Southland Metal Roofing & Supply

29ga Master Rib

29-gauge (min) 36" coverage Master Rib on 1x4's over 7/16" (min) OSB

Florida Product Approval Number 29684.01-R1

Product:	Master Rib is an exposed fastener panel with a 36" coverage, main ribs at 9" nominally at a nominal height of 0.75". Miniribs and/or striations optional.
Material:	This product is manufactured from 29ga or thicker steel with yield strength of at least 50ksi, and corrosion resistance per FBC 1507.4.3.
Fastener:	#9 x 1.5" fastener with sealing washer, compliant with FBC 1506.6. Laps secured with ¼" x ¾" fastener at 12" oc (max).
Substrate/Deck:	1x4's (min) on 7/16" OSB (min). Battens attached to OSB with #9 2-1/2" wood screws in (2) offset rows spaced at 6" oc. Battens at 24" oc max.
Underlayment:	Comply with FBC 1507.1.1 where applicable.
Slope:	Comply with FBC 1507.4.2 where applicable.
Max. Allowable Loads & Installation Requirements:	Method A: **56psf** | Install fasteners in 9"-9" pattern (one screw per rib) at 24" o.c.: Factor of Safety of 2.0 applied to calculate allowable loads.
Manufacturer:	Southland Metal Roofing & Supply | 2375 US Hwy 84 West | (229) 242-0978 | www.SouthlandMetalRoofing.com/
Compliance statement:	This product as described has demonstrated compliance with Florida Building Code 2020, Section 1504.3.2, as required by Rule 61G20-3, method 1D
Evaluated By:	David Eng, PE Timberlake Cove, LLC 3324 W Univ. Ave # 206, Gainesville FL 32607 PE Lic. No: 81377 CA Lic. No: 33344 www.TimberLakeCove.com

David E Eng
2020.09.03
13:49:40+01'00'

This item has been digitally signed and sealed by D.E. Eng, PE, on the date indicated. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

DAVID E. ENG
LICENSE
No. 81377
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Technical Documentation: This product has been tested to the UL 580 standard by Intertek Testing (TST-1910), report J15620.01-450-44, as referenced in FL 29684.01-R0.

Certification of Independence: David Eng, PE and Timberlake Cove, LLC do not have, nor will acquire a financial interest in any company manufacturing or distributing products under this evaluation. The same entities do not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

Exclusions & Limitations: Design of deck and roof structure (to include deck attachment) shall be completed by others. Fire classification and shear diaphragm design are outside the scope of this evaluation.
This report is limited to compliance with structural wind load requirements of FBC 1504.3.2, as required by Rule 61G20-3. Neither Timberlake Cove nor the manufacturer shall be responsible for any conclusions, interpretations, or designs made by others based on this evaluation report. This report is limited solely to documenting compliance with Rule 61G20-3, and makes no express or implied warranty regarding performance of this product.

Design Process: The load tables in this report provides one prescriptive option for the fastening requirement for the applicable wind loads for roofs within the parameters described. For roofs outside of the listed parameters, design wind loads shall be determined as required by FBC 1609, ASCE 7, or other design code in force, using allowable stress. These load tables are based on ASCE 7-16. Use of these tables assumes that the structure is:

- Enclosed and conforms to wind-borne debris provisions and is a regular shaped building
- Is not subject to across-wind loading, vortex shedding, or instability; nor does it have a site location for which channeling or buffeting warrant consideration

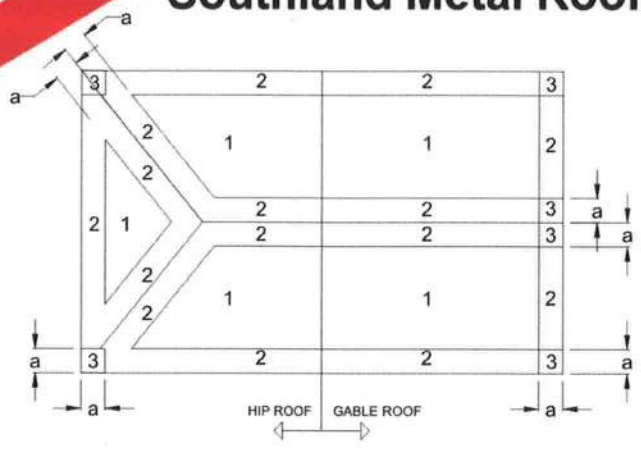
Engineering analysis may be completed by other licensed engineers for project specific approval by local authorities having jurisdiction

Load Tables: NOTE: ASCE 7-16 and FBC 2020 adopt a 7-zone concept. For the load tables below, the worst case was taken for each zone and reported using the standard zones 1-2-3:

Zone 1 includes zones 1 and 1'
Zone 2 includes zones 2e, 2r, and 2n
Zone 3 includes zones 3e and 3r

Combining these zones creates a clear, simple scheme, at the expense of some design efficiency. Contact the manufacturer for further information, or consult a licensed design professional.

Southland Metal Roofing & Supply



a: 10% OF LEAST HOIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 3FT (0.9M) OR AS DETERMINED BY DESIGN OR OTHER APPLICABLE CODE.

ROOF ZONES FOR GENERIC BUILDING

Instructions:

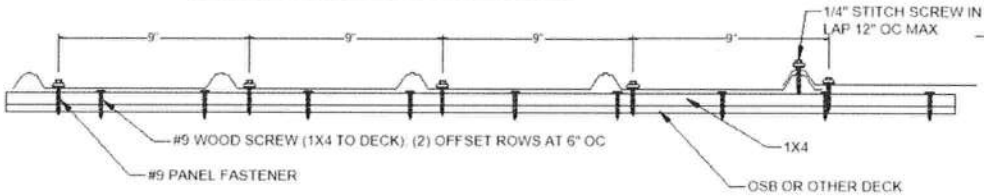
Select the appropriate load table that applies to the structure in question.

Determine the design wind speed for the project location.

Use the attachment method indicated for that windspeed within each roof zone.

See Note on previous page.

METHOD A



NR

CONSULT A DESIGN PROFESSIONAL

Use this load table for structures which meet the following criteria:
Are located in **Exposure B** area
Have either a **flat roof, or gable/hip roof** with **max slope of 45°**
Have a mean Roof Height of **30 feet or less**

FL29684.01: 29ga Rib on 1x4's on 7/16" OSB

Wind	105	110	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	A	A	A	NR	NR	NR	NR
Zone 2:	A	A	A	A	NR	NR	NR	NR	NR	NR	NR
Zone 3:	A	A	A	NR	NR	NR	NR	NR	NR	NR	NR

Use this load table for structures which meet the following criteria:
Are located in **B, C, or D exposure** area
Have either **a flat roof, or gable/hip roof** with **max slope of 45°**
Have a mean Roof Height of **30 feet or less**

FL29684.01: 29ga Rib on 1x4's on 7/16" OSB

Wind	105	110	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	NR	NR	NR	NR	NR	NR	NR
Zone 2:	A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Zone 3:	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

Use this load table for structures which meet the following criteria:
Are located in **Exposure B** area
Have either a **flat roof less than 7°, hip roof** with
max slope of 45°, or gable roof with slope between 20° and 45°
Have a mean Roof Height of **30 feet or less**

FL29684.01: 29ga Rib on 1x4's on 7/16" OSB

Wind	105	110	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	A	A	A	A	NR	NR	NR
Zone 2:	A	A	A	A	A	NR	NR	NR	NR	NR	NR
Zone 3:	A	A	A	A	NR	NR	NR	NR	NR	NR	NR

Use this load table for structures which meet the following criteria:
Are located in **B, C, or D exposure** area
Have either a **flat roof less than 7°, hip roof** with
max slope of 45°, or gable roof with slope between 20° and 45°
Have a mean Roof Height of **30 feet or less**

FL29684.01: 29ga Rib on 1x4's on 7/16" OSB

Wind	105	110	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	NR	NR	NR	NR	NR	NR	NR
Zone 2:	A	A	NR	NR	NR	NR	NR	NR	NR	NR	NR
Zone 3:	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR