



HISTORIC PRESERVATION COMMISSION

Marc Elrich
County Executive

Robert K. Sutton
Chairman

Date: April 13, 2022

MEMORANDUM

TO: Mitra Pedoeem
Department of Permitting Services

FROM: Michael Kyne
Historic Preservation Section
Maryland-National Capital Park & Planning Commission

SUBJECT: Historic Area Work Permit # 986499: Construction of new accessory building and new hardscape

The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached application for a Historic Area Work Permit (HAWP). This application was **Approved** at the April 6, 2022 HPC meeting.

The HPC staff has reviewed and stamped the attached construction drawings.

THE BUILDING PERMIT FOR THIS PROJECT SHALL BE ISSUED CONDITIONAL UPON ADHERENCE TO THE ABOVE APPROVED HAWP CONDITIONS AND MAY REQUIRE APPROVAL BY DPS OR ANOTHER LOCAL OFFICE BEFORE WORK CAN BEGIN.

Applicant: Jared Wells
Address: 23411 Ridge Road, Cedar Grove

This HAWP approval is subject to the general condition that the applicant will obtain all other applicable Montgomery County or local government agency permits. After the issuance of these permits, the applicant must contact this Historic Preservation Office if any changes to the approved plan are made. Once work is complete the applicant will contact Michael Kyne at 301.563.3403 or michael.kyne@montgomeryplanning.org to schedule a follow-up site visit.





**APPLICATION FOR
HISTORIC AREA WORK PERMIT**
HISTORIC PRESERVATION COMMISSION
301.563.3400

FOR STAFF ONLY:
HAWP# 986499
DATE ASSIGNED _____

APPLICANT:

Name: Jared Wells
Address: 23411 Ridge Road
Daytime Phone: 2408135501

E-mail: jsw1122ecu@gmail.com
City: Germantown Zip: 20876
Tax Account No.: 00928071

AGENT/CONTACT (if applicable):

Name: _____
Address: _____
Daytime Phone: _____

E-mail: _____
City: _____ Zip: _____
Contractor Registration No.: _____

LOCATION OF BUILDING/PREMISE: MIHP # of Historic Property: #14-27

Is the Property Located within an Historic District? Yes No

Is the map of the easement, and documentation from the easement **REVIEWED** by Michael Kyne at 6:09 pm, Apr 13, 2022

Are other Planning and/or Hearing Examiner Approvals / (Conditional Use, Variance, Record Plat, etc.?) If YES, include supplemental information.

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Historic Preservation Commission

Building Number: 23411 Street: Ridge Road
Town/City: Cedar Grove Nearest Cross Street: Davis Mill Rd
Lot: P938 Block: _____ Subdivision: _____ Parcel: _____

TYPE OF WORK PROPOSED: See the checklist on Page 4 to verify that all supporting items for proposed work are submitted with this application. Incomplete Applications will not be accepted for review. Check all that apply:

- | | | |
|---|--|---|
| <input type="checkbox"/> New Construction | <input type="checkbox"/> Deck/Porch | <input checked="" type="checkbox"/> Shed/Garage/Accessory Structure |
| <input type="checkbox"/> Addition | <input type="checkbox"/> Fence | <input type="checkbox"/> Solar |
| <input type="checkbox"/> Demolition | <input type="checkbox"/> Hardscape/Landscape | <input type="checkbox"/> Tree removal/planting |
| <input type="checkbox"/> Grading/Excavation | <input type="checkbox"/> Roof | <input type="checkbox"/> Window/Door |
| | | <input checked="" type="checkbox"/> Other: <u>Additional Asphalt Driveway</u> |

I hereby certify that I have the authority to make the foregoing application, that the application is correct and accurate and that the construction will comply with plans reviewed and approved by all necessary agencies and hereby acknowledge and accept this to be a condition for the issuance of this permit.

Signature of owner or authorized agent

08Mar22

Date **5**

HAWP APPLICATION: MAILING ADDRESSES FOR NOTIFYING
[Owner, Owner's Agent, Adjacent and Confronting Property Owners]

Owner's mailing address
Jared Wells
23411 Ridge Road
Germantown, MD 20876

Owner's Agent's mailing address

Adjacent and confronting Property Owners mailing addresses

Lisa & James Bennett
23401 Ridge Road
Germantown, MD 20876

David Cheam
23412 Ridge Road
Germantown, MD 20876

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Adjacent and Confronting Properties:

Germantown, MD 20876

23401 Ridge Road

23406 Ridge Road

23412 Ridge Road

23418 Ridge Road

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Description of Property: Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:

1890 Farm house in the cedar grove historic district. Property sits up on a hill and is two stories, with one shed in the north corner of the property.

Description of Work Proposed: Please give an overview of the work to be undertaken:

Would like to construct a 12 x 16 single story shed with a 12/12 gable style roof. Shed will contain one or two doors along the right side, and a roll up garage door in the front. Will have 2 windows on the left and one window in the back. Shed will sit atop sunken 6x6's with a wood flooring. Shed will not have a permanent foundation. Per past pictures, the property previously had a shed in roughly the same exact location. Previous shed ran north to south and this shed will run east to west in that same location.

In front of the proposed shed, I would like to add an additional 10x20 section of asphalt driveway to fit one additional parking spot. Increased driveway space would not be visible from the road.

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Work Item 1: Shed

Description of Current Condition:
Does not exist. Shed previously existed in the same location of the property. Was removed prior to historic designation of the district.

Proposed Work: Construct a 12x16 shed.

Work Item 2: Driveway addition

Description of Current Condition: Current asphalt driveway with turnaround.

Proposed Work: Would like to extend the top of the driveway to add one additional parking spot. Area is roughly 10 x 20.

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Work Item 3: NA

Description of Current Condition:

Proposed Work:

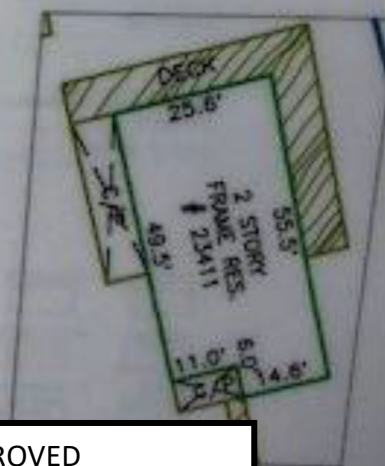
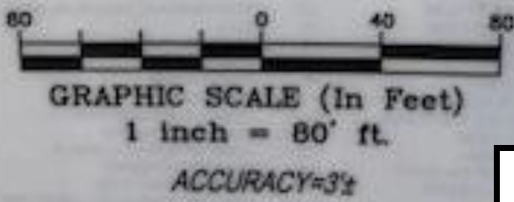
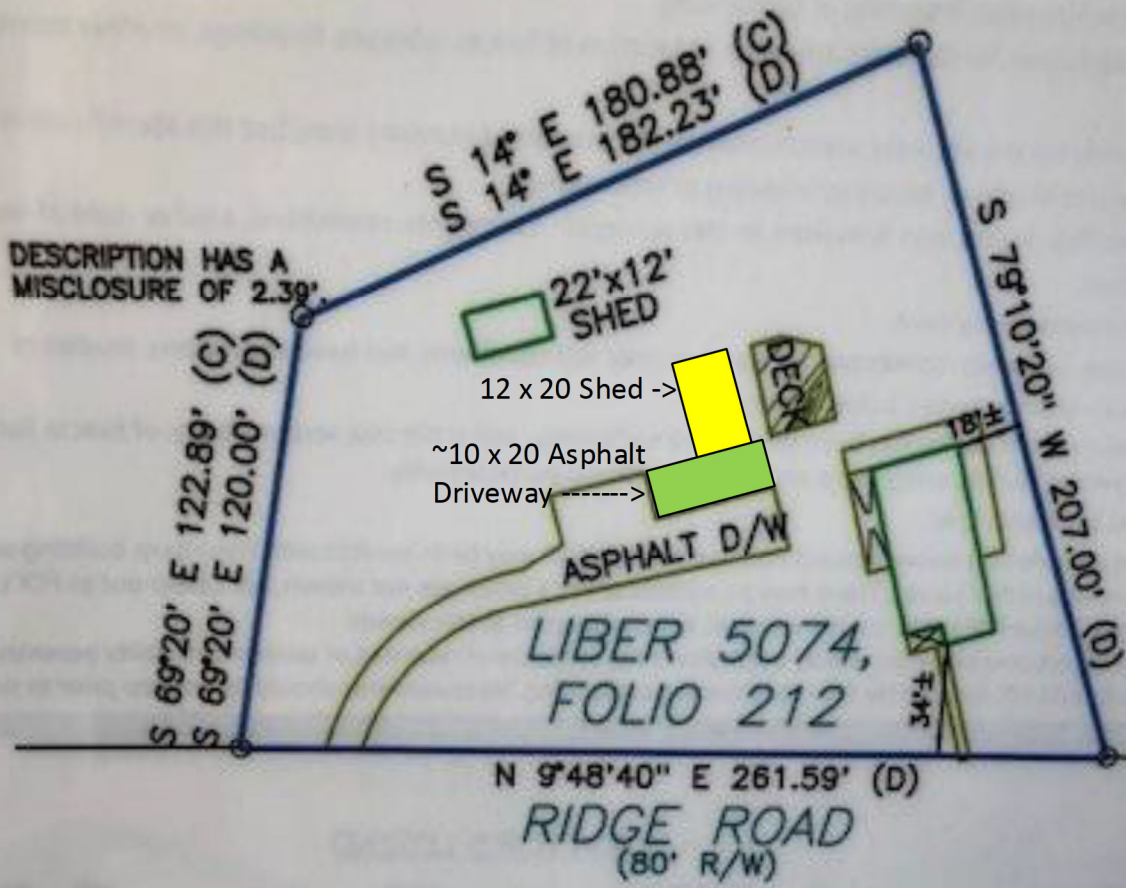
**HISTORIC AREA WORK PERMIT
CHECKLIST OF
APPLICATION REQUIREMENTS**

	Required Attachments						
Proposed Work	I. Written Description	2. Site Plan	3. Plans/Elevations	4. Material Specifications	5. Photographs	6. Tree Survey	7. Property Owner Addresses
New Construction	*	*	*	*	*	*	*
Additions/Alterations	*	*	*	*	*	*	*
Demolition	*	*	*		*		*
Deck/Porch	*	*	*	*	*	*	*
Fence/Wall	*	*	*	*	*	*	*
Driveway/Parking Area	*	*		*	*	*	*
Grading/Excavation/Landscaping	*	*		*	*	*	*
Tree Removal	*	*		*	*	*	*
Siding/ Roof Changes	*	*	*	*	*		*
Window/ Door Changes	*	*	*	*	*		*
Masonry Repair/ Repoint	*	*	*	*	*		*
Signs	*	*	*	*	*		*

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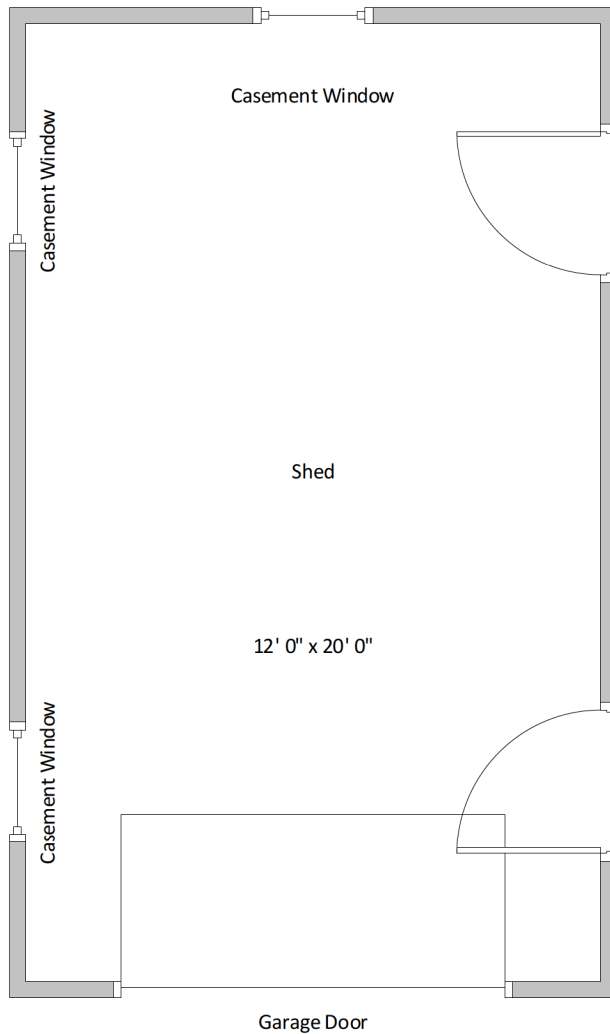
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Ronald A. ...



Plans for shed

- 12 ft x 20 ft
- Two doors on right side
- Roll up garage door on front
- Two windows on left side
- One window in the back

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Ronald A. Potter

ELEVATION # 1

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View from driveway

looking toward the house.

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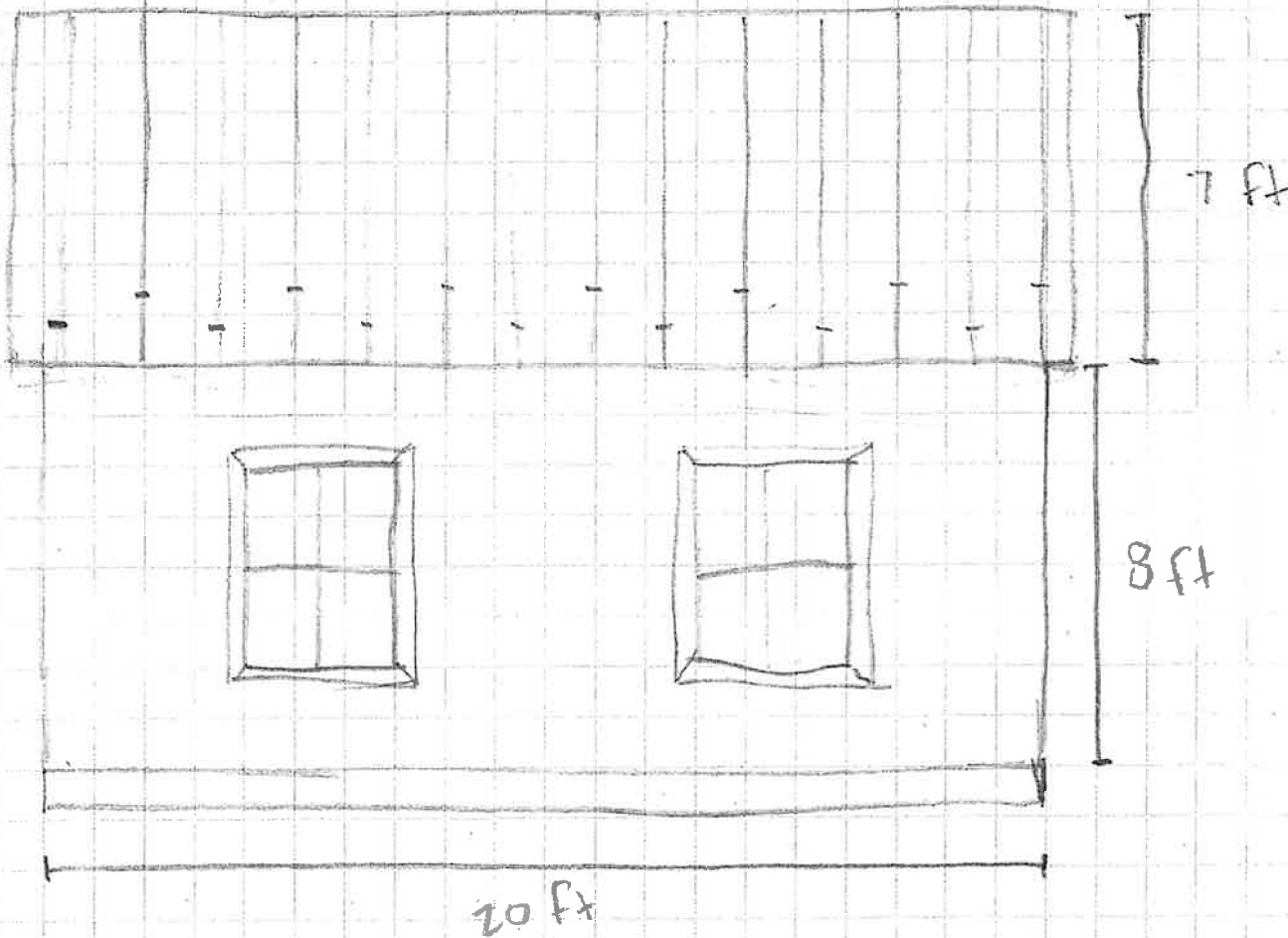
Historic Preservation Commission



Drawing

is to

scale

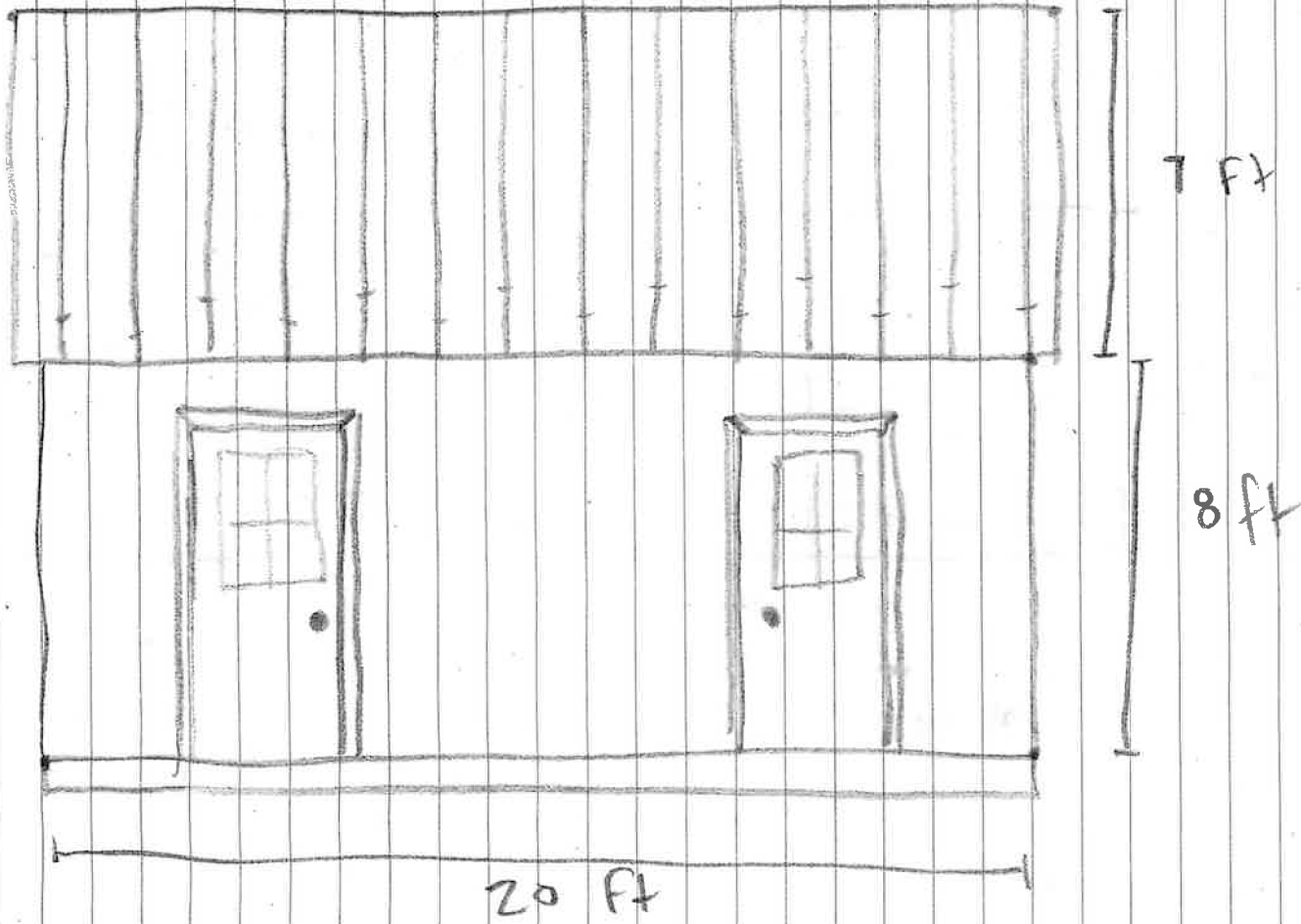


ELEVATION # 2

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View looking down
the driveway from the house



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Ronald A. Potter

to
Scale

ELEVATION # 3

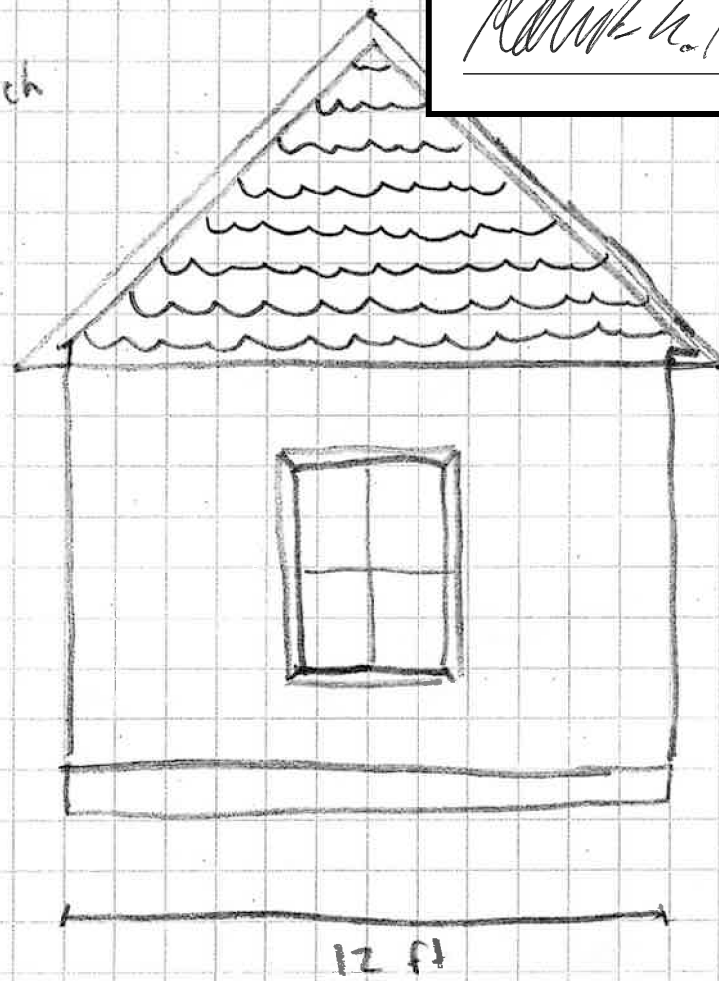
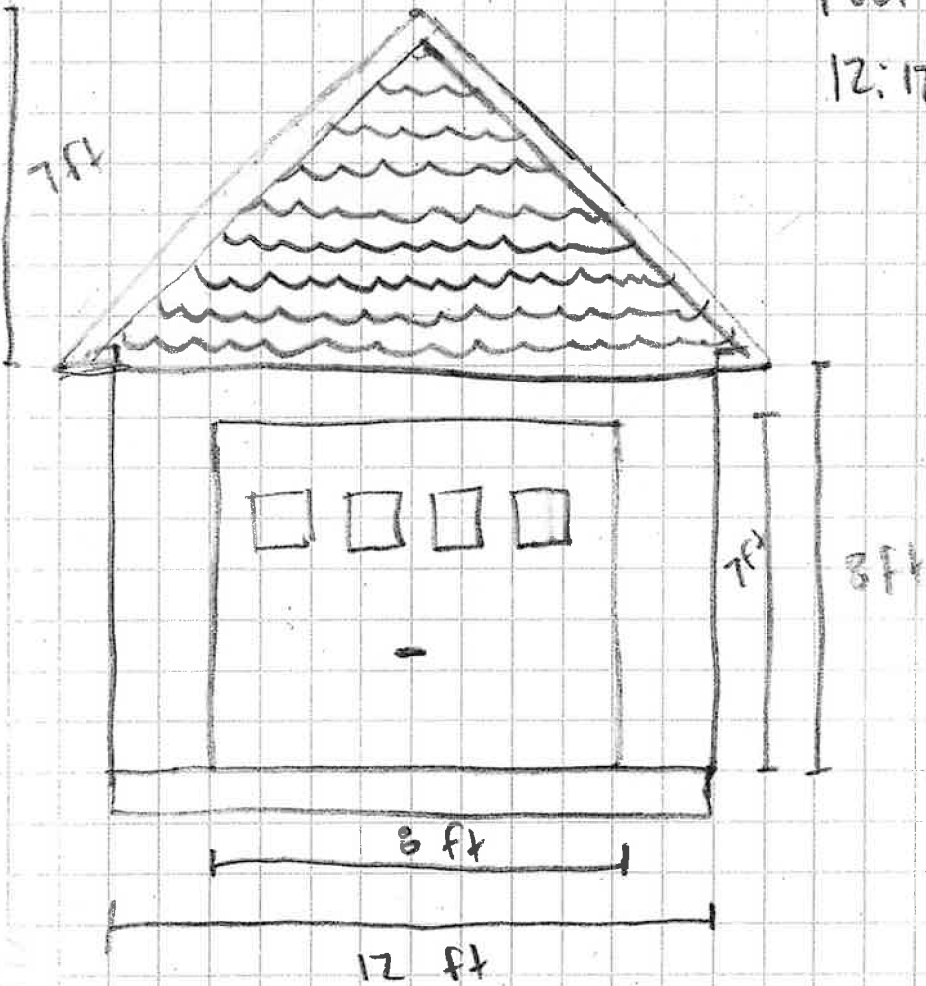
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Drawing is to scale

View From road

Back side



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Robert H. Potter



View from across the street (23412 Ridge Road). The camper is sitting in the exact location of the proposed shed.

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View from driveway. The camper is sitting in the exact location of the proposed shed.

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View from the turn around. The requested asphalt driveway will be placed in the area highlighted in the red box.

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Location of the proposed shed would be where the camper is currently sitting. The requested driveway would be in the area highlighted in red.

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View from driveway taken in approximately 1987 showing the original white shed in the same location of the proposed shed. While previous shed runs north to south, the proposed shed will run east to west. The proposed size of the shed is very similar to the one shown in picture. The shed shown in this picture was removed prior to the designation of the Cedar Grove Historic district in 1991.

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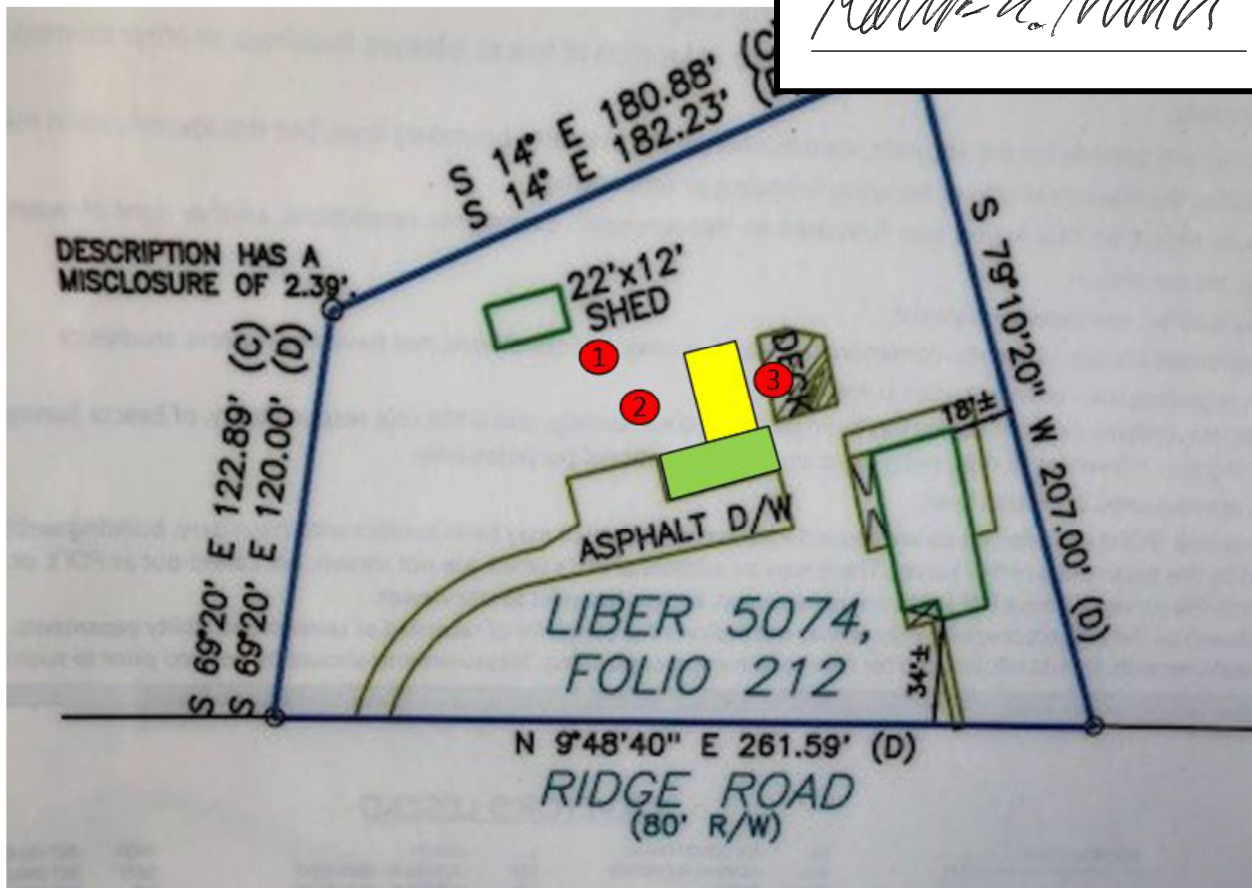
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Tree Survey

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No trees will be impacted with the existing shed and driveway proposal.

The following trees are nearby the proposed shed and > 6 inches in diameter at chest height:

- 1 – Maple Tree
- 2 – Oak Tree
- 3 – Maple Tree

The shed will be sitting on 6x6 wood beams at or just below ground level and therefore will not impact the root systems of any of the near by trees.

The proposed driveway is approximately 20 feet from any tree and will not be dug deep enough to impact any of the tree root systems.

Material Specifications

To match the house, the shed will be sided in 4 inch cedar look vinyl clapboard siding to mimic the look of the historic clapboard of the house. Current historic house is sided in 4 inch vinyl dutchlap siding which was installed prior to the designation of the Cedar Grove Historic District. The installation of clapboard as opposed to dutchlap siding is more accurate to the original house, and will match future request for replacement of the whole house siding at a later date. Gable ends will be covered with 6 inch cedar look vinyl shakes. The roof will be installed with 16 inch flat span, 1 inch snap lock standing seam metal which will match the existing historic house. See pictures below of the historic house to show the comparison. Technical documents are attached in the final pages of this permit request.

The proposed driveway will be asphalt to match the existing driveway.



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Robert H. [Signature]

Composition: Restoration Classic siding products are produced using PVC resin.

Technical Data: Restoration Classic siding is in compliance with ASTM specification for Rigid Polyvinyl Chloride (PVC) Siding D3679, and the requirements of the 2015, 2018 and 2021 International Residential Code and International Building Code, the 2020 Florida Residential Code and Florida Building Code, and the 2019 California Residential Code and California Building Code. Restoration Classic siding meets or exceeds the properties noted in Table 1

Table 1

ASTM E 84	Meets Class A flame spread requirements as tested according to ASTM E84.
ASTM D 635	Material is self-extinguishing with no measurable extent of burn when tested in accordance with this specification.
NFPA 268	Radiant Heat Test - Ignition Resistance of Exterior Walls - Conclusion that CertainTeed met the conditions for allowable use as specified in section 1406 of the International Building Code.


Important Fire Safety Information: When rigid vinyl siding is exposed to significant heat or flame, the vinyl will soften, sag, melt or burn, and may thereby expose material underneath. Care must be exercised when selecting underlayment materials because many underlayment materials are made from organic materials that are combustible. You should ascertain the fire properties of underlayment materials prior to installation. All materials should be installed in accordance with local, state and federal Building Code and fire regulations.

Wind Load Testing: Restoration Classic siding has been tested per ASTM 5206 standard test method for wind load resistance to withstand negative wind load pressures and their mph equivalents as shown in the chart below. The product exceeds industry standards for wind load performance. Check with your local building inspector for wind load requirements in your area for the type of structure you are building.

Table 2*

Product	Fastener Spacing	2015/2018 IBC/IRC		2021 IBC/IRC	
		Standard	Maximum Windspeed	Standard	Maximum Windspeed (mph)
Double 4" Clapboard	Nails 16" o.c.			ASD	ULT
Double 4" Dutchlap	Nails 16" o.c.			82	235
Double 5" Clapboard	Nails 16" o.c.			69	218
Double 5" Dutchlap	Nails 16" o.c.			64	211
Double 4-1/2" Clapboard	Nails 16" o.c.			201	260
Triple 3" Clapboard	Nails 16" o.c.			172	222

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* Windload calculations based on ASTM D3679, ASCE 7-10, 30ft

Documents: CertainTeed Vinyl Siding meets the requirements of on
Texas Department of Insurance Product Evaluation EC-11
Conforms to ASTM Specification D3679
Florida BCIS Approval FL1573
Florida BCIS Approval FL12483
ICC-ES Evaluation Report ESR-1066
For specific product evaluation/approval information, call 800-233-8990.

Installation: Prior to commencing work, verify governing dimensions of building, examine, clean and repair, if necessary, any adjoining work on which the siding is in any way dependent for its proper installation. Sheathing materials must have an acceptable working surface. Siding, soffit and accessories shall be installed in accordance with the latest editions of CertainTeed installation manuals on siding and soffit. Installation manuals are available from CertainTeed and its distributors.

Warranty: CertainTeed supports Restoration Classic siding products with a Lifetime Limited Warranty including PermaColor Lifetime Fade Protection to the original homeowner. The warranty is transferable if the home is sold.

Technical Services: CertainTeed maintains an Architectural Services staff to assist building professionals with questions

CertainTeed LLC
20 Moores Road
Malvern, PA 19355
certainteed.com
© 01/21

regarding CertainTeed siding products. Call 800-233-8990 for samples and answers to technical or installation questions.

Sample Short Form Specification: Siding as shown on drawings or specified herein shall be Restoration Classic Vinyl Siding as manufactured by CertainTeed LLC, Malvern, PA. Installation shall be in accordance with manufacturer's instructions.

Three-part Format Specifications: Long form specifications in three-part format are available from CertainTeed by calling our Architectural Services Staff at 800-233-8990. These specifications are also available on our website at certainteed.com.

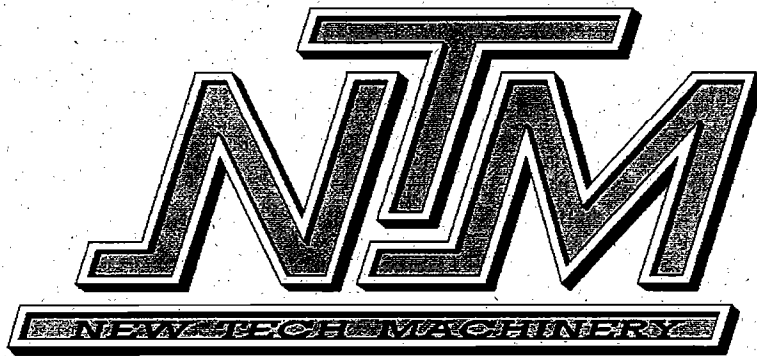
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CertainTeed LLC
20 Moores Road
Malvern, PA 19355
certainteed.com
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FF 100 PANEL

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Robert A. Patton

UL LISTED CONSTRUCTION MATERIALS

#529 SECTION ANALYSIS REPORT AND SPAN LOAD TABLES

1300 40TH DENVER, CO 80205-3311

PH 303-294-0538 **** 800-574-1717 **** FAX 303-294-9407

DESCRIPTION

PRODUCT COVERED:

This section of the Procedure covers a coated steel roof panel, which is identified as "FF100" panel. The panel is produced at job sites by portable rolling machines.

The panel is roll-formed from No.29 MSG minimum or heavier gauge steel coated to the configuration shown in Ill. 1. The panel may also have a paint finish over the coating.

SPECIFICATIONS OF FINISHED PRODUCT:

THICKNESS

The base metal thickness of the steel used in the fabrication of the panel shall be not less than 0.0128 in. No. 29 msg minimum gauge. This thickness shall not include any coating or paint finish.

DIMENSION

The cross-sectional dimensions of the panel shall conform with the cross-section in Ill. 1.

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the strength records of the steel used shall conform to ASTM A792 grade 50 point of the steel shall be 50,000 psi.

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[Signature]

ordance

steel
yield



NEW TECH MACHINERY CORP
MR G BATTISTELL
1300 40TH ST
DENVER CO 80205

RE: Project Number(s) - 03NK22866

Your most recent Certification is shown below. You may also view this information, or a portion of this information (depending on the product category), on UL's Online Certifications Directory at www.ul.com/database. Please review the text and contact the Conformity Assessment Services staff member who handled your project if revisions are required. For instructions on placing an order for this information in a 3 x 5-inch format, you may refer to the enclosed order form for UL Card Service.

TJVP
Metal Roof Deck Panels

November 21,

REVIEWED
NEW TECH MACHINERY CORP
DENVER CO 80205
By Michael Kyne at 6:09 pm, Apr 13, 2022

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Historic Preservation Commission


R14692

Underwriters Laboratories Inc. Metal Roof Deck Panels, Fabricated, Installed
sponding panel identifications:
Coated steel panels identified as "Snap Panel 550" for use in Construction
Coated steel panels identified as "Panel 210A" for use in Construction Nos
Coated steel or aluminum panels identified as "Snap Panel 675" for use in
Coated steel panels identified as "SS675" for use in Construction Nos. 343,
Coated steel panels identified as "SS450" for use in Construction No. 370.
Coated steel panels identified as "SS150" for use in Construction No. 554.
Coated steel panels identified as "SS100" for use in Construction No. 575.
Coated steel panels identified as "FF100" for use in Construction No. 529.

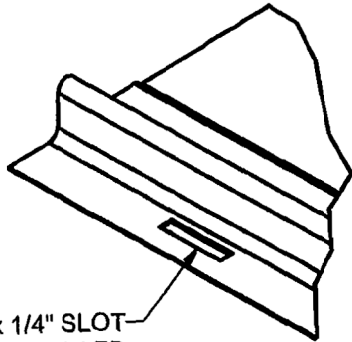
with corre-

See Roof Deck Construction for description of construction numbers.

LOOK FOR LISTING MARK ON PRODUCT

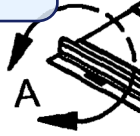
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1" x 1/4" SLOT
EQUALLY SPACED
EVERY 5 3/16"

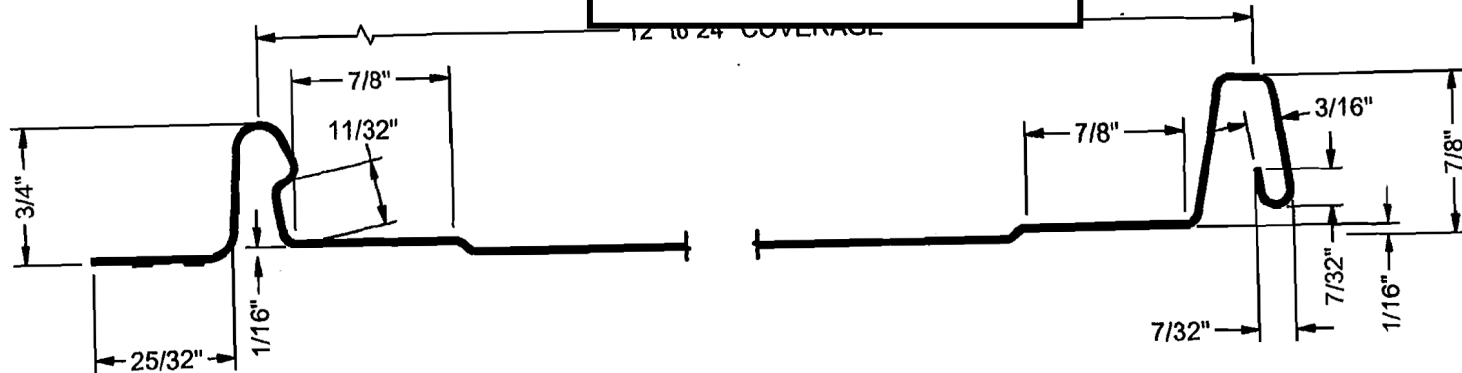
DETAIL A



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Robert H. Potter



Note:
Material usage = 4.00in

MATERIAL				LENGTH	FINISH	NEW TECH MACHINERY CORP.				
REVISION HISTORY	REV	ECN NO.	DATE	RELEASED BY	TOLERANCES .XX = ± .01 .XXX = ± .005	DRAWN BY DeBerard	PART NAME FF100 PANEL PROFILE		SHEET 1 OF 1	REVISION 0
					FRACTION = ± 1/32"	DATE 6/25/2002	SIZE A	PARTNUMBER FF100		
					ANGLE = ± 1/2'	CHECK BY	SCALE			
						DATE				



Online Certifications Directory

TGKX.529 Roof Deck Constructions

[Page Bottom](#)

[Questions?](#)

[Previous Page](#)

Roof Deck Constructions

Guide Information

Construction No. 529

November 21, 2003

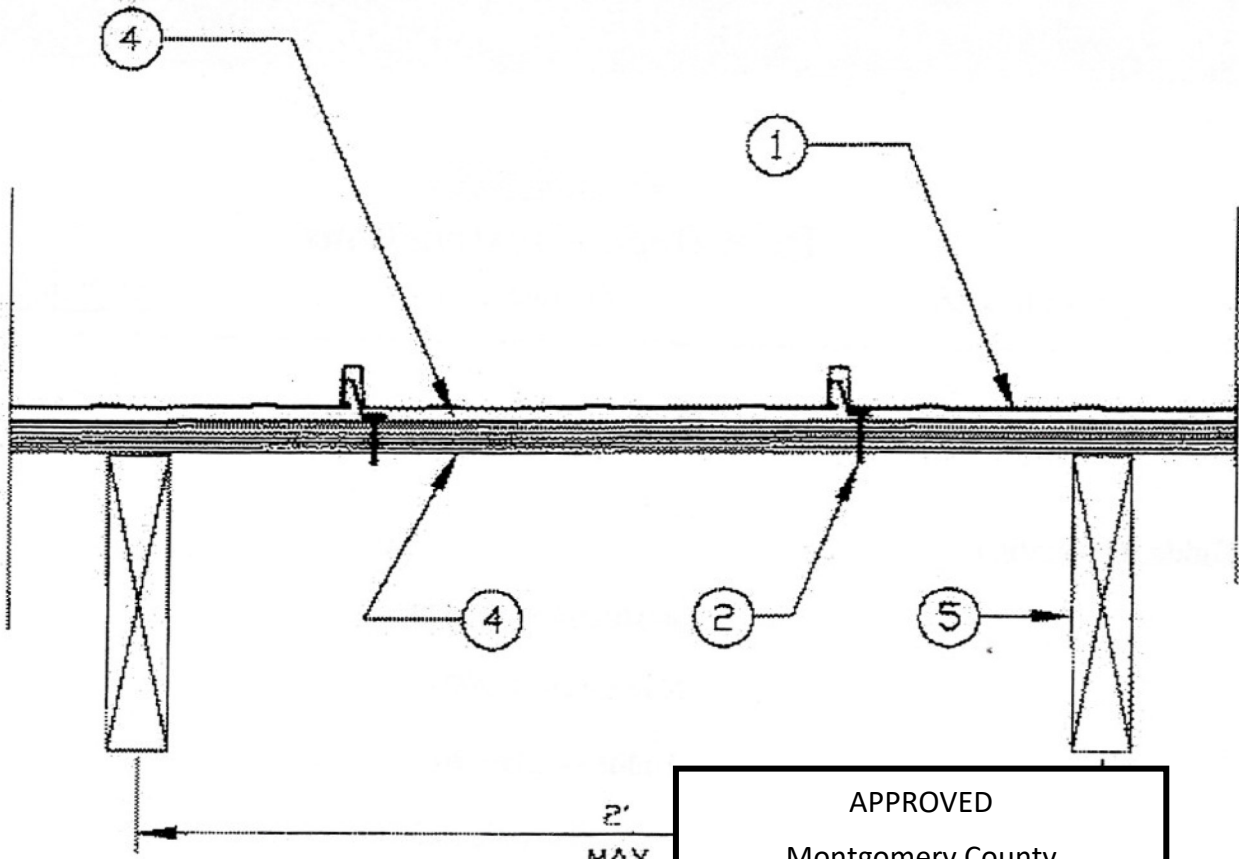
Uplift — Class 90

Fire Not Inves

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[Signature]

sealant may be used at panel endlaps.

AMERICAN BUILDING COMPONENT

CENTRAL TEXAS METAL ROLLFORMING INC — "PRO-SNAP 100"

MBCI — "Slimline"

NCI BUILDING SYSTEMS L P — "Slimline"

NEW TECH MACHINERY CORP — "FF100"

UNION CORRUGATING CO — "Advantage Lok"

2. **Fasteners** — (Screws) — For panel attachment to wood deck (Item 3), fasteners to

be No. 10 x 1 in. long No. 2 Phillips, Pancake Head Type A. Fasteners spacing to be 12 in. OC with fasteners installed through prepunched slots in fastener flange of panel. For attachment of plywood deck (Item 3) to joists (Item 5), fasteners to be min. No. 6 by 1-7/8 bugle head screw or annular ring-shank nails. Spacing to be 6 in. OC at plywood edges and 12 in. OC at intermediate supports. When light gauge structural steel joists are used, fasteners to be No. 12 by 1-5/8 in. long with a Phillips head.

3. **Substructure — (Plywood)** — Plywood decking to be a nom 5/8 in. thick, exposure sheathing span C-D, 40/20 plywood. All butt joints to be sealed against leakage by using tape and/or caulk or with one-part urethane sealant.

4. **Moisture Barrier** — (Optional) — Any suitable membrane to protect substructure (Item 3).

5. **Joists** — Joists spaced at 2 ft, 0 in. OC, may be one of the following:

A. Nom 2 by 6 in. wood joists No. 2 or better.

B. Nom 2 by 4 in. wood when used on a top cord of a wood truss, No. 2 or better.

C. Light gauge structural steel framing with the member against the plywood to be a min No. 22

Refer to General Information, Materials and Systems Director

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UL Listed and Classified Products

UL Recognized Components

Canada

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JOHN F. BUTTS & ASSOC., INC.

CONSULTING ENGINEERS
2480 VANTAGE DRIVE COLORADO SPRINGS, CO 80919
(719) 598-7666 FAX (719) 598-0258
www.jfba.com

August 29, 2002

New Tech Machinery Corp.
1300 40th Street
Denver, CO 80205-3311

**Re: Section Analysis Report
New Tech FF100 Panel
Job No. 183-05**

Gentlemen:

Per your request, please find enclosed the engineering calculations for the above referenced project. The section, with the structural properties in meet or exceed the requirements of the 1996 AISI C including Supplement No. 1 (July 1999)

REVIEWED
Please note that the panel analysis and Load Tables h
By Michael Kyne at 6:09 pm, Apr 13, 2022

supports are being utilized in the member's installation method, attachment and supporting materials.

If we can be of further assistance or if you require ad

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Sincerely,

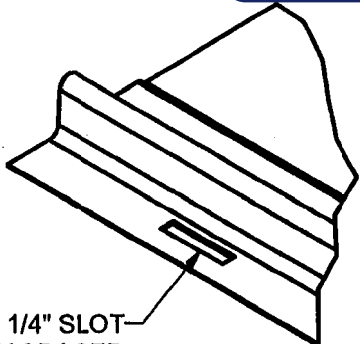
John F. Butts, P.E.
President

enc. Section Drawing
Section Analysis
Section Load Tables



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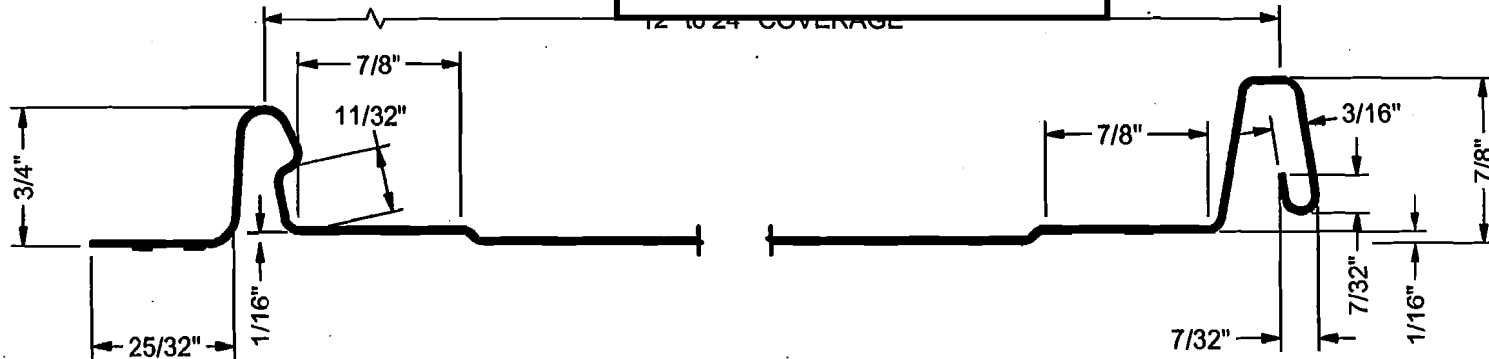
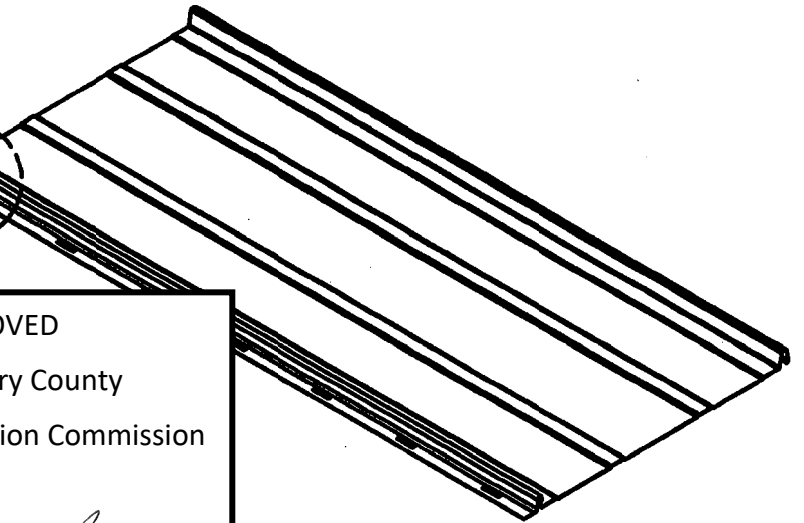
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1" x 1/4" SLOT
EQUALLY SPACED
EVERY 5 3/16"

DETAIL A

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Historic Preservation Commission

Note:
Material usage = 4.00in

MATERIAL		LENGTH		FINISH		NEW TECH MACHINERY CORP.			
REVISION HISTORY	REV	ECN NO.	DATE	RELEASED BY	TOLERANCES	DRAWN BY	PART NAME		
					.XX = ± .01	DeBerard	FF100 PANEL PROFILE		
					.XXX = ± .005	DATE	SIZE	SHEET	REVISION
					FRACTION = ± 1/32"	6/25/2002	A	1 OF 1	0
				ANGLE = ± 1/2"	CHECK BY	SCALE	PART NUMBER		
					DATE		FF100		

John F. Butts & Associates, Inc.
2480 Vantage Drive
Colorado Springs, CO 80919
(719) 598-7666

Analysis per 1996 AISI Cold-Formed Steel Manual + 1999 Supplement 1

New Tech FF100 Panel

FILE: FF100X12

SECTION DIMENSIONS

Line #1 Angle(L) = -80.000 deg	Line #21 Angle(R) = 81.000 deg
Line #1 Radius(L) = 0.060 in	Line #21 Radius(R) = 0.063 in
Line #1 Length(L) = 0.000 in	Line #22 Length(R) = 0.194 in
Line #2 Angle(L) = 80.000 deg	Line #22 Angle(R) = 70.000 deg
Line #2 Radius(L) = 0.070 in	Line #22 Radius(R) = 0.060 in
Line #2 Length(L) = 0.683 in	Line #24 Length(R) = 0.034 in
Line #3 Angle(L) = 81.000 deg	Line #23 Angle(R) = -86.000 deg
Line #3 Radius(L) = 0.070 in	Line #23 Radius(R) = 0.070 in
Line #3 Length(L) = 0.000 in	Line #26 Length(R) = 0.134 in
Line #4 Angle(L) = -180.000 deg	Line #24 Angle(R) = -151.000 deg
Line #4 Radius(L) = 0.070 in	Line #24 Radius(R) = 0.122 in
Line #4 Length(L) = 0.125 in	Line #28 Length(R) = 0.447 in
Line #5 Angle(L) = 0.000 deg	Line #29 Length(R) = 0.447 in
Line #5 Radius(L) = 0.000 in	Line #30 Length(R) = 0.447 in
Line #5 Length(L) = 0.000 in	Line #31 Length(R) = 0.447 in

REVIEWED
By Michael Kyne at 6:09 pm, Apr 13, 2022

Alloy: ASTM A792, G50
Fy = 50.00 ksi
Fv = 14.13 ksi

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QUALIFICATIONS PER AISI SPECIFICATIONS

- (a) Maximum w/t Ratio's Exceeded [Section B1.1(a)]: No
- (b) Maximum h/t Ratio's Exceeded [Section B1.2(a)]: No

Section Dimensional Data

Type	Name	Gage	Height in	Width in	Lip in	t in	Weight plf	Coil Width in
Panel		24	0.813	12.563	0.000	0.024	1.338	16.389

Gross Sectional Properties

Area in2	Ix in4	Sx in3	Rx in	Ycg in	Iy in4	Sy in3	Ry in	Xcg in
0.393	0.015	0.022	0.198	0.097	7.701	1.098	4.425	7.012

Effective Properties

Vnx kip	Ix in4	Sx in3	Mnx kip-in	Mny kip-in	Iy in4	Sy in3	Pne kip	Pnei kip/in
1.450	0.015	0.022	0.906	---	---	---	0.738	0.650

Torsional Properties

Xo in	Ro in	Beta	Cw in6	Jv*1000 in4	Fy ksi	Fu ksi	E ksi	G ksi
-0.293	4.439	0.996	0.599	0.076				

Shear, moment and bearing values shown are nominal values and
 do not include factors of safety (ASD) or resistance factors (LRFD)

REVIEWED

By Michael Kyne at 6:09 pm, Apr 13, 2022

- | | | |
|--------------------|--------|--------------------|
| FS (Tension) | = 1.67 | RF (Tension) |
| FS (Web Crippling) | = 1.85 | RF (Web Crippling) |
| FS (Bending) | = 1.67 | RF (Bending) |
| FS (Shear) | = 1.50 | RF (Shear) |

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John F. Butts & Associates, Inc.
2480 Vantage Drive
Colorado Springs, CO 80919
(719) 598-7666

Analysis per 1996 AISI Cold-Formed Steel Manual + 1999 Supplement 1

New Tech FF100 Panel

FILE: FF100X16

SECTION DIMENSIONS

Line #1 Angle(L) = -80.000 deg	Line #21 Angle(R) = 81.000 deg
Line #1 Radius(L) = 0.060 in	Line #21 Radius(R) = 0.063 in
Line #1 Length(L) = 0.000 in	Line #22 Length(R) = 0.194 in
Line #2 Angle(L) = 80.000 deg	Line #22 Angle(R) = 70.000 deg
Line #2 Radius(L) = 0.070 in	Line #22 Radius(R) = 0.060 in
Line #2 Length(L) = 0.683 in	Line #24 Length(R) = 0.034 in
Line #3 Angle(L) = 81.000 deg	Line #23 Angle(R) = -86.000 deg
Line #3 Radius(L) = 0.070 in	Line #23 Radius(R) = 0.070 in
Line #3 Length(L) = 0.000 in	Line #26 Length(R) = 0.134 in
Line #4 Angle(L) = -180.000 deg	Line #24 Angle(R) = -151.000 deg
Line #4 Radius(L) = 0.070 in	Line #24 Radius(R) = 0.122 in
Line #4 Length(L) = 0.125 in	Line #28
Line #5 Angle(L) = 0.000 deg	Line #25
Line #5 Radius(L) = 0.000 in	Line #25
Line #5 Length(L) = 0.000 in	Line #30

REVIEWED

By Michael Kyne at 6:09 pm, Apr 13, 2022

Panel Bottom Width = 16.00 in
Panel Overall Height = 0.81 in

Alloy: ASTM A792, G50
Fy = 50.00 ksi
Fv = 7.35 ksi

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QUALIFICATIONS PER AISI SPECIFICATIONS

- (a) Maximum w/t Ratio's Exceeded [Section B1.1(a)]: No
- (b) Maximum h/t Ratio's Exceeded [Section B1.2(a)]: No

Section Dimensional Data

Type	Name	Gage	Height in	Width in	Lip in	t in	Weight plf	Coil Width in
Panel		24	0.813	16.563	0.000	0.024	1.665	20.389

Gross Sectional Properties

Area in ²	Ix in ⁴	Sx in ³	Rx in	Ycg in	Iy in ⁴	Sy in ³	Ry in	Xcg in
0.489	0.016	0.022	0.181	0.080	15.531	1.724	5.634	9.007

Effective Properties

Vnx kip	Ix in ⁴	Sx in ³	Mnx kip-in	Mny kip-in	Iy in ⁴	Sy in ³	Pne kip	Pnei kip/in
1.450	0.016	0.022	0.911	---	---	---	0.738	0.650

Torsional Properties

Xo in	Ro in	Beta	Cw in ⁶	Jv*1000 in ⁴	Fy ksi	Fu ksi	E ksi	G ksi
-0.242	5.642	0.998	1.091	0.094				

Shear moment and bearing values shown are nominal values and

are based on factors of safety (ASD) or resistance factors (LRFD)


REVIEWED

By Michael Kyne at 6:09 pm, Apr 13, 2022

- | | | | |
|--------------------|--------|--------------------|--|
| FS (Tension) | = 1.67 | RF (Tension) | |
| FS (Web Crippling) | = 1.85 | RF (Web Crippling) | |
| FS (Bending) | = 1.67 | RF (Bending) | |
| FS (Shear) | = 1.50 | RF (Shear) | |

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John F. Butts & Associates, Inc.
2480 Vantage Drive
Colorado Springs, CO 80919
(719) 598-7666

Analysis per 1996 AISI Cold-Formed Steel Manual + 1999 Supplement 1

New Tech FF100 Panel

FILE: FF100X18

SECTION DIMENSIONS

Line #1 Angle(L) = -80.000 deg	Line #21 Angle(R) = 81.000 deg
Line #1 Radius(L) = 0.060 in	Line #21 Radius(R) = 0.063 in
Line #1 Length(L) = 0.000 in	Line #22 Length(R) = 0.194 in
Line #2 Angle(L) = 80.000 deg	Line #22 Angle(R) = 70.000 deg
Line #2 Radius(L) = 0.070 in	Line #22 Radius(R) = 0.060 in
Line #2 Length(L) = 0.683 in	Line #24 Length(R) = 0.034 in
Line #3 Angle(L) = 81.000 deg	Line #23 Angle(R) = -86.000 deg
Line #3 Radius(L) = 0.070 in	Line #23 Radius(R) = 0.070 in
Line #3 Length(L) = 0.000 in	Line #26 Length(R) = 0.134 in
Line #4 Angle(L) = -180.000 deg	Line #24 Angle(R) = -151.000 deg
Line #4 Radius(L) = 0.070 in	Line #24 Radius(R) = 0.122 in
Line #4 Length(L) = 0.125 in	Line #28
Line #5 Angle(L) = 0.000 deg	Line #25
Line #5 Radius(L) = 0.000 in	Line #25
Line #5 Length(L) = 0.000 in	Line #30

REVIEWED

By Michael Kyne at 6:09 pm, Apr 13, 2022

Alloy: ASTM A792, G50
Fy = 50.00 ksi
Fv = 5.99 ksi

QUALIFICATIONS PER AISI SPECIFICATIONS

- (a) Maximum w/t Ratio's Exceeded [Section B1.1(a)]: No
- (b) Maximum h/t Ratio's Exceeded [Section B1.2(a)]: No

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Section Dimensional Data

Type	Name	Gage	Height in	Width in	Lip in	t in	Weight plf	Coil Width in
Panel		24	0.813	18.563	0.000	0.024	1.828	22.389

Gross Sectional Properties

Area in ²	Ix in ⁴	Sx in ³	Rx in	Ycg in	Iy in ⁴	Sy in ³	Ry in	Xcg in
0.537	0.016	0.022	0.174	0.074	20.866	2.085	6.231	10.005

Effective Properties

Vnx kip	Ix in ⁴	Sx in ³	Mnx kip-in	Mny kip-in	Iy in ⁴	Sy in ³	Pne kip	Pnei kip/in
1.450	0.016	0.022	0.910	---	---	---	0.738	0.650

Torsional Properties

Xo in	Ro in	Beta	Cw in ⁶	Jv*1000 in ⁴	Fy ksi	Fu ksi	E ksi	G ksi
-0.222	6.238	0.999	1.395	0.103	50	65	29500	11200

Shear, moment and bearing values shown are nominal values and should be multiplied by the appropriate factors of safety (ASD) or resistance factors (LRFD).

REVIEWED

By Michael Kyne at 6:09 pm, Apr 13, 2022

- | | | | |
|--------------------|--------|--------------------|--|
| FS (Tension) | = 1.67 | RF (Tension) | |
| FS (Web Crippling) | = 1.85 | RF (Web Crippling) | |
| FS (Bending) | = 1.67 | RF (Bending) | |
| FS (Shear) | = 1.50 | RF (Shear) | |

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Width | 12.56 in
 Alloy | ASTM A792, G50 (Fy =50 ksi)
 Gauge | 24 (0.024 in)

Allowable Strength Design (ASD)
 Wind Load Factor = 1.00
 Allowable Uniform Load (psf)

Span	Deflection	Span Length (Feet)								
		2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
1	L/180	82	65	52	43	36	30	26	22	19
	L/240	82	65	52	43	35	27	22	18	15
	L/360	78	55	40	30	23	18	15	12	10
2	L/180	82	65	52	43	36	30	26	22	20
	L/240	82	65	52	43	36	30	26	22	20
	L/360	82	65	52	42	33	26	21	17	14
3	L/180	95	75	61	50	42	35	30	26	23
	L/240	95	75	61	50	42	35	30	26	23
	L/360	95	75	61	50	42	35	30	26	18

REVIEWED
 By Michael Kyne at 6:09 pm, Apr 13, 2022

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2. Allowable uniform loads are determined per the following:
 - a) Allowable Shear Stress (Fv) [AISI, C3.3]
 - b) Combined Bending and Shear [AISI, C3.3]
 - c) Combined Bending & Web Crippling [AISI C3.5]
3. Factors of Safety used to determine uniform loads:
 - FS (Bending) = 1.67
 - FS (Shear) = 1.50
 - FS (Web Crippling) = 1.85
4. Allowance has been made for member Dead Weight.
5. Minimum panel support bearing length = 2.00 in
6. Concentrated load = 250 lbs at mid-span, load width = 4 in
 - Simple Span : Maximum Span = 1.361 ft (L/180)
 - Two Span : Maximum Span = 1.560 ft (L/180)
 - Three Span + : Maximum Span = 1.648 ft (L/180)

Width | 12.56 in
 Alloy | ASTM A792, G50 (Fy =50 ksi)
 Gauge | 24 (0.024 in)

Allowable Strength Design (ASD)
 Wind Load Factor = 1.00
 Allowable Uniform Load (psf)

Span	Deflection	Span Length (Feet)								
		4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25
1	L/180	16	14	12	10	9	7	7	6	5
	L/240	12	10	9	7	6	6	5	4	4
	L/360	8	7	6	5	4	4	3	3	3
2	L/180	17	15	14	12	11	10	9	8	7
	L/240	17	15	12	11	9	8	7	6	5
	L/360	11	10	8	7	6	5	5	4	4
3	L/180	20	18	16	14	13	12	11	10	9
	L/240	20	18	16	14					7
	L/360	15	13	11	9					5

REVIEWED
 in Load Tables for FLEXURE and DEFLECTION
 By Michael Kyne at 6:09 pm, Apr 13, 2022

Three Span - $M_p = .080wl^2$, $M_n = .107wl^2$,
 Modulus of Elasticity (E) = 29500 ksi

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2. Allowable uniform loads are determined per the following
 - a) Allowable Shear Stress (Fv) [AISI, C3.2]
 - b) Combined Bending and Shear [AISI, C3.3]
 - c) Combined Bending & Web Crippling [AISI C3.5]
3. Factors of Safety used to determine uniform loads:
 - FS (Bending) = 1.67
 - FS (Shear) = 1.50
 - FS (Web Crippling) = 1.85
4. Allowance has been made for member Dead Weight.
5. Minimum panel support bearing length = 2.00 in
6. Concentrated load = 250 lbs at mid-span, load width = 4 in
 - Simple Span : Maximum Span = 1.361 ft (L/180)
 - Two Span : Maximum Span = 1.560 ft (L/180)
 - Three Span + : Maximum Span = 1.648 ft (L/180)

Width | 16.56 in
 Alloy | ASTM A792, G50 (Fy =50 ksi)
 Gauge | 24 (0.024 in)

Allowable Strength Design (ASD)
 Wind Load Factor = 1.00
 Allowable Uniform Load (psf)

Span	Deflection	Span Length (Feet)								
		2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
1	L/180	63	50	40	33	27	23	20	17	15
	L/240	63	50	40	33	27	22	17	14	12
	L/360	62	43	32	24	18	14	12	9	8
2	L/180	63	50	40	33	27	23	20	17	15
	L/240	63	50	40	33	27	23	20	17	15
	L/360	63	50	40	33	26	20	16	13	11
3	L/180	73	57	46	38	32	27	23	20	17
	L/240	73	57	46	38	29	25	21	18	17
	L/360	73	57	46	38	27	23	20	17	15

REVIEWED in Load Tables for FLEXURE and DEFLECTION
 By Michael Kyne at 6:09 pm, Apr 13, 2022

One Span $M_p = .125wl^2$, $M_n = .125wl^2$
 Two Span $M_p = .117wl^2$, $M_n = .107wl^2$
 Three Span $M_p = .080wl^2$, $M_n = .107wl^2$
 Modulus of Elasticity (E) = 29500 ksi

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2. Allowable uniform loads are determined per the following:
 - a) Allowable Shear Stress (Fv) [AISI, C3.3]
 - b) Combined Bending and Shear [AISI, C3.3]
 - c) Combined Bending & Web Crippling [AISI C3.5]
3. Factors of Safety used to determine uniform loads:
 - FS (Bending) = 1.67
 - FS (Shear) = 1.50
 - FS (Web Crippling) = 1.85
4. Allowance has been made for member Dead Weight.
5. Minimum panel support bearing length = 2.00 in
6. Concentrated load = 250 lbs at mid-span, load width = 4 in
 - Simple Span : Maximum Span = 1.376 ft (L/180)
 - Two Span : Maximum Span = 1.577 ft (L/180)
 - Three Span + : Maximum Span = 1.667 ft (L/180)

Width | 18.56 in
 Alloy | ASTM A792, G50 (Fy =50 ksi)
 Gauge | 24 (0.024 in)

Allowable Strength Design (ASD)
 Wind Load Factor = 1.00
 Allowable Uniform Load (psf)

Span	Deflection	Span Length (Feet)								
		2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00
1	L/180	56	44	36	29	24	21	18	15	13
	L/240	56	44	36	29	24	20	16	13	10
	L/360	56	39	29	22	17	13	10	8	7
2	L/180	56	44	36	29	24	21	18	15	13
	L/240	56	44	36	29	24	21	18	15	13
	L/360	56	44	36	29	23	18	15	12	10
3	L/180	65	51	41	34	28	24	21	18	16
	L/240	65	51	41	34					16
	L/360	65	51	41	34					13

REVIEWED
 Used in Load Tables for FLEXURE and DEFLECTION
 By Michael Kyne at 6:09 pm, Apr 13, 2022

Two Span - $M_p = .125wl^2$, $M_n = .096wl^2$,
 Three Span - $M_p = .080wl^2$, $M_n = .107wl^2$,
 Modulus of Elasticity (E) = 29500 ksi

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2. Allowable uniform loads are determined per the following:
 - a) Allowable Shear Stress (Fv) [AISI, C3.2]
 - b) Combined Bending and Shear [AISI, C3.3]
 - c) Combined Bending & Web Crippling [AISI C3.5]
3. Factors of Safety used to determine uniform loads:
 - FS (Bending) = 1.67
 - FS (Shear) = 1.50
 - FS (Web Crippling) = 1.85
4. Allowance has been made for member Dead Weight.
5. Minimum panel support bearing length = 2.00 in
6. Concentrated load = 250 lbs at mid-span, load width = 4 in
 - Simple Span : Maximum Span = 1.379 ft (L/180)
 - Two Span : Maximum Span = 1.581 ft (L/180)
 - Three Span + : Maximum Span = 1.672 ft (L/180)



★★★★★ 13 reviews Available in 12 options. Pricing may vary.



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By Michael Kyne at 6:09 pm, Apr 13, 2022

... durable ASA cap. These siding panels should be installed over minimum sizes of 7/16in.

Actual colors may vary from those represented on screen. Therefore, it is highly recommended that you purchase a color sample and you choose a color sample that you truly like. Please note that not all of those colors are available on this page.

Features

- Single course design
- Controlling keyway width at the lap
- Low thermal expansion
- Creates a natural, installed look
- Consists of a limited lifetime warranty

Specifications

- Panel Length: 60in.
- Panel Width: 6in.
- 20 panels per carton (1/2 square), sold per carton only
- J-Channel: 3/4in.
- Nominal Thickness: 0.040in.



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