Lysaght SupaPurlins

Quick Selection Guide

For Open Carports
Wind Regions N2-C3

Photographs are indicative only, and may illustrate slightly different design types.

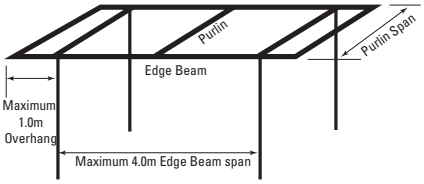
Features & Benefits

- Simple selection tables allow designers to find prompt solutions for simple structures.
- Reliable data derived from full scale testing in our NATA-accredited R&D laboratory.
- Stong, sturdy carports made simple!

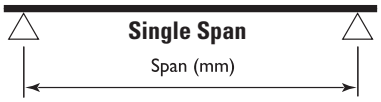
AUSTRALIAN MADE®

LYSAGHT

SupaPurlin Open Carport Quick Selection Chart



Purlin Size Required - Number of rows of Bridgings



N2

Purlin Span (mm)	Purlin Spacing (mm)						Edge Beam Size
	600	900	1200	1500	1800	2100	
3000	SC15012-0B	SC15012-0B	SC15012-0B	SC15012-0B	SC15012-0B	SC15012-0B	SC15012
3500	SC15012-0B	SC15012-0B	SC15012-0B	SC15012-0B	SC15012-1B	SC15012-1B	SC15012
4000	SC15012-0B	SC15012-0B	SC15012-1B	SC15012-1B	SC15012-1B	SC15015-1B	SC15012
4500	SC15012-0B	SC15012-1B	SC15012-1B	SC15012-1B	SC15015-1B	SC15019-1B	SC15012
5000	SC15012-1B	SC15012-1B	SC15012-2B	SC15015-2B	SC15019-1B	SC15019-2B	SC15012
5500	SC15012-1B	SC15012-2B	SC15015-2B	SC15019-2B	SC15019-2B	SC15024-2B	SC15012
6000	SC15012-1B	SC15012-2B	SC15015-2B	SC15019-2B	SC15024-2B	SC15024-2B	SC15015
6500	SC20012-1B	SC20012-1B	SC20012-2B	SC20015-2B	SC20019-1B	SC20019-2B	SC20012
7000	SC20012-1B	SC20012-2B	SC20015-2B	SC20019-2B	SC20019-2B	SC20024-2B	SC20012
7500	SC20012-1B	SC20012-2B	SC20015-2B	SC20019-2B	SC20024-2B	SC20024-2B	SC20012

Quick Selection Chart – N2 (Non-Cyclonic Areas)

NOTES:

1. This document shall be read in conjunction with the LYSAGHT SupaPurlins - SupaZeds and SupaCees Users Guide, March 2009.
2. The wind classification N2 is in accordance with AS4055-2006, 'Wind Loads for Housing' and is based on well developed urban areas with relatively flat topography. The user of the quick selection chart is to confirm the wind classification is appropriate for their situation.
3. The maximum purlin spans and spacing are based on the wind speed for a N2 wind classification derived from the pressure coefficients and local pressure factors provided in AS4055-2006 and AS1170.2-2002 for a maximum building height of 3.0m and 3º roof pitch.
4. The purlins have been sized for a 0.25kPa occasional maintenance load for non trafficable roofs in accordance with AS1170.1-2002.
5. All configurations are based on purlins being connected to the edge beam webs with two LYSAGHT general purpose brackets and LYSAGHT standard purlin bolts.
6. 0B, 1B, 2B & 3B indicate the number of rows of LYSAGHT HOOKLOK II or bolted bridging per span.
7. Bridging setout shall be as follows:
   1B – 0.5 span : 0.5 span
   2B – 0.35 span : 0.3 span : 0.35 span
   3B – 0.28 span : 0.22 span : 0.22 span : 0.28 span
8. These charts only apply to open carports with the cladding screw fixed to the purlin flange.
9. The user is to confirm the maximum purlin spacing is appropriate for the selected cladding.
10. This data is based on published LYSAGHT load capacities and is to be used only for the LYSAGHT SupaZeds and SupaCees range of products.
11. N/A indicates no suitable section is available.
12. All LYSAGHT general purpose brackets shall be fixed using a minimum of four LYSAGHT purlin bolts.
13. SUPAPURLINS up to and including SC250 in size will be fixed using LYSAGHT PB1230 (flanged M12 x 30), 4.6 grade purlin bolts. SUPAPURLINS SC300 in size will be fixed using LYSAGHT PB1645 (flanged M16 x 45), 4.6 grade purlin bolts.

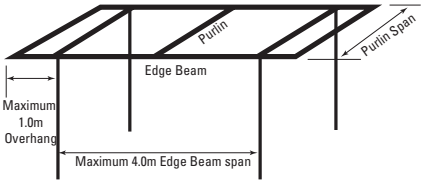
Engineering Certification

I hereby certify that the selection charts contained herein have been calculated in accordance with the above noted Australian Standards and BlueScope Lysaght capacity tables as published "Lysaght SupaPurlins - SupaZeds and SupaCees Users Guide, March 2009".

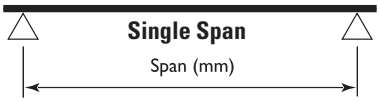
Yours faithfully

David Bell
BG STRUCTURES PTY LTD
MIE Aust., RPEQ 8152
PO Box 2531, Fortitude Valley B.C. Qld 4006

SupaPurlin Open Carport Quick Selection Chart



Purlin Size Required - Number of rows of Bridging



N3

Purlin Span (mm)	Purlin Spacing (mm)						Edge Beam Size
	600	900	1200	1500	1800	2100	
3000	SC15012-0B	SC15012-0B	SC15012-0B	SC15012-0B	SC15012-1B	SC15015-0B	SC15012
3500	SC15012-0B	SC15012-0B	SC15012-1B	SC15012-1B	SC15015-1B	SC15019-1B	SC15012
4000	SC15012-0B	SC15012-1B	SC15012-1B	SC15015-1B	SC15019-1B	SC15019-1B	SC15015
4500	SC15012-1B	SC15012-1B	SC15015-1B	SC15019-1B	SC15019-2B	SC15024-1B	SC15015
5000	SC15012-1B	SC15015-1B	SC15019-1B	SC15024-1B	SC15024-2B	N/A	SC15019
5500	SC20012-1B	SC20012-1B	SC20015-1B	SC20019-1B	SC20019-1B	SC20024-1B	SC20015
6000	SC20012-1B	SC20012-2B	SC20019-1B	SC20019-2B	SC20024-1B	SC20024-2B	SC20015
6500	SC20012-1B	SC20015-2B	SC20019-2B	SC20024-1B	SC20024-2B	N/A	SC20015
7000	SC20012-2B	SC20019-1B	SC20019-2B	SC20024-2B	N/A	N/A	SC20019
7500	SC20015-2B	SC20019-2B	SC20024-2B	SC20024-3B	N/A	N/A	SC20019

Quick Selection Chart – N3 (Non-Cyclonic Areas)

NOTES:

1. This document shall be read in conjunction with the 'LYSAGHT SupaPurlins - SupaZeds and SupaCees Users Guide, March 2009'.
2. The wind classification N3 is in accordance with AS4055-2006, 'Wind Loads for Housing' and is based on well developed urban areas with relatively flat topography. The user of the quick selection chart is to confirm the wind classification is appropriate for their situation.
3. The maximum purlin spans and spacing are based on the wind speed for a N3 wind classification derived from the pressure coefficients and local pressure factors provided in AS4055-2006 and AS1170.2-2002 for a maximum building height of 3.0m and 3º roof pitch.
4. The purlins have been sized for a 0.25kPa occasional maintenance load for non trafficable roofs in accordance with AS1170.1-2002.
5. All configurations are based on purlins being connected to the edge beam webs with two LYSAGHT general purpose brackets and LYSAGHT standard purlin bolts.
6. 0B, 1B, 2B & 3B indicate the number of rows of LYSAGHT HOOKLOK II or bolted bridging per span.
7. Bridging setout shall be as follows:
   1B – 0.5 span : 0.5 span
   2B – 0.35 span : 0.3 span : 0.35 span
   3B – 0.28 span : 0.22 span : 0.22 span : 0.28 span
8. These charts only apply to open carports with the cladding screw fixed to the purlin flange.
9. The user is to confirm the maximum purlin spacing is appropriate for the selected cladding.
10. This data is based on published LYSAGHT load capacities and is to be used only for the LYSAGHT SupaZeds and SupaCees range of products.
11. N/A indicates no suitable section is available.
12. All LYSAGHT general purpose brackets shall be fixed using a minimum of four LYSAGHT purlin bolts.
13. SUPAPURLINS up to and including SC250 in size will be fixed using LYSAGHT PB1230 (flanged M12 x 30), 4.6 grade purlin bolts. SUPAPURLINS SC300 in size will be fixed using LYSAGHT PB1645 (flanged M16 x 45), 4.6 grade purlin bolts.

Engineering Certification

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Yours faithfully

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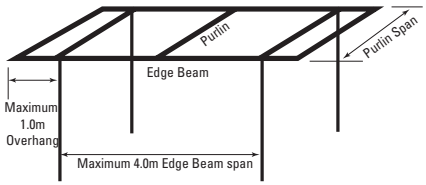
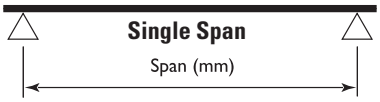
MIE Aust., RPEQ 8152
PO Box 2531, Fortitude Valley B.C. Qld 4006

SupaPurlin Open Carport Quick Selection Chart



Purlin Size Required - Number of rows of Bridging



N4

Purlin Span (mm)	Purlin Spacing (mm)						Edge Beam Size
	600	900	1200	1500	1800	2100	
3000	SC15012-0B	SC15012-0B	SC15012-1B	SC15015-1B	SC15019-0B	SC15019-1B	SC15015
3500	SC15012-0B	SC15012-1B	SC15015-1B	SC15019-1B	SC15019-1B	SC15024-1B	SC15019
4000	SC15012-1B	SC15015-1B	SC15019-1B	SC15019-2B	SC15024-1B	N/A	SC15019
4500	SC20012-1B	SC20012-1B	SC20015-1B	SC20019-1B	SC20019-1B	SC20024-1B	SC20015
5000	SC20012-1B	SC20015-1B	SC20019-1B	SC20019-2B	SC20024-1B	SC20024-2B	SC20019
5500	SC20012-1B	SC20015-2B	SC20019-1B	SC20024-1B	N/A	N/A	SC20019
6000	SC20012-2B	SC20019-1B	SC20024-1B	SC20024-2B	N/A	N/A	SC20019
6500	SC25015-1B	SC25019-1B	SC25019-2B	SC25024-2B	N/A	N/A	SC25019
7000	SC25015-1B	SC25019-2B	SC25024-2B	N/A	N/A	N/A	SC25019
7500	SC25015-2B	SC25019-2B	SC25024-2B	N/A	N/A	N/A	SC25019

Quick Selection Chart – N4 (Non-Cyclonic Areas)

NOTES:

1. This document shall be read in conjunction with the 'LYSAGHT SupaPurlins - SupaZeds and SupaCees Users Guide, March 2009'.
2. The wind classification N4 is in accordance with AS4055-2006, 'Wind Loads for Housing' and is based on well developed urban areas with relatively flat topography. The user of the quick selection chart is to confirm the wind classification is appropriate for their situation.
3. The maximum purlin spans and spacing are based on the wind speed for a N4 wind classification derived from the pressure coefficients and local pressure factors provided in AS4055-2006 and AS1170.2-2002 for a maximum building height of 3.0m and 3º roof pitch.
4. The purlins have been sized for a 0.25kPa occasional maintenance load for non trafficable roofs in accordance with AS1170.1-2002.
5. All configurations are based on purlins being connected to the edge beam webs with two LYSAGHT general purpose brackets and LYSAGHT standard purlin bolts.
6. 0B, 1B, 2B & 3B indicate the number of rows of LYSAGHT HOOKLOK II or bolted bridging per span.
7. Bridging setout shall be as follows:
   1B – 0.5 span : 0.5 span
   2B – 0.35 span : 0.3 span : 0.35 span
   3B – 0.28 span : 0.22 span : 0.22 span : 0.28 span
8. These charts only apply to open carports with the cladding screw fixed to the purlin flange.
9. The user is to confirm the maximum purlin spacing is appropriate for the selected cladding.
10. This data is based on published LYSAGHT load capacities and is to be used only for the Lysaght SupaZeds and SupaCees range of products.
11. N/A indicates no suitable section is available.
12. All LYSAGHT general purpose brackets shall be fixed using a minimum of four LYSAGHT purlin bolts.
13. SUPAPURLINS up to and including SC250 in size will be fixed using LYSAGHT PB1230 (flanged M12 x 30), 4.6 grade purlin bolts. SUPAPURLINS SC300 in size will be fixed using LYSAGHT PB1645 (flanged M16 x 45), 4.6 grade purlin bolts.

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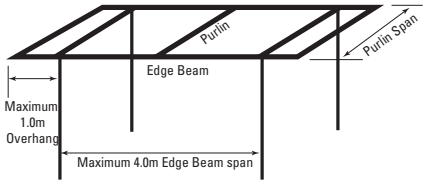
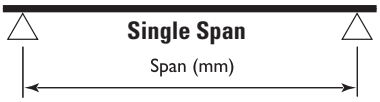
SupaPurlin Open Carport Quick Selection Chart



Purlin Size Required - Number of rows of Bridging



C1

Purlin Span (mm)	Purlin Spacing (mm)						Edge Beam Size
	600	900	1200	1500	1800	2100	
3000	SC15012-0B	SC15012-0B	SC15012-0B	SC15012-1B	SC15015-1B	SC15019-0B	SC15015
3500	SC15012-0B	SC15012-1B	SC15012-1B	SC15015-1B	SC15019-1B	SC15019-2B	SC15019
4000	SC15012-1B	SC15012-1B	SC15015-2B	SC15019-1B	SC15024-1B	SC15024-2B	SC15019
4500	SC15012-1B	SC15015-1B	SC15019-1B	SC15024-1B	SC15024-2B	N/A	SC15024
5000	SC20012-1B	SC20012-1B	SC20015-1B	SC20019-1B	SC20024-1B	SC20024-1B	SC20019
5500	SC20012-1B	SC20015-1B	SC20019-1B	SC20024-1B	SC20024-2B	N/A	SC20019
6000	SC20012-2B	SC20019-1B	SC20019-2B	SC20019-2B	N/A	N/A	SC20019
6500	SC25015-1B	SC25015-2B	SC25019-2B	SC25024-2B	SC25024-2B	N/A	SC25019
7000	SC25015-1B	SC25019-2B	SC25024-2B	SC25024-2B	N/A	N/A	SC25019
7500	SC25015-2B	SC25019-2B	SC25024-2B	N/A	N/A	N/A	SC25019

Quick Selection Chart – C1 (Cyclonic Areas)

NOTES:

1. This document shall be read in conjunction with the 'LYSAGHT SupaPurlins - SupaZeds and SupaCees Users Guide, March 2009'.
2. The wind classification C1 is in accordance with AS4055-2006, 'Wind Loads for Housing' and is based on well developed urban areas with relatively flat topography. The user of the quick selection chart is to confirm the wind classification is appropriate for their situation.
3. The maximum purlin spans and spacing are based on the wind speed for a C1 wind classification derived from the pressure coefficients and local pressure factors provided in AS4055-2006 and AS1170.2-2002 for a maximum building height of 3.0m and 3° roof pitch.
4. The purlins have been sized for a 0.25kPa occasional maintenance load for non trafficable roofs in accordance with AS1170.1-2002.
5. All configurations are based on purlins being connected to the edge beam webs with two LYSAGHT general purpose brackets and LYSAGHT standard purlin bolts.
6. 0B, 1B, 2B & 3B indicate the number of rows of LYSAGHT HOOKLOK II or bolted bridging per span.
7. Bridging setout shall be as follows:
   1B – 0.5 span : 0.5 span
   2B – 0.35 span : 0.3 span : 0.35 span
   3B – 0.28 span : 0.22 span : 0.22 span : 0.28 span
8. These charts only apply to open carports with the cladding screw fixed to the purlin flange.
9. The user is to confirm the maximum purlin spacing is appropriate for the selected cladding.
10. This data is based on published LYSAGHT load capacities and is to be used only for the LYSAGHT SupaZeds and SupaCees range of products.
11. N/A indicates no suitable section is available.
12. All LYSAGHT general purpose brackets shall be fixed using a minimum of four LYSAGHT purlin bolts.
13. SUPAPURLINS up to and including SC250 in size will be fixed using LYSAGHT PB1230 (flanged M12 x 30), 4.6 grade purlin bolts. SUPAPURLINS SC300 in size will be fixed using LYSAGHT PB1645 (flanged M16 x 45), 4.6 grade purlin bolts.

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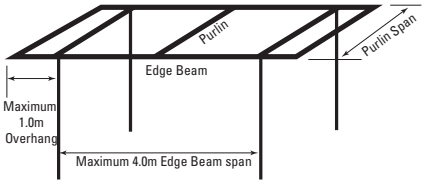
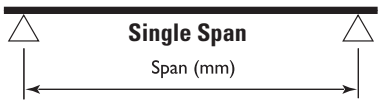


Purlin Size Required - Number of rows of Bridging



C2

Purlin Span (mm)	Purlin Spacing (mm)						Edge Beam Size
	600	900	1200	1500	1800	2100	
3000	SC15012-0B	SC15012-1B	SC15015-1B	SC15019-1B	SC15019-1B	SC15024-1B	SC15024
3500	SC15012-1B	SC15015-1B	SC15019-1B	SC15024-1B	SC15024-1B	N/A	SC15024
4000	SC20012-0B	SC20012-1B	SC20015-1B	SC20019-1B	SC20024-1B	SC20024-1B	SC20019
4500	SC20012-1B	SC20015-1B	SC20019-1B	SC20024-1B	SC20024-1B	N/A	SC20024
5000	SC20012-1B	SC20019-1B	SC20024-1B	SC20024-2B	N/A	N/A	SC20024
5500	SC25015-1B	SC25019-1B	SC25019-2B	SC25024-1B	N/A	N/A	SC25019
6000	SC25015-1B	SC25019-1B	SC25024-1B	N/A	N/A	N/A	SC25024
6500	SC25015-2B	SC25024-1B	SC25024-2B	N/A	N/A	N/A	SC25024
7000	SC30024-0B	SC30024-1B	SC30024-1B	SC30030-1B	SC30030-1B	N/A	SC30024
7500	SC30024-0B	SC30024-1B	SC30024-1B	SC30030-1B	SC30030-1B	N/A	SC30024

Quick Selection Chart – C2 (Cyclonic Areas)

NOTES:

1. This document shall be read in conjunction with the 'LYSAGHT SupaPurlins - SupaZeds and SupaCees Users Guide,March 2009'.
2. The wind classification C2 is in accordance with AS4055-2006, 'Wind Loads for Housing' and is based on well developed urban areas with relatively flat topography. The user of the quick selection chart is to confirm the wind classification is appropriate for their situation.
3. The maximum purlin spans and spacing are based on the wind speed for a C2 wind classification derived from the pressure coefficients and local pressure factors provided in AS4055-2006 and AS1170.2-2002 for a maximum building height of 3.0m and 3º roof pitch.
4. The purlins have been sized for a 0.25kPa occasional maintenance load for non trafficable roofs in accordance with AS1170.1-2002.
5. All configurations are based on purlins being connected to the edge beam webs with two LYSAGHT general purpose brackets and LYSAGHT standard purlin bolts.
6. 0B, 1B, 2B & 3B indicate the number of rows of LYSAGHT HOOKLOK II or bolted bridging per span.
7. Bridging setout shall be as follows:
   1B – 0.5 span : 0.5 span
   2B – 0.35 span : 0.3 span : 0.35 span
   3B – 0.28 span : 0.22 span : 0.22 span : 0.28 span
8. These charts only apply to open carports with the cladding screw fixed to the purlin flange.
9. The user is to confirm the maximum purlin spacing is appropriate for the selected cladding.
10. This data is based on published LYSAGHT load capacities and is to be used only for the LYSAGHT SupaZeds and SupaCees range of products.
11. N/A indicates no suitable section is available.
12. All LYSAGHT general purpose brackets shall be fixed using a minimum of four LYSAGHT purlin bolts.
13. SUPAPURLINS up to and including SC250 in size will be fixed using LYSAGHT PB1230 (flanged M12 x 30), 4.6 grade purlin bolts. SUPAPURLINS SC300 in size will be fixed using LYSAGHT PB1645 (flanged M16 x 45), 4.6 grade purlin bolts.

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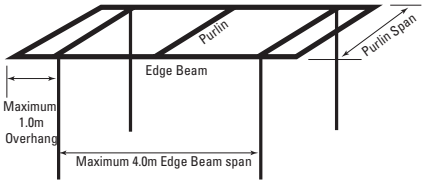
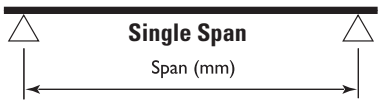


Purlin Size Required - Number of rows of Bridging

C3



Purlin Span (mm)	Purlin Spacing (mm)						Edge Beam Size
	600	900	1200	1500	1800	2100	
3000	SC20012-0B	SC20015-0B	SC20015-0B	SC20019-0B	SC20019-0B	SC20024-0B	SC20019
3500	SC20012-0B	SC20015-0B	SC20019-0B	SC20024-0B	SC20024-1B	N/A	SC20024
4000	SC20012-1B	SC20019-1B	SC20024-1B	SC20024-1B	N/A	N/A	SC20024
4500	SC25015-1B	SC25019-1B	SC25024-1B	SC25024-1B	N/A	N/A	SC25024
5000	SC25015-1B	SC25019-1B	SC25024-1B	N/A	N/A	N/A	SC25024
5500	SC30024-0B	SC30024-0B	SC30024-1B	SC30024-1B	SC30030-1B	SC30030-1B	SC30024
6000	SC30024-0B	SC30024-1B	SC30024-1B	SC30030-1B	SC30030-1B	N/A	SC30024
6500	SC30024-1B	SC30024-1B	SC30030-1B	SC30030-1B	N/A	N/A	SC30024
7000	SC30024-1B	SC30024-1B	SC30030-1B	N/A	N/A	N/A	SC30024
7500	SC30024-1B	SC30030-1B	N/A	N/A	N/A	N/A	SC30030

Quick Selection Chart – C3 (Cyclonic Areas)

NOTES:

1. This document shall be read in conjunction with the 'LYSAGHT SupaPurlins - SupaZeds and SupaCees Users Guide, March 2009'.
2. The wind classification C3 is in accordance with AS4055-2006, 'Wind Loads for Housing' and is based on well developed urban areas with relatively flat topography. The user of the quick selection chart is to confirm the wind classification is appropriate for their situation.
3. The maximum purlin spans and spacing are based on the wind speed for a C3 wind classification derived from the pressure coefficients and local pressure factors provided in AS4055-2006 and AS1170.2-2002 for a maximum building height of 3.0m and 3º roof pitch.
4. The purlins have been sized for a 0.25kPa occasional maintenance load for non trafficable roofs in accordance with AS1170.1-2002.
5. All configurations are based on purlins being connected to the edge beam webs with two LYSAGHT general purpose brackets and LYSAGHT standard purlin bolts.
6. 0B, 1B, 2B & 3B indicate the number of rows of LYSAGHT HOOKLOK II or bolted bridging per span.
7. Bridging setout shall be as follows:
   1B – 0.5 span : 0.5 span
   2B – 0.35 span : 0.3 span : 0.35 span
   3B – 0.28 span : 0.22 span : 0.22 span : 0.28 span
8. These charts only apply to open carports with the cladding screw fixed to the purlin flange.
9. The user is to confirm the maximum purlin spacing is appropriate for the selected cladding.
10. This data is based on published LYSAGHT load capacities and is to be used only for the LYSAGHT SupaZeds and SupaCees range of products.
11. N/A indicates no suitable section is available.
12. All LYSAGHT general purpose brackets shall be fixed using a minimum of four LYSAGHT purlin bolts.
13. SUPAPURLINS up to and including SC250 in size will be fixed using LYSAGHT PB1230 (flanged M12 x 30), 4.6 grade purlin bolts. SUPAPURLINS SC300 in size will be fixed using LYSAGHT PB1645 (flanged M16 x 45), 4.6 grade purlin bolts.

Engineering Certification

I hereby certify that the selection charts contained herein have been calculated in accordance with the above noted Australian Standards and BlueScope Lysaght capacity tables as published "Lysaght SupaPurlins - SupaZeds and SupaCees Users Guide, March 2009".

Yours faithfully

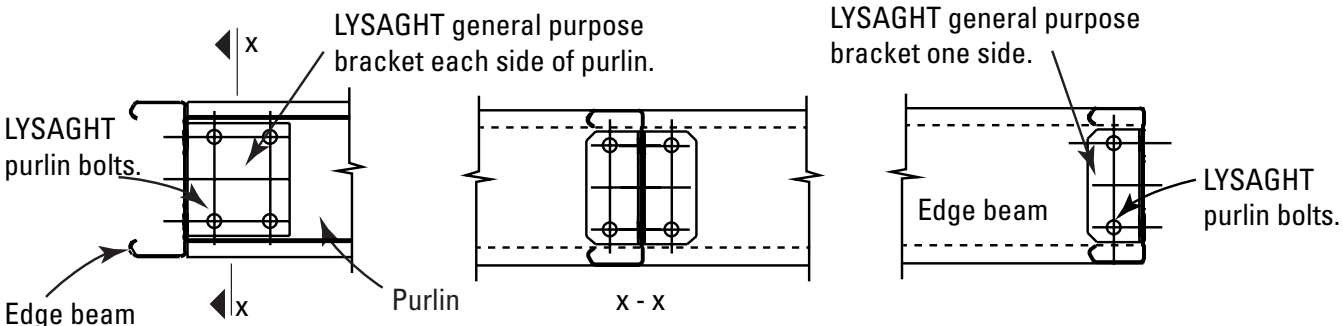
David Bell
BG STRUCTURES PTY LTD
MIE Aust., RPEQ 8152
PO Box 2531, Fortitude Valley B.C. Qld 4006

Connection Details & General Notes

Design Assumptions

1. Design wind to AS4055-2006 (Check with local council for wind classification.)
2. Terrain Category 3.
3. Topographic Class T1 – relatively level terrain, no escarpments.
4. No shielding.
5. Maximum building envelope—6.0m deep x 7.5m wide x 3.0m high.
6. Maximum 3 degree roof pitch
7. Non trafficable roof— maximum 0.25kPa live load.
8. All purlins sized are for single spans.
9. Edge beams to be maximum 4.0m span and 1.0m overhang.
10. Tables refer to genuine Lysaght SupaCee purlins. Subsitution invalidates design data.
11. These tables do not consider the supporting structure for the edge beam members – these elements are to be designed and certified by others.

Connection Details



Typical Purlin/Edge Beam Connection

Typical Purlin/Beam End Connection

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Technical enquiries: steeldirect@bluescopesteel.com or call 1800 641 417.

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5 July 2010.

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