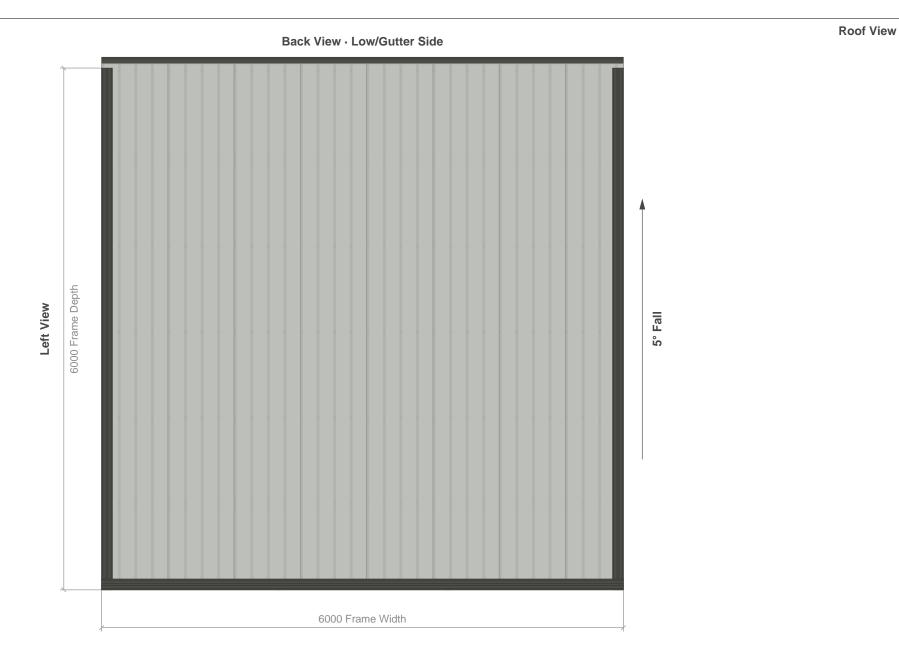
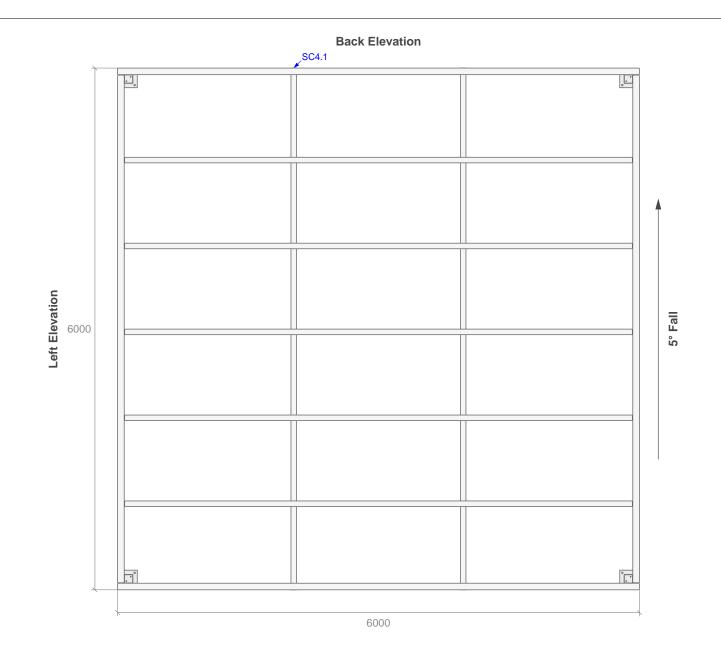
	General Notes		Steel Grades		Design Notes & Str	uctural Members	
G01	The Design and Details shown in these Drawings are applicable to this Pr	ect 300 PLUS	Universal Beams & Columns, Parallel Flange Channels, Large	Dimensions	6000 x 6000 x 300		
	only.		Angles to AS/NZS3679.1	Building Class	10a		
G02	These Drawings shall be read in conjunction with all Architectural Drawing	, 250		Design Wind Speed	49.28 m/s		
	other Consultants' Drawings, Specifications and such other Written Instructions as may be issued during the course of the Project. Any	200	AS/NZS3679.1	Columns C	100x100x3 Grade	C450L0	
	discrepancy shall be referred to the Engineer before proceeding with the v	ork. 300		Rafters R	C25019 G450		
G03	All Materials and Workmanship shall be in accordance with the relevant a	250	Hot Rolled Plates, Floor Plates & Slabs to AS/NZS3678	Purlins P	C15019 G450		
	current SAA Codes and Authorities Except where varied by the Project Specifications.	250	Hollow Sections to AS1163. Circular Sections less than 165mn Outside Diameter. Sections other than the above	Fascia Beams FB	C25019 G450		
G04	The Structure must be maintained in a stable condition and no part must be	G450-G550		& Purlin Bridging	TH22x0.40 G550		
604	overloaded during construction. Temporary bracing must be designed and		brackets are G450.	Footings	Base Plates		
	provided by the contractor(s) to keep the building works and excavations	G500	Slab mesh and deformed reinforcement bars.	All Brackets	3.0 mm G450		
0.07	stable at all times.	G2070		e, Technical Data	Page 20		
G05	The Issuer of these Designs reserves the right to alter Specifications and Designs as it may see fit without prior notification or penalty.		all Cable Bracing is G2070.				
G06	The Structure has not been designed for snow loads.	Australian	Standard [™] & Australian/New Zealand Standard [™] Adopted				
G07	Connections may require on-site drilling by the contractor(s).	AS 1111.1	ISO Metric Hexagon Bolts and Screws – Product Grade C Part	1:			
	Foundation Notes	AS/NZS 1163	Bolts Cold-formed Structural Steel Hollow Sections				
F01	Foundation Notes Foundations have been designed assuming an allowable bearing capacity						
101	100 kPa.	AS/NZS 1170.0	5	vr.			
F02	The Owner is advised to obtain a Geotechnical Report and/or Site Foundation		Actions				
	Report to confirm F01 above.	AS/NZS 1170.2	Structural Design Actions - Part 2: Structural Design, Wind Acti	ons			
F03	Footings shall be located centrally under walls and columns unless noted	AS/NZS 1170.4	Structural Design Actions - Part 4: Earthquake Actions in Austr	alia			
504	otherwise.	AS 1252	Structural Assemblies				
F04	All Footings to be founded a minimum of 400 mm into Natural Ground. Do Found Footings in uncontrolled fill.	AS/NZS 1554	Structural Steel Welding				
F05	Engineer to be contacted if Foundation Conditions vary from F01 above.	AS 2870	Residential Slabs and Footings				
	Steelwork Notes	AS 3600	Concrete Structures				
S01	All Workmanship and Materials shall be in accordance with AS 4100, AS/	AS 4100	Steel Structures				
00.	4600 and AS 1554 except where varied by the Project documentation.	AS/NZS 4600					
S02	Bolting Categories are identified on the Structural Drawings as follows:	AS/NZS 4671	Steel Reinforcing Materials				
	4.6/S Commercial Bolts of Grade 4.6 to AS 1111 Snug Tightened 8.8/S High Strength Structural Bolts of Grade 8.8 to AS 1252 Snug Tighte	AS/NZS 4680	Hot-dip Galvanized (Zinc) Coatings on Fabricated Ferrous Artic	les			
S03	Unless noted otherwise, all M16 fasteners shall be Category 8.8/S. Standa		Region & Site Details				
	Fixings for C100, C150, C200 and C250 Sections are M12 bolts. Standard Fixings for C300 and C350 Sections are M16 bolts. No Connection shall h	This is a freestar	ding roof only structure. It is assumed that cars, goods or materia roof block less than 50 percentage of the cross section exposed to				
	less than 2 bolts.	the wind.		-			
S04	All metal cladding should comply with AS/NZS 4680 G550, AZ150 (550 M minimum yield stress, 150 g/m2 minimum coating mass).		ons A0-5 & B1. TC2 without Shielding: Open terrain, including vell-scattered obstructions having heights generally from 1.5 m to	5			
S05	Steelwork intended to be concrete encased shall be unpainted. Encasing		than two obstructions per hectare. The site is not on the slope or	~			
	concrete shall be Grade N25 unless noted otherwise providing a cover		ge or escarpment.				
	adequate to suit fire rating or exposure conditions. Concrete Encasement be centrally reinforced with 5 mm wire to AS 4671 or 6 mm Structural Gra-	design it e	$X M_d X (M_{z,cat} X M_s X M_t)$				
	Bars to AS 4671 at 150 mm pitch.	V _{design} = 57 X 1 X	0.95 x (0.91 x 1 x 1) = 49.28 m/s				
S06	Unless noted otherwise, all steel shall comply with the relevant Australian	Foundations hav kPa, undrained c	e been designed assuming an allowable bearing capacity of 100 ohesion $C_u = 50$ kPa. Concrete Strength = 25 MPa.				
	Standard.						
	PROJECT:		1	PROJECT NUMBER:	@ 2024 dm2 Calution	The Information as to	inad harain in Dramintage
	Skillion Carport				Confidential and the Sole	e Property of dm3 Solu	ined herein is Proprietary, tions. Reproduction in part
				DRAWN BY:			roval. Unless specified rawings are not to scale.
	PROFESSIONAL					d by dm3Soluti	0
	CHOICE ADDRESS:			DRAWN DATE:	ISSUE: SIZE:	SCALE:	DRAWING NUMBER
	SHEDS AND CARPORTS			2024-09-26	1 A4	NTS	1 of 20
	SHEDS AND OANTONTS	-		2024-03-20	ı A4		10120

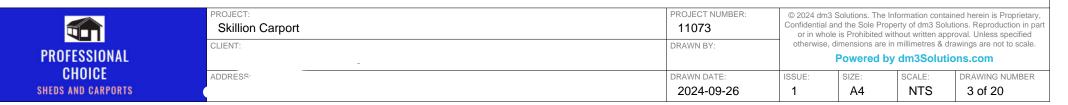


Note: Roof has been designed to support solar panels not exceeding 20 kg/m2. Solar panels to be installed within roof areas and parallel to roof sheets.



PROJECT: Skillion Carport	PROJECT NUMBER: 11073	Confidential a	© 2024 dm3 Solutions. The Information contained herein is Proprietary, confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified			
CLIENT:	DRAWN BY:	otherwise, dimensions are in millimetres & drawings are not to scale.				
			Powered by dm3Solutions.com			
ADDRESS:	DRAWN DATE:	ISSUE:	SIZE:	SCALE:	DRAWING NUMBER	
	2024-09-26	1	A4	NTS	2 of 20	

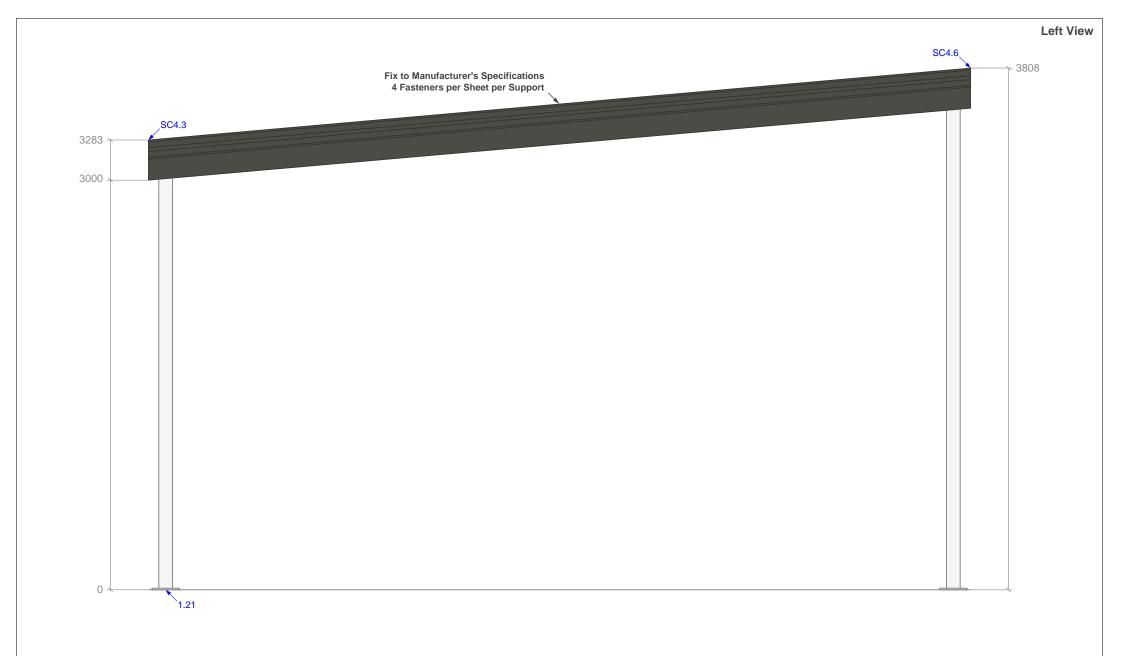




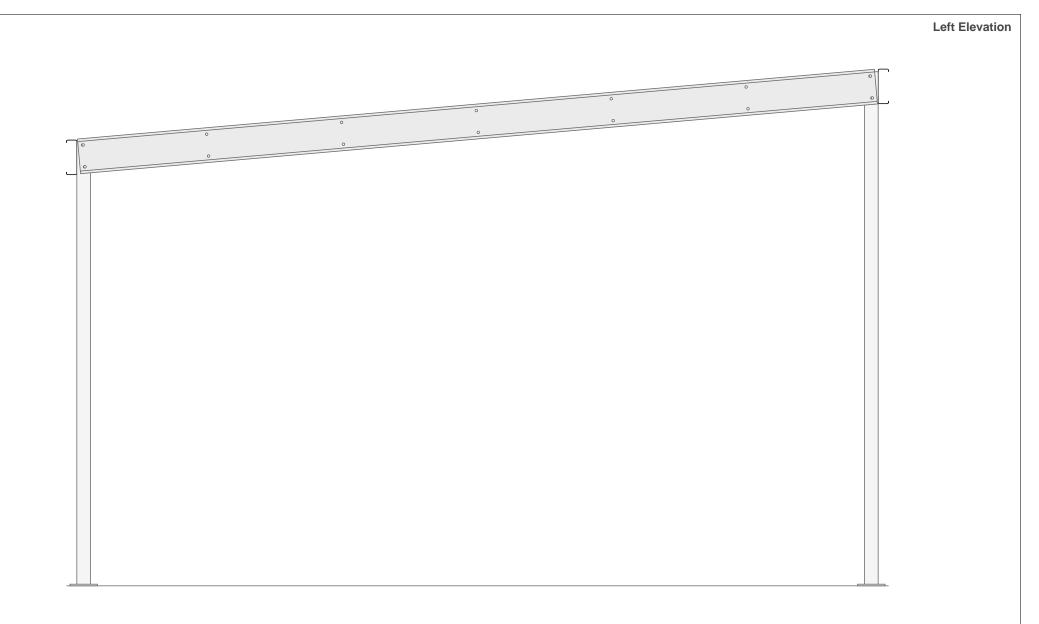
	PROJECT: Skillion Carport	PROJECT NUMBER: 11073	Confidential an	d the Sole Prope	rty of dm3 Solu	ined herein is Proprietary, utions. Reproduction in part proval. Unless specified
PROFESSIONAL	CLIENT:	DRAWN BY:		mensions are in Powered by		rawings are not to scale.
CHOICE SHEDS AND CARPORTS	ADDRESS:	DRAWN DATE: 2024-09-26	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 4 of 20

•

	PROJECT: Skillion Carport	PROJECT NUMBER: 11073	Confidential and	the Sole Proper	ty of dm3 Solut	ned herein is Proprietary, tions. Reproduction in part roval. Unless specified
PROFESSIONAL	CLIENT:	DRAWN BY:	-	nensions are in r owered by		awings are not to scale.
CHOICE	ADDRESS:	DRAWN DATE:	ISSUE:	SIZE:	SCALE:	DRAWING NUMBER
SHEDS AND CARPORTS	· · · · · · · · · · · · · · · · · · ·	2024-09-26	1	A4	NTS	5 of 20



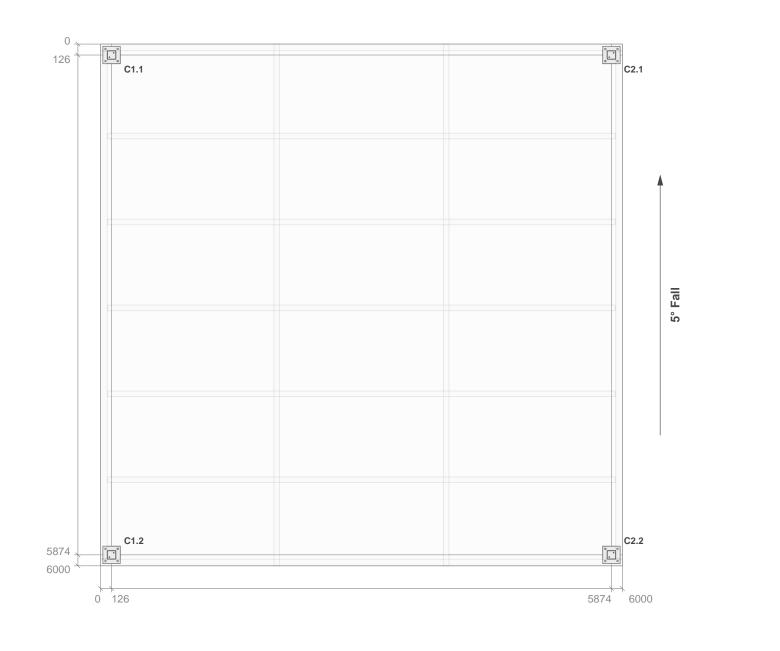
	PROJECT: Skillion Carport	PROJECT NUMBER: 11073	Confidential and or in whole	d the Sole Prope is Prohibited with	rty of dm3 Solu out written app	ined herein is Proprietary, utions. Reproduction in part proval. Unless specified
PROFESSIONAL	CLIENT:	DRAWN BY:		mensions are in r Powered by		rawings are not to scale.
CHOICE	ADDRESS:	DRAWN DATE:	ISSUE:	SIZE:	SCALE:	DRAWING NUMBER
SHEDS AND CARPORTS		2024-09-26	1	A4	NTS	6 of 20



	PROJECT: Skillion Carport	PROJECT NUMBER: 11073	Confidential an or in whole	d the Sole Prope is Prohibited with	rty of dm3 Soluti out written appr	ed herein is Proprietary, ons. Reproduction in part oval. Unless specified
PROFESSIONAL	CLIENT:	DRAWN BY:	-	mensions are in r Powered by		wings are not to scale.
CHOICE HEDS AND CARPORTS	ADDRESS:	DRAWN DATE: 2024-09-26	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 7 of 20

SHE

Post Layout



	PROJECT: Skillion Carport	PROJECT NUMBER: 11073	Confidential and or in whole	d the Sole Prope is Prohibited with	rty of dm3 Soluti out written appre	ed herein is Proprietary, ons. Reproduction in part oval. Unless specified
PROFESSIONAL	CLIENT:	DRAWN BY:		mensions are in r Powered by		wings are not to scale.
CHOICE	ADDRESS	DRAWN DATE:	ISSUE:	SIZE:	SCALE:	DRAWING NUMBER
SHEDS AND CARPORTS		2024-09-26	1	A4	NTS	8 of 20

Rafter Layout

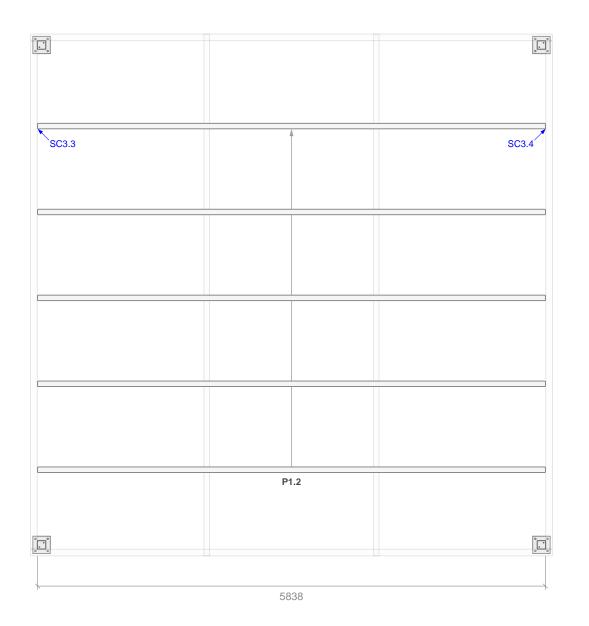
0 0	
SC2.1	
R1	R2
	SC2.10
• • • •	

	PROJECT: Skillion Carport	PROJECT NUMBER: 11073	Confidential an	d the Sole Prope	rty of dm3 Solu	ned herein is Proprietary, tions. Reproduction in part roval. Unless specified
PROFESSIONAL	CLIENT:	DRAWN BY:		mensions are in r Powered by		awings are not to scale.
CHOICE SHEDS AND CARPORTS	ADDRESS:	DRAWN DATE: 2024-09-26	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 9 of 20

<u>. </u>		
	FB1.1	
• •	FB1.2	
	6000	

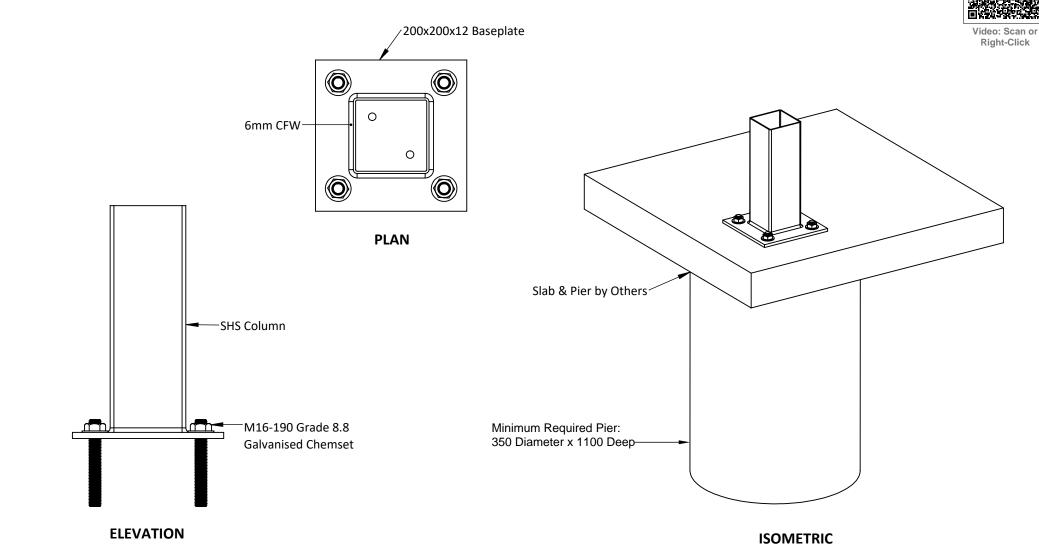
	© 2024 dm3 Solutions. The Information contained herein is Proprie Confidential and the Sole Property of dm3 Solutions. Reproduction or in whole is Prohibited without written approval. Unless specifi				
RAWN BY:	otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com				
	ISSUE:			DRAWING NUMBER 10 of 20	
RAV		VN DATE: ISSUE:	Powered by VN DATE: ISSUE: SIZE:	Powered by dm3Solution VN DATE: ISSUE: SIZE: SCALE:	

Purlin Layout



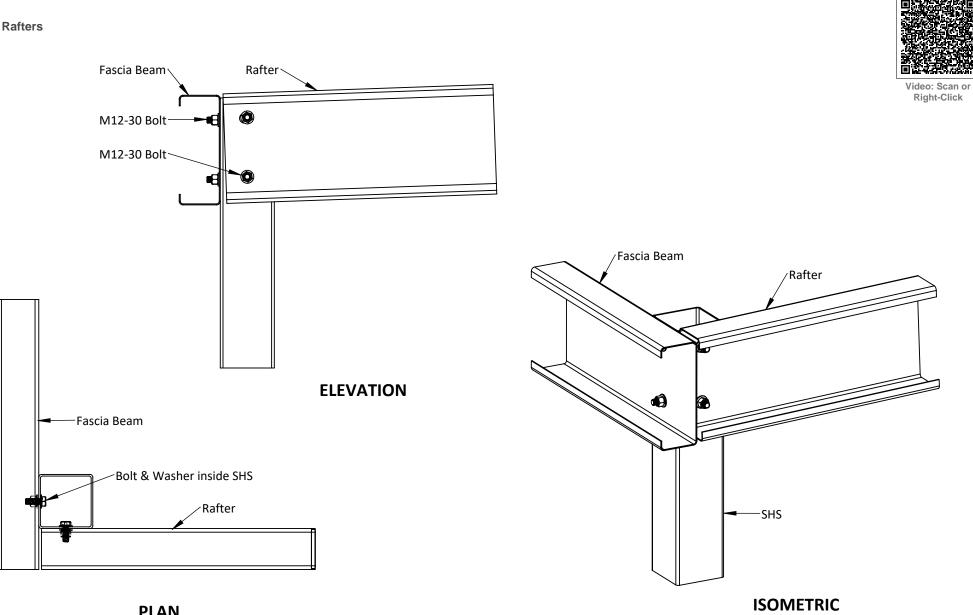
	PROJECT: Skillion Carport CLIENT:	PROJECT NUMBER: 11073 DRAWN BY:	© 2024 dm3 Solutions. The Information contained herein is Prop Confidential and the Sole Property of dm3 Solutions. Reproductio or in whole is Prohibited without written approval. Unless spec otherwise, dimensions are in millimetres & drawings are not to Powered by dm3Solutions.com			ons. Reproduction in part oval. Unless specified wings are not to scale.
CHOICE SHEDS AND CARPORTS		DRAWN DATE: 2024-09-26	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 11 of 20





	PROJECT: Skillion Carport	PROJECT NUMBER: 11073	Confidential an	4 dm3 Solutions. The Information contained herein is Proprietary, ntial and the Sole Property of dm3 Solutions. Reproduction in part whole is Prohibited without written approval. Unless specified wise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
PROFESSIONAL	CLIENT:	DRAWN BY:					
CHOICE	ADDRESS:	DRAWN DATE:	ISSUE:	SIZE:	SCALE:	DRAWING NUMBER	
SHEDS AND CARPORTS		2024-09-26	1	A4	NTS	12 of 20	

« Detail SC2.1: Rafters

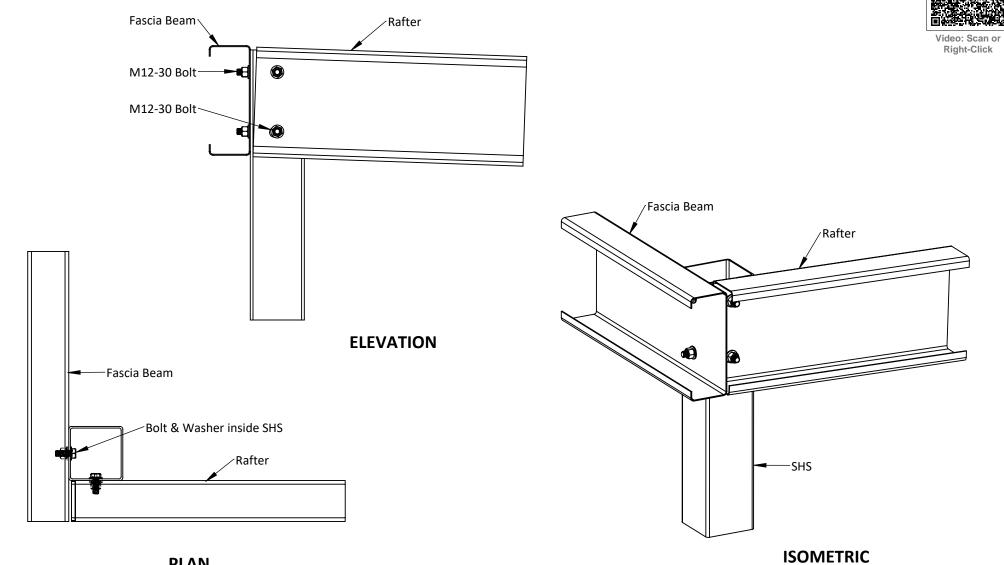




	PROJECT: Skillion Carport	PROJECT NUMBER: 11073	© 2024 dm3 Solutions. The Information contained herein is Proprietary, Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified				
PROFESSIONAL	CLIENT:	DRAWN BY:	otherwise, dimensions are in millimetres & drawings are not to Powered by dm3Solutions.com			-	
CHOICE SHEDS AND CARPORTS	ADDRESS:	DRAWN DATE: 2024-09-26	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 13 of 20	

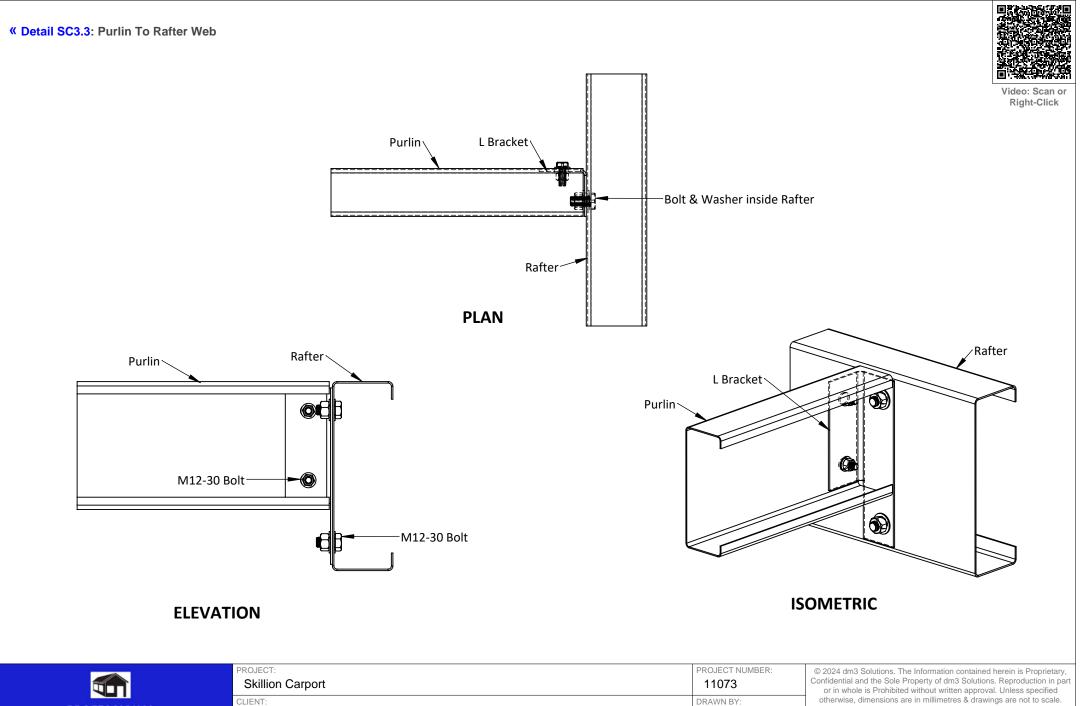
« Detail SC2.10: Rafters





PLAN

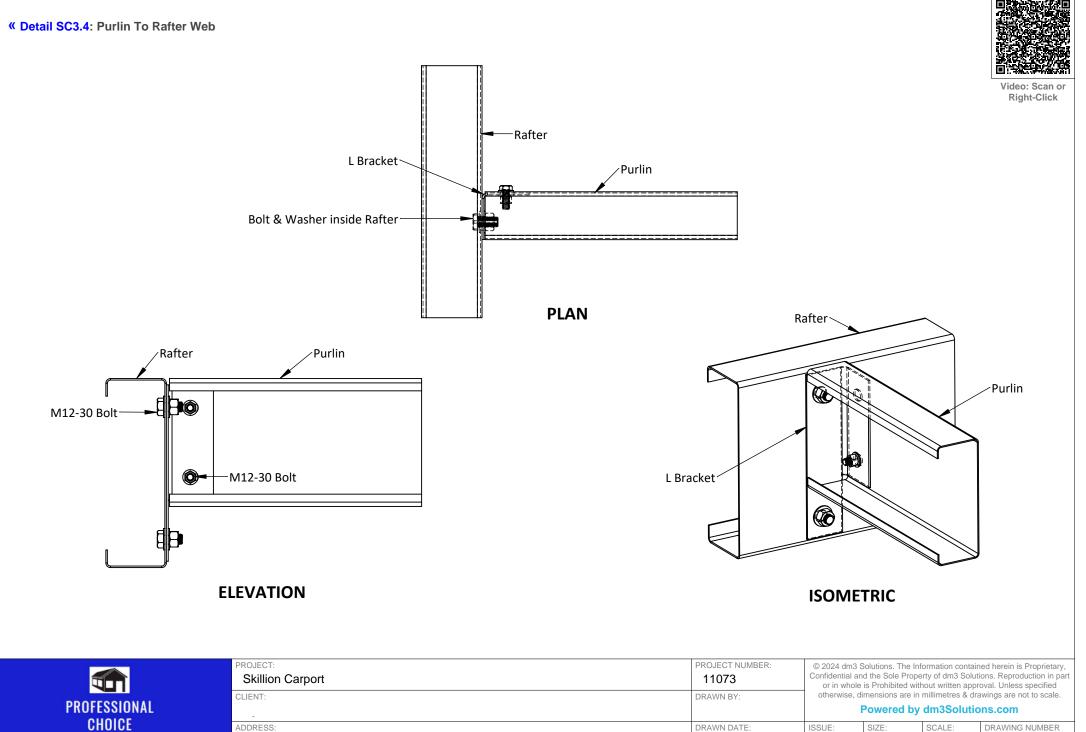
	PROJECT: Skillion Carport	PROJECT NUMBER: 11073	© 2024 dm3 Solutions. The Information contained herein is Proprietar Confidential and the Sole Property of dm3 Solutions. Reproduction in p or in whole is Prohibited without written approval. Unless specified				
PROFESSIONAL	CLIENT:	DRAWN BY:		otherwise, dimensions are in millimetres & drawings are not to scale. Powered by dm3Solutions.com			
CHOICE Sheds and carports	ADDRESS:	DRAWN DATE: 2024-09-26	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 14 of 20	



PROFESSIONAL	CLIENT:	
CHOICE	ADDRESS:	
SHEDS AND CARPORTS		

SHED

or in whole is Prohibited without written approval. Unless specified otherwise, dimensions are in millimetres & drawings are not to scale.						
Powered by dm3Solutions.com						
SIZE:	SCALE:	DRAWING NUMBER				
A4	NTS	15 of 20				
	IZE:	IZE: SCALE:				



ADDRESS: DRAWN DATE: 2024-09-26 . . . ,

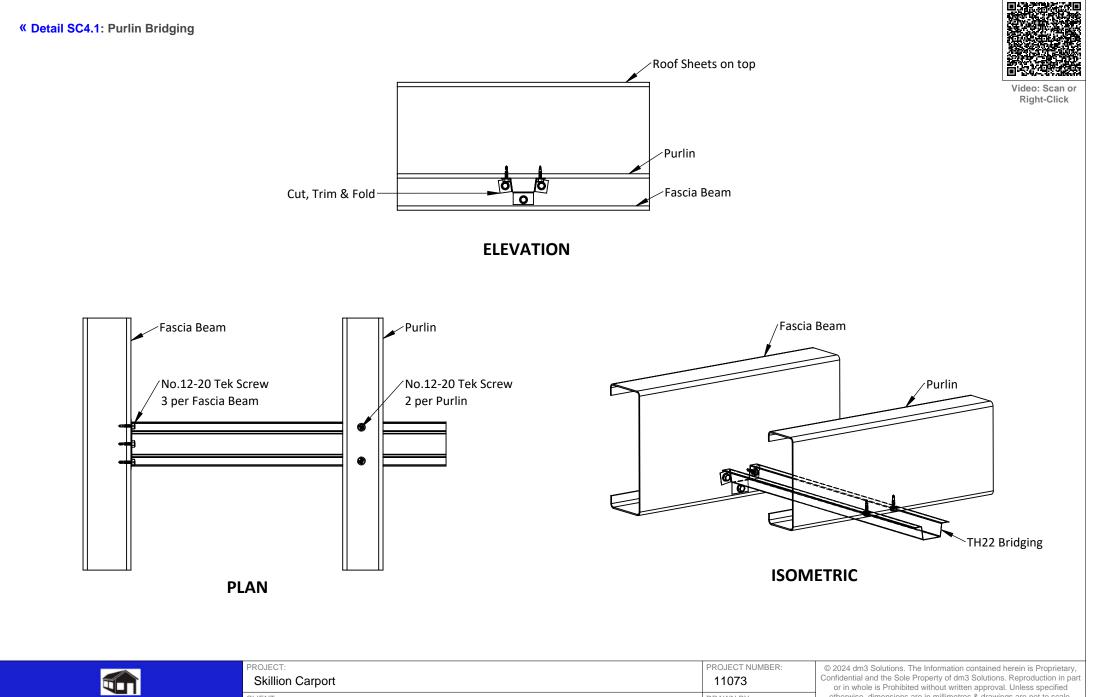
SHEDS AND CARPORTS

A4

1

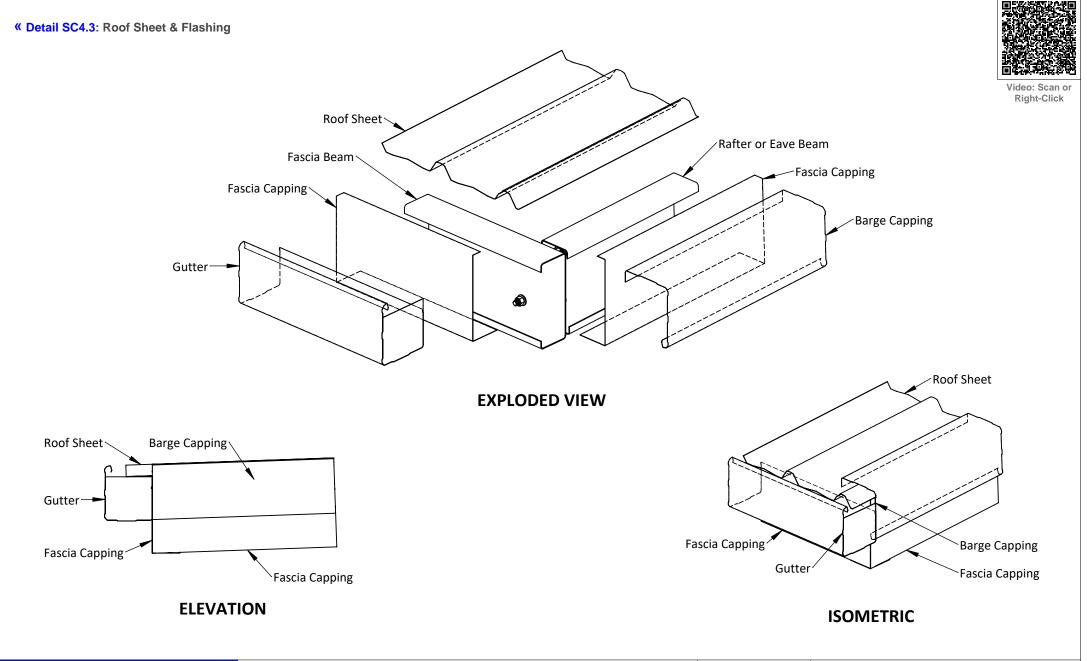
NTS

16 of 20

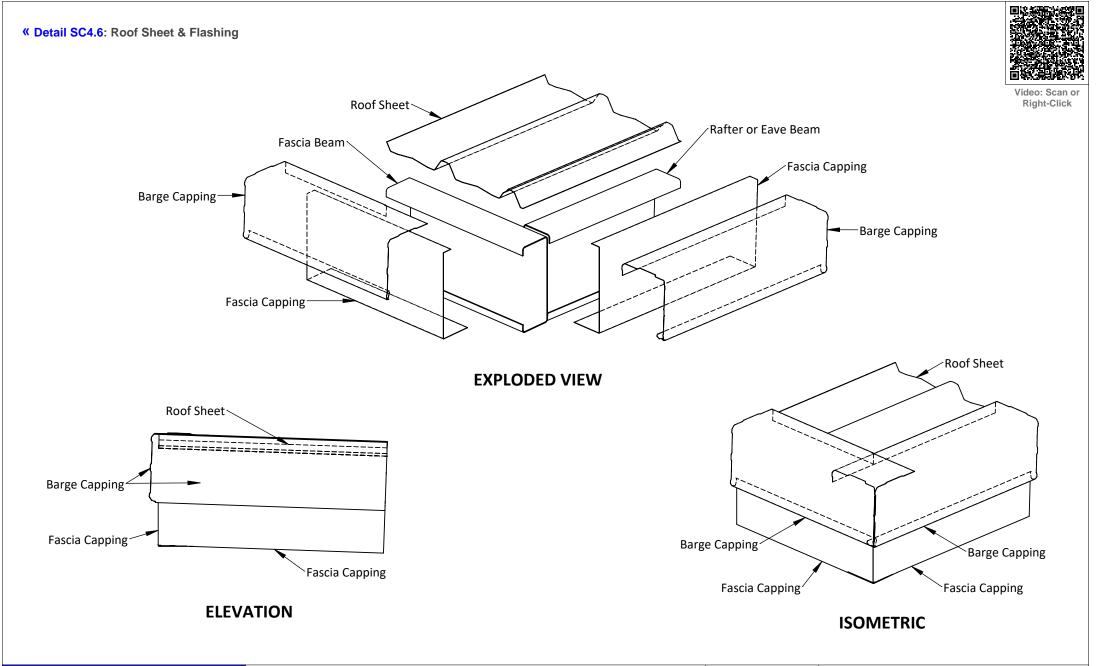


PROFESSIONAL CHOICE SHEDS AND CARPORTS

Skillion Carport	11073	Confidential and the Sole Property of dm3 Solutions. Reproduction in part or in whole is Prohibited without written approval. Unless specified						
CLIENT:	DRAWN BY:	otherwise, di	otherwise, dimensions are in millimetres & drawings are not to scale.					
		Powered by dm3Solutions.com						
ADDRESS:	DRAWN DATE:	ISSUE:	SIZE:	SCALE:	DRAWING NUMBER			
	2024-09-26	1	A4	NTS	17 of 20			



	PROJECT: Skillion Carport	PROJECT NUMBER: 11073	Confidential an	ed herein is Proprietary, ons. Reproduction in part oval. Unless specified		
PROFESSIONAL	CLIENT:	DRAWN BY:	otherwise, dimensions are in millimetres & drawings are not to so Powered by dm3Solutions.com			-
CHOICE Sheds and carports	ADDRESS:	DRAWN DATE: 2024-09-26	ISSUE: 1	SIZE: A4	SCALE: NTS	DRAWING NUMBER 18 of 20



	PROJECT: Skillion Carport	PROJECT NUMBER: 11073	© 2024 dm3 Solutions. The Information contained herein is Propriet: Confidential and the Sole Property of dm3 Solutions. Reproduction in or in whole is Prohibited without written approval. Unless specified			
PROFESSIONAL	CLIENT:	DRAWN RY.	otherwise, dimensions are in millimetres & drawings are not to a Powered by dm3Solutions.com			0
CHOICE	ADDRESS:	DRAWN DATE:	ISSUE:	SIZE:	SCALE:	DRAWING NUMBER
SHEDS AND CARPORTS		2024-09-26	1	A4	NTS	19 of 20

	Technical Data 10a · Importance Lev		ØM Required	3.722 kN per post 13.079 kNm 13.900 kNm · 100x100x3					
Region Terrain Category	B1 · Regional Wind S 2	peed 57 m/s	Member ØM	Source: OneSteel [®] DuraGal [®] Hollow Section	ons				
Shielding				Cladding Details					
Wind Speed	Requirement · AS/N2	ZS 1170.2		BlueScope [®] Colorbond [®]					
V _{design}	49.28 m/s · 177 km $V_R \times M_c \times M_d \times (M_{z,cat})$ 57 × 1 × 0.95 × (0.9)	x M _s x M _t)		550 MPa · G550 TrimDek® 0.48 mm					
Load Requirement	s · AS/NZS 1170.0, 1	170.1 & 1170.2	Minimum	Recommended Bored Piers					
Inward Outward	1.457 kPa 1.132 kPa max(0.73 0.502 kPa	5, 1.132)	Uplift V_u Shear H_u	13.079 kNm 10.188 kN 3.722 kN 350 mm diameter x 1100 mm deep					
	after Calculations			nection Calculations					
Min Yield Stress · Grade · I _x Gov Span · Load Width Capacity Required Member Capacity ØM Required Member ØM Deflection Actual	5748 mm • 3000 m 3.396 kN/m 3.570 kN/m • min(In Source: Lysaght [®] & S 14.025 kNm 18.711 kNm • L _{ex} 57	.62 x 10 ⁶ mm ⁴ m ward, Outward) tramit [®] Span Tables 48 · L _{ey} 988 · L _{ez} 988	Connections Rafters Purlins Connection Type Components Capacity Required Capacity	2 x M12 4.6/S Bolts 2 x M12 4.6/S Bolts Rafter to Post 2 x M12 4.6/S Bolts					
	Purlin Calculations			39.813 kN · 2.4 mm C-Section					
Details · Member Min Yield Stress · Grade · I _x Gov Span · Load Width Capacity Required Member Capacity Deflection Actual	C15019 with 2 rows 450 MPa · G450 · 2 5768 mm · 988 mm 1.678 kN/m 1.800 kN/m · min(In Source: Lysaght [®] & S	.02 x 10 ⁶ mm ⁴ ward, Outward) stramit [®] Span Tables	Plates	Plate Bearing Capacity 49.766 kN · 3.0 mm Plate Web Bearing Capacity 53.084 kN · 2.4 mm C-Section 66.355 kN · 3.0 mm C-Section Plate Bearing Capacity 66.355 kN · 3.0 mm Plate Tear Out Capacities					
	ia Beam Calculation		Minimum · Top Bolt Minimum · Bottom Bolt						
Member Min Yield Stress · Grade · I _x Gov Span · Load Width Capacity Required Member Capacity Deflection Actual	C25019 with 2 rows 450 MPa · G450 · 7 5748 mm · 494 mm 0.839 kN/m 3.570 kN/m · min(In Source: Lysaght [®] and	of Bridging . 62 x 10⁶mm⁴ ward, Outward) d Stramit [®] Span Tables							
	Post Calculations								
Base Connection Min Yield Stress Uplift Required Raking Force Force Coefficients C _{f,x} Frame Spacing Ratio Shielding Factors K _{sh}	450 MPa 10.188 kN 1.8 · AS/NZS 1170.2								
		PROJECT: Skillion Carport			PROJECT NUMBER: 11073	Confidential a or in whole	nd the Sole Prop e is Prohibited w	perty of dm3 Sol ithout written ap	ained herein is Proprietary, utions. Reproduction in part proval. Unless specified
PROFESSI	ONAL	CLIENT:			DRAWN BY:			n millimetres & c y dm3Solut	drawings are not to scale.
CHOIC		ADDRESS:			DRAWN DATE:	ISSUE:	SIZE:	SCALE:	DRAWING NUMBER
SHEDS AND CA					2024-09-26	1	A4	NTS	20 of 20