

PRODUCT SUMMARY

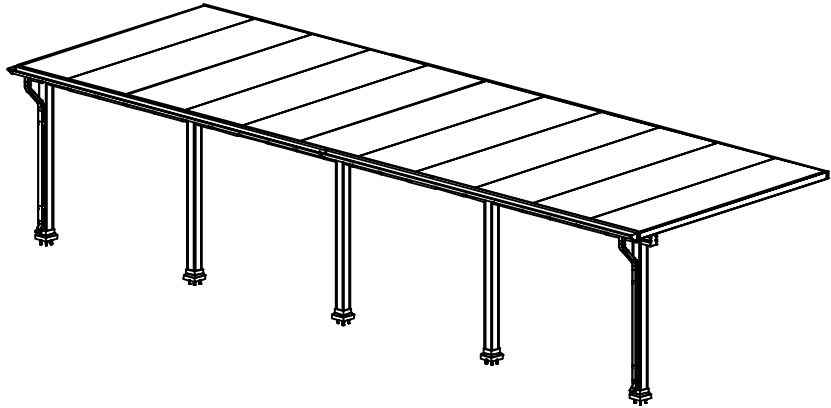
PERGOLA Product: Contempo
WALL Product: None
FRAMING: Wide Post & Beam

KEY DIMENSIONS

FRAME WIDTH: 41'
FRAME PROJECTION: 12'
POST HEIGHT: 9'
ROOF SLOPE: 0.5in
ROOF WIDTH: 43'
ROOF PROJECTION: 13'

HOST STRUCTURE

SHAPE: Wall Attached
HOST ATTACHMENT: 1 Story Home
FOUNDATION: ISOLATED DEEP CONCRETE FOOTING (3KSI MIN)



NOTE: THIS ISOMETRIC VIEW IS ONLY FOR ILLUSTRATIVE PURPOSES.
ACTUAL DETAIL DRAWINGS SHOWN HEREIN MAY VARY.

STRUCTURAL NOTES / DESIGN CRITERIA:

THE WORK SPECIFIED HEREIN HAS BEEN DESIGNED & ALL WORK SHALL BE IN ACCORDANCE WITH THE STRUCTURAL PROVISIONS OF THE CODES REFERENCED BELOW

NORTH CAROLINA BUILDING CODE (2018), ASCE 7-16 CHAPTER 30,
V= 117 MPH, EXPOSURE 'B'
MRH = 9', RISK CATEGORY II
Kd = 0.85, Kzt = 1, Kh = 0.57,
qh = 0.00256*Kz*Kzt*Kd*V = 16.98 PSF
MAXIMUM WIND PRESSURES (PERGOLA) = 15.3 PSF (ASD)

DEAD LOAD = 5 PSF
ROOF LIVE LOAD (PER APENDIX I. PATIO COVERS) = 10 PSF
SNOW LOAD = 10 PSF

SEISMIC:
SEISMIC RISK = II, SITE CLASS = D
SS = 0.167, S1 = 0.075, SDC = B, TL = 8
SDS = 0.178, SD1 = 0.12

THESE PLANS CERTIFY THE STRUCTURAL ADEQUACY OF THE PROPOSED SYSTEM IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS OF THE BUILDING CODE ONLY. THE HOST STRUCTURE IS ASSUMED TO BE ADEQUATE TO WITHSTAND THE LOADS IMPOSED BY THIS DESIGN.

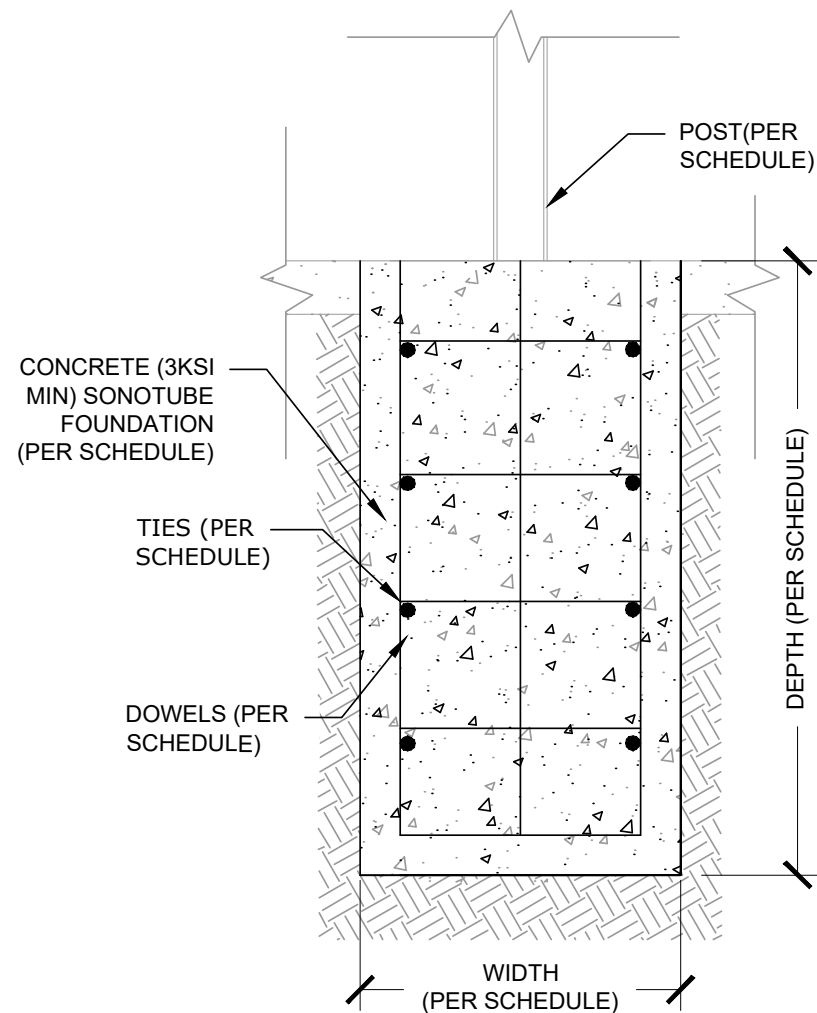
SCOPE OF WORK:

PROVIDE STRUCTURAL DRAWINGS FOR AN ALUMINUM PERGOLA MANUFACTURED BY RENAISSANCE PATIO PRODUCTS.

GENERAL NOTES:

1. CONSTRUCTION METHODS PROCEDURES, AND SEQUENCES ARE THE CONTRACTOR'S RESPONSIBILITY AND THE CONTRACTOR IS TO TAKE ALL THE NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL CONSTRUCTION AT ALL STAGES.
2. SHOULD ANY SPECIFIC CONDITION DIFFER FROM THAT SPECIFIED HEREIN, OR STANDARD FIELD CONDITIONS, ADDITIONAL SPECIFIC ENGINEERING MAY BE REQUIRED AS DETERMINED BY THE BUILDING INSPECTOR AND PERMITTING CONTRACTOR. THIS OFFICE HAS NOT VISITED THE PROJECT SITE.
3. USE MANUFACTURER'S CERTIFIED DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT SHOWN IN THESE PLANS.
4. DIMENSIONS ARE SHOWN TO ILLUSTRATE DESIGN FORCES AND OTHER DESIGN CRITERIA. THEY MAY VARY SLIGHTLY, BUT SHALL REMAIN IN CONFORMANCE WITH THE LIMITATIONS OF THIS PLAN. THE CONTRACTOR IS TO VERIFY ALL FIELD DIMENSIONS PRIOR TO INSTALLATION, AND VERIFY THAT PROPOSED DIMENSIONS AND FIELD CONDITIONS AGREE WITH THIS PROPOSED PLAN. USE OF THIS DOCUMENT CONSTITUTES ACCEPTANCE OF THE PROPOSED SYSTEM LAYOUT, COMPONENTS SELECTED, AND INSTALLATION. THESE DRAWINGS ARE NOT INTENDED TO BE USED AS FABRICATION OR SHOP DRAWINGS.
5. ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COSTS & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN. EXCEPT AS EXPRESSLY PROVIDED IN HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
6. THIS ENGINEER SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS. THIS ENGINEER SHALL BE NOTIFIED AND GIVEN AN OPPORTUNITY TO RE-EVALUATE OUR WORK UPON DISCOVERY OF ANY INACCURATE INFORMATION UPON DISCOVERY OF ANY NON-MATCHING FIELD CONDITIONS AND FABRICATION AND INSTALLATION OF MATERIALS.
7. PROPOSED CHANGES OR SUBSTITUTIONS TO STRUCTURAL DETAILS OR PLANS SHALL BE SUBMITTED TO THIS ENGINEER FOR REVIEW AND APPROVAL.
8. PATIO COVER SHOULD BE USED ONLY FOR RECREATIONAL, OUTDOOR LIVING PURPOSES AND NOT AS CARPOTS, STORAGE ROOMS OR HABITABLE ROOMS..

Renaissance Patio Products Inc. 4501 Transport Dr, Tampa, FL 33605 www.RenaissancePatio.com 866-224-4891		DiBattisto, LLC 2801 NW 55TH CT. FORT LAUDERDALE, FL 33309 OFFICE@DOPENGINEERING.COM		
GORDON DIBATTISTO, P.E. P.E. No. 51594 (NC)		7/16/2025		
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QUOTE NO: 137207	DATE	DESC	DRWN	CHKD
	7/16/2025	Design Tool	RPP	SLC
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CUSTOMER	CONTRACTOR	S0 Summary		
Ronald Wines 125 Steelman Road Southern Pines NC 28387	Sinclair Outdoor Living 125 Steelman Road Southern Pines NC 28387	Contempo 12'P x 41'W x 9'H in Bronze		
		SCALE 1:75 PG. 1 OF 8	wines 137207	



1. ALL BOLTS SHALL BE HOT DIPPED GALVANIZED, OR STAINLESS STEEL & MEET THE REQUIREMENTS OF ASTM A307.
2. WASHERS SHALL BE USED BETWEEN ALUMINUM & BOLT HEAD & BETWEEN WOOD & NUT. WHERE GENERIC FASTENERS ARE LABELED IN DETAILS.
3. EMBEDMENT DEPTHS SPECIFIED HEREIN ARE DEPTHS INTO SOLID SUBSTRATE AND DO NOT INCLUDE THICKNESS OF STUCCO OR OTHER NON-STRUCTURAL FINISHES.
4. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS, I.E. ALUMINUM PER F.B.C. 2003.8.4.

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Ronald Wines		DESC	
125 Steelman Road		Design Tool	
Southern Pines NC 28387		7/16/2025	
CONTRACTOR		DRWN	
Sinclair Outdoor Living		CHKD	
125 Steelman Road			
Southern Pines NC 28387		RPP	
		SLC	
Contempo 12'P x 41'W x 9'H in Bronze			
S1 Foundation			
SCALE 1:75			
PG. 2 OF 8			
wines 137207			

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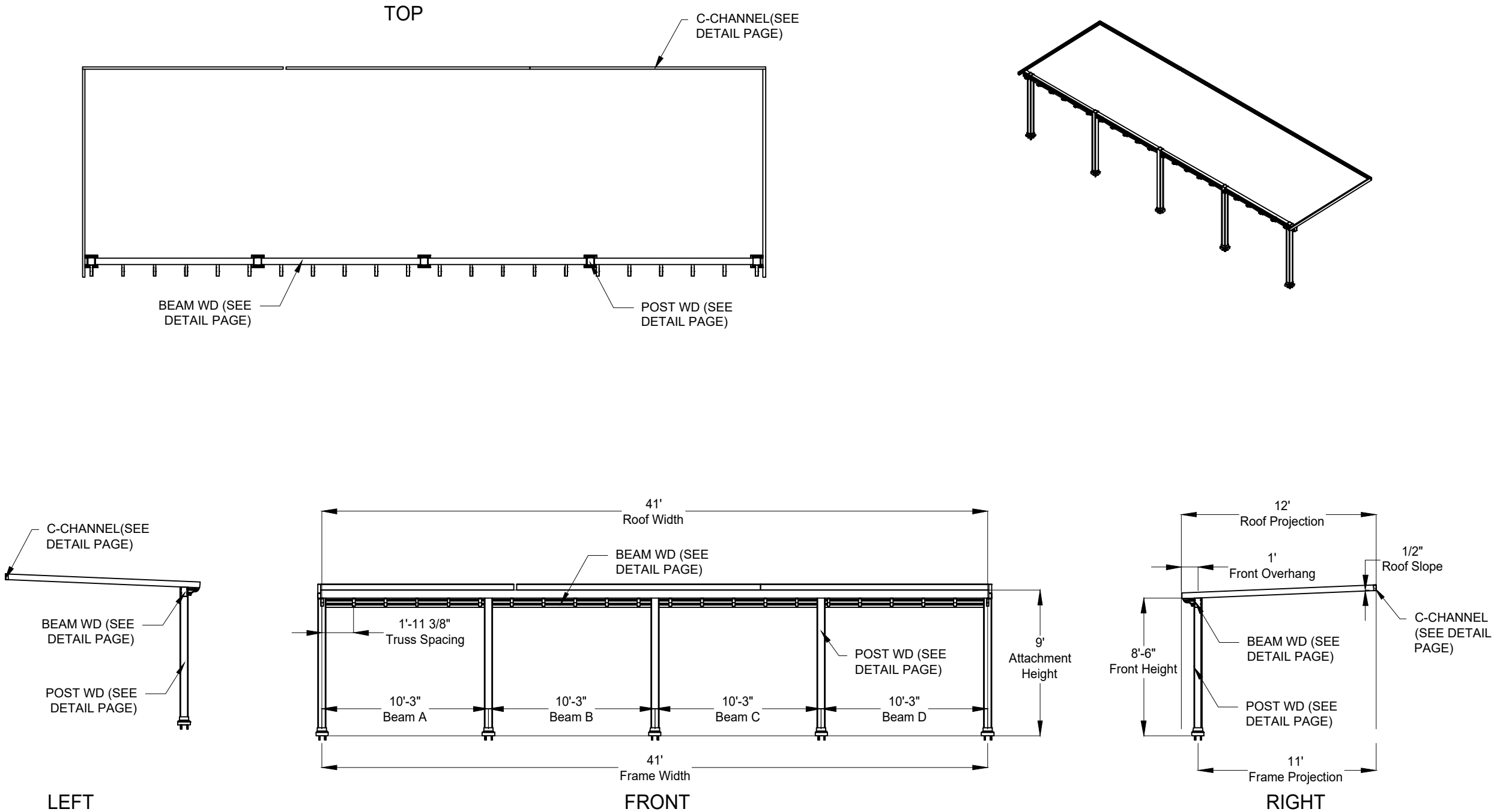
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ALUMINUM :

1. STRUCTURAL ALUMINUM SHALL BE 6005-T5 ALLOY, DESIGNED IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION'S SPECIFICATION FOR ALUMINUM STRUCTURES, LATEST EDITION.
2. ALUMINUM WELDING SHALL BE PERFORMED TO MEET THE LOCAL REQUIREMENTS OF THE BUILDING CODE SECTION WHICH REFERENCES WELD FILLER ALLOYS MEETING ANSI/AWS A5.10 STANDARDS TO ACHIEVE ULTIMATE DESIGN STRENGTH IN ACCORDANCE WITH THE ALUMINUM DESIGN MANUAL PART I-A, TABLE J.2.1. USE WELD FILLER 5356 OR BETTER ELECTRODES. ALL ALUMINUM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOLERANCES, QUALITY AND METHODS OF CONSTRUCTION AS SET FORTH IN FBC SECTION 2003 AND THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE-ALUMINUM (D1.2). MINIMUM WELD IS 1/8" THROAT FULL PERIMETER FILLET WELD UNLESS OTHERWISE NOTED.



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Contempo 12P x 41W x 9H in Bronze		wines 137207	
S2 Framing		SCALE 1:75	PG. 3 OF 8

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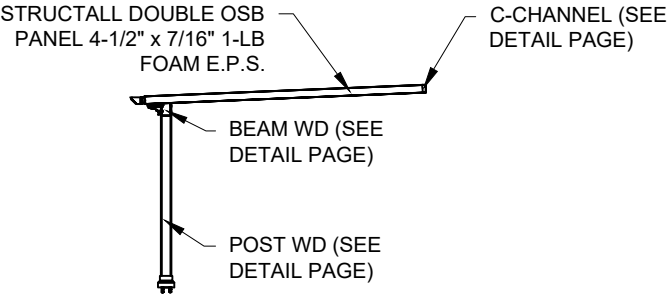
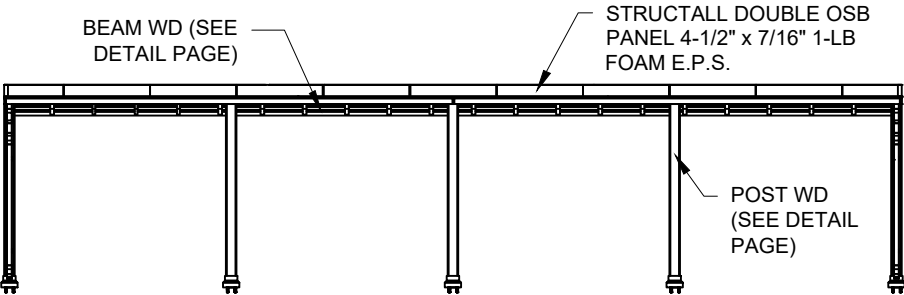
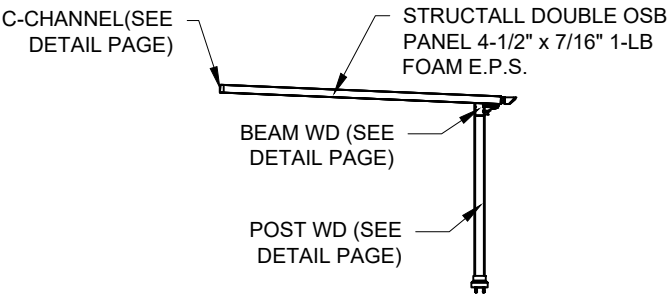
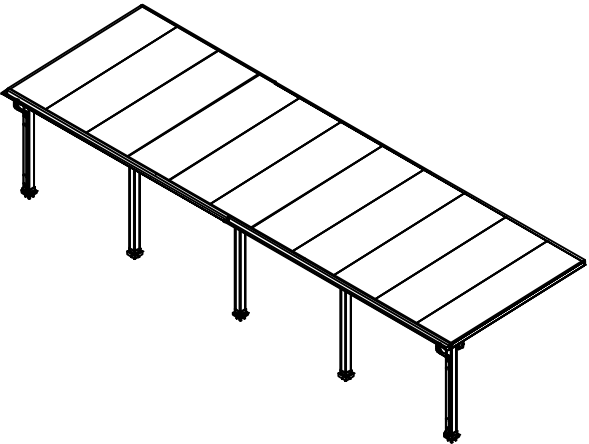
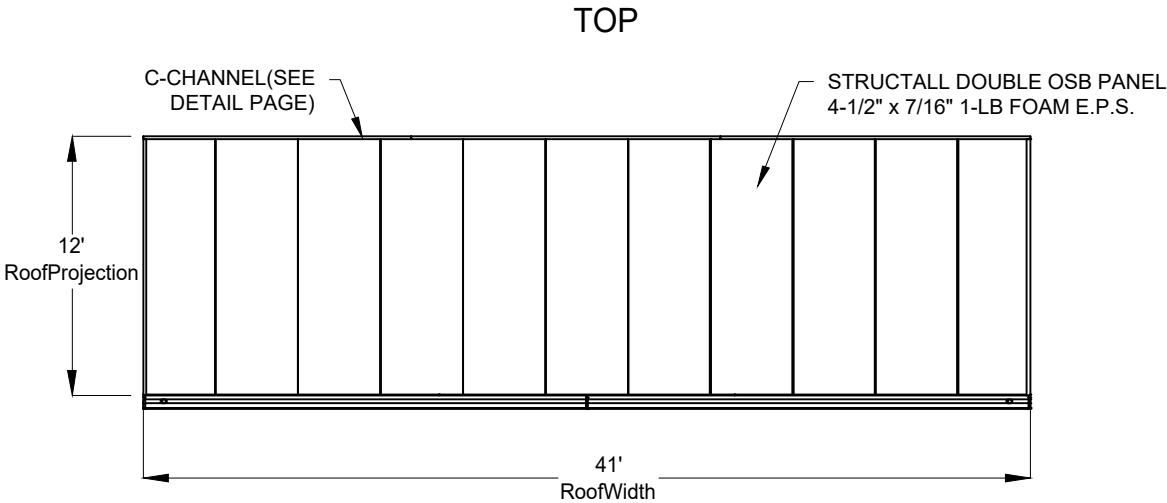
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STRUCTURAL INSULATED PANEL (SIP):

- 1. SIP SHALL BE MANUFACTURED BY STRUCTALL BUILDING SYSTEM OR AN APPROVED EQUIVALENT MANUFACTURER. PANEL SPANCHARTS DOUBLE OSB COMPOSITE PANELS. STANDARD ENGINEERING BOOK. ENGINEERED BY LAWRENCE E. BENNETT
- 2. MINIMUM ALUMINUM SKIN THICKNESS SHALL BE 7/16".
- 3. FOAM CORE TO BE MINIMUM 1.0 #/CF DENSITY EPS OR EQUIVALENT.
- 4. SEE MANUFACTURER APPROVED TABLE FOR PANEL CAPACITY.
- 5. DEFLECTION LIMITS USED L/180.

ROOF PANEL: STRUCTALL DOUBLE OSB PANEL
4-1/2" x 7/16" 1-LB FOAM E.P.S.



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7/16/2025	Design Tool	RPP	SLC

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Contempo 12'P x 41'W x 9'H in Bronze	
S3 Roof	SCALE 1:75
	PG. 4 OF 8

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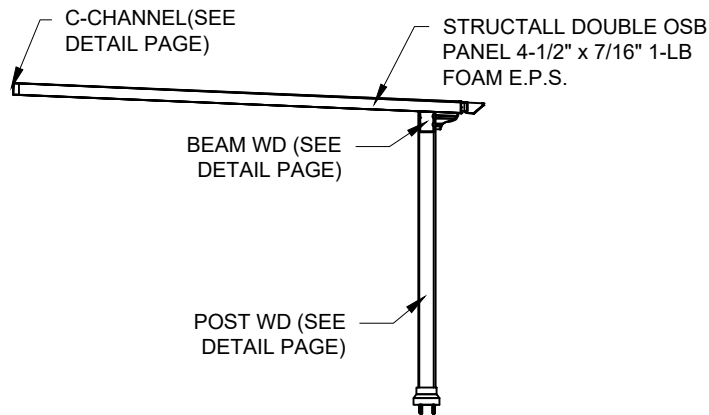
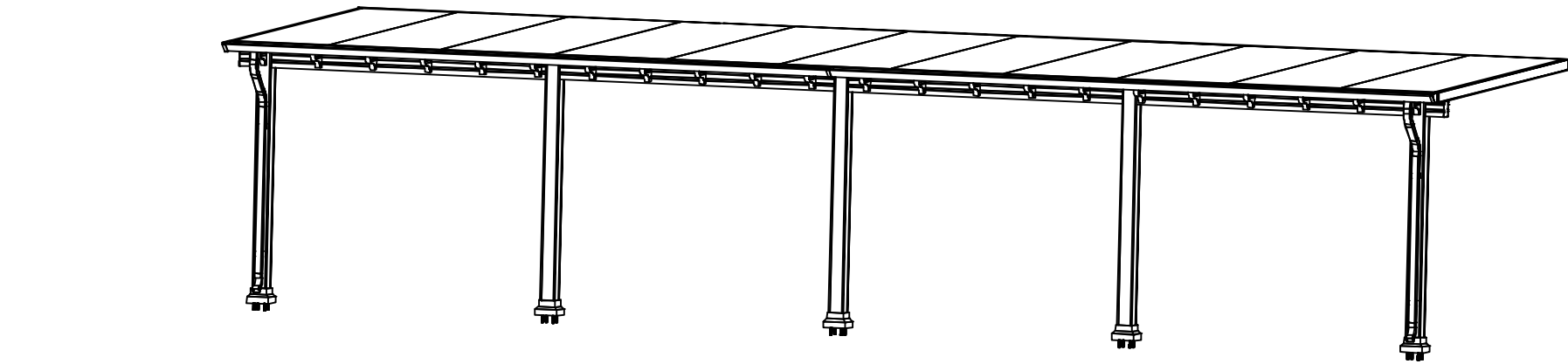
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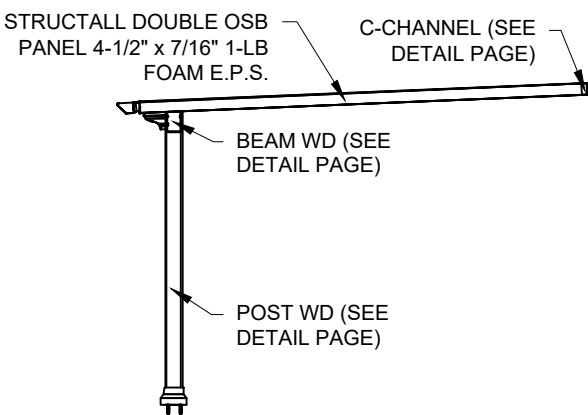
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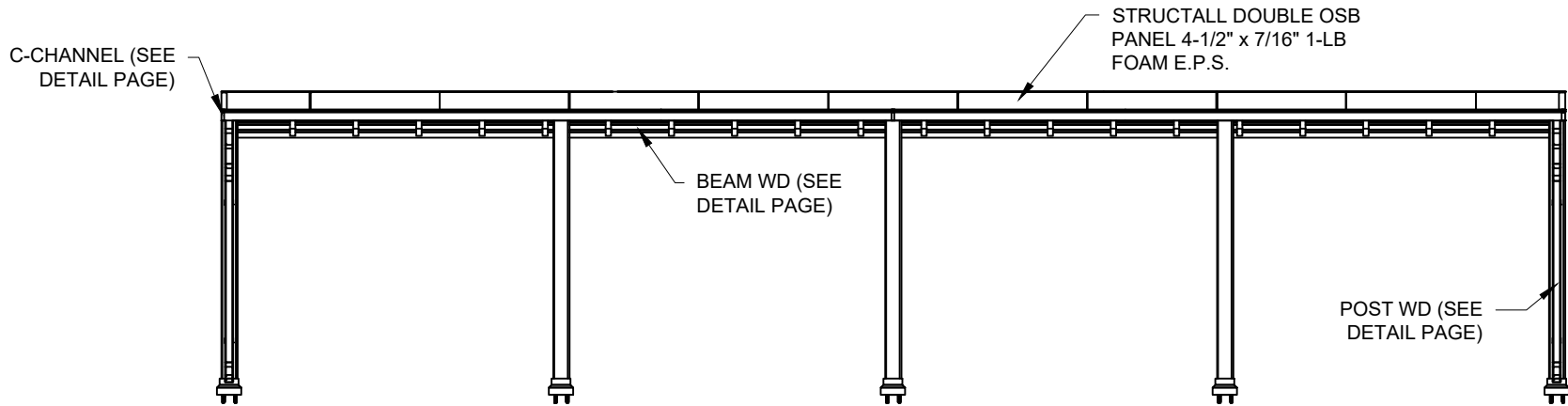
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LEFT



RIGHT



FRONT

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	Contempo 12'P x 41'W x 9'H in Bronze	
S5 Installed		SCALE 1:60 PG. 5 OF 8

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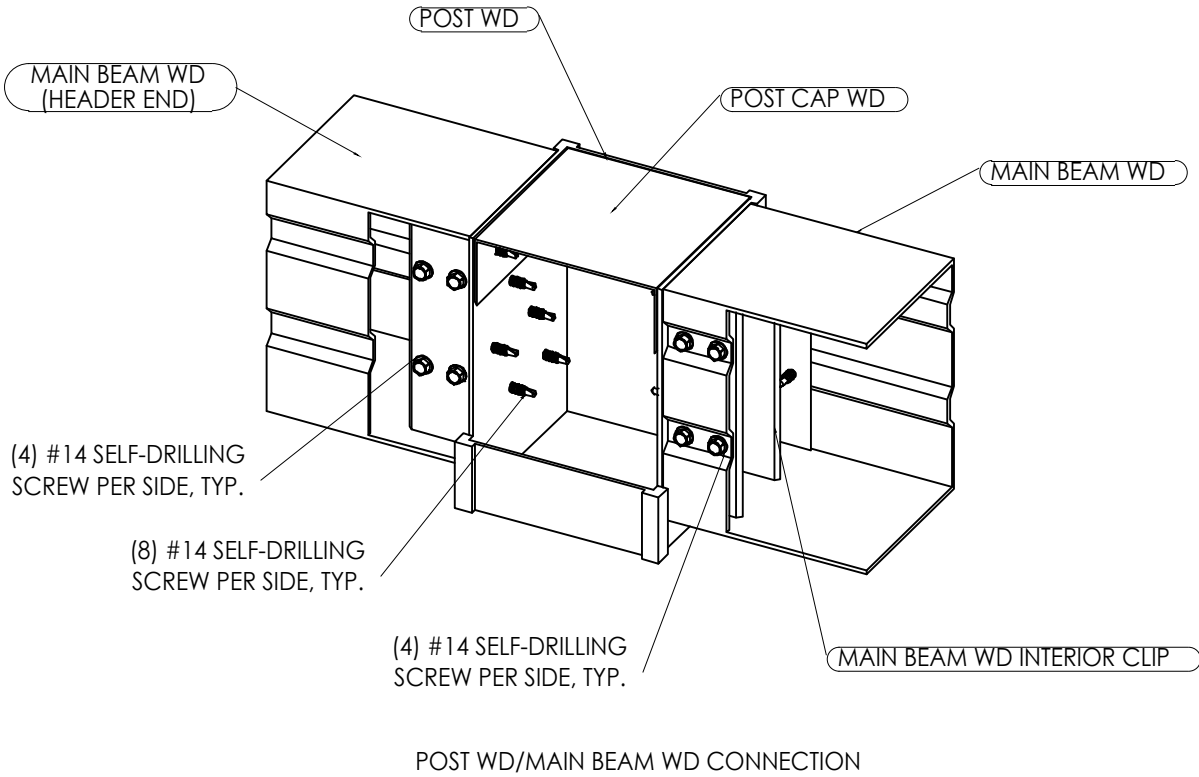
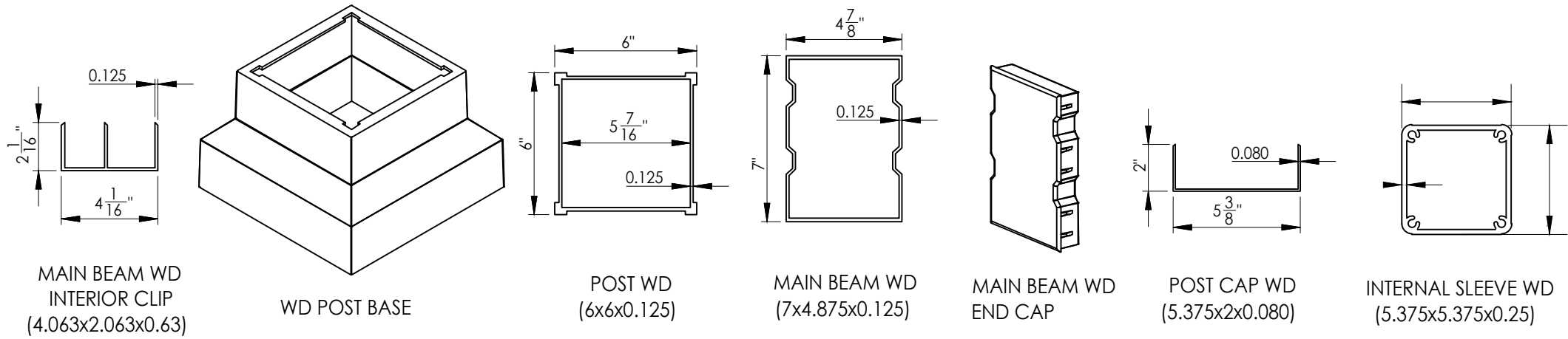
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WD POST FRAME DETAILS AT



CUSTOMER
Ronald Wines
125 Steelman Road
Southern Pines NC 28387

CONTRACTOR
Sinclair Outdoor Living
125 Steelman Road
Southern Pines NC 28387

Contempo 12'P x 41'W x 9'H in Bronze

S6 Post WD

SCALE 1:60
PG. 6 OF 8

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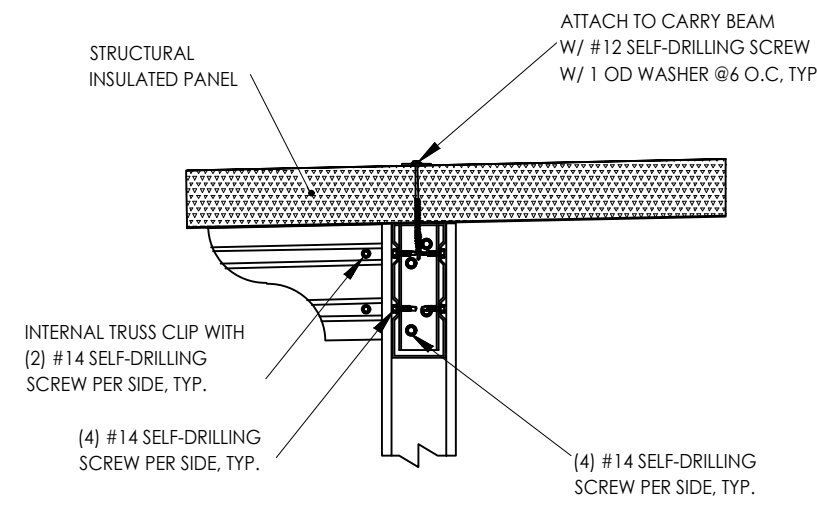
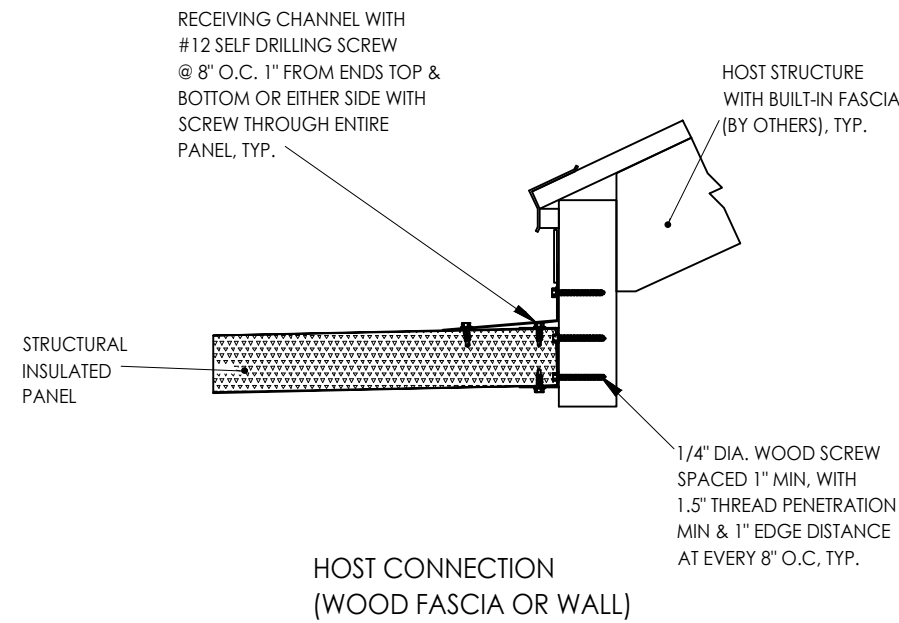
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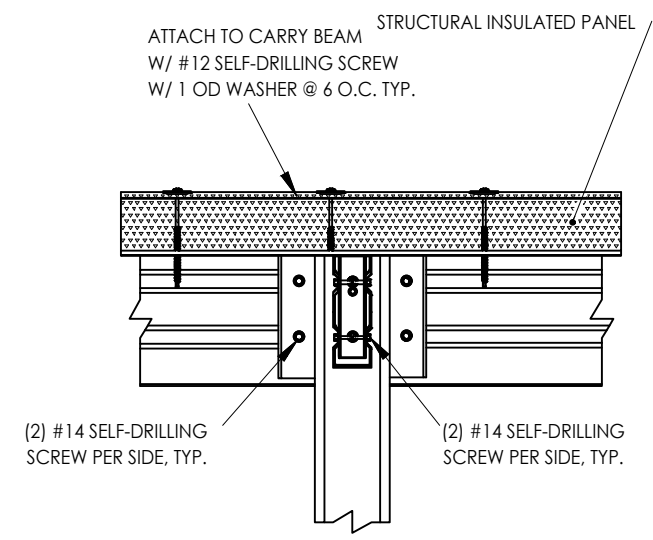
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CONTEMPO PATIO COVER CONNECTION DETAILS



PANEL/ PROJECTION & POST CONNECTION
(Side Facing View)



PANEL/ PROJECTION & POST CONNECTION
(Front Facing View)

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		SCALE 1:1	PG. 7 OF 8

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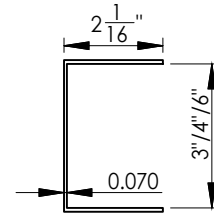
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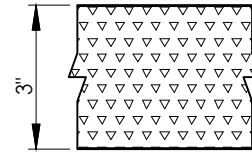
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CONTEMPO PATIO COVER STRUCTURAL PARTS



ROOF RECEIVING
CHANNEL 3"/4"/6"



STRUCTURAL INSULATED PANEL (3", 4", 6")

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Contempo 12'P x 41'W x 9'H in Bronze

S8 Parts Contempo	SCALE 1:1	wines 137207
	PG. 8 OF 8	

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