>
<p>THIS RULE APPLIES TO DEVELOPMENT FOR ALL OF THE FOLLOWING:</p> <p>A) WHERE THE DEVELOPMENT SITE IS GREATER THAN 2,000M²</p> <p>B) WHERE DEVELOPMENT INVOLVES WORKS THAT HAVE POTENTIAL TO ALTER THE STORMWATER REGIME FOR THE SITE.</p> <p>THIS RULE DOES NOT APPLY TO DEVELOPMENT OF MAJOR ROADS.</p> <p>THE AVERAGE ANNUAL STORMWATER POLLUTANT EXPORT IS REDUCED WHEN COMPARED WITH AN URBAN CATCHMENT OF THE SAME AREA WITH NO WATER QUALITY MANAGEMENT CONTROLS FOR ALL OF THE FOLLOWING:</p> <p>A) GROSS POLLUTANTS BY AT LEAST 90%</p> <p>B) SUSPENDED SOLIDS BY AT LEAST 60%</p> <p>C) TOTAL PHOSPHOROUS BY AT LEAST 45%</p> <p>D) TOTAL NITROGEN BY AT LEAST 40%.</p>	COMPLIES	<p>WATER QUALITY TARGETS ARE MET THROUGH USE OF ATLAN FLOWFILTER FLF 250010 SERIES:</p> <p>-100% REDUCTION OF GROSS POLLUTANTS</p> <p>-97.4% REDUCTION OF SUSPENDED SOLIDS</p> <p>-94.2% REDUCTION OF TOTAL PHOSPHORUS</p> <p>-51.3% REDUCTION OF TOTAL NITROGEN</p>
<p>THIS RULE APPLIES TO AT LEAST ONE OF THE FOLLOWING DEVELOPMENTS:</p> <p>A) DEVELOPMENT ON SITES GREATER THAN 2000M² INVOLVING WORKS THAT HAVE POTENTIAL TO ALTER THE STORMWATER REGIME FOR THE SITE</p> <p>B) DEVELOPMENT WITHIN EXISTING URBAN AREAS THAT INCREASE THE IMPERVIOUS AREA OF THE SITE BY 100M² OR MORE.</p> <p>DEVELOPMENT ACHIEVES A MINIMUM OF 20% OF THE SITE AREA TO BE PERMEABLE.</p> <p>OR</p> <p>IT IS DEMONSTRATED THAT THE DEVELOPMENT ACHIEVES ALL OF THE FOLLOWING:</p> <p>A) INCREASES PERMEABLE SURFACES AND LIVING INFRASTRUCTURE THROUGH GREEN SPACES</p> <p>B) PLANTS THAT REQUIRE IRRIGATION ARE SUPPORTED BY SUSTAINABLE WATER SYSTEMS SUCH AS ONSITE STORMWATER HARVESTING TO ACHIEVE MICROCLIMATE BENEFITS</p> <p>C) PROMOTES EVAPOTRANSPIRATION TO MITIGATE EXTREME TEMPERATURES, IMPROVE AIR HUMIDITY AND OVERALL HUMAN COMFORT.</p>	COMPLIES	<p>THE DEVELOPMENT ACHIEVES THE DESIGN INTENT WITH</p> <p>A) DEEP-ROOTED PLANTING ZONES, ROOF GARDENS AND PERMANENT PLANTING BOXES THAT WILL ADD TO LIVING INFRASTRUCTURE THROUGH GREEN SPACES, SHADING OF STRUCTURE AND A REDUCED HEAT ISLAND EFFECT.</p> <p>B) PLANTS DO NOT REQUIRE IRRIGATION AFTER ESTABLISHMENT.</p> <p>C) THE LANDSCAPE DESIGN PROVIDES APPROPRIATE LIVING INFRASTRUCTURE WITHIN THE SITE TO PROMOTE GREEN SPACES. LIGHT COLOURED FINISHES HAVE BEEN SELECTED TO REDUCE THE HEAT ISLAND EFFECT. OPPORTUNITIES FOR SHADING HAVE BEEN PRIORITISED.</p>

STAGE 3 WATER SENSITIVE URBAN DESIGN

WATER SENSITIVE URBAN DESIGN	
REQUIREMENTS (FROM ACT PRACTICE GUIDELINES FOR WATER SENSITIVE URBAN DESIGN: MODULE 1)	RESPONSE
<p>THIS RULE APPLIES TO ALL DEVELOPMENT CURRENTLY CONNECTED OR INTENDED TO BE CONNECTED TO MAINS WATER SUPPLY EXCEPT ANY OF THE FOLLOWING:</p> <p>A) DEVELOPMENT SUBJECT TO THE ESTATE DEVELOPMENT CODE</p> <p>B) DEVELOPMENT FOR MINOR ALTERATIONS OR EXTENSIONS INVOLVING 50% OR LESS OF THE EXISTING FLOOR AREA.</p> <p>DEVELOPMENT ACHIEVES A MINIMUM 40% REDUCTION IN MAINS WATER CONSUMPTION COMPARED TO AN EQUIVALENT DEVELOPMENT CONSTRUCTED IN 2003.</p>	<p>COMPLIES</p> <p>PLEASE REFER TO 'WATER REDUCTION COMMERCIAL' ATTACHED. THE REQUIRED REDUCTION OF 40% IS ACHIEVED BY THE USE OF A COMBINATION OF 4 & 5 STAR APPLIANCES AND A 51KL RAINWATER TANK.</p>
<p>THIS RULE APPLIES TO DEVELOPMENT FOR AT LEAST ONE OF THE FOLLOWING:</p> <p>A) DEVELOPMENT ON SITES GREATER THAN 2,000M² INVOLVING WORKS THAT HAVE THE POTENTIAL TO ALTER THE STORMWATER REGIME OF THE SITE, INCLUDING SITES SUBJECT TO THE ESTATE DEVELOPMENT CODE</p> <p>B) DEVELOPMENT WITHIN EXISTING URBAN AREAS WHICH INCREASES IMPERVIOUS AREA BY 100M².</p> <p>THIS RULE DOES NOT APPLY TO ANY OF THE FOLLOWING:</p> <p>A) DEVELOPMENT OF MAJOR ROADS</p> <p>B) SITES IDENTIFIED IN A PRECINCT CODE THAT STORMWATER RETENTION REQUIREMENTS FOR THE SITE HAVE BEEN FULLY DEALT WITH THROUGH AN ESTATE DEVELOPMENT PLAN.</p> <p>DEVELOPMENT COMPLIES WITH AT LEAST ONE OF THE FOLLOWING:</p> <p>A) STORMWATER RETENTION MANAGEMENT MEASURES ARE PROVIDED AND ACHIEVE ALL OF THE FOLLOWING:</p> <p>I) STORMWATER STORAGE CAPACITY OF 14KL PER 100M² OF THE TOTAL IMPERVIOUS AREA OF THE SITE IS PROVIDED SPECIFICALLY TO RETAIN AND REUSE STORMWATER GENERATED ON SITE AS A WHOLE</p> <p>II) RETAINED STORMWATER IS USED ON SITE</p> <p>B) DEVELOPMENT CAPTURES, STORES AND USES THE FIRST 15MM OF RAINFALL FALLING ON THE SITE.</p> <p>FOR THIS RULE, ON-SITE STORMWATER RETENTION IS DEFINED AS THE STORAGE AND USE OF STORMWATER ON SITE.</p>	<p>COMPLIES</p> <p>DEVELOPMENT IMPERVIOUS AREA IS 3,000m². RESULTING OSR REQUIREMENT OF 42KL AND OVERALL STORMWATER TANK SIZE OF 51KL.</p>
<p>THIS RULE APPLIES TO DEVELOPMENT FOR AT LEAST ONE OF THE FOLLOWING:</p> <p>A) DEVELOPMENT ON SITES GREATER THAN 2,000M² INVOLVING WORKS THAT HAVE THE POTENTIAL TO ALTER THE STORMWATER REGIME OF THE SITE, INCLUDING SITES SUBJECT TO THE ESTATE DEVELOPMENT CODE</p> <p>B) DEVELOPMENT WITHIN EXISTING URBAN AREAS WHICH INCREASES IMPERVIOUS AREA BY 100M²</p> <p>THIS RULE DOES NOT APPLY TO ANY OF THE FOLLOWING:</p> <p>A) DEVELOPMENT OF MAJOR ROADS</p> <p>B) SITES IDENTIFIED IN A PRECINCT CODE INDICATING THAT STORMWATER DETENTION REQUIREMENTS HAVE BEEN FULLY MET.</p> <p>STORMWATER DETENTION MEASURES ARE PROVIDED AND ACHIEVE ALL OF THE FOLLOWING:</p> <p>A) CAPTURE AND DIRECT RUNOFF FROM THE ENTIRE SITE</p> <p>B) STORMWATER STORAGE CAPACITY OF 1KL PER 100M² OF IMPERVIOUS AREA IS PROVIDED TO SPECIFICALLY DETAIN STORMWATER GENERATED ON SITE</p> <p>C) THE DETAINED STORMWATER IS DESIGNED TO BE RELEASED OVER A PERIOD OF 6 HOURS AFTER THE STORM EVENT.</p> <p>FOR THIS RULE ON-SITE STORMWATER DETENTION IS DEFINED AS THE SHORT TERM STORAGE AND RELEASE DOWNSTREAM OF STORMWATER RUNOFF.</p>	<p>COMPLIES</p> <p>DEVELOPMENT IMPERVIOUS AREA IS 3,000m². RESULTING OSD REQUIREMENT OF 30KL AND OVERALL STORMWATER TANK SIZE OF 51KL.</p>
<p>THIS RULE APPLIES TO DEVELOPMENT FOR ALL OF THE FOLLOWING:</p> <p>A) WHERE THE DEVELOPMENT SITE IS GREATER THAN 2,000M²</p> <p>B) WHERE DEVELOPMENT INVOLVES WORKS THAT HAVE POTENTIAL TO ALTER THE STORMWATER REGIME FOR THE SITE.</p> <p>THIS RULE DOES NOT APPLY TO DEVELOPMENT OF MAJOR ROADS.</p> <p>THE AVERAGE ANNUAL STORMWATER POLLUTANT EXPORT IS REDUCED WHEN COMPARED WITH AN URBAN CATCHMENT OF THE SAME AREA WITH NO WATER QUALITY MANAGEMENT CONTROLS FOR ALL OF THE FOLLOWING:</p> <p>A) GROSS POLLUTANTS BY AT LEAST 80%</p> <p>B) SUSPENDED SOLIDS BY AT LEAST 60%</p> <p>C) TOTAL PHOSPHOROUS BY AT LEAST 45%</p> <p>D) TOTAL NITROGEN BY AT LEAST 40%.</p>	<p>COMPLIES</p> <p>WATER QUALITY TARGETS ARE MET THROUGH USE OF ATLAN FLOWFILTER FLF 1200/10 SERIES:</p> <p>-100% REDUCTION OF GROSS POLLUTANTS</p> <p>-97.4% REDUCTION OF SUSPENDED SOLIDS</p> <p>-94.1% REDUCTION OF TOTAL PHOSPHORUS</p> <p>-51.3% REDUCTION OF TOTAL NITROGEN</p>
<p>THIS RULE APPLIES TO AT LEAST ONE OF THE FOLLOWING DEVELOPMENTS:</p> <p>A) DEVELOPMENT ON SITES GREATER THAN 2000M² INVOLVING WORKS THAT HAVE POTENTIAL TO ALTER THE STORMWATER REGIME FOR THE SITE</p> <p>B) DEVELOPMENT WITHIN EXISTING URBAN AREAS THAT INCREASE THE IMPERVIOUS AREA OF THE SITE BY 100M² OR MORE.</p> <p>DEVELOPMENT ACHIEVES A MINIMUM OF 20% OF THE SITE AREA TO BE PERMEABLE.</p> <p>OR</p> <p>IT IS DEMONSTRATED THAT THE DEVELOPMENT ACHIEVES ALL OF THE FOLLOWING:</p> <p>A) INCREASES PERMEABLE SURFACES AND LIVING INFRASTRUCTURE THROUGH GREEN SPACES</p> <p>B) PLANTS THAT REQUIRE IRRIGATION ARE SUPPORTED BY SUSTAINABLE WATER SYSTEMS SUCH AS ONSITE STORMWATER HARVESTING TO ACHIEVE MICROCLIMATE BENEFITS</p> <p>C) PROMOTES EVAPOTRANSPIRATION TO MITIGATE EXTREME TEMPERATURES, IMPROVE AIR HUMIDITY AND OVERALL HUMAN COMFORT.</p>	<p>COMPLIES</p> <p>THE DEVELOPMENT ACHIEVES THE DESIGN INTENT WITH</p> <p>A) DEEP-ROOTED PLANTING ZONES, ROOF GARDENS AND PERMANENT PLANTING BOXES THAT WILL ADD TO LIVING INFRASTRUCTURE THROUGH GREEN SPACES, SHADING OF STRUCTURE AND A REDUCED HEAT ISLAND EFFECT.</p> <p>B) PLANTS DO NOT REQUIRE IRRIGATION AFTER ESTABLISHMENT.</p> <p>C) THE LANDSCAPE DESIGN PROVIDES APPROPRIATE LIVING INFRASTRUCTURE WITHIN THE SITE TO PROMOTE GREEN SPACES. LIGHT COLOURED FINISHES HAVE BEEN SELECTED TO REDUCE THE HEAT ISLAND EFFECT. OPPORTUNITIES FOR SHADING HAVE BEEN PRIORITISED.</p>

STAGE 2 WATER REDUCTION RESIDENTIAL

Percentage Reduction	=	40%
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Indoor information		
Number of bedrooms in the entire complex		312
What is the water rating of the shower heads?		4 Star 
What is the water rating of the clothes washing machines?		5 Star 
What is the water rating of the dishwashers?		4 Star 
What is the water rating of the toilets?		3 Star 

Site information	
Site area (m ²)?	3,034
Total Roof area (m ²)?	1,571
Lawn area (m ²)?	284
Irrigated garden area (m ²)?	284
Impermeable pavement or driveway (m ²)?	1,179

Rain water tank information		
Are there going to be water tanks installed?		Yes <input type="checkbox"/>
What is the total size of all the tanks (L)?		38,500
What is the total roof area flowing into the tanks (m ²)?		1,571
What will be the use for the water in the tanks?	Garden <input type="checkbox"/>	<input type="checkbox"/>

STAGE 3 WATER REDUCTION COMMERCIAL

Percentage Reduction	=	40%
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Indoor information	
What is the Net Lettable Floor Area (m ²)?	10,970
What is the water rating of the shower head?	4 Star
What is the water rating of the dishwashers?	4 Star
What is the water rating of the sink in the kitchen?	5 Star
What is the water rating of the toilets?	4 Star
What is the water rating of the urinals?	5 Star
What is the water rating of the basins in the bathroom?	5 Star

Site information	
Site area (m ²)?	3,043
Roof area (including house and garage or carport) (m ²)?	2,171
Irrigated garden area (m ²)?	43

Rain water tank information	
Is there going to be a water tank installed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What is the size of the tank (L)?	30,000
What is the approx. roof area flowing into the tank (m ²)?	2,171
What will be the use for the water in the tank?	<input type="text" value="Garden"/>
What is the % of Toilets connected to Rain Water?	0%
What is the % of Urinals connected to Rain Water?	0%

REV.	DESCRIPTION	DRAWN	DESIGNED	VERIFIED	APPROVED	DATE	ARCHITECT / BUILDING DESIGNER	CLIENT	PROJECT TITLE	CLIENT	DRAWING TITLE	
							<div>MATIER <small>© MATIER PTY LIMITED ARCHITECT 15</small></div>	<div>URBN — DG</div>	<div>INDESCO <small>INDESCO PTY LTD www.indesco.com.au ABN: 37 008 581 066</small></div>	URBN-DG	WSUD CRITERIA	
							DRAWING STATUS			FOR APPROVAL		
							SCALE NTS			COORDINATE SYSTEM MGA2020-55	DATUM AHD	
							SHEET SIZE A1			PROJECT NUMBER 10675-01	DRAWING NUMBER 301	REVISION A
A	FOR DA	DY	JP	JP	AN	2025.08.07	LAND OWNER:					