

Florida Product Approval # 23225
Wall Panels
Compliant with Florida Building Code 2017 (6th ed.) 1603.1.4, 1609.3, 1609.6.4, 1709.2
Compliant with Florida Product Approval Rule # 61G20-3
Compliant Quality Assurance Program: UL LLC
FL 23225 Product: 7.2" Wall Panel
24GA Steel and 0.032 Aluminum
Non-HVHZ

Attached to 16GA support member or equivalent substrate secured, thru fasted with Corrosion resistant 1/4-14 x 1 -1/4 screws with 5/8" seal washers. Stitch screws: #12-14 x 1 are spaced inside laps at 18" o.c. Base panel is 36" x 1 1/2" with attachment screws in every valley; providing five screws per interior support. and side Linear span interpolation is allowed for three or more span structural conditions- extrapolation outside tested spans is not allowed. Analysis by a Florida licensed professional; with consideration of local conditions, wind zones and structural substrate support should determine the proper fastener attachment.

<u>Panel and Material</u>	<u>Support Spc. / Load(psf)</u>	
7.2" Rib x 0.032" Alum.	2' / -104.0	5' / -61.1
7.2" Rib x 24 GA Steel	2' / -159.7	5' / -78.8

FL 23225 Product: 2.67" x 7/8" Corrugated Wall Panel
24GA Steel and 0.032 Aluminum
Non-HVHZ

Attached to 16GA support member or equivalent substrate secured with through fastened with Corrosion resistant: Panels are fastened to supports with 1/4-14 x 1-1/4 screws with 5/8" seal washers. Stitch screws: #12-14 x 1 are spaced in sidelaps (which contain butyl tape) at 12" o.c.. Base panel was 39.75" x 0.875" w/ attachment screws in every second valley. For siding, one corrugation lap is required. Linear span interpolation allowed for three or more span structural conditions- extrapolation outside tested spans is not allowed. Analysis by a Florida licensed professional ; w/ consideration of local conditions, wind zones and structural substrate support should determine the proper fastener attachment.

<u>Panel and Material</u>	<u>Support Spc. / Load(psf)</u>	
2.67" Corrugated x 0.032" Alum.	2' / -156.4	5' / -47.1
2.67" Corrugated x 24 GA STEEL	2' / -104.0	5' / -61.1

FL 23225 Product: R-36 Panel x 36" Wide
24 Gauge Steel, 22 Gauge Steel, .032" Aluminum, .040" Aluminum
Non-HVHZ

Attached to 16GA support member or equivalent substrate secured with through fastened with Corrosion resistant: Panels are fastened to 16 gage test supports with #12-14 x 1 screws with 0.55" diameter seal washers. Stitch screws of #12-14 x 1 are spaced in sidelaps at 12" o.c.. Base panel is 36" x 1 1/4" with attachment screws on each side of ribs at one foot; which gives six screws per interior support. Analysis by a Florida licensed professional; with consideration of local conditions, wind zones and structural substrate support should determine the proper fastener attachment.

<u>Panel x Material</u>	<u>Support Spc. / Load(psf)</u>	
R36 x 1 1/4 0.032" Alum.	2' / -143.2	5' / -28.9
R36 x 1 1/4 0.040" Alum.	2' / -156.3	5' / -49.7
R36 x 1 1/4 24 Gage	2' / -159.1	5' / -49.9
R36 x 1 1/4 22 Gage	2' / -154.1	5' / -52.8

Allowable Uplift Loads Margin of Safety 2:1
LIMITATIONS

- Underlayment to be compliance with current Florida Building Code (FBC)2017 6th ed. Chapter 1507, Chart 1507.1.1
- Minimum slope to be compliant with Florida Building Code 2017 6th ed., and per with Manufacturer's installation reference.
- Products are compliant for State of Florida product approval per Rule 61G20-3. Compliance Method: 1-D
- Engineering analysis for "project specific approval by local authorities w/jurisdiction is allowed by other registered engineers.
- Fire classification is not part of this acceptance. Shear diaphragm values are outside this report.
- Support framing in compliance w/FBC 2017 6th ed., Chapter 22 for Steel, Chapter 23 for Wood and Chapter 16 for Structural Loading.
- This report does not imply warranty, installation, recommended product use outside of this report.

Reference Data: *ASTM E 1592-05 (2012) is equivalent to test standard ASTM E 1592-12.*

TEST REFERENCES

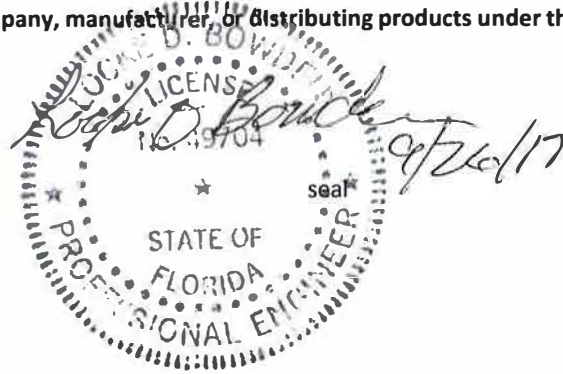
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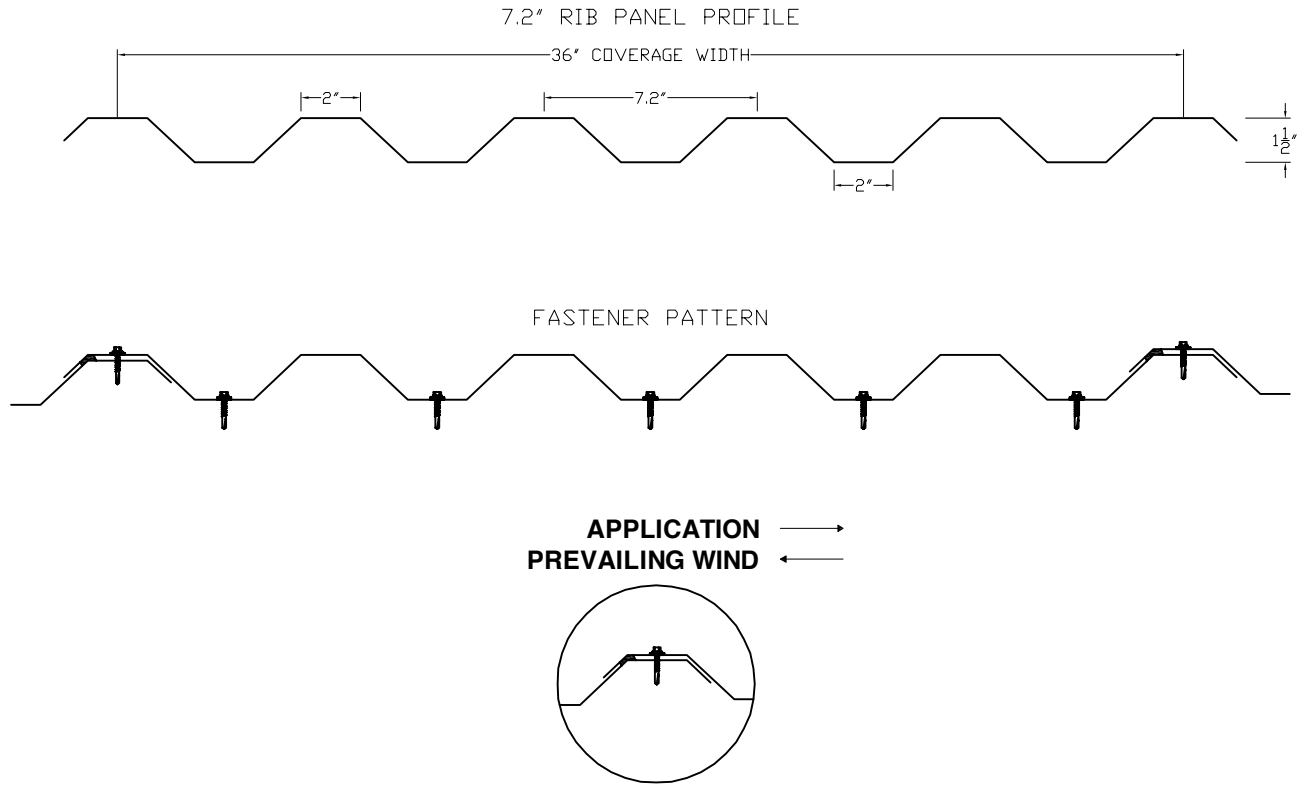
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Project Test #T281-08 ASTM E 1592-01 (2012)
Project Test #T234-11 ASTM E 1592-01 (2012)
Project Test #T267-11 ASTM E 283-04, ASTM E 331-00
Project Test #T170-08 ASTM E 1592-01 (2012)
Project Test #T171-08 ASTM E 1592-01 (2012)
Project Test #T176-08 ASTM E 1592-01 (2012)
Project Test #T175-08 ASTM E 1592-01 (2012)
Project Test #T166 ASTM E 283-04, ASTM E 331-00
Project Test #T126-09 ASTM E 1592-01 (2012)
Project Test #T124-09 ASTM E 1592-01 (2012)
Project Test #T132-11 ASTM E 283-04, ASTM E 331-00

Certificate of Independence:

Locke Bowden, P.E. does not have, not will acquire a financial interest in any company manufacturing or distributing products under this evaluation.

Locke Bowden, P.E. is not owned, operated, or controlled by any company, manufacturer, or distributor of products under this report.




NOTE:

1. Panels should always be lapped against prevailing winds.
2. The above fastening patterns are typical and may not be appropriate for all applications. Consult a Professional Engineer for specific requirements.
3. $\frac{1}{8}$ " x $\frac{1}{2}$ " tape sealant shall be used at all side laps when used as a roof panel.
4. Side lap fasteners are required. Typical spacing is 18", however this spacing may not be appropriate for all applications. Consult a Professional Engineer for specific requirements.
5. DO NOT USE NAILS FOR ANY PANEL ATTACHMENT.

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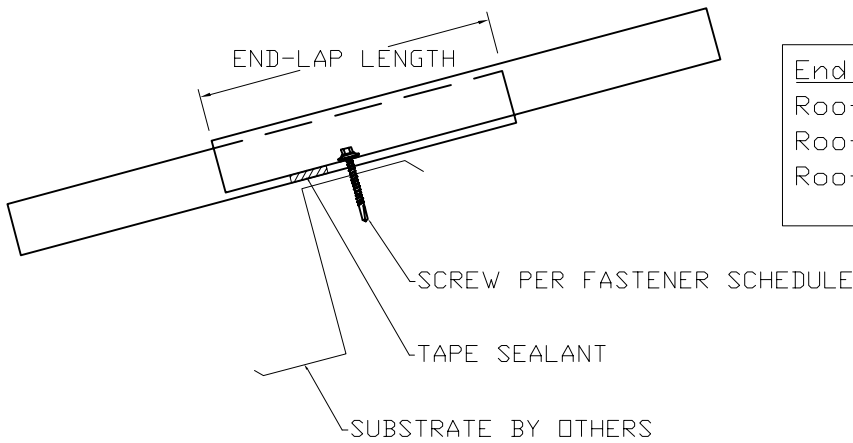
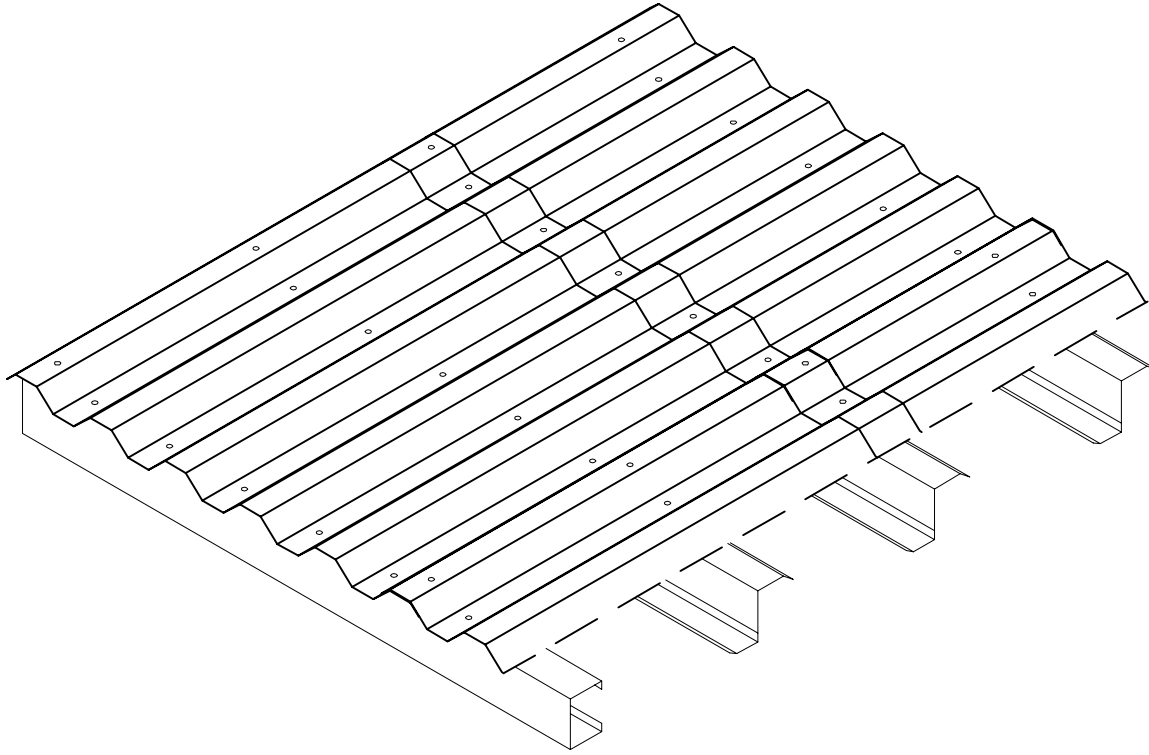
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 F 770 420 2533

Andover
 1885 Station Pkwy NW, Ste B
 Andover, MN 55304
 P 877 571 2025
 F 866 901 2935



End Lap Minimum Lengths:
 Roof Slope: $\frac{2}{12}$ & below - 12" Minimum
 Roof Slope: $\frac{3}{12}$ - 9" Minimum
 Roof Slope: $\frac{4}{12}$ & greater - 6" Minimum

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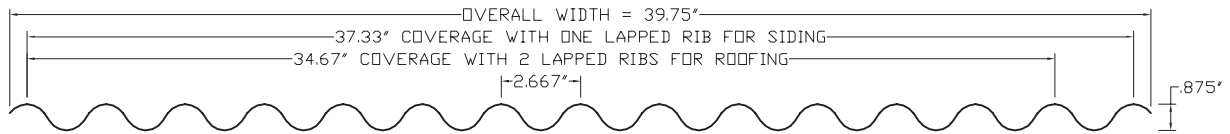
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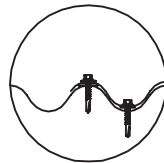
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PANEL PROFILE

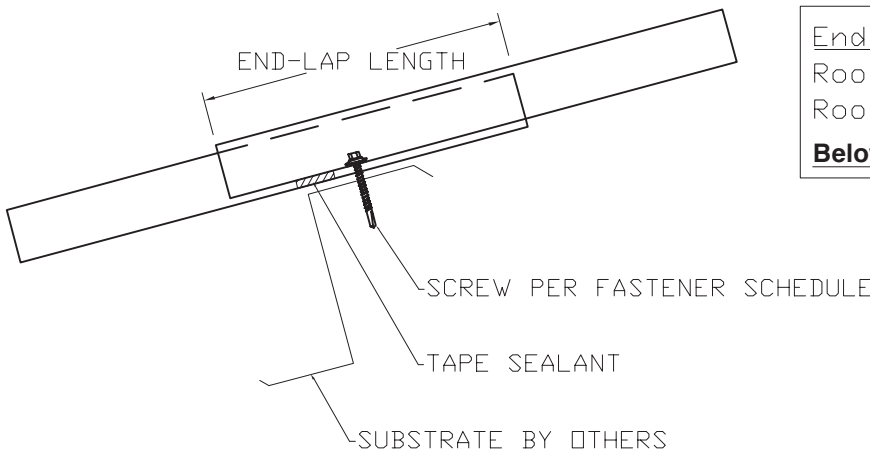
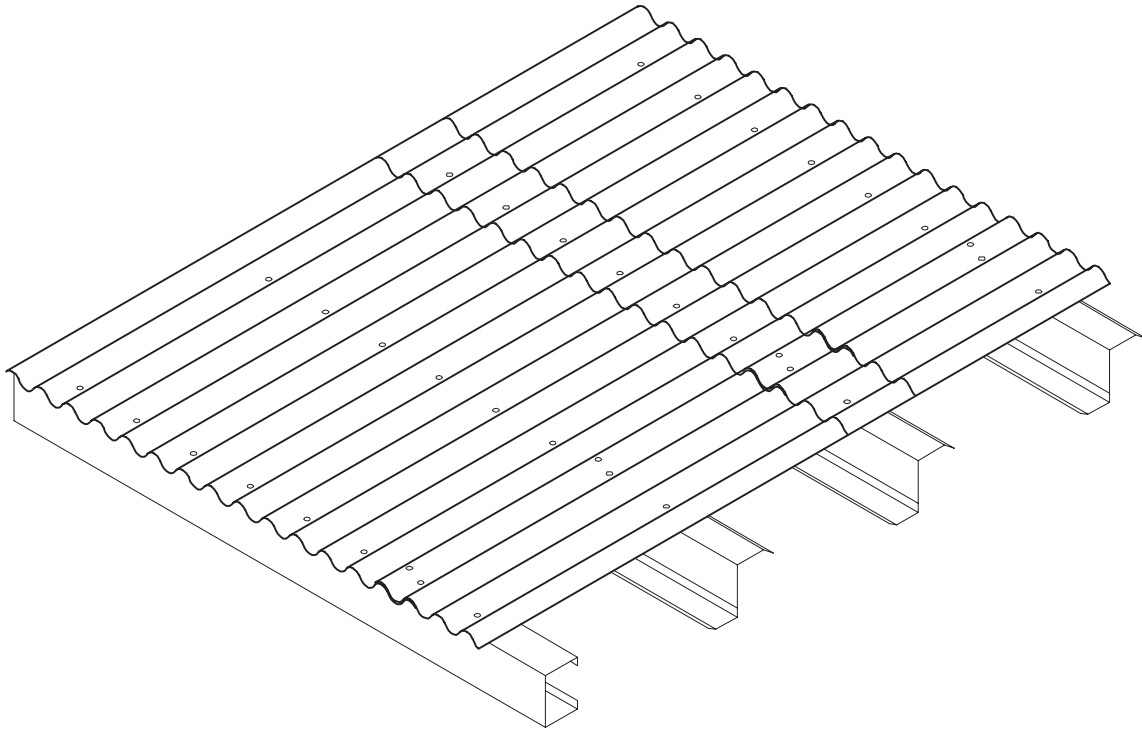


APPLICATION →
PREVAILING WIND ←



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4. Side lap fasteners are required. Typical spacing is 18", however this spacing may not be appropriate for all applications. Consult a Professional Engineer for specific requirements.
5. When using this panel in a roofing application, it should be lapped two corrugations. Panel may be lapped one corrugation when used in a siding application.
6. DO NOT USE NAILS FOR ANY PANEL ATTACHMENT.



End Lap Minimum Lengths:
 Roof Slope: $\frac{3}{12}$ - 9" Minimum
 Roof Slope: $\frac{4}{12}$ & greater - 6" Minimum
Below 2-1/2 / 12 slope: NOT RECOMMENDED

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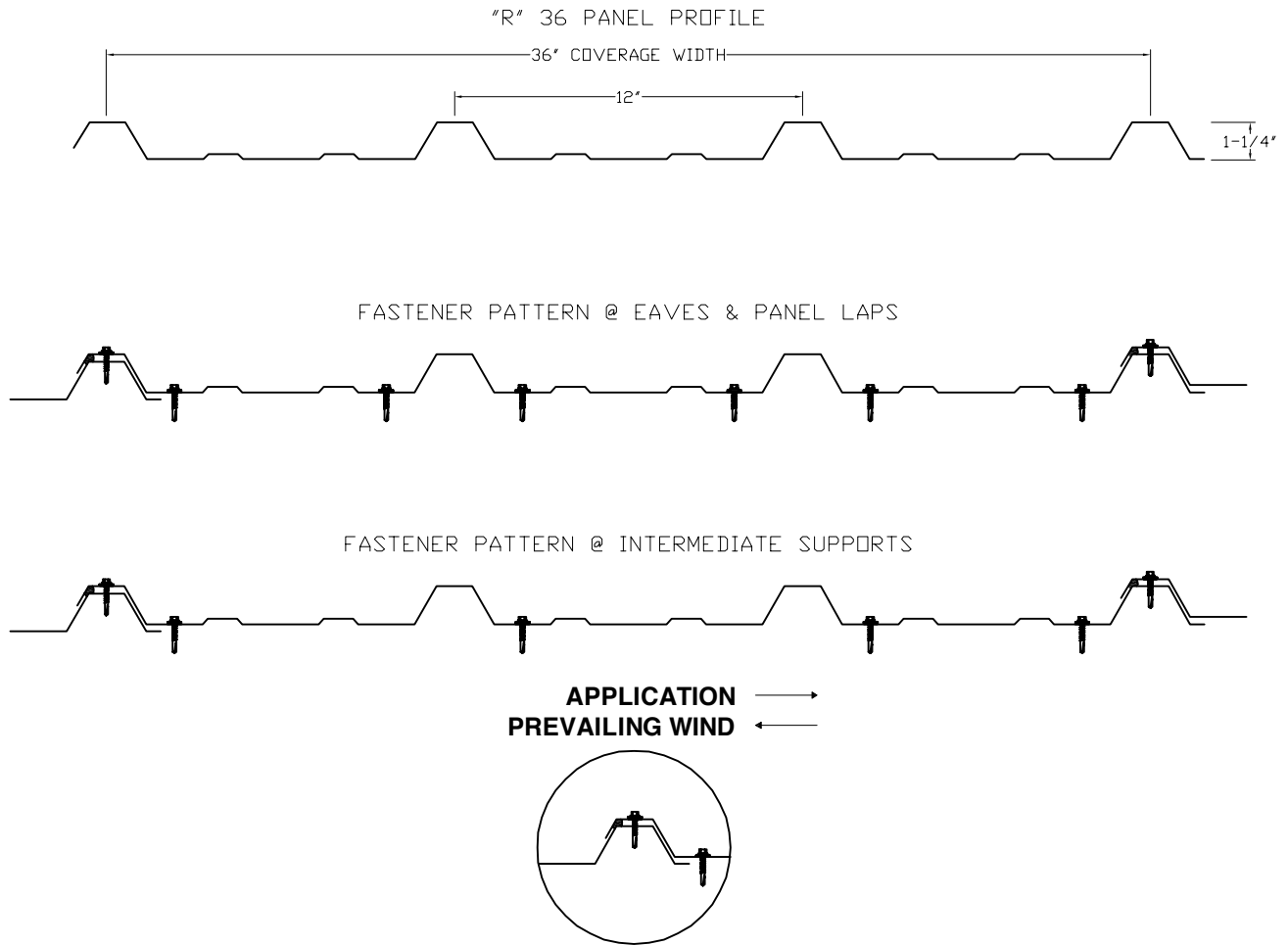
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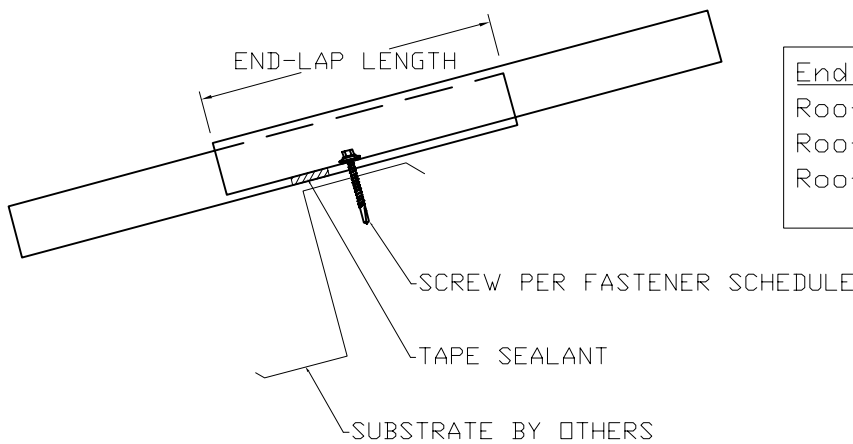
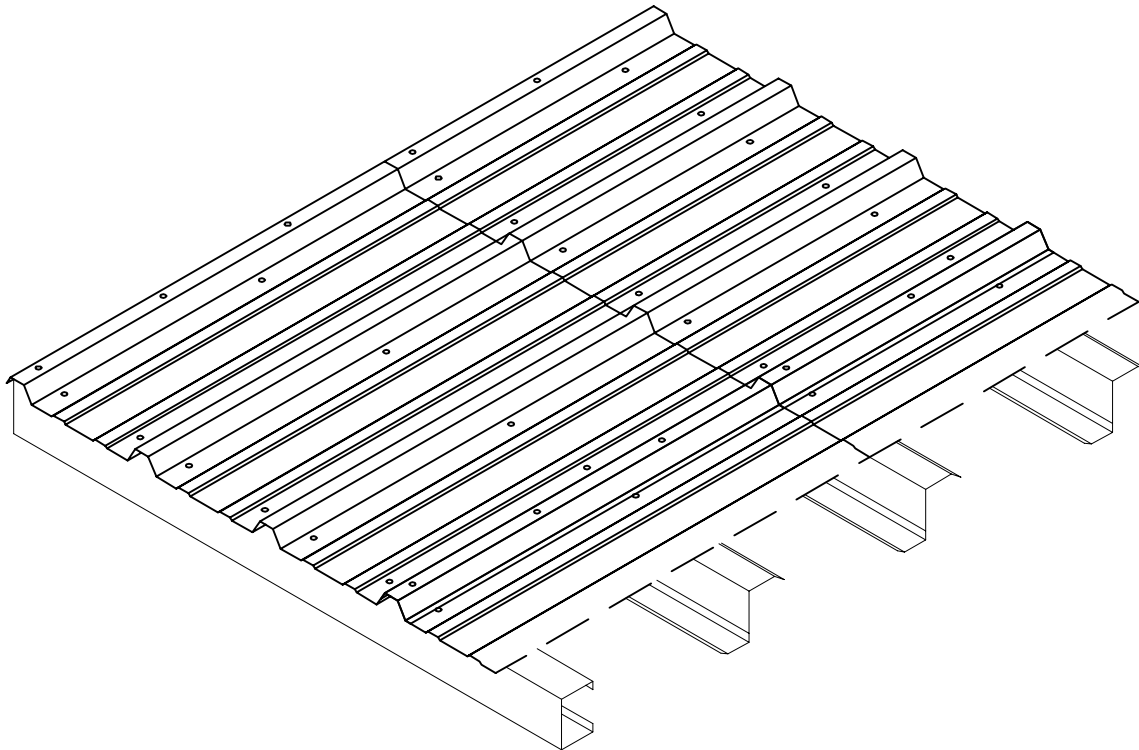
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End Lap Minimum Lengths:	
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Roof Slope: $\frac{3}{12}$	- 9" Minimum
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