

# BASIX<sup>®</sup>Certificate

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## Alterations and Additions

Certificate number: A401570\_02

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 10/09/2020 published by the Department. This document is available at [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

This certificate is a revision of certificate number A401570 lodged with the consent authority or certifier on 18 December 2020 with application DA2020/1711.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Schedule 1 Clause 2A, 4A or 6A of the Environment Planning and Assessment Regulation 2000

Secretary

Date of issue: Friday, 14 February 2025

To be valid, this certificate must be lodged within 3 months of the date of issue.



Project address	
Project name	Unit 1, 19-21 The Corso, Manly NSW 2095_02
Street address	19-21 THE CORSO STREET - MANLY 2095
Local Government Area	Northern Beaches Council
Plan type and number	Strata Plan 12989
Lot number	1,2-13
Section number	-
Project type	
Dwelling type	Dwelling above existing building
Type of alteration and addition	The estimated development cost for my renovation work is \$50,000 or more.
N/A	N/A
<b>Certificate Prepared by</b> (please complete before submitting to Council or PCA)	
Name / Company Name: Eco Engineering Group Pty Ltd	
ABN (if applicable): 11153980842	


Fixtures and systems	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Lighting</b>			
The applicant must ensure a minimum of 40% of new or altered light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.		✓	✓
<b>Fixtures</b>			
The applicant must ensure new or altered showerheads have a flow rate no greater than 9 litres per minute or a 3 star water rating.		✓	✓
The applicant must ensure new or altered toilets have a flow rate no greater than 4 litres per average flush or a minimum 3 star water rating.		✓	✓
The applicant must ensure new or altered taps have a flow rate no greater than 9 litres per minute or minimum 3 star water rating.		✓	


Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors</b>			
The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.	✓	✓	✓
The following requirements must also be satisfied in relation to each window and glazed door:		✓	✓
Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. The description is provided for information only. Alternative systems with complying U-value and SHGC may be substituted.		✓	✓
For projections described in millimetres, the leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 mm above the head of the window or glazed door and no more than 2400 mm above the sill.	✓	✓	✓
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		✓	✓
Pergolas with fixed battens must have battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm.		✓	✓
Overshadowing buildings or vegetation must be of the height and distance from the centre and the base of the window and glazed door, as specified in the 'overshadowing' column in the table below.	✓	✓	✓


Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors glazing requirements</b>									
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W1	NW	2.7	0	0	eave/ verandah/ pergola/balcony >=600 mm	aluminium, double Lo- Tsol/air gap/ clear, (U-value: 4.9, SHGC: 0.33)			
W2	NW	2.7	0	0	eave/ verandah/ pergola/balcony >=600 mm	aluminium, double Lo- Tsol/air gap/ clear, (U-value: 4.9, SHGC: 0.33)			
W3	SW	1.22	4	1.2	eave/ verandah/ pergola/balcony >=900 mm	standard aluminium, clear/air gap/ clear, (U-value: 5.34, SHGC: 0.67)			

## Legend

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a  in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).

Commitments identified with a  in the "Show on CC/CDC plans & specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.

Commitments identified with a  in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate for the development may be issued.

# BASIX<sup>®</sup>Certificate

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## Alterations and Additions

Certificate number: A402015\_02

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 10/09/2020 published by the Department. This document is available at [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

This certificate is a revision of certificate number A402015 lodged with the consent authority or certifier on 18 December 2020 with application DA2020/1711.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Schedule 1 Clause 2A, 4A or 6A of the Environment Planning and Assessment Regulation 2000

Secretary

Date of issue: Friday, 14 February 2025

To be valid, this certificate must be lodged within 3 months of the date of issue.



Project address	
Project name	Unit 2, 19-21 The Corso, Manly NSW 2095_02
Street address	19-21 THE CORSO STREET - MANLY 2095
Local Government Area	Northern Beaches Council
Plan type and number	Strata Plan 12989
Lot number	1,2-13
Section number	-
Project type	
Dwelling type	Dwelling above existing building
Type of alteration and addition	The estimated development cost for my renovation work is \$50,000 or more.
N/A	N/A
<b>Certificate Prepared by</b> (please complete before submitting to Council or PCA)	
Name / Company Name: Eco Engineering Group Pty Ltd	
ABN (if applicable): 11153980842	

Fixtures and systems	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Lighting</b>			
The applicant must ensure a minimum of 40% of new or altered light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.		✓	✓
<b>Fixtures</b>			
The applicant must ensure new or altered showerheads have a flow rate no greater than 9 litres per minute or a 3 star water rating.		✓	✓
The applicant must ensure new or altered toilets have a flow rate no greater than 4 litres per average flush or a minimum 3 star water rating.		✓	✓
The applicant must ensure new or altered taps have a flow rate no greater than 9 litres per minute or minimum 3 star water rating.		✓	


Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors</b>			
The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.	✓	✓	✓
The following requirements must also be satisfied in relation to each window and glazed door:		✓	✓
Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. The description is provided for information only. Alternative systems with complying U-value and SHGC may be substituted.		✓	✓
For projections described in millimetres, the leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 mm above the head of the window or glazed door and no more than 2400 mm above the sill.	✓	✓	✓
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		✓	✓
Pergolas with fixed battens must have battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm.		✓	✓
Overshadowing buildings or vegetation must be of the height and distance from the centre and the base of the window and glazed door, as specified in the 'overshadowing' column in the table below.	✓	✓	✓





Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors glazing requirements</b>									
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W1	NW	2.2	0	0	eave/ verandah/ pergola/balcony >=600 mm	aluminium, double Lo- Tsol/air gap/ clear, (U-value: 4.9, SHGC: 0.33)			
W2	NW	2.2	0	0	eave/ verandah/ pergola/balcony >=600 mm	aluminium, double Lo- Tsol/air gap/ clear, (U-value: 4.9, SHGC: 0.33)			
W3	NE	0.9	2.5	1.2	eave/ verandah/ pergola/balcony >=900 mm	improved aluminium, clear/air gap/ clear, (U-value: 4.12, SHGC: 0.66)			

## Legend

In these commitments, "applicant" means the person carrying out the development.

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Commitments identified with a  in the "Show on CC/CDC plans & specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.

Commitments identified with a  in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate for the development may be issued.

# BASIX<sup>®</sup>Certificate

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## Alterations and Additions

Certificate number: A401786\_02

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 10/09/2020 published by the Department. This document is available at [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

This certificate is a revision of certificate number A401786 lodged with the consent authority or certifier on 18 December 2020 with application DA2020/1711.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Schedule 1 Clause 2A, 4A or 6A of the Environment Planning and Assessment Regulation 2000

Secretary

Date of issue: Friday, 14 February 2025

To be valid, this certificate must be lodged within 3 months of the date of issue.



Project address	
Project name	Unit 3, 19-21 The Corso, Manly NSW 2095_02
Street address	19-21 THE CORSO STREET - MANLY 2095
Local Government Area	Northern Beaches Council
Plan type and number	Strata Plan 12989
Lot number	1,2-13
Section number	-
Project type	
Dwelling type	Dwelling above existing building
Type of alteration and addition	The estimated development cost for my renovation work is \$50,000 or more.
N/A	N/A
<b>Certificate Prepared by</b> (please complete before submitting to Council or PCA)	
Name / Company Name: Eco Engineering Group Pty Ltd	
ABN (if applicable): 11153980842	

Fixtures and systems	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Lighting</b>			
The applicant must ensure a minimum of 40% of new or altered light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.		✓	✓
<b>Fixtures</b>			
The applicant must ensure new or altered showerheads have a flow rate no greater than 9 litres per minute or a 3 star water rating.		✓	✓
The applicant must ensure new or altered toilets have a flow rate no greater than 4 litres per average flush or a minimum 3 star water rating.		✓	✓
The applicant must ensure new or altered taps have a flow rate no greater than 9 litres per minute or minimum 3 star water rating.		✓	


Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors</b>			
The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.	✔	✔	✔
The following requirements must also be satisfied in relation to each window and glazed door:		✔	✔
Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. The description is provided for information only. Alternative systems with complying U-value and SHGC may be substituted.		✔	✔
Overshadowing buildings or vegetation must be of the height and distance from the centre and the base of the window and glazed door, as specified in the 'overshadowing' column in the table below.	✔	✔	✔


Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors glazing requirements</b>									
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W1	SW	2.45	3.5	1.2	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W2	SW	1.22	3.5	1.2	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W3	SW	1	3.5	1.2	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W4	NW	1.4	5.5	6.5	none	standard aluminium, toned/air gap/clear, (U-value: 5.31, SHGC: 0.48)			
W5	SE	3.3	0	0	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			


Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W6	SE	3.5	0	0	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			
W7	SE	3	0	0	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			

## Legend

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a  in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).

Commitments identified with a  in the "Show on CC/CDC plans & specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.

Commitments identified with a  in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate for the development may be issued.



# BASIX<sup>®</sup>Certificate

Building Sustainability Index [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

## Alterations and Additions

Certificate number: A401805\_02

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 10/09/2020 published by the Department. This document is available at [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

This certificate is a revision of certificate number A401805 lodged with the consent authority or certifier on 18 December 2020 with application DA2020/1711.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Schedule 1 Clause 2A, 4A or 6A of the Environment Planning and Assessment Regulation 2000

Secretary

Date of issue: Friday, 14 February 2025

To be valid, this certificate must be lodged within 3 months of the date of issue.



Project address	
Project name	Unit 4, 19-21 The Corso, Manly NSW 2095_02
Street address	19-21 THE CORSO STREET - MANLY 2095
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 12989
Lot number	1,2-13
Section number	-
Project type	
Dwelling type	Dwelling above existing building
Type of alteration and addition	The estimated development cost for my renovation work is \$50,000 or more.
N/A	N/A
<b>Certificate Prepared by</b> (please complete before submitting to Council or PCA)	
Name / Company Name: Eco Engineering Group Pty Ltd	
ABN (if applicable): 11153980842	

Fixtures and systems	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Lighting</b>			
The applicant must ensure a minimum of 40% of new or altered light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.		✓	✓
<b>Fixtures</b>			
The applicant must ensure new or altered showerheads have a flow rate no greater than 9 litres per minute or a 3 star water rating.		✓	✓
The applicant must ensure new or altered toilets have a flow rate no greater than 4 litres per average flush or a minimum 3 star water rating.		✓	✓
The applicant must ensure new or altered taps have a flow rate no greater than 9 litres per minute or minimum 3 star water rating.		✓	

Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check									
<b>Insulation requirements</b>														
The applicant must construct the new or altered construction (floor(s), walls, and ceilings/roofs) in accordance with the specifications listed in the table below, except that a) additional insulation is not required where the area of new construction is less than 2m2, b) insulation specified is not required for parts of altered construction where insulation already exists.			✔	✔	✔									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #555; color: white;">Construction</th> <th style="background-color: #555; color: white;">Additional insulation required (R-value)</th> <th style="background-color: #555; color: white;">Other specifications</th> </tr> </thead> <tbody> <tr> <td>concrete slab on ground floor.</td> <td>nil</td> <td>N/A</td> </tr> <tr> <td>floor above existing dwelling or building.</td> <td>nil</td> <td>N/A</td> </tr> </tbody> </table>			Construction	Additional insulation required (R-value)	Other specifications	concrete slab on ground floor.	nil	N/A	floor above existing dwelling or building.	nil	N/A			
Construction	Additional insulation required (R-value)	Other specifications												
concrete slab on ground floor.	nil	N/A												
floor above existing dwelling or building.	nil	N/A												

Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors</b>			
The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.	✓	✓	✓
The following requirements must also be satisfied in relation to each window and glazed door:		✓	✓
Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. The description is provided for information only. Alternative systems with complying U-value and SHGC may be substituted.		✓	✓
For projections described in millimetres, the leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 mm above the head of the window or glazed door and no more than 2400 mm above the sill.	✓	✓	✓
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		✓	✓
Pergolas with fixed battens must have battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm.		✓	✓
Overshadowing buildings or vegetation must be of the height and distance from the centre and the base of the window and glazed door, as specified in the 'overshadowing' column in the table below.	✓	✓	✓


Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors glazing requirements</b>									
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W1	SE	1.26	0	0	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			
W2	SE	1.26	0	0	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			
W3	NW	1.05	5.5	6.5	none	standard aluminium, toned/air gap/clear, (U-value: 5.31, SHGC: 0.48)			
W4	NE	2.1	2.5	1.2	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			
W5	NE	0.9	2.5	1.2	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			


Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W6	NE	0.72	5.5	1.2	eave/ verandah/ pergola/balcony >=900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W7	SE	2.7	0	0	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			

## Legend

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a  in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).

Commitments identified with a  in the "Show on CC/CDC plans & specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.

Commitments identified with a  in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate for the development may be issued.

# BASIX<sup>®</sup>Certificate

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## Alterations and Additions

Certificate number: A402019\_02

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 10/09/2020 published by the Department. This document is available at [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

This certificate is a revision of certificate number A402019 lodged with the consent authority or certifier on 18 December 2020 with application DA2020/1711.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Schedule 1 Clause 2A, 4A or 6A of the Environment Planning and Assessment Regulation 2000

Secretary

Date of issue: Friday, 14 February 2025

To be valid, this certificate must be lodged within 3 months of the date of issue.



Project address	
Project name	Unit 5, 19-21 The Corso, Manly NSW 2095_02
Street address	19-21 THE CORSO STREET - MANLY 2095
Local Government Area	Northern Beaches Council
Plan type and number	Strata Plan 12989
Lot number	1,2-13
Section number	-
Project type	
Dwelling type	Dwelling above existing building
Type of alteration and addition	The estimated development cost for my renovation work is \$50,000 or more.
N/A	N/A
<b>Certificate Prepared by</b> (please complete before submitting to Council or PCA)	
Name / Company Name: Eco Engineering Group Pty Ltd	
ABN (if applicable): 11153980842	




Fixtures and systems	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Lighting</b>			
The applicant must ensure a minimum of 40% of new or altered light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.		✓	✓
<b>Fixtures</b>			
The applicant must ensure new or altered showerheads have a flow rate no greater than 9 litres per minute or a 3 star water rating.		✓	✓
The applicant must ensure new or altered toilets have a flow rate no greater than 4 litres per average flush or a minimum 3 star water rating.		✓	✓
The applicant must ensure new or altered taps have a flow rate no greater than 9 litres per minute or minimum 3 star water rating.		✓	


Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors</b>			
The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.	✓	✓	✓
The following requirements must also be satisfied in relation to each window and glazed door:		✓	✓
Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. The description is provided for information only. Alternative systems with complying U-value and SHGC may be substituted.		✓	✓
For projections described in millimetres, the leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 mm above the head of the window or glazed door and no more than 2400 mm above the sill.	✓	✓	✓
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		✓	✓
Pergolas with fixed battens must have battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm.		✓	✓


Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors glazing requirements</b>									
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W1	NW	3.57	0	0	eave/ verandah/ pergola/balcony >=600 mm	aluminium, double Lo- Tsol/air gap/ clear, (U-value: 4.9, SHGC: 0.33)			
W2	NW	3.57	0	0	eave/ verandah/ pergola/balcony >=600 mm	aluminium, double Lo- Tsol/air gap/ clear, (U-value: 4.9, SHGC: 0.33)			
W3	SW	1.22	0	0	eave/ verandah/ pergola/balcony >=900 mm	standard aluminium, clear/air gap/ clear, (U-value: 5.34, SHGC: 0.67)			

## Legend

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a  in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).

Commitments identified with a  in the "Show on CC/CDC plans & specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.

Commitments identified with a  in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate for the development may be issued.

# BASIX<sup>®</sup>Certificate

Building Sustainability Index [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

## Alterations and Additions

Certificate number: A402020\_02

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 10/09/2020 published by the Department. This document is available at [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

This certificate is a revision of certificate number A402020 lodged with the consent authority or certifier on 18 December 2020 with application DA2020/1711.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Schedule 1 Clause 2A, 4A or 6A of the Environment Planning and Assessment Regulation 2000

Secretary

Date of issue: Friday, 14 February 2025

To be valid, this certificate must be lodged within 3 months of the date of issue.



Project address	
Project name	Unit 6, 19-21 The Corso, Manly NSW 2095_02
Street address	19-21 THE CORSO STREET - MANLY 2095
Local Government Area	Northern Beaches Council
Plan type and number	Strata Plan 12989
Lot number	1,2-13
Section number	-
Project type	
Dwelling type	Dwelling above existing building
Type of alteration and addition	The estimated development cost for my renovation work is \$50,000 or more.
N/A	N/A
<b>Certificate Prepared by</b> (please complete before submitting to Council or PCA)	
Name / Company Name: Eco Engineering Group Pty Ltd	
ABN (if applicable): 11153980842	

Fixtures and systems	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Lighting</b>			
The applicant must ensure a minimum of 40% of new or altered light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.		✓	✓
<b>Fixtures</b>			
The applicant must ensure new or altered showerheads have a flow rate no greater than 9 litres per minute or a 3 star water rating.		✓	✓
The applicant must ensure new or altered toilets have a flow rate no greater than 4 litres per average flush or a minimum 3 star water rating.		✓	✓
The applicant must ensure new or altered taps have a flow rate no greater than 9 litres per minute or minimum 3 star water rating.		✓	


Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors</b>			
The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.	✓	✓	✓
The following requirements must also be satisfied in relation to each window and glazed door:		✓	✓
Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. The description is provided for information only. Alternative systems with complying U-value and SHGC may be substituted.		✓	✓
For projections described in millimetres, the leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 mm above the head of the window or glazed door and no more than 2400 mm above the sill.	✓	✓	✓
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		✓	✓
Pergolas with fixed battens must have battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm.		✓	✓
Overshadowing buildings or vegetation must be of the height and distance from the centre and the base of the window and glazed door, as specified in the 'overshadowing' column in the table below.	✓	✓	✓


Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors glazing requirements</b>									
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W1	NW	3.57	0	0	eave/ verandah/ pergola/balcony >=600 mm	aluminium, double Lo- Tsol/air gap/ clear, (U-value: 4.9, SHGC: 0.33)			
W2	NW	3.57	0	0	eave/ verandah/ pergola/balcony >=600 mm	aluminium, double Lo- Tsol/air gap/ clear, (U-value: 4.9, SHGC: 0.33)			
W3	NE	0.9	2	1	eave/ verandah/ pergola/balcony >=900 mm	improved aluminium, clear/air gap/ clear, (U-value: 4.12, SHGC: 0.66)			




## Legend

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a  in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).

Commitments identified with a  in the "Show on CC/CDC plans & specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.

Commitments identified with a  in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate for the development may be issued.

# BASIX<sup>®</sup>Certificate

Building Sustainability Index [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

## Alterations and Additions

Certificate number: A402021\_02

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 10/09/2020 published by the Department. This document is available at [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

This certificate is a revision of certificate number A402021 lodged with the consent authority or certifier on 18 December 2020 with application DA2020/1711.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Schedule 1 Clause 2A, 4A or 6A of the Environment Planning and Assessment Regulation 2000

Secretary

Date of issue: Friday, 14 February 2025

To be valid, this certificate must be lodged within 3 months of the date of issue.



Project address	
Project name	Unit 7, 19-21 The Corso, Manly NSW 2095_02
Street address	19-21 THE CORSO STREET - MANLY 2095
Local Government Area	Northern Beaches Council
Plan type and number	Strata Plan 12989
Lot number	1,2-13
Section number	-
Project type	
Dwelling type	Dwelling above existing building
Type of alteration and addition	The estimated development cost for my renovation work is \$50,000 or more.
N/A	N/A
<b>Certificate Prepared by</b> (please complete before submitting to Council or PCA)	
Name / Company Name: Eco Engineering Group Pty Ltd	
ABN (if applicable): 11153980842	

Fixtures and systems	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Lighting</b>			
The applicant must ensure a minimum of 40% of new or altered light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.		✓	✓
<b>Fixtures</b>			
The applicant must ensure new or altered showerheads have a flow rate no greater than 9 litres per minute or a 3 star water rating.		✓	✓
The applicant must ensure new or altered toilets have a flow rate no greater than 4 litres per average flush or a minimum 3 star water rating.		✓	✓
The applicant must ensure new or altered taps have a flow rate no greater than 9 litres per minute or minimum 3 star water rating.		✓	

Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors</b>			
The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.	✓	✓	✓
The following requirements must also be satisfied in relation to each window and glazed door:		✓	✓
Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. The description is provided for information only. Alternative systems with complying U-value and SHGC may be substituted.		✓	✓
For projections described in millimetres, the leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 mm above the head of the window or glazed door and no more than 2400 mm above the sill.	✓	✓	✓
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		✓	✓
Pergolas with fixed battens must have battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm.		✓	✓
Overshadowing buildings or vegetation must be of the height and distance from the centre and the base of the window and glazed door, as specified in the 'overshadowing' column in the table below.	✓	✓	✓


Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors glazing requirements</b>									
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W1	SW	2.45	1	1.2	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W2	SW	1.22	1	1.2	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W3	SW	1	1	1.2	eave/verandah/pergola/balcony >=900 mm	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W4	NW	1.4	2	6.5	none	aluminium, double Lo-Tsol/air gap/clear, (U-value: 4.9, SHGC: 0.33)			
W5	SE	3.3	0	0	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			


Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W6	SE	3.5	0	0	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			
W7	SE	3	0	0	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			

## Legend

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a  in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).

Commitments identified with a  in the "Show on CC/CDC plans & specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.

Commitments identified with a  in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate for the development may be issued.

# BASIX<sup>®</sup>Certificate

Building Sustainability Index [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

## Alterations and Additions

Certificate number: A402022\_02

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 10/09/2020 published by the Department. This document is available at [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

This certificate is a revision of certificate number A402022 lodged with the consent authority or certifier on 18 December 2020 with application DA2020/1711.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Schedule 1 Clause 2A, 4A or 6A of the Environment Planning and Assessment Regulation 2000

Secretary

Date of issue: Friday, 14 February 2025

To be valid, this certificate must be lodged within 3 months of the date of issue.



Project address	
Project name	Unit 8, 19-21 The Corso, Manly NSW 2095_02
Street address	19-21 THE CORSO STREET - MANLY 2095
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 12989
Lot number	1,2-13
Section number	-
Project type	
Dwelling type	Dwelling above existing building
Type of alteration and addition	The estimated development cost for my renovation work is \$50,000 or more.
N/A	N/A
<b>Certificate Prepared by</b> (please complete before submitting to Council or PCA)	
Name / Company Name: Eco Engineering Group Pty Ltd	
ABN (if applicable): 11153980842	



Fixtures and systems	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Lighting</b>			
The applicant must ensure a minimum of 40% of new or altered light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.		✓	✓
<b>Fixtures</b>			
The applicant must ensure new or altered showerheads have a flow rate no greater than 9 litres per minute or a 3 star water rating.		✓	✓
The applicant must ensure new or altered toilets have a flow rate no greater than 4 litres per average flush or a minimum 3 star water rating.		✓	✓
The applicant must ensure new or altered taps have a flow rate no greater than 9 litres per minute or minimum 3 star water rating.		✓	

Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check									
<b>Insulation requirements</b>														
The applicant must construct the new or altered construction (floor(s), walls, and ceilings/roofs) in accordance with the specifications listed in the table below, except that a) additional insulation is not required where the area of new construction is less than 2m <sup>2</sup> , b) insulation specified is not required for parts of altered construction where insulation already exists.			✔	✔	✔									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #555; color: white;">Construction</th> <th style="background-color: #555; color: white;">Additional insulation required (R-value)</th> <th style="background-color: #555; color: white;">Other specifications</th> </tr> </thead> <tbody> <tr> <td>concrete slab on ground floor.</td> <td>nil</td> <td>N/A</td> </tr> <tr> <td>floor above existing dwelling or building.</td> <td>nil</td> <td>N/A</td> </tr> </tbody> </table>			Construction	Additional insulation required (R-value)	Other specifications	concrete slab on ground floor.	nil	N/A	floor above existing dwelling or building.	nil	N/A			
Construction	Additional insulation required (R-value)	Other specifications												
concrete slab on ground floor.	nil	N/A												
floor above existing dwelling or building.	nil	N/A												


Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors</b>			
The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.	✔	✔	✔
The following requirements must also be satisfied in relation to each window and glazed door:		✔	✔
Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. The description is provided for information only. Alternative systems with complying U-value and SHGC may be substituted.		✔	✔
Overshadowing buildings or vegetation must be of the height and distance from the centre and the base of the window and glazed door, as specified in the 'overshadowing' column in the table below.	✔	✔	✔


Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors glazing requirements</b>									
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W1	SE	2.7	0	0	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			
W2	SE	1.26	0	0	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			
W3	NW	1.05	2	6.5	none	aluminium, double Lo-Tsol/air gap/clear, (U-value: 4.9, SHGC: 0.33)			
W4	NE	1.05	2	1	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W5	NE	0.7	0	0	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			


Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W6	NE	0.7	0	0	none	aluminium: thermally broken, double Lo-Tsol/air gap/clear , (U-value: 3.1, SHGC: 0.27)			
W7	SE	1.26	0	0	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			

## Legend

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a  in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).

Commitments identified with a  in the "Show on CC/CDC plans & specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.

Commitments identified with a  in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate for the development may be issued.

# BASIX<sup>®</sup>Certificate

Building Sustainability Index [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

## Alterations and Additions

Certificate number: A402024\_02

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 10/09/2020 published by the Department. This document is available at [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

This certificate is a revision of certificate number A402024 lodged with the consent authority or certifier on 18 December 2020 with application DA2020/1711.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Schedule 1 Clause 2A, 4A or 6A of the Environment Planning and Assessment Regulation 2000

Secretary

Date of issue: Friday, 14 February 2025

To be valid, this certificate must be lodged within 3 months of the date of issue.



Project address	
Project name	Unit 9, 19-21 The Corso, Manly NSW 2095_02
Street address	19-21 THE CORSO STREET - MANLY 2095
Local Government Area	Northern Beaches Council
Plan type and number	Strata Plan 12989
Lot number	1,2-13
Section number	-
Project type	
Dwelling type	Dwelling above existing building
Type of alteration and addition	The estimated development cost for my renovation work is \$50,000 or more.
N/A	N/A
<b>Certificate Prepared by</b> (please complete before submitting to Council or PCA)	
Name / Company Name: Eco Engineering Group Pty Ltd	
ABN (if applicable): 11153980842	

Fixtures and systems	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Lighting</b>			
The applicant must ensure a minimum of 40% of new or altered light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.		✓	✓
<b>Fixtures</b>			
The applicant must ensure new or altered showerheads have a flow rate no greater than 9 litres per minute or a 3 star water rating.		✓	✓
The applicant must ensure new or altered toilets have a flow rate no greater than 4 litres per average flush or a minimum 3 star water rating.		✓	✓
The applicant must ensure new or altered taps have a flow rate no greater than 9 litres per minute or minimum 3 star water rating.		✓	




Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors</b>			
The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.	✔	✔	✔
The following requirements must also be satisfied in relation to each window and glazed door:		✔	✔
Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. The description is provided for information only. Alternative systems with complying U-value and SHGC may be substituted.		✔	✔


Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors glazing requirements</b>									
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W1	SW	2.45	0	0	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W2	SW	1.22	0	0	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W3	SW	1	0	0	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			
W4	NW	1.4	0	0	none	aluminium, double Lo-Tsol/air gap/clear, (U-value: 4.9, SHGC: 0.33)			
W5	SE	3.3	0	0	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			


Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W6	SE	3.5	0	0	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			
W7	SE	3	0	0	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			
W8	SW	2.7	0	0	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			

## Legend

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a  in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).

Commitments identified with a  in the "Show on CC/CDC plans & specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.

Commitments identified with a  in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate for the development may be issued.

# BASIX<sup>®</sup>Certificate

Building Sustainability Index [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

## Alterations and Additions

Certificate number: A402025\_02

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 10/09/2020 published by the Department. This document is available at [www.basix.nsw.gov.au](http://www.basix.nsw.gov.au)

This certificate is a revision of certificate number A402025 lodged with the consent authority or certifier on 18 December 2020 with application DA2020/1711.

It is the responsibility of the applicant to verify with the consent authority that the original, or any revised certificate, complies with the requirements of Schedule 1 Clause 2A, 4A or 6A of the Environment Planning and Assessment Regulation 2000

Secretary

Date of issue: Friday, 14 February 2025

To be valid, this certificate must be lodged within 3 months of the date of issue.



Project address	
Project name	Unit 10, 19-21 The Corso, Manly NSW 2095_02
Street address	19-21 THE CORSO STREET - MANLY 2095
Local Government Area	Northern Beaches Council
Plan type and number	Deposited Plan 12989
Lot number	1,2-13
Section number	-
Project type	
Dwelling type	Dwelling above existing building
Type of alteration and addition	The estimated development cost for my renovation work is \$50,000 or more.
N/A	N/A
<b>Certificate Prepared by</b> (please complete before submitting to Council or PCA)	
Name / Company Name: Eco Engineering Group Pty Ltd	
ABN (if applicable): 11153980842	

Fixtures and systems	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Lighting</b>			
The applicant must ensure a minimum of 40% of new or altered light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.		✓	✓
<b>Fixtures</b>			
The applicant must ensure new or altered showerheads have a flow rate no greater than 9 litres per minute or a 3 star water rating.		✓	✓
The applicant must ensure new or altered toilets have a flow rate no greater than 4 litres per average flush or a minimum 3 star water rating.		✓	✓
The applicant must ensure new or altered taps have a flow rate no greater than 9 litres per minute or minimum 3 star water rating.		✓	

Construction			Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check									
<b>Insulation requirements</b>														
The applicant must construct the new or altered construction (floor(s), walls, and ceilings/roofs) in accordance with the specifications listed in the table below, except that a) additional insulation is not required where the area of new construction is less than 2m2, b) insulation specified is not required for parts of altered construction where insulation already exists.			✔	✔	✔									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #555; color: white;">Construction</th> <th style="background-color: #555; color: white;">Additional insulation required (R-value)</th> <th style="background-color: #555; color: white;">Other specifications</th> </tr> </thead> <tbody> <tr> <td>concrete slab on ground floor.</td> <td>nil</td> <td>N/A</td> </tr> <tr> <td>floor above existing dwelling or building.</td> <td>nil</td> <td>N/A</td> </tr> </tbody> </table>			Construction	Additional insulation required (R-value)	Other specifications	concrete slab on ground floor.	nil	N/A	floor above existing dwelling or building.	nil	N/A			
Construction	Additional insulation required (R-value)	Other specifications												
concrete slab on ground floor.	nil	N/A												
floor above existing dwelling or building.	nil	N/A												

Glazing requirements	Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors</b>			
The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.	✓	✓	✓
The following requirements must also be satisfied in relation to each window and glazed door:		✓	✓
Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions. The description is provided for information only. Alternative systems with complying U-value and SHGC may be substituted.		✓	✓
For projections described in millimetres, the leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 mm above the head of the window or glazed door and no more than 2400 mm above the sill.	✓	✓	✓
Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.		✓	✓
Pergolas with fixed battens must have battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm.		✓	✓





Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
<b>Windows and glazed doors glazing requirements</b>									
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W1	SE	2.7	0	0	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			
W2	SE	1.26	0	0	none	timber or uPVC, clear/air gap/clear, (U-value: 3.67, SHGC: 0.59)			
W3	NW	1.05	0	0	none	aluminium, double Lo-Tsol/air gap/clear, (U-value: 4.9, SHGC: 0.33)			
W4	NE	1.05	0	0	eave/verandah/pergola/balcony >=600 mm	aluminium, double Lo-Tsol/air gap/clear, (U-value: 4.9, SHGC: 0.33)			
W5	NE	0.7	0	0	none	standard aluminium, clear/air gap/clear, (U-value: 5.34, SHGC: 0.67)			


Glazing requirements							Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
Window/door number	Orientation	Area of glass including frame (m2)	Overshadowing height (m)	Overshadowing distance (m)	Shading device	Frame and glass type			
W6	NE	0.7	0	0	eave/ verandah/ pergola/balcony >=600 mm	aluminium, double Lo-Tsol/air gap/ clear, (U-value: 4.9, SHGC: 0.33)			
W7	SE	1.26	0	0	none	timber or uPVC, clear/ air gap/clear, (U-value: 3.67, SHGC: 0.59)			
W8	NE	2.76	0	0	none	timber or uPVC, double Lo-Tsol/air gap/clear, (U-value: 2.3, SHGC: 0.19)			

## Legend

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a  in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).

Commitments identified with a  in the "Show on CC/CDC plans & specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.

Commitments identified with a  in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate for the development may be issued.