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## STEENSEN VARMING

# SUSTAINABLE DESIGN



# Darlington Public School Independent ESD Consultant Statement



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#### **Document Revision and Status**

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24/11/23	01	ESD Statement of Compliance		NS	JP

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# 1.0 Independent ESD Statement of Compliance

Steensen Varming was engaged as Independent ESD Consultant to undertake ESD verification of Darlington Public School (DPS), located on Golden Grove Street, Darlington, NSW.

The engagement is only relevant to state significant development projects in later stages of design or construction stage. As such, Darlington Public School (SSD 9914) has obtained approval from DPIE (Department of Planning, Industry and Environment) to meet condition E13 Ecologically Sustainable Development of SSD 9914 through an alternative ESD certification method, aligning with the ESD requirements in School Infrastructure New South Wales' (SINSW) Educational Facilities Standards and Guidelines (EFSG).

The alternative ESD certification pathway aims to demonstrate the project achieves the same level of ESD as a 4 Star Green Star benchmark, independently verified by the Independent ESD Consultant. The project is however not certified with Green Star.

The role of the Independent ESD Consultant is to verify the project has been delivered according to best practice sustainability design by reviewing the Contractor ESD Consultant's final documentation and confirm the design is in line with SINSW's ESD requirements.

The review was based on the following documentation submitted by the Head Contractor (AW Edwards) and the Contractor ESD Consultant (Introba):

- Sustainable Development Report
- ESD schedules
- Supporting documentary evidence

This report summarises the review of this documentation and constitutes the Independent ESD Statement of Compliance for Darlington Public School.

# 1.1 Alternative ESD Review Process

Preliminary ESD Schedules were completed by the Contractor ESD Consultant and submitted to the Independent ESD Consultant for review. A list of documentary evidence was then agreed between both parties, identifying the documentation that will be submitted to show ESD compliance.

The Contractor ESD Consultant then proceeded to complete the ESD schedules, including:

- Confirmation of implementation of ESFG requirement in project and noted departures from EFSG
- Alternative ESD certification process point score and confirmation of additional documentary evidence provided to meet point score requirements
- Confirmation that agreed documentary evidence has been collected
- A brief description of compliance against each requirement

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The Contractor ESD Consultant also provided:

- A Sustainable Development Report confirming that the project's design and construction complies with the ESD requirements as described in the completed ESD Schedules.
- Design Statements from the relevant consultants and contractors engaged by the Head Contractor confirming that their component of the project complies with the relevant ESD requirements.
- Supporting evidence documentation referenced in the ESD Schedules.

The Independent ESD Consultant reviewed the ESD Schedules and supporting evidence and provided comments to the Contractor ESD Consultant and Head Contractor on behalf of SINSW regarding compliance.

Once all outstanding issues were discussed and closed out, the ESD Schedules and supporting evidence were then updated as required by the Contractor ESD Consultant and issued to the Independent ESD Consultant for final review and inclusion in the ESD Statement of Compliance.

# **1.2** Summary of Documents Reviewed

The following documents were provided for the ESD compliance review.

Sustainable Development Report by Contractor ESD Consultant (Introba, 23/11/2023)

Drawings, Schedules, Specifications, Design and Construction Reports, Design Certificates prepared by or on behalf of Head Contractor (AW Edwards), including from:

- Architectural
- Acoustics
- Civil
- Electrical
- Hydraulic
- Landscape
- Lighting
- Mechanical
- Security

# 1.3 Summary of Review Activities

The EFSG ESD Schedule and the ESD evidence documents provided by the Head Contractor (AW Edwards) and Contractor ESD Consultant (Introba) confirm that the design and construction of the project meets all the ESD requirements set out in the EFSG with no material departures, are complete and comply with the agreed ESD compliance reporting requirements for the project.

The EFSG ESD Schedule identifies some departures from the EFSG requirements in the ESFG Design Guides and notes the reason for departure.

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The Independent ESD Consultant (Steensen Varming) reviewed the referenced evidence documentation provided. No material deviations from the EFSG ESD Schedule were found.

# 1.4 Point Score Table

Steensen Varming has undertaken a review of the ESD performance of the project based on the information provided by the Contractor ESD Consultant and in accordance with the agreed alternative ESD certification method.

The methodology uses the Green Star Design & As-built rating tool to establish a benchmark against which the project response is compared. Using the alternative ESD certification process a minimum of 45 points is required. The breakdown of points achieved on the project based on the independent review is shown in the table below.

Category/Credit	Points Available	Points Achieved
Management	14	8
Indoor Environment Quality	17	10
Energy	22	4
Transport	10	6
Water	12	5
Materials	14	1
Land Use & Ecology	6	1
Emissions	5	1
Innovation	10	10
Total	110	46

# 1.5 Limitations

Steensen Varming's review is based on documentation and statements prepared by the Contractor ESD Consultant. Steensen Varming have not undertaken independent design calculations, analysis or modelling to confirm that the design complies with the EFSG, Building Code of Australia, Australian Standards or another relevant codes, regulations or client requirements.

Steensen Varming did not witness the construction or installation of any items listed in the EFSG schedule and was not present for any site inspections.

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# 1.6 Conclusion

An ESD performance benchmark for the design and construction of the project was established by comparing the EFSG ESD requirements to the credit compliance and points requirements of a 4 Star Green Star Design & As-Built v1.2 rating.

Based on this review the project's ESD performance meets the required benchmark using the alternative ESD certification method.

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1.7 Green Star Schedule

#### Crossover between SINSW requirements and Green Star - Design & As Built v1.3

Targeted Rating:			1		4 Star - Best Practice							
Points required for 4 Star Points achievable from G	r Green Star Green Star - D	rating Design & As Built v1.3		45 46	45 46							
Safety Margin				1	1							
Rating Achieved	4 Stars											
		Green Star scheme			1	SINSW'S					checkpoint 2	Independent checkpoint 2
Category/Credit	Code	Credit Criteria	Points Available	Aim	Compliance requirements	Points Targeted	Issues to demonstrate Green Star compliance	Equivalence to Green Star outcome	Consultant Responsible SV/Integral/AW	VE 19/07/21	Is the project compliant at this stage? Y or N	Comments (22/7/22)
Management			14			8						
Green Star Accredited Professional (GSAP)	1.0	Accredited Professional	1	Recognises projects that engage a GSAP to support the Green Star certification process.	Appoint GSAP at all stages of the project, leading to certification	1	Green Star requires GSAP engagement from project inception. SINSW engages ESD consultant at SSDA stage typically	High				
	2.0	Environmental Performance Targets	Mandatory for this Credit		<ul> <li>Set environmental performance targets</li> </ul>	-	Green Star requires targets to be project-specific. SINSW has targets that are general for each school type.	High				
	2.1	Services and Maintainability Review	1		Conduct a services and maintainability review during design and prior to construction and develop a 'Service and Maintainability Report'	1	Green Star requires a Services and Maintainability Review Report. SINSW documents this differently through a review and sign off process.	High				
	2.2	Building Commissioning	1		<ul> <li>Prepare commissioning plan and specification</li> <li>Conduct air permeability testing</li> </ul>	1	Green Star requires air permeability testing which is not conducted for SINSW projects as it is not appropriate for school building typology.	High				
Commissioning and Tuning	2.3	Building Systems Tuning	1	Recognises commissioning, handover and tuning initiatives for building services to operate at their full potential and as designed.	Commit to a tuning process for all nominated building systems including: • quarterly adjustments • measured first 12 months after occupation • review of manufacture warranties	1	Green Star requires a tuning plan is developed. SINSW uses AMUs to ensure optimum building performance following commissioning and handover.	High				
	2.4	Independent Commissioning Agent (ICA)	1		Appoint an ICA from schematic design	-	Green Star requires engagement of an ICA from schematic phase.	Med				
Adaptation and Resilience	3.0	Implementation of a Climate Adaptation Plan	2	Recognises projects that are resilient to the impacts of a changing climate and natural disasters.	Engage a qualified professional to prepare a project-specific Climate Adaptation Plan (CAP) and implement recommendations into the design and construction.	-	Green Star requires different climate change scenarios are considered in the risk assessment studies. SNSW conducts extensive due diligence but rarely under climate changed scenarios.	Med				
Building Information	4.0	Building Information	1	Recognises projects that make available building information that facilitates understanding of building systems operation and maintenance requirements, and their environmental targets for optimised performance	<ul> <li>Provide operations and maintenance (O&amp;M) information and log book to facilities management team and stakeholders, and</li> <li>Provide building user information to all relevant stakeholders</li> </ul>	1		High				
Commitment to Performance	5.1	Environmental Building Performance	1	Encourage building owners, building occupants and facilities management teams to set targets and monitor environmental	Set, measure and report for at least 2 building performance metrics i.e. energy, water, waste and IEQ	1	Green Star requires targets to be project-specific. SINSW has targets that are general for each school type.	High				
	5.2	End of Life Waste Performance	1	performance.	Commitment to extend the life of the interior fitout or finishes to at least ten	-	This credit seems to be more relevant to building owner / tenant schemes.	High				
Metering and Monitoring	6.0	Metering	Mandatory for this Credit	Recognises the implementation of effective energy and water metering and monitoring systems	years. Install accessible meters to monitor building energy and water consumption. Meters must comply with the current National Measurement Regulations and NABERS rating protocol	-	Sub-metering as required in the credit is excessive for schools. Water is required to be submetered but not energy loads.	Low				
	6.1	Monitoring Systems	1		Auto monitoring system to capture, process and present data	0	The role of building manager does not exist in schools.	Med				
	7.0	Environmental Management Plan (EMP)	Mandatory for this Credit		Develop and implement a best practice EMP	-		High				
Responsible Building Practices	7.1 s	Formalized Environmental Management System	1	Rewards responsible construction practices that manage environmental impacts, enhance staff health and wellbeing, and improve sustainability knowledge on site	A responsible party for the site has a formalised approach to planning, implementing and auditing is in place during construction, to ensure conformance with the EMP	1		High				
	7.2	High Quality Staff Support	1	service of site	Promote mental and physical health of staff and train up in sustainability practices through on-site, off-site and/or online classes	0		Low				
	8A	Performance Pathway		Recognises projects that implement waste management plans that facilitate the re-use,	Qualified waste auditor prepares and Implements an Operational Waste Management Plan (OWMP) which is then reflected in design of building facilities	-		High				
Operational Waste	88	Prescriptive Pathway	1	upcycling, or conversion of waste into energy, and stewardship of items to reduce the quantity of outgoing waste.	Project team to comply with the following: • separation of waste streams • dedicated waste storage area • access to waste storage areas must adhere to best practice	1		High				

Indoor Environment Quality			17			10						
	9.1	Ventilation System Attributes	1		Minimise outdoor air pollutants     Design HVAC for ease of     maintenance     Clean prior to occupation     ASHRAE Standard 62.1:2013 is     referenced	0	Green Star requires access to both sides for maintenance which is typically difficult to achieve.	Low		AWE to check ductwork cleaning prior to occupation requirement is met in mechanical specifications or handover documents.		
indoor Air Quality	9.2	Provision of Outdoor Air	2	Recognices projects that provide high indoor air quality to occupants.	1 point - Outdoor air is provided at a rate 50% greater than min required by 8 5682.2020 ramititain CO <sub>2</sub> concentrations below 800ppm 9 2 points - Outdoor air is provident a y a statistical provident and a statistical pro	0	Provision of outdoor air requirement is below Green Star requirements.	Med				
	9.3	Exhaust or Elimination of Pollutants	1		Sources of pollutants (printing, photocopying, cooking and vehicle) compliant with minimum emissions standards or be exhausted directly to outside	1		High				
	10.1	Internal Noise Levels	1		<ul> <li>Internal ambient noise levels no more than 5db(A) above lower figure in table 1 of AS/NZA 2107-2016</li> <li>Compliance shall be demonstrated through measurement provided by a qualified acoustic consultant</li> </ul>	1		High				
Acoustic Comfort	10.2	Reverbration	1	Rewards projects that provide appropriate and comfortable acoustic conditions for occupants.	Reverberation time below max stated in table 1 of AS/NZS 2107:2016     Compliance shall be demonstrated through measurement	1		High				
	10.3	Acoustic Separation	1		Reduce noise transmission between enclosed spaces Rw of at least 35 for partitions with doors and at least 45 for partitions without a door	1		High				
	11.0	Minimum Lighting Conflort	Mandatory for this Cred	t	Lights in the nominated area (all primary and secondary spaces) are Flicker-free lights and min Colour Rendering Index (CRI) of 80	-		High				
	11.1	General Illuminance and Glare Reduction	1	_	Lighting levels and quality comply with the GBCA best practice guidelines and     Glare is reduced	1		High				
Lighting Comfort	11.2	Surface Illuminance	1	Recognises well-lit spaces that provide a high degree of comfort to users	Combination of lighting and surfaces improve uniformity of lighting			High				
	11.3	Localised Lighting Control	1		Occupants are be able to control the lighting in their immediate environment: Example of immediate environment: • open-pian office - light shone on the workstation • residential unit - light hitting the work surface in the kitchen where food is prepared		This Green Star requirement is not relevant to classrooms but other spaces may have localised control.	Med				
	12.0	Glare Reduction	Mandatory for this Cred	t	Reduce glare through a combination of blinds, screens, fixed devices, or other means	-		High	Note: This credit is targeted, but no pts are awarded (Prereq for 12.1 and 12.2) EC1-d			
	12.1	Daylight	2		<ul> <li>1 point - 40% of the nominated area (all primary spaces) receives high levels of daylight</li> <li>2 points - 60% of the nominated area (all primary spaces) receives high levels of daylight</li> </ul>	1		High	EC1-c			
Visual Comfort	12.2	Views	1	Recognities well-lit spaces that provide high levels of visual comfort to building occupants.	DOTE of the nominated any pull symphone and the scale like of sight to high quality internal or external view — A high quality external view much scened to the outside towards natural elements such as large bodies of expertation, a body of water, frequent movement of (geople, whichs; can animaly) or sty = <u>Internal View</u> – A high quality internal view is detuce, or an artificture towards an area that is landcaped or contains a water frequent, or an articup	1		High				
	13.1	Paints, Adhesives, Sealants and Carpets	1	Recognises projects that safeguard occupant	No paints, adhesives, sealants or carpets are used in the building; or 95% of all internal paints, adhesives, sealants and carpets meet total VOC limits	1	Too onerous to document	High				
Indoor Pollutants	13.2	Engineered Wood Products	1	health through the reduction of internal air pollutant levels.	No new engineered wood products are used in the building; or     At least 95% of all engineered wood products meet formaldehyde emission limits	1	Too onerous to document	High				
Thermal Comfort	14.1	Thermal Comfort	1	Recognises projects that achieve high levels of thermal comfort.	80% of occupants satisfied - equivalent to PMV between -1 and +1	1		Med	EC1-m and -n	To be provided: Drawings Thermal comfort modelling report	Y	
	14.2	Advanced Thermal Comfort	1		90% of occupants satisfied - equivalent to PMV between -0.5 and +0.5	0		Med				

15E.0     Conditional Requirement: Reference Building Pathway     Mandatory furths Credit Courages energy efficient buildings and furths Credit reduction of greenboace gas (Ref) emission and certification     Sector Intervence building must abouted with the use of energy in building sociated with the use of energy in building operations.     Policies transmission (Sector Intervence building must abouted with the use of energy in building sociated wi		
Greenhouse Gas Emissions       152.1       Reference Building Pathway       20       Path		
16A     Prescriptive Pathway - On-site Energy Generation     1 point - On-site electricity generation     High       electricity demand by at least 15%     1     High		
Pesk Etertricity Demand Reduction     Instrume     Performance Pathway - Reference Building     Encourages the reduction of peak demand load on the electricity network infrastructure 2     Project's predicted peak electricity demand has been reduced below that of a Reference Building - point - 20% reduction     Project's predicted peak electricity demand has been reduced below that of a Reference Building     Project's predicted peak electricity demand has been reduced below that of a Reference Building     Project's predicted peak electricity demand has been reduced below that of a Reference Building     Project's predicted peak electricity demand has been reduced below that of a Reference Building     Project's predicted peak electricity demand has been reduced below that of a Reference Building     Project's predicted peak electricity demand has been reduced below that of a Reference Building     Project's predicted peak electricity demand has been reduced below that of a Reference Building     Project's predicted peak electricity demand has been reduced below that of a Reference Building     Project's predicted peak electricity demand has been reduced below that of a Reference Building     Project's predicted peak electricity demand has been reduced below that of a Reference Building     Project's predicted peak electricity demand has been reduced below that of a Reference Building     Project's predicted peak electricity demand has been reduced below that of a Reference Building     Project's predicted peak electricity demand has been reduced below that of a Reference Building     Project's predicted peak electricity demand has been reduced below that of a Reference Building     Project's predicted peak electricity demand has been reduced below that of a Reference Building     Project's predicted peak electricity		
Transport         A         G		
Sustainable Transport 17A Performance Pathway		
Water         0         5         Competition		
Potable Water     18A     Performance Pathway     22     Encourages building design that minimises potable water consumption in operations.     Water Calculator that awards points based on water saving in comparison     5     SiRSW projects able to achieve more points but 5 points is considered a conservative estimation.     High       Materials       1		
Ips. L       Comparative Life Cycle Assessment (LCA)       6       N/A       N/		
19.2     Additional Life Cycle Impact Reporting     4     such as material selection and construction process improvement     NA     Low		
Page 10 and 10		
Life Cycle Impacts 150.2 Seel		
193.3         Building Reuse         4         Requires a percentage of the building faced or structure is retained.         N/A		
198.4     Structural Timber     3		
Page 201     Structural and Reinforcing Steel     1     Arguines a percentage of the steel is sourced from a seponsible soured from a seponsible sourced from a seponsible sourced fro		
vesponsible soulding Materials     202     Timber Products     1     materials that are responsibly sourced on all are responsibly sourced on all as ustainable supply chain.     1     High       203     Requires that on a stainable supply chain.     entitled on reused     1     High		
20.3 Permanent romwork, Pipe, Noomg, sinus and cables		
Sustainable Products 21.0 Product Transparency and Sustainability and Sustainability and Transparency		
All waste contractors and waste processing facilities hat processing facilities		
Vaste 22A Faed Benchmark bullen materials. 90% of construction and demolition		
228 Percentage Benchmark 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	To be provided: Partial P • Environmental Management Plan	Inly 4 months of reporting provided, lease provide for the duration of onstruction. rovide EMP.
Land Use & Ecology		
Ecological Value 4 23.0 Endangered, Threatened or Vulnerable Species Manual Constraints of the Species of Cological Value of their site. A Manual Constraint of the Species of Cological Value of their site. A Manual Constraints of the purchase or option contract		
23.1 Ecological Value 33 Requires improving ecological value of the site		
24.0     Conditional Requirement     Mondatory and Certification     Ste did not include oil growth forest, prime apricular lain, without a lind,		
Sustainable Sites 24.1 Reuse of Land Reuse o		

	24.2	Contamination and Hazardous Materials	1		Environmental site assessment concludes site is contaminated and is to be remediated prior to development	1		High		
Heat Island Effect	25.0	Heat Island Effect Reduction	1	Recognises projects that reduce the contribution of the project site to the 'heat island effect'.	75% of the total project site area comprises of elements to reduce heat island effect - vegetation, light colour roof, shading	0		Med	AWE to provide markup/calculation of areas showing compliance, together with roofing/landscape specifications.	
Emissions	26.1	Stormwater Peak Discharge	1	Rewards projects that minimise peak storm water outflows from the site and reduce	Post-development peak average recurrence interval (ARI) event discharge from site does not exceed pre-development	0		Med	AWE/Integral to check civil reports to show compliance.	
Stormwater	26.2	Stormwater Pollution Targets	1	pollutants entering the public sewer infrastructure or other water bodies.	Additional point awarded for stormwater site discharge to meet GBCA pollution reduction targets	0		Med	AWE/Integral to check civil reports to show compliance.	
	27.0	Light Pollution to Neighbouring Bodies	Mandatory for this Credit		Requires that external luminaires meet Australian Standard to avoid light pollution to neighbouring development	-		Med		
Light Pollution	27.1	Light Pollution to Night Sky	1	Rewards projects that minimise light pollution.	Requires that external luminaires do not emit light pollution to the night sky above a given benchmark	0		Med	AWE to check whether external lighting modelling has been carried out, and meets the requirement.	
Microbial Control	28.0	Legionelia Impacts from Cooling Systems	1	Minimise the impacts associated with harmful microbes in building cooling systems.	<ul> <li>Building naturally ventilated, or</li> <li>Has waterless heat rejection system, or</li> <li>Has water-based heat rejection systems that includes measures for Legionella control and Risk Management</li> </ul>	1		High		
Refrigerant Impacts	29.0	Refrigerant Impacts	1	Encourages practices that minimise the environmental impacts of refrigeration and air conditioning equipment.	Requires use of refrigerants with low ozone depletion potential	-	This is a procurement decision that varies across projects.	Med		
	30D	Community Benefits	1	Encourages investment in infrastructure for use by the broader community, such as the incorporation of spaces that are publically accessible.	Requires a needs analysis of the surrounding community and a strategy for how the project will provide social/community benefits and consult with the broader community on the proposed plan.	1		High		
	30D	Integrating Healthy Environments	1	Supports high-performance, cost-effective and health-promoting project outcomes through an early analysis of the interrelationships among systems.		1		High		
Innovation Challenge	30D	RAP	1	Encourages organisations to take formalised steps to provide opportunities for Aboriginal and Torres Strait Islander peoples.	A reconciliation action plan endorsed by Reconciliation Australia is required	1		High		
	30D	Universal Design	1	Encourages projects to provide safe, equitable and dignified access for persons with disabilities.	accessibility plan based on a needs analysis	1		High		
	30D	Amenity Space	1	Recognises the provision of high quality amenities for fitout occupants' use.	Require provision of high quality amenity space intended for use by staff or regular occupants suitable for their enjoyment. The size and qualities of the space are determined via a needs analysis.	1		High		
Global Sustainability	30E	Digital Infrastructure	1	Recognises projects that use digital infrastructure to create greater efficiencies in the connection of individuals with other people, goods, services, and information.	Require FTTP and Fixed wireless connectivity to be provided	1		High		
Giobal Sustainability	30E	Green Geaning	1	Rewards use of green cleaning services that prevent the use of contaminants that impact on indoor environment quality, occupant health and the natural environment.	The credit requires a green cleaning policy is developed and implemented	1		High		
	2.1	Site Planning and Layout	4	Recognises projects that undertake a design review process designed to facilitate sustainable urbanism.	Requires independent design review is undertaken against urban design themes to inform project design	4		High		
	3.1	Urban Design Stakeholder Engagement Strategy	3	Recognises projects that develop and implement a comprehensive, project specific	The project has a Stakeholder Engagement Strategy prepared in accordance with specified requirements.	4		High		
	3.2	Strategy Implementation	3	stakeholder engagement strategy early in the planning process.	The Stakeholder Engagement Strategy is being implemented and formal monitoring, evaluation and corrective action is	3		High		
	9.3	Healthy Places	1	Recognises projects designed and built in line with holistic active and healthy living	Requires project to be designed to achieve five key principles around walkability, active and public transport, wayfinding, good public space design and social interaction.	-		High		
	12.1	Understanding Culture, Heritage, and Identity	1	Recognises projects that celebrate and incorporate the heritage, culture and	Requires that culture, heritage and	-		High		
Global Sustainability - Green Star - Communities v1.1	12.2	Enhancing Community Culture, Heritage, and Identity	2	historical context of the project site, supporting communities and places with the development of a sense of place and identity.	identity of the project is investigated to inform the design and incorporate interpretation measures.			High		
	14.1	Access to Fresh Food	1	Recognises projects where occupants have	Requires access to fresh food in projects	1		High		
	14.2	Local Food Production	1	access to fresh food within walking distance	Requires the project has a strategy to integrate productive landscape within the landscape objectives for the project site.	1		High		
	15.0	Visibility	-	Recognises projects that take into consideration designing out crime principles.	Requires direct lines of sight to all public areas	-		High		
	15.1	Design for Safety	2		Requires incorporation of CPTED principles	2		High		

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1.8 EFSG ESD Schedule

Colour S	theme - Legens	d mpliance														
A	proved EFSG D ot Applicable t	eparture														
	2001/27	Dadiestee PS	•				_	Independent checkpoint		Independent		Independent				
	PROJECT	o an ington PS		1	1			1	Independent checkpoint 1	checkpoint 2	Independent checkpoint 2	checkpoint 3	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3
			Sustainability initiatives / requirements from the EFSG				Contractor's ESD consultant comments	Is the project compliant		Is the project compliant at this		Is the project compliant at this				
ID	Theme	Indicator	This is an extract only from the relevant EFSG. For full requirements refer to https://efsg.det.nsw.edu.au/welcome	EFSG	Green Star	Standard evidence to demonstrate compliance	Updated 03-August-2021	at this stage? Y or N	Comments (updated 10/1/22)	stage? Y or N	Comments (22/7/22)	stage? Y or N	Comments (27/3/23)	Meeting notes (18/4/23)	Comments (17/7/23)	Comments (20/9/23)
FCI-a	Energy & carbon	EC1: Energy	Improvement over MCC All more facilities must be designed and built to that energy consumption is predicted to be at feast 100 beer than if built is an infinium compliance with National Construction Cade requirements. The energy consumption reduction must be adhered freegy conservation.	0.602.03	DAB c15E.0 GHG Emissions Reduction - Conditional Requirement	<ol> <li>Inergy modeling report / http://twel.evergy modeling and themail confort areas ment. Report needs to also are it is at 100 improvement of 2.4 Advanced and the and and an accurate presentation of the barding, e.g. drawings: and 3.5 performation / actualizations supporting modeling (nputs, e.g. sections) 2.6 Advanced and and and an accurate presentation of the section 4.8 As an alternative to 2 and a balow, a Statement by energy modeling.</li> </ol>	Rev 410: ECLa	N	AWE - Statement to be provided detailing our intent to meet energy efficiency targets. SV: From meeting 17/1/12/1, it was understood that IV3 model will be provided end of project to show % reductions. Confirm tatement will include these results?		Is there any interim feedback? High risk item, as if 10% is not achieved difficut to make changes to Stage 1.	Ŷ	Report note: 'draft for comment'. Rease provide final report. Me would dapact the GHG emissions and energy W motifications to be the same, for an all electric building. Domestic water is noted as electric not gas, in other documentary educinor provide What is the main reason for such large W reductions in the propose building heating(cooling?	Can be issued as final 30% better on envelope, 50% on HVAC Gas as Offsault (Committing, VI only) carried out as part of EPSG - not NCC	Same report rebadged as final.	
EC1-b	Energy & carbon	EC1: Energy efficiency	Every convertion Design and convertibility of the second buildings within the parameters specified in the: I-SW Public Voint: Energy Meaus for Buildings I-SW Public Respondence of the second buildings I-SW Public Respondence of the second buildings and services where needs on in operating and maintenance costs and made through proper selection of: -Building table: -Building table:	D/665.02	DAB c15 GHG Emissions Reduction	1) Section 3 report 2) Energy in part 1 a tannen t	Rev 41D: ECI-b Section J report is completed; Services contractor to provide statement of compliance with NCC 2019	¥	The intent of this credit is energy conservation. Will an energy model be provided as per ECL-3? AWE - Energy model will not be provided for this condition as per agreed evidence to be provided.							
10.<	Energy &	EC1: Energy efficiency	Deglipting - Designers must each be maximite extract deglight to all is enouge and administration - Designers must enough usage for hough windows and deglights - Including deglight ensuits in monts the struct particular light deglight of the - Including deglight enough windows, percent gravedows, percentage - Additional deglight is provided within the space - Including deglight particular base to make means mean use of deglight.	DG23.1 DG12	DAB c15 GHG Emissions Reduction	<ol> <li>Dyright modelling report demonstrating from natural during that been meaning in a linear state space space.</li> <li>A built daving any commission grant the model accurately represent the building is a window size and location; skipper installed, etc.) and grant grant grant daving provide solar and control of the grant grant and builting is a window size and control or skipper installed, etc.) and grant grant grant daving provide solar and control or grant grant grant and grant grant grant grant daving the grant grant and grant g</li></ol>	Rev 4 (D. KCL 4: Polyto data nu 111 dollarg period prive Polyto data nu 111 dollarg period prive Polyto dallarg data period				Prase provide evidence of darlight strangering (gipting movide representative sample comes (pricting darsonni), with period strangering analysis.	¥	M3 report does not meet the intent or the evidence required for this codit.	Daylight modelling has been careful of detention and of AVL will be sent over by introba	Daylight modelling report provides. Lighting comol Liyouts provided this presence decision in norms, with drawfight sensor capability.	
ECI-C	Energy & carbon	EC1: Energy efficiency	i phing i Lon a Lepirate Jone to make Maximum use of espright Stading devices On exposed facades subject to direct sunlight, external window shading has been considend a spart of the building design	DG12	DAB c15 GHG Emissions Reduction	(LAS Specs)	high quality daylight. Rev 4 (D: EC1-d The inclusion of shading also reduces building energy, ESD Consultant proposes this credit + previous justify claiming one (1) point for GS D&AB Credit 15			Y						
FClue	Energy &	EC1: Energy	Lighting energy conservation Lighting system much have timed or sensor freedback functionality for energy	0.623.2	DAB c15 GHG Emissions Reduction	I. As built electrical drawings / statement from head contractor	Rev4 ID: EC1-e			¥	As-built lighting control drawings include motion sensors (MS1, MS2) in majority of rooms. MS1/MS2 product data sheets provided.					
EC1-f	Energy & carbon	EC1: Energy efficiency	Avery efficient typing 10 Un pipting much be installed - The design of the injuting systems and the selection of fittings is to be undertaken based on a White of UF approach based on a White of UF approach based on a White on the other of the other of the other based on a White on the other consumption Use injuti current i amps and control gar with a long life.	DG2.3.1 SG63.01	DAB c15 GHG Emissions Reduction	1. As built electrical drawings	Rev 4 ID: EC1-f ESD Consultant proposes this credit + previous justify claiming one (1) point for GS D&AB Credit 15			Ŷ						
EC1-g	Energy & carbon	EC1: Energy efficiency	Maximum Rumination power densities. Section J part 6 of the National Construction Code provides tables that define the maximum Illumination power density that is acceptable in various inclusions. This, and all other elements of section J parts faculd be applied applied programs.	DG63.05.01	DAB c15 GHG Emissions Reduction	1) Lighting drawings 2) Lighting specifications / schedules 3) Lighting modelling report showing compliant power densities	Rev41D: EC1-g	Partial	Provide NCC Section J 6 table demonstrating compliance power densities. Or statement from electrical/lighting designer that power densities are a chieved.	Ŷ	NCC S J6 table provided					
EC1-h	Energy & carbon	EC1: Energy efficiency	Liphong control The required communication protocol for the luminaines is to DAU. The following systems for the control of immuniaines fitted with DAU control gara are considered acceptable of Dipical Cobes suite of produces - Dipical Cobes - Dipical - Dipi	D663 06.01	DAB c15 GHG Emissions Reduction DAB c4 Building information	2) Commissioning a part 2) Commissioning a part 2) Commission from AMR that all relevant manuals have been handed part	Rev410: ICL-h			Partial	Lighting control drawings show Dali control aones, however lighting flature data sheets do no highlight dimming. Pease confirm Dali dimming i included. Are OBM manuals, with lighting control operation, available?	¥				
ECI-I	Energy & carbon	EC1: Energy efficiency	Constant Liquid Dupier (LDI) optimum constraint of of miniming luminations and light liquid topping liquid (LDI) optimum constraint of the liquid li	DG63.06.02 DG63.06.03	DAB c15 GHG Emissions Reduction	11 Egylang dawing: Thi phang maksing apport shawng congrated power dawn it en	Mandatory Oreit Revised for 'mplemented' as LLD (s inducede in dazeroms	N		Partial	Lighting fluture data sheets do non highlight CLO dianning tassume on driver information). Plase confirm CLO dimming is included.	Ŷ				

our Scheme - Legen Approved EFSG C	ompliance													
Approved EFSG I Not Applicable	to Project													
PROJEC	T: Darlington PS						Independent checkpoint 1	Independent checkpoint 1	Independent checkpoint 2	Independent checkpoint 2	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3 Independent checkpoint 3	Independent checkpoint 3
		Sustainability initiatives / requirements from the EFSG				Contractor's ESD consultant comments	Is the project compliant		Is the project compliant at this		Is the project compliant at this			
Theme	Indicator	This is an extract only from the relevant EFSG. For full requirements refer to https://efsg.det.nsw.edu.au/welcome E	FSG	Crossover with Green Star	Standard evidence to demonstrate compliance	Updated 03-August-2021	at this stage? Y or N	Comments (updated 10/1/22)	stage? Y or N	Comments (22/7/22)	stage? Y or N	Comments (27/3/23)	Meeting notes (18/4/23) Comments (17/7/23)	Comments (20/9/23)
Energy &	EC1: Energy	Notice property: Local setupting head the provided where it is identified that the users can bareful from manual operation of the lighting and other lighting actionation to the head by Althouse energy first free setupting in the setuption of the setuption of the control of the setuption of the lighting and the lighting actionation to the head the user of multiple switching regroups the user of the setuption of the setup short has in family and notes a family and the users of the setuption of the setup short has a family and notes a family and the setuption of the setuption of the setup short has a family and the setup short the user of the setup setup short has a family and the setup short the setup setup setup setup short has a family setup setup setup setup the user of the setup setup setup setup short has a family and the setup setup the user of the setup setu	663.07	DAB c15 GHG Emissions	1) Electrical & Lighting dowings showing witching groups and automatic		Partial	Local switches and motion sensors provided to each room. Further information is required to understand how the lighting in spaces will be used. Overall lighting control strategy & dimming strategy not clear. Plane provide an indication of systems used but contol systems can'b be understood from plans- teriors. File USP Spec sheet?	¥	Ughting control group drawings and electrical specification for controls operation provided.				
carbon	efficiency	steps (other than in small rooms). D	G65.03.01	Reduction	controls	Rev4ID: EC1-j								
Energy & k carbon	EC1: Energy efficiency	Energy efficient HVAC system HVAC system must have timed or sensor feedback functionality for energy consension Systems shall be designed a minimise energy consumption. System design / requipments cilection is to be based on whole of life cost analysis. System Shall be designed to an energy consumption of the system design / system shall be designed to designed to meet or expression and the system All new school buildings are to be designed to meet or exceed the requirements of allower sports.	G2.3.2 G55 G16.09	DAB c15 GHG Emissions Reduction	1. At built methanical drawings / statement from head contractor, by OL performance.	Rev 4 ID: ECL1-k ESD Consultant proposes this credit + province justify claiming one (1) point for GS DABA Credit 15	¥	Mech Design Brief adresses HVAC controls for energy conservation & sensors.						
Energy & -I carbon	EC1: Energy efficiency	Sarge efficient appliance. B explorment Extend of a copoperant much be a class 10.5 stors a bove the market a verage star radies or ongring with high afficiency standards accessed feel in the GRUP	6233	DAB c15 GHG Emissions Reduction	<ol> <li>Schedule of appliances and equipment with their star ratings or populations scheduled, speeping bit at code of the bit test of a population of the schedule of the schedule of the schedule of the code the schedule of the schedule of the schedule of the code the schedule of the schedule of the schedule of the schedule of the schedule of the schedule of the schedule of the schedule of</li></ol>	Band (D) 1734	Partial	Some appliances in the FFE schedule are not showing the starrating or the rating is lower than the GREP	Partial	Architectural equipment schedule povided, Per GREP Pathags: Compliant: fröge, washing machine Non-Compliant: Distwasher, Dryer Mechanical/Electrical equipment not provided.	¥	No additional evidence provided.	AVE to prede meta-inical equipart efficiencies: Other equiparter will be noted as departure.	Distavasher (non-compliant) fridge (compliant) spec sched provided. Contractor notes ducted FCUs fall under CREP, therefore on split units for comms room an relevant. 9/10/23: comms room AC unit efficiencies provided. Update distwasher efficiency provide 15/10/23: contractor notes that distwashers and dyers on pr provided schedule are support.
Energy & m carbon	EC1: Energy efficiency	Nat taxy, and all of any RVX-decision must conside: Climaty Armoe climate: This data must clime from the current ARAH handbook that the burnes of Meteorology Climaty and the current is sufficient in the handbook, the burnes of Meteorology Climator regressive to sufficient and wind handbook that any climate and consistent and the sufficient climaty and the sources costs that and on oping of heating and colling. Reference any consumption provide future most sample and and must calculate and the handbook that and the sufficient and the sufficient and colling. Reference any consumption provide future most sample and and must calculate calculate collection any consumption provides future most sample and and must calculate calculate collections and the source of the analysis that must be sufficient and colling in collection of a sample for the analysis of the analysis that sufficient and calculate calculate collections are also for the Window of the analysis that must be sufficient and colling in collection of the analysis of the analysis that the must be sufficient and constants (coll calculate the analysis that the must be sufficient and constants).	604.01	DAB c15 GHG Emissions Reduction	1. Thermal modelling report 2. A paint the second s	Rev 4 (D: EC1-m					¥			
Energy &	EC1: Energy efficiency	Parties design The read of the refer to example and both that libe minimised by employing parsive / the read for refer to example and both that libe minimised by employing parsive / Mindews - The site and proportions of enindews need to be and faily considered in the design to provide manual molificancy and that babance between the IDS factors such as the site of the site of the constraints of the site of	635 606.02 627.12	DAB c15 GHG Emissions Reduction	1. Thermal modeling report 2. At built evidence demonstrating measures implemented to reduce nee for active cooling / hasting implemented	d Rev 410: ECL-0			Y	Passiw design statement provided in PA-3, together ut has built draving. IEC4-a, when a validate, with further provide confidence this is achieved.				
Energy & carbon	EC1: Energy efficiency	Vestisation strategy A vertilization strategy must be developed to ensure that sufficient vertilization is provided to all spaces to meet the requirements of the BC/NCC and associated blandshift. Enable here the strategy of the strategy o	657.01	DAB c15 GHG Emissions Reduction	1) Cooling system strategy including WOL analysis N/A 2) Cooling strates: N/A 2) Toologi strates: N/A 2) Toologi strates: N/A 2) Toologi strates: N/A 2) A studied strates: N/A 2) A studied strates: N/A	Rev 41D: ECL-o	Partial	Provide a s-built drawings showing accessibility.	Ŷ					
Energy & carbon	EC1: Energy efficiency	Natural ventilation Is required to all classrooms for comfert in summer and to maintain a healthy indoor environment. Where roots ventilations may be retricted () as where nooms are located on each side very service to provide a moviment. Some windows needs to be openable in diving rain and so must be protected with papportain) degrade analyrinedox accus owindag or other method of protections.	605.01	DAB c15 GHG Emissions Reduction	As built drawings de monstrating windows have been installed as required.	Rev 4 ID: EC1-p			¥	In classrooms: operable windows/doors on classrooms, with majority cross-vent. Upper floor includes operable roof windows, instead of cross-vent. Ceiling fans installed.				
Energy & carbon	EC1: Energy efficiency	Alchinative yearsing one-weeksion: In the storey block where rooks flow worklistion is not possible to the lower flow, inchanically assisted does werklistion is be produced to the lower flow remaining para researching the top the store of the store of the store flow remaining para researching the top the store of the store of the store flow remaining para researching the top the store of the store of the store of the store of the store of the store the store of the store of the store the store of the	G57.18	DAB c15 GHG Emissions Reduction	As built mechanical diswings and specifications fotocos from commissioning report	Mandatory Credit This credit was not specifically targeted during the design phase, though operable windows are included. Project team does not the documentation requested as standard evidence. Flagged as a historical departure pre- construction.			N - Agreed Departure	Departure's schedule does not referenced this credit. However, contra ctor ESC consultant advise this is an approved departure per SNSW.				

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A	proved EFSG I at Applicable	Departure to Project														
	PROJEC	T: Darlington PS						Independent checkpoint 1	Independent checkpoint 1	Independent checkpoint 2	Independent checkpoint 2	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3
			Sustainability initiatives / requirements from the EFSG				Contractor's ESD consultant comments	is the project compliant		Is the project compliant at this		is the project compliant at this				
ID	Theme	Indicator	This is an extract only from the relevant EFSG. For full requirements refer to https://efsg.det.nsw.edu.au/welcome	EFSG	Crossover with Green Star	Standard evidence to demonstrate compliance	Updated 03-August-2021	at this stage? Y or N	Comments (updated 10/1/22)	stage? Y or N	Comments (22/7/22)	stage? Y or N	Comments (27/3/23)	Meeting notes (18/4/23)	Comments (17/7/23)	Comments (20/9/23)
EC1-r	Energy & carbon	EC1: Energy efficiency	Calling void wethinking work of the second s	DG05.02 DG37	DAB c15 GHG Emissions Reduction	As built mechanical drawings, demonstrating writilation has been mislind as required.	Mandatory Credit This credit was not specifically targeted as there is no ceiling void in main spaces. Flagged as N/A Mandatory Credit	N/A								
EC1-6	Energy & carbon	EC1: Energy efficiency	Ref vexitiate control Provide controls for the operation of the motorised dampers on the nof-wentilators. Second yours with its prevent for each space within the school where nod Shoolb buildings conta wind power met were verificated and approved	DG65.16	DAB c15 GHG Emissions Reduction	Mechanical / electrical drawing: showing controls	Mandstory Credit This credit was not specifically targeted during the design phase, though operable windows are included. Project team does not the documentation requested as standard evidence. Flagged as a historical departure pre- construction. Mandstory Credit			N - Agreed Departure	Departure's schedule does not referenced this credit. However, contra tor FSD consultant a dvise this is an approved departure per SINSW.					
EC1-t	Energy & carbon	EC1: Energy efficiency	School buildings can use wind powered node wolf stores with diampers to provide reflective summe weatilistics. Design to suit to clan antient clinical conditions to resure correct sizes, locations and numbers are provided for each particular application. Co-ordinate the locations of versitators with the cutiling fasts to achieve effective air movement. Has assisted versitators should a loc be considered on days of low wind provide a will movem d witch to gen (clinication d and and and and and and and and and	DG57.14	DAB c15 GHG Emissions Reduction	As built mechanical drawings showing location of roof ventilators if installed	As above, project design documents include manually operable ventilators, but not automated ventilators Flagged as a historical departure pre- construction.			N - Agreed Departure	Departure's schedule does not referenced this credit. However, contractor ESD consultant advise this is an approved departure per SINSW.					
EC1-W	Energy & carbon	EC1: Energy efficiency	Vestilation in suntary spaces - Greater a rocal storn than that required by building regulations is required, with splittion entanulus multischoor menchanical vestilation, to dispine obtains and for - most semilation is to be used when possible - movies menchanical vestilation and the splitting of the splitting of the - operate the system by time control equipment (time switches or run-on times as appropriate).	DG05.04 DG57.16	DAB c15 GHG Emissions Reduction	As built mechanical drawings demonstrating wentilation has been natafied as required . WAA	Rey 410: EC1-u			Partial	Mechanical extract provied to sanitary spaces. Please highlight control operation of equipment.	¥				
ECI-V	Energy & carbon	EC1: Energy efficiency	Ventilation in storage spaces - Remained at a wentilation openings are to be provided (without compromising genumly, to grave to eccentration of objours.	D605.05	DAB c15 GHG Emissions Reduction	As built mechanical drawings demonstrating sentilation has been installed as resulted. WAA	Rev 4 ID: EC1-v			Partial	Please highlight on drawings where this occurs.	¥	Please highlight storage spaces on drawings.	AWE to provide markup of storage spaces specifically.	Mechanical drawings provided, demonstrating mechanical ventilation to store rooms. Permanent ventilation openings not evident.	in general, stores have undercut doors or grilles.
	Energy &	EC1: Energy	Ventilation in permanent learning spaces and libraries Where feasible / practical: - Gailing fans shall be installed where ceiling height is equal to or greater than 2,200mm.		DAB c15 GHG Emissions	As built drawings demonstrating ceiling/wall fans have been installed as				¥	Power drawings provided do not provide evidence that fans are installed. However, electrical legend and lighting drawings provided elsewhere give sufficient evidence.					
<u>10*</u>	Energy &	efficiency EC1: Energy efficiency	Valif fines (salid be installed when certified highly and less than 2.200mm Mode environment certified John the financial context and an analysis of the controlled a submatically both the financial context and less than a submatically controls that the sense of the same sense of the controlled as the submatically controls that the same sense of the same sense sense of the same sense of the same sense of t	0655	Reduction DAB c15 GHG Emissions Reduction	I An Switt av dance demonstrating control: have Seen installed as 1 An Switt av dance demonstrating control: have Seen installed as 21 Communications	8ev410:ECL-#			¥						
10.7	Energy & carbon	EC1: Energy efficiency	Access for monitomizes A sets the monitomizes A sets the monitomizes A sets the monitomizes A sets the monitomizes that is installed within a school is to be provided with A stable access to ensure that his explainment is staffyrad efficiently main initiality and the sets that access the ensure that his explainment is staffyrad efficiently main initiality and the sets that access the ensure that his explainment is staffyrad efficiently main initiality access the ensure that his explainment is staffyrad efficiently main initiality access that access the ensure that his explainment access that access a staffyrad efficient access that access the ensure that access that access the ensure that access the ensure that access the ensure that access that access that access the ensure that access that access the ensure that access the ensure that access the ensure that access the ensure that access that access the ensure that access that access the ensure that access the ensure that access that access the ensure that access that access that access the ensure that access that access the ensure that access that access that access the ensure that access the ensure that access	DG16.10 DG64.10 DG64.02	DAB c4 Building	1 At built dowings including all equipment access arrangements for maintenance 2) Faring results 2) Faring results 2) Faring results 2) Faring results	Sev 410: ECL-y			Partial	OBM manual pdf file is compted, please share again. Phode evideors of taxing on communications sencies.	¥	Poulde evidence aftaining on communications services /SCS.	AWE to check. May be post- construction requirement to not yet	No additional evidence provided.	OBMs provided as building user's golds, sit teners distant receirs, and teners and the receirs, and the set of the set of the contractor net training provided to all teams.
E(2-a	Energy & carbon	EC2: Scope 1 & 2 emissions	Reconside energy A grid connected solar PV system must be installed to files with DGGE requirements Where feasible, PV system shall be installed to offset as much of the electricity commande by the could a its practicable	DG2.3.4 DG55	DAB c15 GHG Emissions Reduction; DAB c16 Peak Electricity Demand Reduction	<ol> <li>As installed drawings of Praystem - Karloot</li> <li>Discograndatiling aport showing measure in energy prevation.</li> </ol>	Rev 410: EC2-a			Partial	A large number of drawings have been provided. Please only provide drawings that relate to the credit, and highlight/bubble relevant a reas. Drawings provided do not show as built PV system, or renewable energy generation.	¥				

Colour Scheme - Le Approved EFS Approved EF	egend 56 Compliance 56 Departure ble to Project													
Not Applica	DIE to Project	1					Independent checkpoint		Independent	Indepe	ndent			
ID Theme	Inficator	Sustainability initiatives / requirements from the EFSG This is an extract only from the relevant EFSG. For full requirements refer to https://fist.act.www.efis.auker.org.ex.	FFSG	Crossover with	Standard middere to demonstrate romaliance	Contractor's ESD consultant comments	1 Is the project compliant at this stage? Y or N	Independent checkpoint 1	checkpoint 2 Is the project compliant at this stage? Y or N	Independent checkpoint 2 checkpoint 2 checkpoint 2 checkpoint 2 checkpoint 2 checkpoint 2 compliant 5 compliant 5 stag	cont 3 Independent checkpoint 3 reoject t at this le? Commonts (27/3/23)	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3
Ec2-b carbon	EC2: Scope 1 & 2 emissions	Rattery Energy Storage System A battery energy storage system shall only be designed in consultation with SIMSW Statistical bill by exploring the storage storage storage storage storage storage Statistical bill by the storage storage storage storage storage storage storage Statistic Acating must be preferred over gas healing. Where gas healing its considered, it must be approved SIMSW statistical billing.	DG66.8.3	DAB c15 GHG Emissions Reduction; DAB c16 Peak Electricity Demand Reduction	1) As installed drawings of battery storage system	Mandatory Credit Battery systems are not appropriate for this site for the following reasons: - Load profile of the energy consumption on site does not align with spical optimal battery usage; -Sufficient power supply available at UV to site; -Confined space on site for batteries.	N/A							
Energy & EC2-c carbon	EC2: Scope 1 & 2 emissions	Instantic adalog must be prefered over gas healing. Where gas healing is considered, it must be approved by SIKEW Sustainability Alexang equipment must be designed from a whole-of II fe perspective and. - Support sustainable design principles including reducing energy consumption and chone emissions. - Be accessible and serviceable - easy be maintain with minimal impacton school use when maintanaues, being performed.	DG56	DAB c15 GHG Emissions Reduction	<ol> <li>If reverse cycle air conditioning is installed, confirmation that gas heaters are not installed, OR Dividence math targs heaters installed are energy efficient</li> </ol>	Rev 41D: EC2-c Project is pursuing VRF system which provides electric heating, not gas heating. Certifier to confirm if this qualifies for achieving this credit			¥					
Energy & EΩ-d carbon	EC2: Scope 1 & 2 emissions	Water basis Softwater and tempered water generation for schools must be carefully considered to ensure that a Whele of Life assessment is undertaken to minimise ille cycle costs and carbon emissions Environmentally Miendly options such as solar heading (if wandar resistant) and heat provide under deregy sources to minimise energy consumption.	DG53.09	DAB c15 GHG Emissions Reduction	1. WDL cost assessment for hot water systems 2. Hydraulic drawings/schematics showing installed DHW systems	Mandatory Credit There was a push for instant electric; gas was considered and rejected.			Partial	Closed with hydraulics information. FFE schedule includes gas cookers, so assume there is gas to the site?	Design drawing for electric water storage heater provided at ground floor.			
Energy & EC3-a carbon	EC3: Scope 3 emissions	Transport plan	N/A	DAB c17 Sustainable Transport		Was flagged as N/A in previous versions of ESFG workbook and was not pursued			N/A	Departure's schedule does not referenced this credit. However, contractor ESD consultant advise this is an approved departure per SINSW.				
Energy &	EG2 5000 3	Biograde storage		DAB c17 Susta inable			¥		¥					
EG-b carbon	emissions W1: Water use efficiency	Provide Jose in Lorent 20 tabletis to ASPRO Listandard Politik value conservation Martin CONSERVATION STATUTIONS must be implemented on school sites, including: Martin Conservation Statution, there and replacement includes you may any Martin Conservation Statution, there and replacement includes you may any to use of a an a laterative. Use must like calculate statution you may any Martin Conservation Table, there and the control values and for point down tables with any term of the sites. The second time of the control values and for point down tables with any martin control of the second time of the second of the second values of the values of	56552 4.3 D 653	i Transport DAB c18 Potable Water	Schedule of fragers and fittings thereing type of unitals and tage installed air as required.	Rev 410: ECI-b Provident ministen of condit bad different language. Project does include water comening taps Rev 410: With and Witha	¥	No urinals in project. Rain water harvesting is in project. VELS comply: - Taps - Toilets						
	W1: Water use	Induced Relations I production was been added to A5.5800 to the following minimum WELS usings: 1 Spaces to 5 Star Flow safe graginements Mater Cost Flows is 4 star flow range requirements Mater Cost Flows is 4 star flow range requirements Mater Cost Flows is 4 star flow range requirements Types with time flow on the used to minimize water usage and wastage for Staff amenifies and reading the star of the star and reading the star of the star of the star of the star of the star and reading the star of the star and reading the star of the star was addressed to the star of the star was addressed to the star of the star was addressed to the star of t	DG53.02	DAB c188.1 Potable Water - Sanitary Fixture	<ol> <li>Schedules of materials, finitures, fittings and equipment with WISS/Resemant ratios, demonstrating compliance and identifying these</li> </ol>	e Rev 4 (D: W1-b	Partial	WELS comply: - Taps - Toilets Note, WELS do not comply: - Shower (noted that thower quality is poor with EFSG recommended shower rating) - Olish washer - Washing machine	¥	Per architectural schedule 30(03/2022, WELS comply: - Taps - Souvera - Water Gosets				
W1-C Water	W1: Water use efficiency	Internative Watermark a time preference. Mightable services should instraint creates should make a service should be a service of the serv	DG51.01	DAB c18 Potable Water	1) Mydraulic report showing sustainability initiatious implemented to reduce patable water consumption 2) A built downing showing to adve avera are stors	Rev 4 ID: W1-c	¥							
W1-d Water	W1: Water use efficiency	V No addition to the main water meter for the site provide sub-meters for the following: - addressing buildings - addressing buildings - Adventites Islands - Graters - Gr	DG53.04		1) As built hydraulic drawings	Mandatony Credit Project design documents did not indude water submeters Flagged as a historical departure pre- construction.			N - Agreed Departure	Departure's schedule does not referenced this credit. However, contra tor FSD consultant advise this is an approved departure per SINSW.				
W2-a Water	W2 – Proportion o potable vs non-potable water	Reincour collection to det point to develop the state honesting and tank storage in new schools and to recovering it is also practical in existing schools, to reduce the demand on drinking water supplies. Tank water can connect to drip in ing also nytems for adjutent landscape (pagedes with the major preference being for gravity for gravity for minima compension maintenance).	DG53.14 DG2.4.2 DG53.01	DAB c188.2 Rainwater Reuse	1) As built hydraulic drawings showing tank connection to end uses and capacity	Rev 410: W2-a			Partial	Please provide asbuilt hydraulics drawings showing rainwater Y system.	Please provide asbuilt drawings showing rainwater system.	AWE to provide drawings.	Civil stormwater drawing notes 30,000L rainwater tank, hydraulics drawings show pump distribution for irrigation. Design compliant. AWE to provide as-builts (noted in email 5/6).	Signed off drawings provided.
W2-b Water	W2 – Proportion o potable vs non-potable water	Fire system water reuse Where schools are required to install a sprinkler system for fire safety, it is recommended to install a closed loop system must be installed to capture and reuse fire systems testing and maintenance water, or by using an alternative non-potable water roure.	DG2.4.2	DAB c188.5 Fire System Test Water	Fire engineering report	N/A - The school is not provided with a fire sprinkler system therefore W2-b is not applicable	N/A							
W2-c Water	W2 – Proportion o potable vs non-potable water	Fironed water Where ground water is a willable for use for imgation purposes in dought affected focations, enquines must be undertaken with the Department of Planning, industry and inderivated to detimine the situation of a grand water system.	D653.03	DAB c18 Potable Water		Mandatory Credit no free groundwater was observed in the bores during drilling for the short time that the ywere left open" (Section 6.1). Additionally, WS+P does not believe that the benefits of utilising ground water to irrigate would outweigh the costs of installing/maintaining this system.	N/A							

Colour Sch	ieme - Legend	I mpliance														
App	roved EFSG D Applicable to	eparture														
	PROJECT:	Darlington PS						ndependent checkpoint		Independent		Independent				
			Sustainability initiatives / requirements from the EFSG	1	1			1	Independent checkpoint 1	checkpoint 2 Is the project	Independent checkpoint 2	checkpoint 3 Is the project	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3
			This is an extract only from the relevant EFSG. For full requirements refer to		Crossover with		Contractor's ESD consultant comments	s the project compliant at this stage?		compliant at this stage?		compliant at this stage?				
ID T	heme	Indicator	https://efsg.det.nsw.edu.au/welcome	EFSG	Green Star	Standard evidence to demonstrate compliance	Updated 03-August-2021	Y or N	Comments (updated 10/1/22)	YorN	Comments (22/7/22)	Y or N	Comments (27/3/23)	Meeting notes (18/4/23)	Comments (17/7/23)	Comments (20/9/23)
		W3 -	Stormwater management									Y				
		Responsible water	Stormwater management Must al in to minimise the transportation of toxicants to waterways and other offsite environments, and maintain the existing hydrological regimes. Due diligence for flooding must be done early to inform building and landscaping design Tade wate		DAB c26	Stormwater modelling report showing stormwater pollution and flows. Civil / Hydraulic drawings showing management measures.										
W3-a N	Vater	discharge W3 –	flooding must be done early to inform building and landscaping design Trade waste	DG2.4.3	Stormwater	Water sensitive urban design report (if WSUD was use4)	Rev4ID: W3-a				Confirm kitchens and canteens in					Departure noted and agreed by
W3/b	Vater	water	Arrestors for acid, grease, plaster and clay of adequate capacity must be installed to treat wastewater from science laboratories, kitchens, art rooms and canteens as required in DG52.	0652	Not covered in Green Star	1) As built drawings showing trade waste arrestors or 2) Letter by Hydraulic Engineer confirming arrestor have been installed as required	Rev4ID: W3-b			Partial	the project do not require arrestors per DG52.	N - Agreed	additional evidence provided.	AWE to provide statement as to why not required in canteen.	No additional evidence provided.	team Nov 2021: on the basis that there is no preparation of hot food no grease arrestor is being
		WM1: Materials			DAB c19A - Life		Measure was flagged as	N/A								
WM1-a m	Vaste & naterials	selection and use	Life cycle assessment (environmental) Environmental i impacts of products and materials has been assessed and inform material selectory of the second second Total cost of owners hip (TCCD) assessment / Analysis of direct and indirect costs and	DG01.03	cycle assessment	Life cycle assessment report	recommended, not mandatory; project team is considering implementation	N/A								
			Total cost of ownership (TCO) assessment / Analysis of direct and indirect costs and benefits / Life cycle costing analysis													
			When calculating the whole of life cost for the different materials / building elements or systems, the following must be considered: - the total initial capital cost of the system/s – including design, project management,													
			builder and building services works in connections etc. - resources (energy and where applicable water) consumption.	DG01				N/A								
			A Baintenance. - the replacement of component parts. - disposal costs	DG01 All design guides for selection of												
		WM1:		of												
WM1-b	Vaste &	Materials	- vandalism - safety	and	GSC c20 - Return	Life cycle costing report for relevant system	Measure was flagged as recommended, not mandatory; project									
WM1-b #	naterials	and use	The whole of life cost shall be calculated over the estimated life of the asset/s	systems	on Investment	Life cycle costing report for relevant system	team is considering implementation							+		+
			Sublance matching the schedule based on the following: Advectable with a schedule based on the following of the following Contain reduced on no hazardows substances ( e.g. low VOD on ensure effective indows reduced and the schedule based and the schedule based and the schedule based on the schedule based and the schedule ba								Credit is N/A, as Optional credit.					
			adverse environmental impacts throughout their life cycle (refer to DG 3) - Contain reduced or no hazardous substances ( e.g. low VDC) to ensure effective indoor							N/A	Please re-instate the					
		WM1: Materials	environmental quality. Reduce the demand for rare or non-renewable resources. - Have low embodied energy and water.		DAB c21	Environmental Product Declarations of products / materials used; Product certificates (like GECA, FSC, et3) Suppliers' declarations confirming recycled contents in products	Measure was flagged as optional, not				mandatory/optional/recommende d etc. column into this matrix.					
WM1-c	Vaste & naterials	selection and use		DG02.05	Sustainable Products	Suppliers' declarations confirming recycled contents in products Bill of quantities	mandatory; Sustainable materials will be specified where possible.									
			Sustainable timber - No rainforest timbers, or timbers from high conservation forests, are to be used unless plantation grown. Use only recycled timber, engineered and glued timber composite products, or timber from plantations or from sustainably managed regrowth													
		WM1:	unless plantation grown. Use only recycled timber, engineered and glued timber composite products, or timber from plantations or from sustainably managed regrowth		DAB c20.2 Responsible			Y								
	Vaste &	Materials	forests that is FSC, AFS or PEFC certified - All timber used is to be termite (white ant) resistant or treated to be termite resistant	DG2.5.1	Building Materials -	1. Evidence of chain of custody 2. Bill of quantities	0									
wwii-d a	maternalis	and use	to the appropriate na22r0 revel.	0621.05.01	moder	2. bir or quantuu 25	Rev4ID: WM1-d							1		
							Mandatory Credit EFSG notes 'consider' disassembly; disassembly was considered however									
		WM1:	Built for disassembly				project design is not overly conducive				Departure's schedule does not referenced this credit. However,					
WML o	Vaste &	Materials selection	Consider the use of building materials which are able to be disassembled for re-use, in conjunction with considerations for the addition and removal of accommodation over time.	0.602.07			to disassembly. Flagged as a historical departure pre-			N - Agreed	contractor ESD consultant advise this is an approved departure per					
			over unite.	0001.07			CONTRACTOR .			Departure	and w.					
			Concrete													
		WM1:	- Use materials complying with AS based on the Whole of Life approach to materials selection.				Mandatory Credit Structural Engineer indicated this was				Departure's schedule does not referenced this credit. However, contractor ESD consultant advise					
	Vaste &	Materials selection	arrection. - On ond use breccia or dolerite in concrete mixes. - Flyash is a manufacturing bi-product that can be used as a cement replacement but should limited to a maximum of 20% by weight of cement content.			Structural specifications and drawings	Structural Engineer indicated this was not achievable based on budget. Flagged as a historical departure pre-			N - Agreed	contractor ESD consultant advise this is an approved departure per					
WM1-f r	naterials	and use	should limited to a maximum of 20% by weight of cement content. Operational waste	DG21.02	DAB c198.1	Structural Engineer's report showing %cement replacement	construction .			Departure	SINSW.					
			Operational waste A waste storage area must be included in all new school sites. The provision of space must include source separation including bin stations and appropriate signage of waste and receptacles for multiple waste streams, including:													
			waste and receptacles for multiple waste streams, including: - Organics - Comingled containers - Paper & cardboard													
			- Paper & cardboard - Container denosit scheme						Generally ok, OWMP provided.							
			- Soft all redupps it scheme - Soft all static - General waste						Please inlcude soft pastic within the recyclable bins.							
			Designers must refer to AS 4123.7 Mobile waste containers - Colours, markings, and designation requirements for further guidance on bin colour, waste stream and waste					Y	Awe - Plans updated to include soft plastics. Drawing Extract	Y						
			type. Safe methods for vehicle access and the transfer of waste must also be considered.						soft plastics. Drawing Extract filed.							
		WM2 – Resource	For new and refurbished schools, an operational waste management plan (OWMP) must be developed to establish operational waste targets, identify opportunities for reuse and recycling in the operation of the facilities and make adequate provision for the facilities to accommodate for the OWMP: The OWMP must address all requirements													
	Vaste &	efficient	the facilities to accommodate for the OWMP. The OWMP must address all requirements from DG 2.7.2		DAB c8 Operational	Operational waste management plan										
WM2-a #	naterials	operations		DG02.07	Waste	Operational waste reports showing diversion rates	Rev 4 ID: WM2-a							+		+
							Mandatory Credit Future proofing review did occur in	Y								
		WM2 -					the design stage for the expansion of the building; The building is a									
	Vaste &	Resource efficient	Building flexibility Position structural members considering the future flexibility of the structure. Avoid ad hoc placing of columns internally, giving preference to uniformity in layout. Design all internal walls as non-load bearing to enable future flexibility.		Not coursed		concrete framed structure, all internal walls are non-loadbearing and accordingly can be reasonably readily									
WM2-b	Vaste & naterials	operations WM3 -	Internal walls as non-load bearing to enable future flexibility.	DG21.1.16	Not covered in Green Star DAB c22 Construction	As built drawings or statement by relevant professional	accordingly can be reasonably readily moved or removed.		Clear waste reporting document.							
,	Vaste &	Responsible management	Construction waste		Construction and Demolition	Construction waste reports showing percentage of waste re-used and		Partial	Please resubmit when construction is finalized to check	Partial	Only 4 months of reporting provided, please provide for the duration of construction.	Y			Reports up to May 2023 provided	
WM3-a n	naterials	of waste	Consider opportunities for re-use and recycling of materials in the construction phase Operational waste A waste storage area must be included in all new school sites, with the provision of space for the separation of waste and receptacles for multiple waste streams,	DG02.07	Waste	recycled (diverted from landfill)	Rev4ID: WM3-a		final percentage. Generally ok, please inicude		control of construction.					
			space for the separation of waste and receptacles for multiple waste streams, including:						soft pastic within the recyclable bins.							
		WM3 -	- general rubbish, - co-mingled recycling,					Y		Y						
,	Vaste &	Responsible management	pparte for the separation of waste and receptacies for multiple waste steams, individing: - general rubbish, - opager and cardboard, - secure waste, and		DAB c8 Operational				AWE - Soft plastics included within 'plastics' column. Email confirmation filed.							
WM3-b m	naterials	of waste	- green waste.	DG02.07	Waste	As-built drawings showing location of waste storage area	Rev4ID: WM3-b									
							Mandatory Credit	N	Evidence provided is a landscape accesibility certificate which doesn't clarify		Architect design certificate noting compliance with DG90.6, which					
		P1 – Green	Environmental conservation education Environmental conservation education The design of the facilities provide unique and valuable environmental conservation learning opportunities and effective environmental modelling to the wider community.				Mandatory Credit Noting there was no ecologist on site in design stage; rely on, landscape		how this credit has been achieved.		includes 'Educational Landscape'.					
P1-a P	face	infra structure	learning opportunities and effective environmental modelling to the wider community.	D G 02.06		Statement / Report by qualified ecologist	architect design statement									

	eme - Legeni oved EFSG Co														
Approved 6595 Departure Not Applicable to Project															
	PROJECT	Darlington PS						Independent checkpoint 1	Independent checkpoint 1	Independent checkpoint 2	Independent checkpoint 2 checkg	endent soint 3 Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3
			Sustainability initiatives / requirements from the EFSG				Contractor's ESD consultant comments			Is the project compliant at this	is the complian	project vt at this			
пр ті	heme	Indicator	This is an extract only from the relevant EFSG. For full requirements refer to https://efsg.det.nsw.edu.au/welcome	EFSG	Crossover with Green Star	Standard evidence to demonstrate compliance	Updated 03-August-2021	at this stage? Y or N	Comments (updated 10/1/22)	stage? Y or N	Staj Comments (22/7/22) Y o	ge? r N Comments (27/3/23)	Meeting notes (18/4/23)	Comments (17/7/23)	Comments (20/9/23)
								Y							
			Productive landscape												
P1-b P	lace	P1 – Green infrastructure	Consider including opportunities for development of community garden within the site and relationships with community groups for this to occur.	D G 02.06	GSC c14.2 Local Food Production	Site plan demonstrating location and size of community garden	Rev 4 ID: P1-b								
			Drinking water catchment protection For developments within drinking water catchment areas, a water cycle management				Mandatory Credit								
			For developments within driving water catchment areas, a water cycle management study is to be included with the Development Application for Education Facility developments involving:				N/A - The site is not within drinking	Y							
		P1 – Green	- Agriculture facilities - Biosolids and effluent re-use schemes - Severage systems or works finduding package severage treatment plants)		GSC c24	1. Water cycle management study 2. Evidence that recommendations in the study have been followed / implemented	water catchment; Refer to Civil Concept Design Report for proposed water guality and water guantity								
P1-c P	lace	infra structure	Exceptions and enhancements summers Severage systems or works (including package severage treatment plants) Stomwarter or works including the disposal of unreated mont? Sis investigations for place marking Community Connections The following detailed reports/ survey/ information should be considered in developing the business case:	DG51.07	Integrated Water Cycle	implemented	control measures.								
									Documentation provided covers culture heritage and identity.						
			- Gimate and microclimate - Heritage significance / impact		GSC c12 Culture,				Pending site investigation reports & surveys						
			- Appraisal of physical and visual factors affecting site development - Available transport/road infrastructure servicing the site - Geo-technical and Soil reports will be required for each site to investigate the		Heritage and Identity		REV 4 id: P2-a Credit met through targeted	Y	AWE - Hazardous building materials assessment and	Y					
		P2 – Community &	suitability of the topsoil and anticipated sub-grade materials for horticultural ournoses		DAB 24.2 Contamination and Hazardous	1) Relevant reports/surveys developed (these ideally include recommendations for further development stages) 2) Evidence demonstrating recommendations / best practice solutions	connection to indigenous history during design; documentation to		management plan filed as requested.						
P2-a P	lace	heritage connections	Forsting for toxic residues must be undertaken in all areas identified as being a possible risk - i.e. filled or dumped ground. Sense of place The following design originales to every landscape zone of the school	DG03.02	and Hazardous Materials	<ol> <li>Evidence demonstrating recommendations / best practice solutions have been implemented/addressed.</li> </ol>	provide history of engagement with local community								
		P2 -	A healthy and safe landscape					Y							
P2-b P	lace	Community & heritage connections	- A sense of place - A sustainable landscape - A low maintenance landscape	DG90.04	Not covered in Green Star	1) Landscape design report 2) Landscape drawings	REV 4 id: P2-b								
								×	Community use has been included in the design. School will have to confirm if						
								·	community access will be allowed.						
			Community use of facilities			1. Confirmation by the Architect that direct access has been provided to									
			Some school facilities are used out of hours for activities such as weekend church groups, sport events and public meetings. Laise with the Project Director to gain an understanding of any shared use, or community use arraneements that are being			open space and any other facilities that could be shared with the community. 2) A list of community engagement activities undertaken to develop a									
		P2 – Community &	considered for the site.		DAB c30B	community benefits strategy. 3) Plans clearly outlining how the outcomes from the community benefits									
P2-c P	lace	heritage connections	New schools should be designed so that direct access to the open play space, fields , hall and gym can be achieved without the public gaining access to the buildings.	DG16.08	Community Benefits	strategy have been implemented in the project 4) Joint-use or lease agreements where already in place	REV 4 id: P2-c								
											P2-a evidence contributes to intent of this credit. Please re-				
		P2 – Community &			DAB c30D	1) DoE's Reconciliation Action Plan				N/A	instate the mandatory/optional/recommende d/N/A etc. column into this matrix.				
P2-d P	lace	heritage connections	Reconciliation action plan	N/A	Reconciliation Action Plan	2) Evidence of the project's relationship with the RAP, e.g. actions implemented in line with RAP, etc.	This was flagged as "N/A" in the previous V4 ESFG workbook				d/N/A etc. column into this matrix.				
											Provide sample rooms (including		same as previous daylighting credit		
						1. Daylight modelling report demonstrating how natural daylight has been	1				classrooms), with prescriptive 1 daylight analysis.	No additional evidence provided.	<ul> <li>daylight modelling now completed and will be provided.</li> </ul>	Daylight modelling report provided.	
		P3 – Welcoming	Daylighting			<ol> <li>Deprint modeling report contracting intermediate outprogram and maximised in all habitable spaces; and</li> <li>As built drawings demonstrating that the model accurately represents the building (i.e. window size and location; skylights installed, etc.) and</li> <li>Specifications supporting inputs used in modeling (e.g. skylights and</li> </ol>									
P3-a P	lace	learning spaces	Daylighting Maximise natural daylight in all habitable spaces to improve indoor amenity and create a pleasant environment.	DG2.3.1	DAB c12 Visual Comfort	3. Specifications supporting inputs used in modelling (e.g. skylights and glass specs)	REV 4 id: P3-a								
			Daylight glare control						How come this is noted as a						
			Discomforting glare and brightness contrasts must be avoided. Designers must seek to: - Exclude direct sunlight from all learning spaces, libraries, administrative offices and						departure? Appears compliant. Confirm there is no North façade and East façade is completely		In additions, installation of		]		
			organ gate units Discomforting giare and brightness contrasts must be avoided. Designers must seek to: - Exclude direct sunlight from all learning spaces, libraries, administrative offices and traff studies for the period of 9 South on 3.30pm including fastern Daylight Saving Time Between Jist Sptember to Jist March (equinose). - Exclude direct sunlight from desk level in all learning spaces between 9am and					Y	shaded/covered. Provide general layouts/elevations showing	Y	blinds blocking glare noted in sun study, is accepted in design				
		P3	3:30pm. Sun exclusion and plare control can be achieved by the use of elements such as: Sun			1. Daylight glare modelling report / sun diagrams showing direct sunlight			louvres. AWE - Evidence showing east		issues register.				
		Welcoming	shades, eave extensions, vertical blades and the like. Glare must only be controlled by blinds as a last resort. Designers must prepare sun diagrams in the design phase as a minimum requirement.	DG12	DAB c12.0 Glare	has been excluded as required. 2. Drawings supporting inputs of model, showing location of blinds and			AWE - Evidence showing east and north façade coverage filed.						
P3-D P	ace	spaces	Lighting comfort	0607.01	Reduction	eny oner grare control device	REV 4 id: P3-b								
			Consider the furniture layouts to determine the orientation of luminaires. Especially when positioning luminaires in Materials Technologyspaces to ensure adequate illumination on machines and work surfaces;								Isolux drawings/calcs provided only for storage rooms and external areas. Would expect				
			illumination on machines and work surfaces; - avoid potential stroboscopic effects and avoid shadows from ductwork - Mount luminaires as high as possible, but generally no higher than 4000mm AFFL									Isolux drawings/calcs provided only for storage rooms and external areas Would expect similar checks to be			
			<ul> <li>Mount rommarks as mign as possible, our generative impret man economiser: (excluding Gymnasiums and Halls), to improve luminance uniformity and reduce direct glare in the direction of normal view</li> <li>The standard lamp colour temperature is 4,000°K, except in certain toilet areas where</li> </ul>							Partial	typical classroom.	done for typical classroom.	AWE to check - should have been done.	Preliminary lighting calculations provided.	
		92	<ul> <li>The standard lamp colour temperature is 4,000%, except in certain toilet areas where the Design Guide requires the use of blue colours</li> <li>Compliance with the usifemption requirement.</li> </ul>			1) Lighting drawings 2) Architectural drawings 2) Lighting constitutions / scheduler					compliance/summary for UGR calcs, showing compliance to AS 1680.	Please highlight within O&M manual which section complies to this credit			
		Welcoming	<ul> <li>The standard lamp contor emperature is solve (except in tertain torical rates where the besign due requires the use of blue colour.</li> <li>Compliance with the uniformity requirements of the applicable standard should be demonstrated by the presentation of the output from lighting design software.</li> <li>Unified Glare Rating (UGR) must be calculated using design software and compliant with the maximum recommended in AS/N25 1800-1006</li> </ul>	DG63.03	DAB c11 Lighting	3) Lighting specifications / schedules 4) Product data sheets 5) Isolux plot drawings					1680.				
P3-c P	lace	spaces	with the maximum recommended in AS/NZS 1680.1:2006	DG63.03.0	5 Comfort	5) Isolux plot drawings 6) Lighting modelling report showing compliant uniformity and UGRs	REV 4 id: P3-c								

Colour Scheme Approved	EFSG Com	pliance														
Approved FFSD Departure Net Applicable to Project																
	PROJECT:							Independent checkpoint 1	Independent checkpoint 1	Independent checkpoint 2	Independent checkpoint 2	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3
			Sustainability initiatives / requirements from the EFSG				Contractor's ESD consultant comments	is the project contribut		Is the project		Is the project				
ID Them			This is an extract only from the relevant EFSG. For full requirements refer to https://efsg.det.nsw.edu.au/welcome EFSG	s (	Crossover with Green Star	Standard evidence to demonstrate compliance	Updated 03-August-2021	at this stage? Y or N	Comments (updated 10/1/22)	stage? Y or N	Comments (22/7/22)	stage? Y or N	Comments (27/3/23)	Meeting notes (18/4/23)	Comments (17/7/23)	Comments (20/9/23)
P3-d Place		P3 – Welcoming learning spaces	Suppley enabling Suppley devices is solid be carried out utilising industry standard lighting design software such as ADED, Dalau or felex. Modeling must provide output that i classify demonstrates that the proposed design is some provide the supplex of the supplex of the supplex of the supplex of provide the supplex of the supplex of the supplex of the supplex of provides such as Supplex of the supplex of the supplex of the supplex of provides such as Supplex of the supplex of the supplex of the supplex of provides such as Supplex of the supplex of the supplex of the supplex of provides such as Supplex of the supplex of the supplex of the supplex of provides such as Supplex of the supplex of the supplex of the supplex of the supplex of provides the supplex of the	C 1 13.03.02	DAB c11.1 General Illuminance and Glare Reduction	Lighting modelling report confirming compliance with required standards	Mandatory Cedit REV 41d: P3-c			Partial	Lighting modelling report or statement should accompany isolax drawings/cals, clearly demonstrating compliance with AS 1880.	¥	Itolux dra wings/calc: provided only for storage rooms and external areas. Would expect similar checks to be done for hysical discission. Lighting modelling report or statement should accompany tolout drawings/calcs, chearly demonstrating compliance with AS 1680.	AWE to check - should have been done.	Preliminary lighting calculations provided.	
P3-e Place		P3 – Welcoming spaces	Exemal access tybing Bernah Access tybing shall be provided to illuminate building entrances, botpa the haltimed willways, roadways and car yank. External Access tybing must: the access of the access of the access of the access of the access of the haltimed will ways, roadways and car yank. External Access tybing must: the access of the access of the access of the access of the access of the haltimed access of the access of the access of the access of the cargest and cadways) and internal security lighting for forotaths, wilkways and humanism to decess of the access of the access of the access of the Haltimed to decess of the access of the access of the access of the humanism called the access of the access of the access of the Haltimed to decess of the access of the access of the access of the humanism called the access of the access of the access of the access of the humanism called the access of the access of the access of the humanism called the access of the access of the access of the access of the humanism called the access of the access of the access of the access of the humanism called the access of the access of the access of the access of the humanism called the access of the access of the access of the access of the humanism called the access of the humanism called the access of the access of the access of the access of the humanism called the access of the access of the access of the access of the humanism called the access of t	0 F 3.08.01	DAB c27.0 Light Pollution to Neighbouring Bodies	) At built drawings indicating the location of all external luminaires Diffacture by lighting designer describing glane provention massures	REV 4 id: P3-e			Partial	Is there external lighting on the West faça de building entrances? Design certificate provided with confirmation of compliance to AS 4282.	¥	No additional evidence provided.	AWE to provide statement confirmation.	Design Compliance Certificate provided confirms compliance with A5 425	
P3-f Place		P3 – Welcoming Iearning spaces	Themat context The indication of the indication of the indication of the Department's the indication of the indication of the indication of the Department's the indication of the indication of the indication of the Department's the indication of the indication of the indication of the Department's the indication of the indication of the Department of the Indication the Indication of the Indication of the Indication of the Indication of the Indication the Indication of the Indication of the Indication of the Indication of the Indication Department of the Indication of the In	6.03 5.01 5.02 0	DAB c14 The rmal Comfort	1) Mechanical drawings showing MVAC systems installed, or 2) Confirmation from sub-contractors that services have been installed an commissioned as required; and 3) Modelling reports thowing required PMV is achieved. Modelling report to be done in inc with methodologied described in Oatt Themail comfort and finders are quality from performance built for OASS	1 NEV 41d: P3-1	Y	Thermal modelling hase been undertaken to demonstrate that learning spaces and libraries have been designed to achieve a predicted mean vote (PMV) of +/- 0.5 for 95% of occupied hours							
P3-g Place		P3 – Welcoming learning spaces		5.02 I 8.06 I	DAB c10.1 Internal Noise Levels	1. Mass, cell juricelt, industrial and spin finite aussessment as per VDE100 1. Applied (glassified autococcus) und statistication genera	107416 75 g	Partial	Evidene of noise measurement in 10% of spaces to be provided.			¥	No additional evidence provided.	Mace to check if in scope.	No addillonal eiddence preided.	Pulse White Note Acoustics report provided, showing compliance though on-site note massurements
P3-h Place		P3 – Welcoming Ispaces Welcoming Ispaces	Rans-to-com noise control The following elements have prescriptive acoustic performance or construction requiring elements have prescriptive acoustic performance or construction requiring elements in the control music performance or construction in the control of the control music performance or construction in the control of the control music performance or construction minimum 30.8 mm bandwed pieces was ther (where elements) is as it on all related control of the control music performance or construction minimum 30.8 mm bandwed pieces is no ended in the dispetent is there all one all performance of the control of the control music performance on the off "Where adoption the present formation adoption to present form the dispetent coupled piece. Control on between the adoptions in the instructor that be a 'n taggery performance and the source adoption is the present form the dispetent coupled piece. Control on between the adoptions present form the dispetent coupled piece is control on the dispetent adoption is the present form the dispetent coupled piece is control on the dispetent adoption is the source of the dispetent coupled piece is control on the dispetent adoption is the present of the dispetent coupled piece is control on the dispetent adoption is the source of the dispetence of the dispetence of the dispetence of the dispetence adoption is the dispetence of the dispe	1.05	DAB c10.3 Acoustic Separation	<ol> <li>Detailed drawing, including the assurble datage specification of parabite walky, entry deeps, internal gased section, etc. DR.</li> <li>Occurrent by a gashfeet assurble consultant continuing compliants</li> </ol>	16V 416 79.h	Y	varse apport notes that express notice emission has not been	Y	Compliance accounted to SSDA					
P3-i Place		learning spaces	(such as air conditioners) are the subject of a development consent conditions. In NSW the development consent conditions will refer to the Industrial Noise Policy (INP) or DG11	1.04	Not covered in Green Star		REV 4 id: P3-i		assessed (at that stage). Merhanical design statement		mechanical plant provided.		-			
P3-j Place		P3 – Welcoming spaces	Accessity poil occupancy evuluation Pest Occupancy evuluations as of the understaten to assess the performance of recompy compared or existing of collinae. Where a host Occupancy featuration is to be phond be understaten of released accessing parameters only. Scalustion may include: - Heart a most energy. - Heart and existing entry of the entry of t	1.07	GSP c13 internal Noise Levels	<ol> <li>Converting of the conduct accounts post occupancy evaluation.</li> </ol>	Optional Gredit AVE to engage Pulse White Acoustics to undertake post-occupancy evaluation of certain a reas.			Partial	Post-occupancy evaluation required.	¥	Evidence provided does not match credit. Credit is 'optional' in EFSG. Please confirm with SI whether acoustic pot- occupancy evaluation will be undertaken. Please includes TESG type' column in this schedule, to clearly identify which EFSG credits are mandstony/optional etc.	Mace to check if scope.	No additional evidence provided.	Pulse White Noise Acoustics report provided, showing compliance through on-site noise measurements
P3-k Place			New VGC-entropy exhetion is unclear assembler, and either volubility arguing compared (VOC) emitting products including addressing, and either volubility and addressing addressing and addressing addressing addressing addressing addressing addressing addressing addressing addressing addressing addressing addressing addressing addressing AMASI VOC Lines for Larve VOC pains. AMASI VOC Lines for Larve VOC p	15.2	DAB c13 Indoor Pollutants	Product specifications, certificates, safety datasheets that demonstrate prev VC centration	REV 4 (d: P3-k				ECI-P does not relate	¥	Provide product specifications, certificates, safety data sheets that demonstrate low-VOC contents in materials installed/applied.	AWE to provide datasheets for items in bill of quantities.	Datasheets and BOQ for paint with low VOC content provided. Paints complyte VOC limits. Sealants do not complyte VOC limits in GS. Datasheets with VOC content not provided for floorings.	Datasheets with VOC content no provided for floorings. Concrete sealant and carpet adhesive provided which complie 16/10/23: carpet + adhesive VOC information provided - complies
P3-I Place		P3 – Welcoming learning spaces	Conformation and a second seco	15.2 F	DAB c13 Indoor Pollutants	Product specifications, certificates, safety datasheets that demonstrate low-formal dehyde contents Bill of quantities	REV 41d: P3-1				Documents provided do not relate	Y	Provide product specifications, certificates, safety datasheets that demonstrate low formaldehyde contents in materials installed.	AWE to provide datasheets for items in bill of quantities.	Documents provided do not relate.	9/10/23:contractor confirm no engineered wood in project.

olour Scheme Approved I	EFSG Com	pliance													
Not Appl	Approved EFSG Departure Not Applicable to Project														
	ROJECT:	Darlington PS						Independent checkpoint	Independent checkesiet 1	Independent check colut 2	Independent Independent checkopiet 2 checkopiet 2	Indonandant chackmeint 2	Independent chark point 2	Independent check point 2	Indonesiant charkmoint 2
			Sustainability initiatives / requirements from the EFSG							is the project	Is the project compliant at this		independent checkpoen 3	marpendent che coponit 3	maganatin carequint 3
			This is an extract only from the relevant EFSG. For full requirements refer to		Crossover with		Contractor's ESD consultant comments	Is the project compliant at this stage?		compliant at this stage?	compliant at thi stage?	s			
Theme		Indicator	https://otsp.det.nsw.ndu.au/weicome Ventilation in printing rooms The ventilation system is to be designed to serve the whole room and is not intended	EFSG	Green Star	Standard evidence to demonstrate compliance	Updated 03-August-2021	Y or N	Comments (updated 10/1/22)	YorN	Comments (22/7/22) Y or N	Comments (27/3/23)	Meeting notes (18/4/23)	Comments (17/7/23)	Comments (20/9/23)
			The ventilation system is to be designed to serve the whole room and is not intended to provide localised exhaust at equipment. O lischarge air from the ventilation unit to the outside of the building via a vermin												
									Location of print room/printers						
			- Draw make-up air from inside the building through wall or door grilles. - Locate the inlet/s and exhaust to achieve good airflow across the room in plan and					Partial	not evident on the mechanical drawing provided. Please clarify	Y					
	F	P3	elevation to pick up all machine emissions. -Ensure the airflow doesn't draw equipment emissions across operator's face. -Note that the room door in many schools may be left open in normal daily operation.						where printers are installed.						
	4	Welcoming learning	Allow for this when locating the exhaust fan so that cross ventilation is achieved with		DAB c9.3 Exhaust or Elimination	1. Mechanical drawings and specifications showing compliant printing	REV 4 id: P3-m								
-m Place	5	spaces	make-up air drawn through the door opening. Chemical store ventilation	0657.07	of Pollutants	room ventiation	REV 4 Id: P3-m								
			Broulde mechanical exhaust surtem with high and low lovel exhaust points to all												
			A chemical stores, with a minimum of 15 air changes per hour flow rate. - Discharge air according to the requirements of BCA. The discharge outlet is to be fitted with hoir wire mesh.												
			Itted with bird wire mesh. Provide make up air to all chemical stores, (to replace exhausted air) through openings in an external wall, fitted with weatherproof louves. All grilles and louves are to be fitted with wandal proof bar and be fitted with wemin mesh. For security and fire rating reasons do not use windows/doors or door grilles for air					N/A							
	5	P3 – Welcoming	are to be fitted with vandal proof bars and be fitted with vermin mesh. For security and fire rating reasons do not use windows/doors or door grilles for air												
3-n Place	6	learning spaces	The chemical stores wentilation sustems are to pup continuously	DG57.09	Not covered in Green Star		N/A - there are no chemical store								
			Particle free environments Schools must be designed, constructed and maintained, without using chemicals for termite and other pest control.												
	P	P3 – Welcoming									Y	Please provide statement from AWE that no pesticide/termicide is used.	AWE/Introba to provide statement.		Statement provided that termite protection is not required.
B-o Place	li S	learning spaces	No chemical pesticides and termicide to be used. Preventive treatments to be by physical means and careful design to minimise risk	DG2.5.3	Not covered in Green Star	Statement by head contractor that no pesticides or termites have been used.	REV 4 id: P3-o								
							Flagged as N/A								
							We understand that SINSW have implemented a standardised	N/A							1
	P	P3 – Welcoming					cleaning contract across all schools. We would be unable to dictate how								
3-p Place	5	learning spaces	Green cleaning	N/A	GSP c6 Green Cleaning	1) WEB Clean School User Guide 2) Green Cleaning specifications	this is implemented as this is a post construction activity.								
	P V	P3 – Welcoming	Fly free indoors Fly screening must be provided in all schools to the doors, windows and other		Not covered in					Y	Kitchen and canteen with no door/window to external.				
-q Place		learning	openings in food preparation, biology, and non-water-closet toilet spaces or where	DG31.01	Green Star	As-built drawings showing fly screening has been provided as required	REV 4 ld: P3-q								
			Indoor CO2 levels For mechanically ventilated spaces: 1: Outdoor air ventilation rates are in accordance with requirements of AS 1668.2.												
			Outdoor air ventilation rates are in accordance with requirements of AS 1668.2.     Mechanical ventilation systems shall be linked to CO2 sensors to provide demand-												
			2. Mechanical ventilation systems shall be linked to CO2 sensors to provide demand- controlled ventilation within each space to ensure that CO2 levels are maintained below the required CO2 threshold.												
			<ol><li>Mechanical ventilation systems shall be designed to provide adequate access for maintenance and cleaning.</li></ol>												
			<ol><li>Ventilation systems are designed to maintain an average daily CD2 concentration as per the latest NCC code, and so that the</li></ol>					Y							
			maximum concentration does not exceed 1,500ppm for more than 20 consecutive minutes in each day. 5. The required outdoor air ventilation rates and CO2 concentrations shall be												
			maintained without the need for any human intervention e.g. the opening of windows												
			or external louvres. 6. Ventilation systems shall be designed minimise the entry of outdoor pollutants												
	F	P3 -	through ensuring that the ventilation system design is in accordance with the relevant parts of AS 1668.2, and ASHRAE Standard 62.1.												
	4	learning	<ol> <li>Where local sources of pollutants are present e.g. photocopiers, minimum exhaust ventilation flow rates should be provided in accordance with ASI688.: Table B1.</li> </ol>	0.000	DAB c9 Indoor Air Quality	Mechanical drawings and specifications	REV 4 id: P3-r								
Pr Mace		spaces		0655.02	Air Quality	Extracts from commissioning report	REV 4 ID: P3-F								
			Ecological construction School's sites must conserve for future generations, the biological diversity of genetic materials, species and ecosystems on that site and consider the surrounding natural environment. The design of the facilities must provide unique and valuable												
			environmental conservation learning opportunities and effective environmental modelling to the wider community. Schools must model best practice design, material use, systems and operational												
			Schools must model best practice design, material use, systems and operational methodology, demonstrating human's connections to nature and the operation of natural cycles of sun, wind, rain and the four seasons. Schools must connect with												
			natural cycles of sun, wind, rain and the four seasons. Schools must connect with nature and incorporate biophilic design principles.												
			nature and incorporate biophilic design principles. Open space must allow for exploration, and biodiversity and earth education to enhance the site's outdoor learning potential.				Mandatory Credit			Y					
			New and refurbished schools must: Preserve or re-establish native flora (unless it poses a safety risk or cannot be				Project team note: the previous (v4)								
			designed around) and create new landscapes through liaising with local government authorities, Landcare and environmental groups, and the use of native low water use		DAB c23	1) Biodiversity or ecological assessment / local flora and fauna survey	ESFG guide had differing language. The keypoint is the reference to DG90								
		e2	plants. Consider opportunities for development of community garden within the site and relationships with community groups for this to occur. Adequate due diligence must be conducted where biodiversity or high ecological value		Ecological Value GSC c29 Ecological Value	1) Biodiversity or ecological assessment / local flora and fauna survey 2) Biodiversity management plan describing measures for the conservation and protection of threatened species or communities, biodiversity enhancement, tree protection, etc.	Landscape Design, which is from the EFSG. fjmt to provide a design statement confirming compliance								
	,	P3 – Welcoming learning	relationships with community groups for this to occur. Adequate due diligence must be conducted where biodiversity or high ecological value is identified on the site.		(incl Biodiversity	piodiversity enhancement, tree protection, etc. 3) Evidence demonstrating measures have been implemented to protect and enhance endangered species / ecological communities identified; to	with these principles.								1
s-s Place	s	spaces	is identified on the site. For more details see DG90 Landscape Design	DG02.06	Enhancement)	and ennance endangered species / ecological communities identified; to preserve or re-establish native flora; etc.	Rev 41D: P3-S								
			Accessibility												1
			All new facilities must meet current DTS provisions of the NCC and the associated standards.								Has an accessibility plan or access review by a specialised		End of stage 2 still to be completed		
			Generally AS 1428.1 is the minimum design standard for access and mobility. However, It is DOE's policy that any enhanced requirements noted in AS 1428.2 be incorporated in								consultant been carried out? Or accessibility compliance		(Mid May) - will be provided for stage 1 and then 2 at as-built.		Accessibility compliance stateme
			any new design. Additionally, DoF have enhanced circulation requirements as noted in DG /							Partial	statement produced for Y occupation certificate?	No additional evidence provided.	Mana and an based of	No additional evidence provided.	provided.
			CIRCULATION - Provide hearing augmentation system for areas that have amplification, generally within Gymnasium, libraries, movement studios and Communal Halls, provide a system								Please highlight on drawings		augmentation included in communal hall. AWE to provide		16/10/23: hearing augmentation compliance certificate provided
	F	P3 -	to assist the aurally challenged to hear music and speech within the main auditorium			1) Accessibility plan 2) As-built drawings or other evidence demonstrating that minimum and enhanced accessibility requirements have been provided for walkways,					hearing augmentation systems or provide other evidence.		drawing/photos.		
	N.	Welcoming learning	and on the stage • Provide the International Symbol for Deafness to indicate that an assistive hearing	DG19.01	DAB 30D Universal	corridors, ramps, etc.									
s-t Place	s	spaces	device is installed.	DG65.14	design	3) Photographic or other evidence of signage installed	REV 4 id: P3-t								
															1
															1
										Y					
	F	P3 -													
	N N	wercoming	weather protection						1			1	1	1	1
	b.	learning	Grculation areas provided between administrative, staff and all student spaces (except Agriculture), should be protected from sun, rain and unfavourable winds.		Not covered in	As built drawings showing circulation areas are protected as required	REV 4 id: P3-u								

Appro	Calour Scheme - Legend Approved EF9G Compliance														
Appro Not A	Approved EPSG Departure Not Applicable to Project														
	PROJECT:	Darlington PS			-			Independent checkpoint 1	t Independent checkpoint 1	Independent checkpoint 2	Independent checkpoint 2	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3 Independent checkpoint 3
ID Th	eme	Indicator	Sustainability initiatives / requirements from the EFSG This is an extract only from the relevant EFSG. For full requirements refer to https://efig.det.nsw.ddu.au/welcome	EFSG	Crossover with Green Star	Standard evidence to demonstrate compliance	Contractor's ESD consultant comments Updated 03-August-2021	Is the project compliant at this stage? Y or N	t Comments (updated 10/1/22)	Is the project compliant at this stage? Y or N	Comments (22/7/22)	Is the project compliant at this stage? Y or N	Comments (27/3/23)	Meeting notes (18/4/23)	Comments (17/7/23) Comments (20/9/23)
		P3 – Welcoming learning	Opension parts The second sec		Not covered in			¥	Was there a school previously on this site? The calcs show pre- school open play are less than 10m2 per student. This is a small areh bower, majority is compliant.						
P3-v Pla	ice	spaces P3 – Welcoming learning	than the existing m2 per student currently on the site.	DG10.03	Green Star GSI c Amenity	Plan view drawings showing provision of open space	REV 4 id: P3-v	Y							
P3-w Pla		spaces P3 = Welcoming learning	Staff room	N/A	Space DAB c30D Integrating Healthy	2) Evidence of staff room delivered accordingly 1) Research report behind Healthy Canteen Policy 2) Evidence that policy initiative has been incorporated into the school	REV 4 id: P3-w This was flagged as "N/A" in the previous V4 ESFG workbook, however project will probably comply as this is	N/A							
P3x Pg		spaces	Multiply determines party Starty for each of the second s	DG14.02 DG31.03 DG53.16 DG53.16	Invironments	<ol> <li>Sofery kis assessment.</li> <li>Sofery kis assessment.</li> <li>Sofery kis assessments.</li> <li>Sofer report identifying safetyeytesign principles interpreseled / Sign of by less district doe confirmments in DOM.</li> </ol>	a tot gerational gollov	Partial	Provide Item 2., as all Items In Risk Register an object as provide Item 3. or detail tomos the animatic as a state of the state tank/filtration system.	Partial	No additional documentation provided for item 2. Item 3 explanation given is adequate.	¥	No additional evidence provided.	Stage 1 to be provided. Stage 2 provided stars built.	Frail 13 fey in design risk register provi død.
P3-z Pla	ice	P3 – Welcoming learning spaces	Morphal control As a measure to prevent topicnerilla, heated water to hand basine, showers etc. shall be an exact to prevent opticate as the set of the set of the imprevent water generation as to ach prioritor function. Valves need to comply with microbe disinfection nequirements. "Code of Practice for Themstatist Kinney Valves KINI" as approved by the KINI wall To Department.	DG51.09 DG53.11		<ol> <li>Letter by hydraulic engineer confirming hot water is stored above 65 deg and that valves comply with code of practice.</li> </ol>		¥							
P3-aa Pia	rce	P3 – Welcoming learning spaces	Security Schrift in beigin and Crime Prevention Though Environmental Design (CPTD) Addie on the electronic curveillance systems can be sought and you for design phase. CCV systems are required in several locations where indicated in the Rooms and Species Technical Data bits, including: -Secondary clinic - Johanny	DG14.10 DG65.08 DG65.10	GSC c15 Safe Places	<ol> <li>Crime risk assessment or equivalent</li> <li>Evidence of designing out crime principles implemented</li> <li>Scattry services plans, schooles and forms by School Scarthy Unit 19 Stream and evidence of input on project specification</li> </ol>	REV 4 1d: P3-aa	Ŷ	Provide as-built evidence of CCTV installations. FIMT report does not specify these locations.	¥					
P3-ab Pia	ce	P3 – Welcoming learning spaces	Hazahan sankatiki Mera a new scholari ta ba developed a kazardous materialis study is to be with the a new scholarity. Asketta calculation Asketta	DG48.01	DAB 24.2 Contamination and Hazardous Materials	L. Hazardova material (; słudy / site inspection region / jewery z dzazagowaj piska for kazardow warza (; jewerłod z dzazagowaj piska for kazardow warza (; jewerłod z dzazagowaj piska for kazardow warza) (; jewerłod z dzazagowaj piska for kazardowa)	86V 41d: P3-a0	Partial	Hazardovs Material assessment and Management Plan acceptable. Povide dearance certificates when a vallable.	Y					
P3-ac Pla	ice	P3 – Welcoming learning spaces	Digital infrastructure New buildings and refurbishments are required to provide a common wireless solution compatible arous the school providing a consistent user experience and support solutions and the support and site set which each difference interviewing experiment, such as wireless accession and site set which each difference interviewing experiment.	DG64.12.0	GSC c22.2 Digital	1) Contracts describing the network infrastructure specification and operational requirements	REV 4 id: P3-ac					¥	No additional evidence provided.	AWE to check with Kerloot.	10/10/23: aruba wireless access points datasheets provided, confirmed by contractor as used on project.
P3-ad Pia	ice	P3 – Welcoming learning	Section3019 beckmaring Ecological (5) section345 Development principles must be included in any new school because a school of the back and ground be been manaked to achieve a 5 Mar Grean and Control (5) and the back and ground because a school of the back and school of the back and the back and ground because a school of the back does not achieve a school of the same and the defined of the Grean Star control down as the the of the same and the defined of the Grean Star control down as the the of the same and the defined of the Grean Star control down as the the of the same and the defined of the Grean Star control down as the the of the same and the defined of the same and Grean Star and the final has the defined of the same and the star are and the final has the defined of the same and the star are and the final has the same and the	D-602.09		1) Green Star scorecard demonstrated the final decision is benchmarked to	New credit in v6			N/A	Credit is N/A, as was not applicable in v2.				

Colour Sch	eme - Legend						7									
	Approved EFSG Compliance															
	Approved EFSG Departure															
Not	Not Applicable to Project															
		1														
		Darlington PS						Independent checkpoint	Independent checkpoint 1	Independent checkmoint 2	Independent checkpoint 2	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3	Independent checkpoint 3
				1	1	1	-	•	independent checkpoint 1	cneocpoint 2	independent checkpoint 2	checkpoint 3	independent checkpoint 5	independent checkpoint 5	independent checkpoint s	independent checkpoint 5
			Sustainability initiatives / requirements from the EFSG							is the project		is the project				
							Contractor's ESD consultant comments	Is the project compliant		compliant at this		compliant at this				
			This is an extract only from the relevant EFSG. For full requirements refer to		Crossover with	Standard evidence to demonstrate compliance	Updated 03-August-2021	at this stage? Y or N	Comments (undated 10/1/22)	stage? Y or N	Comments (22/7/22)	stage? Y or N	Comments (27/3/23)	Meeting notes (18/4/23)	Comments (17/7/23)	Comments (20/9/23)
iD I	ieme	Indicator	nttps://etsg.det.nsw.edu.au/weicome	2750	Green Star	Standard evidence to demonstrate compliance	Updated 03-August-2021	YarN	Comments (updated 10/1/22)	YOTN	Comments (22/7/22)	YOWN	Comments (27/3/23)	Meeting notes (18/4/23)	Comments (17/7/23)	Comments (20/9/23)
			Site investigations for resilience													1
			The following detailed reports/ surveys/ information should be considered in													
			developing the business case:													
			<ul> <li>Slope, drainage and erosion issues including flood risks (if any)</li> </ul>													
			- Geotechnical and soil conditions													
			- Airbome pollutants										Provide EIS (Environmental Impact	AWE to provide EIS. SV to check if	EIS report provided. From EIS,	Response to SEARS/CSIRO projected
			- Bushfire risks									Y	Statement) as noted in SEARS.	'SEARS report' sufficient.	Appendix X 'SEARS ESD report' (by Integral) to be further provided.	
			<ul> <li>Appraisal of available services infrastructure</li> <li>Gimate change risk assessment must be undertaken considering at least two</li> </ul>												integrat) to be luttier provided.	
			different climate change scenarios													
						1) Detailed reports or surveys developed	Flood risk assessments, including									
		81-	An environmental risk report will be required for developments proposed within		DAB c3	2) Environmental risk report	storm water run off has been									
			sensitive natural environments or sites subject to natural risks (i.e. flood prone sites,			3) Evidence demonstrating recommendations have been implemented an										
R1-a R	asilience	forshocks	bush fire areas).	DG03.02	Resilience	risks addressed through design responses.	responded to this									
			Bushfire protection													
			Development applications on bush fire prone land must be accompanied by a Bush Fire Assessment Report demonstrating compliance with the aim and objectives of													
			Planning for Bush Fire Protection and the specific objectives and performance criteria													
			for the land use proposed.													
			Local Authorities and the Rural Fire Service can provide advice on the design of													
			buildings in bush fire prone areas.													
			The Building Code of Australia and AS3959 "Construction of buildings in bushfire-prone													
			areas" set out the requirements for buildings which are within close proximity to a defined bush fire zone.													
			Mandatory landscape management strategies:													
			<ul> <li>Keep the amount of fuel (leaves, twigs, logs, dead grass) in the vicinity of buildings to</li> </ul>													
			a minimum.					Ŷ								
			Ensure trees are located at away from buildings to avoid branches overhanging and													
			leaves collecting on roofs.													
			Do not plant shrubs against buildings.     The crowns of trees planted on the hazard side of the development should not be													
						1) Bush fire assessment report										
			contiguous. • Plant fire resistant trees and shrubs on the hazard side of the development to reduce			2) Statement by Architect / fire consultant outlining building strategies										
			the potential impact of wind, fire intensity, radiant heat, and rate of spread as well as			implemented in line with BCA and AS3959.										
			intercepting burning embers.			3) Bush fire management plan outlining management strategies				1		1	1			1
		R1 -	- Avoid combustible fencing materials.		DAB c3	implemented				1		1	1			
		Preparation	Provide irrigation and garden sprinklers to water areas near the buildings (subject to	0.612.01		4) Landscape plans detailing bush fire management measures				1		1	1			
R1-b R	asilience	for shocks	water authority approval).	DG13.01	Resilience	implemented	N/A - not in a bushfire zone									1
			Climate change adaptation					1		1						1
			Sites and school communities must be able to withstand natural and urban hazards					1		1	1			1		1
			and adaptively respond to climate change over time, especially for projects involving					1		1						
			vulnerable communities e.g. climate generating exacerbated flood, storm surge, inundation, heatwaves, bush fires, extreme storm and other weather events.				Mandatory Credit	1		1						
			school facilities must be able to withstand natural hazards and adapt to shocks and				The credit language states "Where	1		1			Provide climate risk assessment /			
			stresses to avoid social and economic costs of interrupted operation and repairing or				significant risks are identified in the	1		1			documentation, responding to SEARS			
			replacing damaged assets. To achieve this, increasing resilience to natural hazards				initial assessment, a comprehensive	1		1			requirement 23. ESD 'provide a	No 'high risk' identified, therefore		Response to SEARS/CSIRO projected
			must be considered in the business case development so that associated costs are				climate change risk assessment must	1		1		Y	statement reggarding how the design	no additional info needed by		impacts of climate change provided.
			budgeted.				be undertaken. Any high or extreme	1		1			of the future development is responsive to the CSIRO projected	SEARS. Introba/SV to check.		
			An initial assessment of natural hazards and project vulnerability must be carried out,				risks identified must be addressed			1	1		impacts of climate change'	1		1
			in consultation with resilience experts, to inform the business case and identify				through design measures"			1	1		pace of crimete change	1		1
			hazards where further analysis is required.				There were not any high or extreme risks that were flagged and shared	1		1						
		82 -	Where significant risks are identified in the initial assessment, a comprehensive		DAB c3	1) Climate risk assessment, and	with the current design team.	1		1						
		Preparation	climate change risk assessment must be undertaken. Any high or extreme risks			2) Climate adaptation plan		1		1						
R2-a R	silience		identified must be addressed through design measures.	DG02.08		3) Emergency management plan	Rev 41D: R2-A	1		1						