

Registry No. 29824 17520 Edinburgh Dr Tampa, FL 33647 (813) 480-3421

EVALUATION REPORT

FLORIDA BUILDING CODE, 7TH EDITION (2020)

| Manufacturer: | TRI COUNTY METALS 301 SE 16 th Street Trenton, FL 32693 (877) 766-3309 <u>www.tricountymetals.com</u> | Issued February 10, 2021 |
|--------------------------|--|--------------------------|
| Manufacturing Locations: | Trenton, FL | |
| Quality Assurance: | Keystone Certifications, Inc. (QUA1824) | |
| SCOPE | | |

| Category: | Roofing |
|----------------|--|
| Subcategory: | Metal Roofing |
| Code Edition: | Florida Building Code, 7 th Edition (2020) High-Velocity Hurricane Zones (HVHZ) |
| Code Sections: | 1518.9.1, 1523.1.1, 1523.6.5, 1523.6.5.2.4, 1523.6.5.2.4.1 |
| Properties: | Wind Resistance |
| | |

REFERENCES

| Entity | Report No. | Standard | Year |
|---|------------|------------|------|
| PRI Construction Materials Technologies (TST5878) | 945T0002 | ASTM B 117 | 2016 |
| PRI Construction Materials Technologies (TST5878) | 945T0004 | ASTM G 155 | 2013 |
| PRI Construction Materials Technologies (TST5878) | 1272T0002 | ASTM B 117 | 2016 |
| 0 () | | TAS 110 | 2000 |
| PRI Construction Materials Technologies (TST5878) | 1272T0003 | ASTM B 117 | 2016 |
| | | TAS 110 | 2000 |
| PRI Construction Materials Technologies (TST5878) | 1272T0005 | ASTM G 155 | 2013 |
| | | TAS 110 | 2000 |
| PRI Construction Materials Technologies (TST5878) | 1272T0006 | ASTM G 155 | 2013 |
| | | TAS 110 | 2000 |
| PRI Construction Materials Technologies (TST5878) | 1930T0001 | TAS 125 | 2003 |
| | | UL 580 | 2006 |
| | | UL 1897 | 2012 |
| PRI Construction Materials Technologies (TST5878) | 1930T0002 | TAS 125 | 2003 |
| | | UL 580 | 2006 |
| | | UL 1897 | 2012 |
| PRI Construction Materials Technologies (TST5878) | 1930T0003 | TAS 125 | 2003 |
| | | UL 580 | 2006 |
| | | UL 1897 | 2012 |
| PRI Construction Materials Technologies (TST5878) | 1930T0004 | TAS 125 | 2003 |
| | | UL 580 | 2006 |
| | | UL 1897 | 2012 |
| PRI Construction Materials Technologies (TST5878) | 1930T0005 | TAS 100 | 1995 |
| PRI Construction Materials Technologies (TST5878) | 1930T0006 | TAS 100 | 1995 |
| PRI Construction Materials Technologies (TST5878) | 1930T0007 | TAS 100 | 1995 |
| PRI Construction Materials Technologies (TST5878) | 1930T0008 | TAS 100 | 1995 |
| PRI Construction Materials Technologies (TST5878) | 1930T0010 | ASTM B 117 | 2016 |
| | | TAS 110 | 2000 |
| PRI Construction Materials Technologies (TST5878) | 1930T0011 | ASTM G 155 | 2013 |
| | | TAS 110 | 2000 |



PRODUCT DESCRIPTION

| TCM-LOK 1" | Profile: | 1 in. snap lock seam; Max.16 in. coverage |
|--------------|---------------------------|--|
| | Description: | Non-structural, snap lock standing seam roof panel with 7/8 in. slotted nail strip |
| | Material: | Min. 0.032 in. ASTM B209, 3105 H22 aluminum coated with Fluropon®; $F_y = min. 25$ ksi; Shall conform with FBC Section 1507.4.3 |
| | | |
| TCM-LOK 1.5" | Profile: | 1.5 in. snap lock seam; Max. 15 in. coverage |
| | Description: Material: | Non-structural, snap lock standing seam roof panel with 7/8 in. slotted nail strip Min. 24 ga. ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or A792 AZ55 steel; $F_y = min. 50$ ksi; Shall conform with FBC Section 1507.4.3 |
| | | |
| | | |



| 5V | Profile: | 3/8 in. ribs at 12 in. o.c.; 24 in. coverage | | | | |
|-----------|--------------|---|--|--|--|--|
| | Description: | Non-structural, through fastened roof panel | | | | |
| | Material: | Min. 26 ga. ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or A792 AZ55 steel; $F_y = min. 80$ ksi; Shall conform with FBC Section 1507.4.3 | | | | |
| | | | | | | |
| | | | | | | |
| Ultra Rib | Profile: | 3/4 in. ribs at 9 in. o.c.; 36 in. coverage | | | | |
| | Description: | Non-structural, through fastened roof panel | | | | |
| | Material: | Min. 26 ga. ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or A792 AZ55 steel; $F_y = min. 80 \text{ ksi}$; Shall conform with FBC Section 1507.4.3 | | | | |
| | | | | | | |
| | | 3/4" <u>*</u> <u>*</u> <u>*</u> <u>*</u> <u>*</u> <u>*</u> <u>*</u> <u>*</u> | | | | |

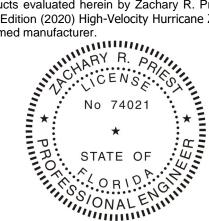


LIMITATIONS

- 1. Fire classification is not within the scope of this evaluation.
- The roof deck and the roof deck attachment information are provided based on testing. FBC requirements for the rational design of the roof deck, including the attachment, are not within the scope of this evaluation.
- 3. Roof slope shall be 2:12 or greater.
- 4. Reroofing shall be in accordance with Section 1521.
- 5. Installation of the evaluated products shall comply with this report, RAS 133, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
- 6. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

COMPLIANCE STATEMENT

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 7th Edition (2020) High-Velocity Hurricane Zones (HVHZ) as evidenced in the referenced documents submitted by the named manufacturer.



Zachary R. Priest, P.E. Florida Registration No. 74021 Organization No. ANE9641

CERTIFICATION OF INDEPENDENCE

CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

APPENDICES

- 1) APPENDIX A Installation (1 pages)
- 2) APPENDIX B Approved Roof Systems (2 pages)
- 3) APPENDIX C Design Wind Loads (3 pages)

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This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

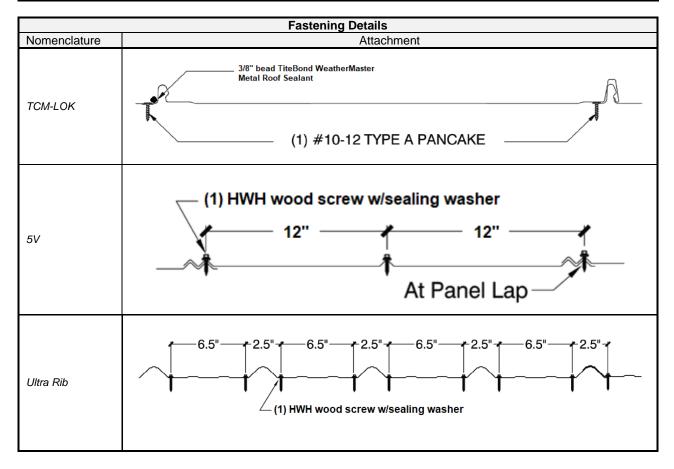


INSTALLATION

Note - Refer to the <u>APPROVED ROOF SYSTEMS</u> section of this report for specific installation details of a selected system.

Unless otherwise specified in this report the following installation details shall be met for the named products:

| Component | Product | Installation Detail |
|-----------|--|---|
| | #10-12 Pancake Type A screw | |
| Fasteners | #9-15 Woodgrip HWH wood screw with sealing washer | Shall penetrate through the sheathing a minimum 3/8 in. Shall be corrosion resistant in accordance with FBC section 1507.4.4. |
| | #12-8 Woodgrip XG HWH wood screw with sealing washer | |
| Sealants | TiteBond Weathermaster Metal Roof Sealant | Shall be applied in 1/4"- 5/16" continuous beads on the male rib along the seam |



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APPENDIX B

The following notes shall be observed when using the assembly tables below.

- 1. Maximum Design Pressure (MDP) was calculated using a 2:1 margin of safety per FBC Section 1523.4.
- 2. Refer to LIMITATIONS and sections of this evaluation when using the table(s) below.
- 3. Refer to **INSTALLATION** section of this report for installation detail when the information is not explicitly stated for the selected assembly.
- 4. The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
- 5. Underlayment shall be installed in accordance with FBC requirements. The minimum underlayment shall be ASTM D 226, Type II installed as described in FBC Section 1518.2.1 with nails and tin caps per 1517.5.
- 6. Wood Deck shall be designed by others in accordance with FBC requirements and shall be minimum 19/32-inch thick APA Span-Rated plywood sheathing or wood plank at maximum 24-inch span for new construction. Existing construction shall be the minimum plywood sheathing or wood plank thickness at maximum 24-inch span as stated in the approval tables on following pages. In no case shall the attachment be less than 8d ring shank nails spaced 6-inch o.c.

| | Roof System Numbers and Definitions | | | | |
|--------------|--|--|--|--|--|
| LOK-W# | TCM-LOK over Wood Deck (New or Existing) | | | | |
| <u>5V-W#</u> | 5V over Wood Deck (New or Existing) | | | | |
| RIB-W# | Ultra Rib over Wood Deck (New or Existing) | | | | |

| | Approved Systems for TCM-LOK over Wood Deck (New or Existing) | | | | | | | | |
|---------------|---|-----------------------------------|---------------------|--|---|--------------|--|--|--|
| System No. | Deck | Fire Barrier | Underlayment | Roof Panel | Panel Attachment | MDP (psf) | | | |
| LOK-W-1 | Min. 15/32 CDX plywood | OPTIONAL Approved fire barrier | As required per FBC | Min. 0.032 AI TCM-LOK 1" 16-inch coverage | <i>TCM-LOK</i> attachment with #10-12 Pancake Type A screws spaced 5-1/4 in. o.c. Titebond Weathermaster Metal Roof Sealant applied to male rib. | -110 | | | |
| LOK-W-2 | Min. 15/32 CDX plywood | OPTIONAL Approved fire barrier | As required per FBC | Min. 24 ga. TCM-LOK 1.5" 15-inch coverage | <i>TCM-LOK</i> attachment with #10-12 Pancake Type A screws spaced 5-1/4 in. o.c. Titebond Weathermaster Metal Roof Sealant applied to male rib. | -122.5 | | | |

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APPENDIX B

| | | Appro | oved Systems for 5V C | rimp over Wood Deck (Ne | ew or Existing) | |
|---------------|---------------------------|-----------------------------------|-----------------------|--|---|--------------|
| System No. | Deck | Fire Barrier Underlayment | | Roof Panel | Panel Attachment | MDP (psf) |
| 5V-W-1 | Min. 15/32 CDX plywood | OPTIONAL Approved fire barrier | As required per FBC | Min. 26 ga. 5V Crimp 24-inch coverage | 5V attachment with #12-8 Woodgrip XG screws with sealing washers spaced 16 in. o.c. | -86.25 |
| 5V-W-2 | Min. 15/32 CDX plywood | OPTIONAL Approved fire barrier | As required per FBC | Min. 26 ga. 5V Crimp 24-inch coverage | 5V attachment with #9-15 Woodgrip or #12-8 Woodgrip XG screws with sealing washers spaced 12 in. o.c. | -90 |
| 5V-W-3 | Min. 15/32 CDX plywood | OPTIONAL Approved fire barrier | As required per FBC | Min. 26 ga. 5V Crimp 24-inch coverage | 5V attachment with #12-8 Woodgrip XG screws with sealing washers spaced 9 in. o.c. | -120 |
| 5V-W-4 | Min. 15/32 CDX plywood | OPTIONAL Approved fire barrier | As required per FBC | Min. 26 ga. 5V Crimp 24-inch coverage | 5V attachment with #9-15 Woodgrip or #12-8 Woodgrip XG screws with sealing washers spaced 6 in. o.c. | -135 |

| | Approved Systems for Ultra Rib over Wood Deck (New or Existing) | | | | | | | | | |
|---------------|---|-----------------------------------|---------------------|--|---|------------------|---------------------|--|--|--|
| System No. | Deck | Fire Barrier Underlayment Roof Pa | | Deck Fire Barrier Underlayment Roof Panel Panel Attachment | | Panel Attachment | <i>MDP</i> (psf) | | | |
| RIB-W-1 | Min. 15/32 CDX plywood | OPTIONAL Approved fire barrier | As required per FBC | Min. 26 ga. Ultra Rib 36-inch coverage | <i>Ultra Rib</i> attachment with #12-8 Woodgrip XG screws spaced 24 in. o.c | -116.25 | | | | |
| RIB-W-2 | Min. 15/32 CDX plywood | OPTIONAL Approved fire barrier | As required per FBC | Min. 26 ga. Ultra Rib 36-inch coverage | <i>Ultra Rib</i> attachment with #9-15 Woodgrip screws spaced 12 in. o.c | -135 | | | | |

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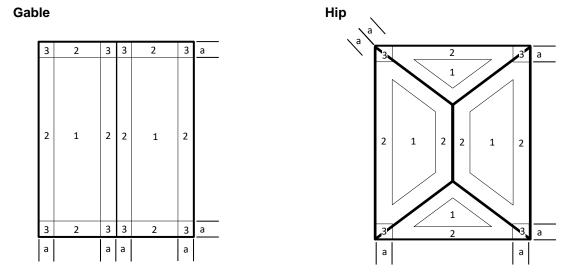


APPENDIX C

DESIGN WIND LOADS

The following tables provide design wind loads for components and cladding in accordance with Section 1620 of the FBC and ASCE 7-16 under the following provisions:

- 1. Wind speeds for risk category I, II, III, and IV buildings shall be as defined in Section 1620 of the FBC.
- 2. Exposure C and D shall be as defined in section 1620 of the FBC.
- 3. Design wind load provided only for gable/hip roofs with roof slopes between 2:12 and 6.1:12
- 4. All calculations are based on an effective wind area of $10-\text{ft}^2$ or less.
- 5. Topographic factors such as escarpments or hills have been excluded from the analysis
- 6. Overhangs have been excluded from the analysis.
- 7. Wind directionality factor, $K_d = 0.85$
- 8. Design wind loads are calculated using $P_{asd} = 0.6P_{ult}$.
- 9. Zone 2 is inclusive of Zone 2e, Zone 2n, and Zone 2r
- 10. Zone 3 is inclusive of Zone 3e and Zone 3r
- 11. Projects with mean roof heights greater than 60-ft shall be evaluated by a licensed design professional
- 12. Zones 1, 2, and 3 shall be defined as shown below. Dimension "a" shall be 10% of the least horizontal dimension or (0.4 x *Mean Roof Height*), whichever is smaller, but not less than either 4% of the least horizontal dimension or 3ft



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APPENDIX C

| | | | | | Basic Wind | Speed (mph) | | |
|----------------|------|-------------|------------|------------|-------------|-------------|---|---|
| Building Type | Zone | Mean Roof | Risk Cat I | Risk Cat I | Risk Cat II | Risk Cat II | Risk Cat III, IV | Risk Cat III,I |
| | | Height (ft) | 156 | 165 | 170 | 175 | 180 | 186 |
| | | 20 | -62.3 | -69.7 | -74.0 | -78.5 | -83.0 | -88.6 |
| | | 25 | -65.1 | -72.8 | -77.3 | -81.9 | -86.7 | -92.6 |
| | 1 | 30 | -67.9 | -75.9 | -80.6 | -85.4 | -90.4 | -96.5 |
| | I | 40 | -72.0 | -80.6 | -85.6 | -90.7 | -95.9 | -102.4 |
| | | 50 | -75.5 | -84.5 | -89.7 | -95.0 | -100.5 | -107.3 |
| | | 60 | -78.3 | -87.6 | -93.0 | -98.5 | -104.2 | -111.3 |
| | | 20 | -90.9 | -101.7 | -108.0 | -114.4 | -121.1 | -129.3 |
| | | 25 | -95.0 | -106.3 | -112.8 | -119.5 | -126.5 | -88.6 -92.6 -96.5 -102.4 -107.3 -111.3 |
| Enclosed/ | 0 | 30 | -99.0 | -110.8 | -117.6 | -124.6 | -131.8 | |
| Partially Open | 2 | 40 | -105.1 | -117.6 | -124.8 | -132.2 | -131.8 -140.8 -139.9 -149.4 -146.6 -156.6 -152.0 -162.3 -143.9 -153.7 -150.3 -160.5 -156.7 -167.3 | |
| | | 50 | -110.1 | -123.2 | -130.8 | -138.6 | -146.6 | -156.6 |
| | | 60 | -114.2 | -127.7 | -135.6 | -143.7 | -152.0 | -162.3 |
| | | 20 | -108.1 | -120.9 | -128.4 | -136.0 | -143.9 | 180 186 83.0 -88.6 86.7 -92.6 90.4 -96.5 95.9 -102.4 100.5 -107.3 104.2 -111.3 121.1 -129.3 126.5 -135.0 131.8 -140.8 139.9 -149.4 146.6 -156.6 152.0 -162.3 143.9 -153.7 150.3 -160.5 156.7 -167.3 166.3 -177.6 174.3 -186.1 180.7 -192.9 97.1 -103.7 101.4 -108.3 105.7 -112.9 112.2 -119.8 117.6 -125.5 121.9 -130.2 135.2 -144.3 141.2 -150.7 147.2 -157.1 156.2 -166.8 163.7 -174.8 169.7 -181.2 158.0 -168.7 165.0 -176.2 172.0 -183.7 182.6 -195.0 |
| | | 25 | -112.9 | -126.3 | -134.1 | -142.1 | | |
| | | 30 | -117.7 | -131.7 | -139.8 | -148.1 | -156.7 | -167.3 |
| | 3 | 40 | -124.9 | -139.7 | -148.3 | -157.2 | -166.3 | -177.6 |
| | | 50 | -130.9 | -146.5 | -155.5 | -164.7 | -174.3 | -186.1 |
| | | 60 | -135.7 | -151.8 | -161.2 | -170.8 | -180.7 | -192.9 |
| | | 20 | -72.9 | -81.6 | -86.6 | -91.8 | -97.1 | -103.7 |
| | | 25 | -76.2 | -85.2 | -90.4 | -95.8 | -101.4 | -108.3 |
| | | 30 | -79.4 | -88.8 | -94.3 | -99.9 | -105.7 | -112.9 |
| | 1 | 40 | -84.3 | -94.3 | -100.1 | -106.0 | -112.2 | -119.8 |
| | | 50 | -88.3 | -98.8 | -104.9 | -111.1 | -117.6 | -125.5 |
| | | 60 | -91.6 | -102.4 | -108.7 | -115.2 | -121.9 | -130.2 |
| | | 20 | -101.5 | -113.6 | -120.6 | -127.8 | -135.2 | -144.3 |
| | | 25 | -106.0 | -118.6 | -125.9 | -133.4 | -117.6 -125.5 -121.9 -130.2 -135.2 -144.3 | |
| Partially | 0 | 30 | -110.5 | -123.7 | -131.3 | -139.1 | -147.2 | 186 -88.6 -92.6 -96.5 -102.4 -107.3 -111.3 -129.3 -135.0 3 -140.8 -140.8 -140.8 -140.8 -140.8 -140.8 -140.8 -140.8 -140.8 -140.8 -140.8 -140.8 -160.5 -167.3 -160.5 -167.3 -160.5 -167.3 -177.6 -160.5 -167.3 -177.6 -177.6 -186.1 -192.9 -103.7 -108.3 -112.9 -119.8 -125.5 -1130.2 -144.3 -150.7 -157.1 -166.8 -174.8 -174.8 -176.2 |
| Enclosed | 2 | 40 | -117.3 | -131.2 | -139.3 | -147.6 | -156.2 | |
| | | 50 | -123.0 | -137.5 | -146.0 | -154.7 | -163.7 | -174.8 |
| | | 60 | -127.5 | -142.6 | -151.4 | -160.4 | -169.7 | |
| | | 20 | -118.7 | -132.8 | -140.9 | -149.3 | -158.0 | -168.7 |
| | | 25 | -124.0 | -138.7 | -147.2 | -156.0 | -165.0 | -176.2 |
| | 0 | 30 | -129.2 | -144.6 | -153.5 | -162.6 | -172.0 | |
| | 3 | 40 | -137.1 | -153.4 | -162.9 | -172.6 | -182.6 | |
| | | 50 | -143.7 | -160.8 | -170.7 | -180.9 | -191.4 | |
| | | 60 | -149.0 | -166.7 | -177.0 | -187.5 | -198.4 | |



APPENDIX C

| Gable/Hip Roofs in Exposure D in Miami-Dade & Broward County (Roof slopes between 2:12 and 12:12) | | | | | | | | | |
|---|------|-------------|------------|------------|-------------|-------------|--|---|--|
| | | | | | Basic Wind | Speed (mph) | | | |
| Building Type | Zone | Mean Roof | Risk Cat I | Risk Cat I | Risk Cat II | Risk Cat II | Risk Cat III, IV | Risk Cat III,IV | |
| | | Height (ft) | 156 | 165 | 170 | 175 | 180 | 186 | |
| | | 20 | -74.8 | -83.7 | -88.8 | -94.1 | -99.6 | -106.3 | |
| | | 25 | -77.6 | -86.8 | -92.1 | -97.6 | -103.3 | -110.3 | |
| | | 30 | -80.4 | -89.9 | -95.4 | -101.1 | -107.0 | -114.2 | |
| | 1 | 40 | -84.5 | -94.5 | -100.4 | -106.3 | -112.5 | -120.1 | |
| | | 50 | -88.0 | -98.4 | -104.5 | -110.7 | -117.1 | -125.1 | |
| | | 60 | -90.7 | -101.5 | -107.8 | -114.2 | -120.8 | -129.0 | |
| | | 20 | -109.1 | -122.1 | -129.6 | -137.3 | -145.3 | -155.1 | |
| | | 25 | -113.2 | -126.6 | -134.4 | -142.4 | -150.7 | 180 186 99.6 -106.3 03.3 -110.3 07.0 -114.2 12.5 -120.1 17.1 -125.1 20.8 -129.0 45.3 -155.1 50.7 -160.9 56.0 -166.6 64.1 -175.2 70.8 -182.4 76.2 -188.2 72.7 -184.4 79.1 -191.2 85.5 -198.1 90.5 -223.7 16.5 -124.4 20.8 -129.0 25.1 -133.6 31.6 -140.5 37.0 -146.3 41.3 -150.9 62.2 -173.2 68.2 -179.6 74.2 -186.0 83.2 -195.6 90.7 -203.6 96.7 -210.1 89.6 -202.5 96.6 -210.0 203.6 -217.4 214.2 -228.7 | |
| Enclosed/ | 2 | 30 | -117.2 | -131.1 | -139.2 | -147.5 | -156.0 | | |
| Partially Open | 2 | 40 | -123.3 | -137.9 | -146.4 | -155.1 | -164.1 | | |
| | | 50 | -128.3 | -143.6 | -152.4 | -161.5 | -170.8 | -182.4 | |
| | | 60 | -132.4 | -148.1 | -157.2 | -166.6 | -176.2 | -188.2 | |
| | 3 | 20 | -129.7 | -145.1 | -154.0 | -163.2 | -172.7 | -184.4 | |
| | | 25 | -134.5 | -150.5 | -159.7 | -169.3 | -179.1 | -191.2 | |
| | | 30 | -139.3 | -155.9 | -165.4 | -175.3 | -185.5 | -198.1 | |
| | | 40 | -146.5 | -163.9 | -174.0 | -184.4 | -195.1 | -208.3 | |
| | | 50 | -152.5 | -170.6 | -181.1 | -192.0 | -203.1 | -216.8 | |
| | | 60 | -157.3 | -176.0 | -186.8 | -198.0 | -209.5 | -223.7 | |
| | 1 | 20 | -87.5 | -97.9 | -103.9 | -110.1 | -116.5 | -124.4 | |
| | | 25 | -90.7 | -101.5 | -107.8 | -114.2 | -120.8 | -129.0 | |
| | | 30 | -94.0 | -105.1 | -111.6 | -118.3 | -125.1 | -133.6 | |
| | I | 40 | -98.8 | -110.6 | -117.4 | -124.4 | -131.6 | -140.5 | |
| | | 50 | -102.9 | -115.1 | -122.2 | -129.5 | -137.0 | -146.3 | |
| | | 60 | -106.1 | -118.7 | -126.0 | -133.6 | -141.3 | -150.9 | |
| | | 20 | -121.8 | -136.3 | -144.7 | -153.3 | -162.2 | -173.2 | |
| | | 25 | -126.3 | -141.3 | -150.0 | -159.0 | -168.2 | | |
| Partially | 2 | 30 | -130.8 | -146.4 | -155.4 | -164.7 | 180 186 -99.6 -106.3 -103.3 -110.3 -107.0 -114.2 -112.5 -120.1 -117.1 -125.1 -120.8 -129.0 -145.3 -155.1 -150.7 -160.9 -156.0 -166.6 -164.1 -175.2 -170.8 -182.4 -170.8 -182.4 -177.7 -184.4 -179.1 -191.2 -185.5 -198.1 -195.1 -208.3 -203.1 -216.8 -209.5 -223.7 -116.5 -124.4 -125.1 -133.6 -131.6 -140.5 -131.6 -140.5 -141.3 -150.9 -162.2 -173.2 -168.2 -179.6 -190.7 -203.6 -190.7 -203.6 -196.6 -210.0 -203.6 -217.4 -223.0 -238.1 | -186.0 | |
| Enclosed | 2 | 40 | -137.6 | -154.0 | -163.4 | -173.2 | -183.2 | -195.6 | |
| | | 50 | -143.3 | -160.3 | -170.1 | -180.3 | -190.7 | -203.6 | |
| | | 60 | -147.8 | -165.3 | -175.5 | -186.0 | -196.7 | -210.1 | |
| | | 20 | -142.4 | -159.3 | -169.1 | -179.2 | | | |
| | | 25 | -147.7 | -165.2 | -175.4 | -185.8 | -196.6 | -210.0 | |
| | 3 | 30 | -153.0 | -171.1 | -181.6 | -192.5 | -203.6 | -217.4 | |
| | 5 | 40 | -160.9 | -180.0 | -191.0 | -202.4 | -214.2 | | |
| | | 50 | -167.5 | -187.3 | -198.9 | -210.7 | -223.0 | -238.1 | |
| | | 60 | -172.7 | -193.2 | -205.1 | -217.4 | -230.0 | -245.6 | |

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