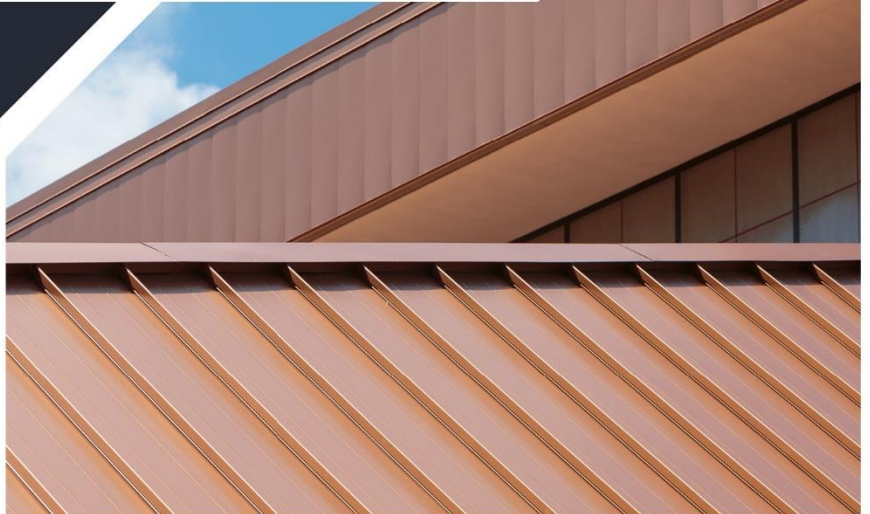


# ENVIRONMENTAL PRODUCT DECLARATION

STEEL PANELS & COILS



# GENERAL INFORMATION

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This cradle-to-gate with options Environmental Product Declaration covers steel metal roof panels, wall panels, soffits and coils produced at the Anoka Plant. The Life Cycle Assessment (LCA) was prepared in conformity with ISO 21930, ISO 14025, ISO 14040, and ISO 14044 and Product Category Rules (PCR) Guidance for Building Related Products and Services. Part A: Life Cycle Assessment Calculation Rules and Report Requirement (UL 10010, Version 4.0, 2022) and Part B: Insulated Metal Panels, Metal Composite Panels, and Metal Cladding Roof and Wall Panels (UL Environment 10010-5, Version 2.0, 2018). This EPD is intended for business-to-business (B-to-B) audiences.

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## Amrize Building Envelope

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## Anoka Plant

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## Program Operator

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610-832-9500  
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**EPD# 909**

March 19<sup>th</sup>, 2025  
Valid for 5 years



## LCA/EPD Developer

Climate Earth, Inc.  
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**ISO 21930:2017 – serves as the core PCR and UL Part A: Life Cycle Assessment Calculation Rules and Report Requirement (UL 10010 Version 4.0, 2022) and sub-category Part B: Insulated Metal Panels, Metal Composite Panels, and Metal Cladding Roof and Wall Panels (UL 10010-5 Version 2.0, 2018).**

- PCR review was conducted by: **Lindita Bushi**, PhD. ([lindita.bushi@athenasmi.org](mailto:lindita.bushi@athenasmi.org))
- Sub-category Part B PCR review was conducted by: **Thomas P. Gloria**, PhD. ([t.gloria@industrial-ecology.com](mailto:t.gloria@industrial-ecology.com))
- Independent verification of the declaration, according to ISO 21930:2017 and ISO 14025:2006.: ☐ internal ☒ external
- Third party verifier: **Thomas P. Gloria**, PhD. ([t.gloria@industrial-ecology.com](mailto:t.gloria@industrial-ecology.com)) • Industrial Ecology Consultants
- For additional explanatory material Manufacturer Representative: **Sherrie MacWilliams** ([sherrie.macwilliams@amrize.com](mailto:sherrie.macwilliams@amrize.com))  
This LCA EPD was prepared by: **Melissa Diaz**, LCA and EPD Project Manager • Climate Earth ([www.climateearth.com](http://www.climateearth.com))
- EPDs are comparable only if they comply with ISO 21930 (2017), use the same sub-category PCR where applicable, include all relevant information modules and are based on equivalent scenarios with respect to the context of construction works.



## PRODUCER

**Amrize Building Envelope LLC** delivers high-performance solutions that make the entire building envelope more sustainable for customers around the world. We are committed to raising the standards of building solutions by delivering superior quality and innovation while addressing industry needs.

Our offerings cover a comprehensive range of residential and commercial roofing, wall and lining systems, insulation, and waterproofing solutions for a variety of industries from construction to marine and aerospace. Our powerful portfolio brands include Elevate, Duro-Last, Malarkey Roofing Products, GenFlex, Gaco, and Enverge. Visit [amrize.com](http://amrize.com) to learn more.

Amrize's Anoka, MN facility is ISO 9000 certified, and manufactures Elevate metal roofing materials for use in commercial roofing systems. The facility is 300,000 square feet and opened in 1995.

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## PRODUCT: Metal Roofing Panels and Coils - Steel

With superior durability, flexibility and UV resistance, UNA-CLAD™ Steel Architectural Sheet & Coil is a versatile roofing solution that withstands the test of time, backed by a 40+ year legacy. Elevate's metal roofing systems offer a range of benefits, including design enhancement, energy efficiency and ease of use. Both reliable and aesthetically versatile, our long-lasting metal roofing solutions are suited to a variety of applications and come in a wide range of colors and finishes. Elevate UNA-CLAD™ offers rolled panels, flat sheets, wall panels, soffits and coils. Additionally, UNA-CLAD™ Steel Architectural Sheet & Coil can contribute to LEED® certification. Steel sheets and coils manufactured at the Anoka facility do not contain hazardous materials.

### Roll Form Panels and Soffits

Roll form panels and soffits are factory-formed and either feature a patented interlocking mechanism or are mechanically seamed onsite for ease of installation and to support the unique needs of almost any commercial facility. The seams also allow for varying levels of thermal expansion, water resistance, uplift, and more.

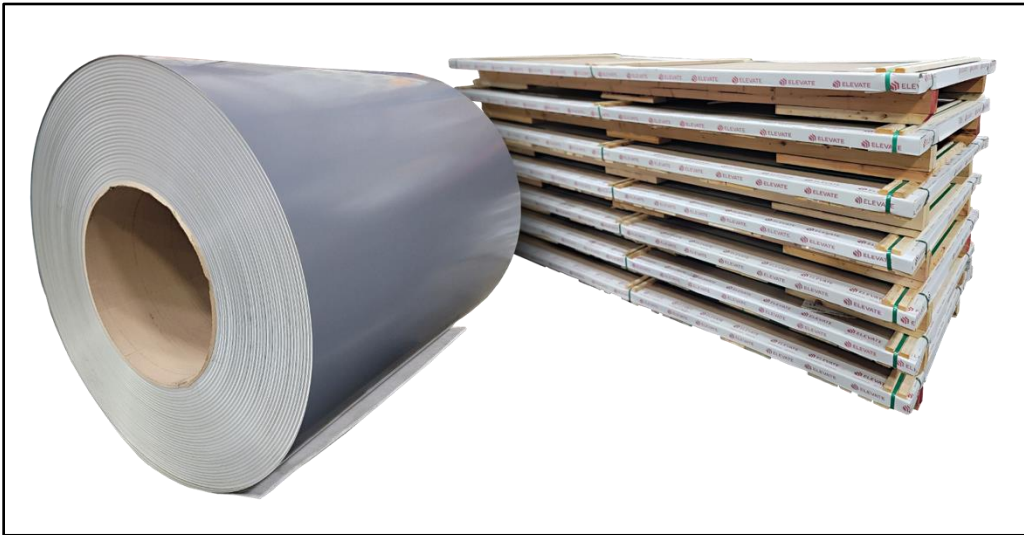
### Flat Panels

Flat panels are versatile and suitable for use in press brakes to create precise bends and folds, making them ideal for crafting trims, flashings, and edge metal.

### Coils

Coil provides the flexibility and strength needed for continuous or large-scale projects. Coils are for use in factory and/or mobile roll forming equipment to create a variety of panels, including siding, roofing, and structural components.

FIGURE 1  
Metal Roofing Panels and Coils – Steel



CFP-12



CFP-12B



CFP-12F



CFP-12T



CFP-16B



CFP-16C



CFP-16F



CFP-16T



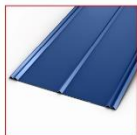
CFP-16TP



CFP-162B



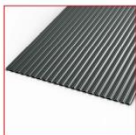
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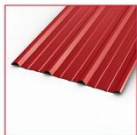
5V



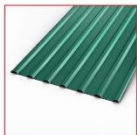
UC-600



UC-601



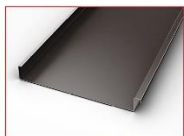
HR ULTRA OMEGA



UR OMEGA



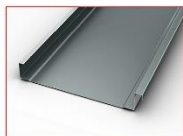
VR CLASSIC OMEGA



UC-3



UC-4



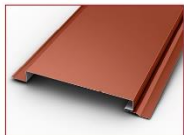
UC-6



UC-7



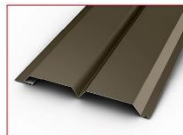
UC-14



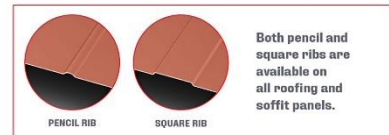
UC-501 FLAT



UC-500 FLAT



UC-750



The products covered in this EPD meet the following physical properties:

TABLE 1  
Typical Properties of Base Material (Meets or exceeds ASTM D 4637, Type I)

| PROPERTY                          | VALUE                                                                                                             |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Base Metal                        | AZ50 – Hot dipped Galvalume® (55% Aluminum and 43+% zinc) steel sheet, commercial weight, meeting ASTM A792/A792M |
| Minimum Yield                     | 50 KSI                                                                                                            |
| Co-efficient of Thermal Expansion | 06.7 x 10 <sup>-6</sup> in/in/F° (13.9 m/m.K x 10 <sup>-6</sup> )                                                 |
| Modules of Elasticity             | 29.0 x 10 <sup>6</sup> x KSI (200 GPa)                                                                            |
| Specification                     | ASTM E111-4                                                                                                       |

TABLE 2  
Product Components

| MATERIAL               | AVERAGE PERCENTAGE COMPOSITION |
|------------------------|--------------------------------|
| Steel Coils and Panels | 99.0%                          |
| Coating                | 1.0%                           |

TABLE 3  
Recycled Content

| RECYCLED CONTENT | PERCENTAGE |
|------------------|------------|
| Steel            | 50% - 78%  |

**Note:** No substances required to be reported as hazardous or dangerous are associated with the production of steel coils.

# LIFE CYCLE ASSESSMENT

## DECLARED UNIT

The declared unit is 100 m<sup>2</sup> of metal product.

## SYSTEM BOUNDARY

This EPD is a cradle-to-gate with options EPD, covering the life cycle stages indicated in Table 4.

TABLE 4  
Life Cycle Product Stages

| PRODUCTION STAGE<br>(MANDATORY)       |                      |               | CONSTRUCTION<br>STAGE |              | USE STAGE |             |        |             |               |                           |                          | END-OF-LIFE STAGE               |                                              |                  |                   | BENEFITS AND<br>LOADS BEYOND<br>SYSTEM<br>BOUNDARY |
|---------------------------------------|----------------------|---------------|-----------------------|--------------|-----------|-------------|--------|-------------|---------------|---------------------------|--------------------------|---------------------------------|----------------------------------------------|------------------|-------------------|----------------------------------------------------|
| Extraction and<br>upstream production | Transport to factory | Manufacturing | Transport to site     | Installation | Use       | Maintenance | Repair | Replacement | Refurbishment | Operational<br>Energy Use | Operational<br>Water use | De-construction /<br>Demolition | Transport to waste<br>processing or disposal | Waste processing | Disposal of waste | Reuse, Recovery,<br>Recycling Potential            |
| A1                                    | A2                   | A3            | A4                    | A5           | B1        | B2          | B3     | B4          | B5            | B6                        | B7                       | C1                              | C2                                           | C3               | C4                | D                                                  |
| X                                     | X                    | X             | X                     | X            | MND       | MND         | MND    | MND         | MND           | MND                       | MND                      | X                               | X                                            | X                | X                 | X                                                  |

NOTE: MND = module not declared; X = module included.

## CUT-OFF

Items excluded from system boundary include:

- production, manufacture and construction of manufacturing capital goods and infrastructure;
- production and manufacture of production equipment, delivery vehicles, and laboratory equipment;
- personnel-related activities (travel, furniture, and office supplies); and
- energy and water use related to company management and sales activities that may be located either within the factory site or at another location.

## ALLOCATION PROCEDURE

Allocation follows the requirements and guidance of ISO 14044:2006, Clause 4.3.4; and ISO 21930:2017 section 7.2. Recycling and recycled content is modeled using the cut-off rule.

## MANUFACTURING

### A1 – A3, Production Stage

#### Roll Form Panels

Roll forming process is a continuous process where metal passes through a series of precision-contouring rollers that gradually bend the metal into the desired shape. Pre-coated steel is received in coils with different gauges. The coil is unwound and cut to the desired size. The steel sheets are then passed through rollers that bend the metal into a specific profile. Upon request, a protective film is placed on the panel’s coated side. Panels are shipped in wood crates to ensure product integrity.

#### Flat Panels

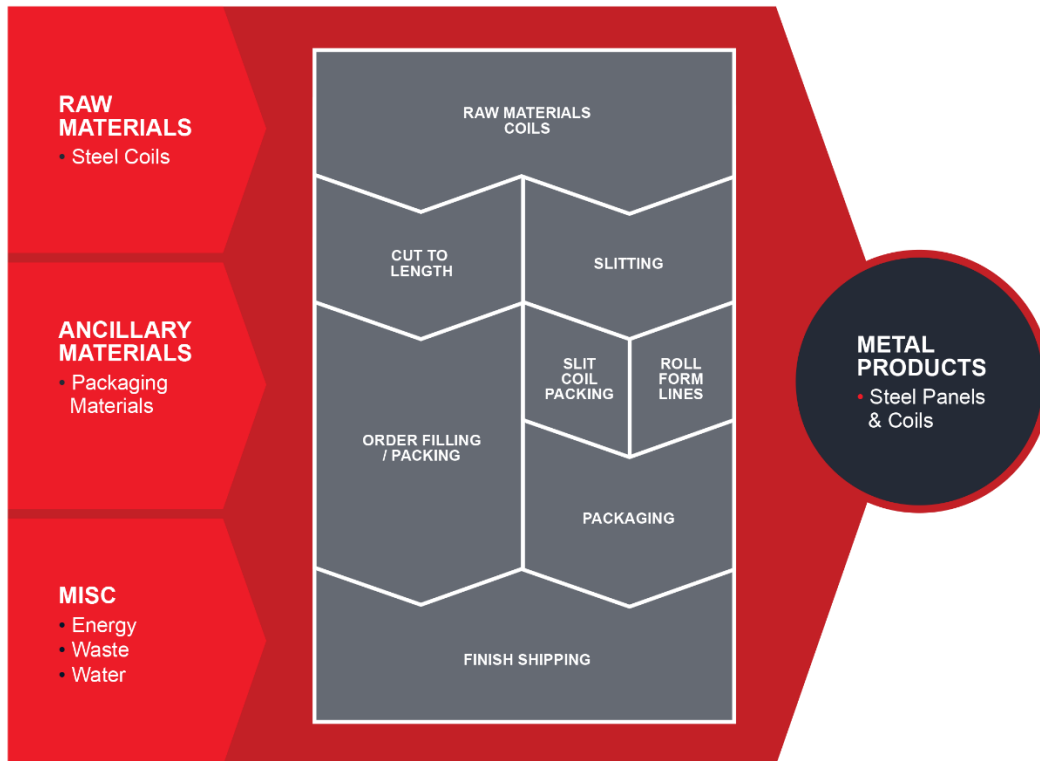
Pre-coated steel is received in coils. The coil is unwound and cut to the desired size. Panels are packaged on wood skids with edge boards. Edges, trim and flashing are cut and formed by the customer.

## Coils

Pre-coated steel is received in coils. The coil is unwound and cut to the desired width and length. The coil is wound onto a cardboard coil and placed on a pallet for shipment.

FIGURE 2

Process Flow Diagram of UNA-CLAD™ Steel Architectural Sheet & Coil



## A4, TRANSPORTATION

An average truck and transport distance from the plant to the construction site is assumed.

## A5, INSTALLATION

The installation scenario includes the energy and ancillary materials typically consumed to mechanically install steel metal panels on a standard-shaped roof of 20,000 square feet, with a total panel weight of 11,920 pounds.

## B1 – B7, USE STAGE

Use stage information modules have been omitted from this LCA study.

## C1 – C4, END-OF-LIFE STAGE

At the end of building service life and during product replacement, the metal panels may be recycled, reused, recovered and repurposed, or disposed. Steel is highly recyclable, therefore, 95% of product recyclability at the end-of-life was assumed. The remaining 5% was assumed to be disposed of in a landfill. Average distances for waste processing were considered.

## D, BENEFITS BEYOND BOUNDARY

A net scrap approach was taken to represent the benefits and impacts related to the potential steel recycling and raw material substitution.

# LIFE CYCLE ASSESSMENT RESULTS

TABLE 5: **UNA-CLAD™ Metal Roofing Panels and Coils - Steel**, per 100 m<sup>2</sup>

| IMPACT ASSESSMENT UNIT                                                                               | PRODUCTION (A1-A3) | TRANSPORT (A4) | INSTALLATION (A5) | DEMOLITION (C1) | TRANSPORT TO WASTE PROCESSING (C2) | DISPOSAL OF WASTE (C4) | BENEFITS BEYOND THE SYSTEM BOUNDARY (D) |
|------------------------------------------------------------------------------------------------------|--------------------|----------------|-------------------|-----------------|------------------------------------|------------------------|-----------------------------------------|
| Global warming potential (GWP) <sup>1</sup> (kg CO <sub>2</sub> eq)                                  |                    |                |                   |                 |                                    |                        |                                         |
| 22 gauge                                                                                             | 7.93E+02           | 1.95E-02       | 1.35E+01          | 1.23E+01        | 1.47E+00                           | 3.50E-01               | -5.69E+02                               |
| 24 gauge                                                                                             | 1.16E+03           | 2.85E-02       | 1.35E+01          | 1.80E+01        | 2.14E+00                           | 5.11E-01               | -8.30E+02                               |
| Depletion potential of the stratospheric ozone layer (ODP) (kg CFC-11 eq)                            |                    |                |                   |                 |                                    |                        |                                         |
| 22 gauge                                                                                             | 2.51E-05           | 8.15E-13       | 3.51E-07          | 1.96E-06        | 6.13E-11                           | 3.11E-08               | -1.02E-05                               |
| 24 gauge                                                                                             | 3.66E-05           | 1.19E-12       | 3.51E-07          | 2.86E-06        | 8.96E-11                           | 4.54E-08               | -1.49E-05                               |
| Eutrophication potential (EP) (kg N eq)                                                              |                    |                |                   |                 |                                    |                        |                                         |
| 22 gauge                                                                                             | 3.51E+00           | 1.50E-05       | 2.54E-02          | 1.33E-02        | 1.13E-03                           | 6.11E-04               | 1.22E+00                                |
| 24 gauge                                                                                             | 5.13E+00           | 2.19E-05       | 2.54E-02          | 1.94E-02        | 1.65E-03                           | 8.93E-04               | 1.78E+00                                |
| Acidification potential of soil and water sources (AP) (kg SO <sub>2</sub> eq)                       |                    |                |                   |                 |                                    |                        |                                         |
| 22 gauge                                                                                             | 4.15E+00           | 2.49E-04       | 2.62E-02          | 1.18E-01        | 1.88E-02                           | 2.98E-03               | -1.66E+00                               |
| 24 gauge                                                                                             | 6.06E+00           | 3.64E-04       | 2.62E-02          | 1.73E-01        | 2.74E-02                           | 4.35E-03               | -2.42E+00                               |
| Formation potential of tropospheric ozone (POCP) (kg O <sub>3</sub> eq)                              |                    |                |                   |                 |                                    |                        |                                         |
| 22 gauge                                                                                             | 6.49E+01           | 6.39E-03       | 5.31E-01          | 3.52E+00        | 4.81E-01                           | 4.50E-02               | -1.94E+01                               |
| 24 gauge                                                                                             | 9.48E+01           | 9.33E-03       | 5.31E-01          | 5.14E+00        | 7.02E-01                           | 6.58E-02               | -2.83E+01                               |
| Resource Use                                                                                         |                    |                |                   |                 |                                    |                        |                                         |
| Abiotic depletion potential for non-fossil mineral resources (ADP <sub>elements</sub> ) <sup>*</sup> |                    |                |                   |                 |                                    |                        |                                         |
| 22 gauge                                                                                             | 1.04E-06           | 0.00E+00       | 3.40E-06          | 2.46E-08        | 0.00E+00                           | 3.42E-07               | -7.77E-05                               |
| 24 gauge                                                                                             | 1.52E-06           | 0.00E+00       | 3.40E-06          | 3.60E-08        | 0.00E+00                           | 4.99E-07               | -1.13E-04                               |
| Abiotic depletion potential for fossil resources (ADP <sub>fossil</sub> ) (MJ, NCV)                  |                    |                |                   |                 |                                    |                        |                                         |
| 22 gauge                                                                                             | 2.35E+03           | 2.77E-01       | 4.68E+01          | 1.70E+02        | 2.08E+01                           | 4.03E+00               | -6.78E+03                               |
| 24 gauge                                                                                             | 3.43E+03           | 4.04E-01       | 4.68E+01          | 2.48E+02        | 3.04E+01                           | 5.89E+00               | -9.90E+03                               |
| Renewable primary energy resources as energy (fuel), (RPRE) <sup>2*</sup> (MJ, NCV)                  |                    |                |                   |                 |                                    |                        |                                         |
| 22 gauge                                                                                             | 4.03E+03           | 0.00E+00       | 9.43E-01          | 3.33E+00        | 0.00E+00                           | 1.31E-01               | -1.68E+02                               |
| 24 gauge                                                                                             | 5.89E+03           | 0.00E+00       | 9.43E-01          | 4.86E+00        | 0.00E+00                           | 1.91E-01               | -2.45E+02                               |
| Renewable primary resources as material, (RPRM) <sup>2*</sup> (MJ, NCV)                              |                    |                |                   |                 |                                    |                        |                                         |
| 22 gauge                                                                                             | 0.00E+00           | 0.00E+00       | 0.00E+00          | 0.00E+00        | 0.00E+00                           | 0.00E+00               | 0.00E+00                                |
| 24 gauge                                                                                             | 0.00E+00           | 0.00E+00       | 0.00E+00          | 0.00E+00        | 0.00E+00                           | 0.00E+00               | 0.00E+00                                |
| Non-renewable primary resources as energy (fuel), (NRPRE) <sup>2*</sup> (MJ, NCV)                    |                    |                |                   |                 |                                    |                        |                                         |
| 22 gauge                                                                                             | 1.10E+04           | 2.77E-01       | 4.67E+01          | 1.74E+02        | 2.08E+01                           | 4.73E+00               | -7.51E+03                               |
| 24 gauge                                                                                             | 1.60E+04           | 4.04E-01       | 4.67E+01          | 2.53E+02        | 3.04E+01                           | 6.91E+00               | -1.10E+04                               |
| Non-renewable primary resources as material, (NRPRM) <sup>2*</sup> (MJ, NCV)                         |                    |                |                   |                 |                                    |                        |                                         |
| 22 gauge                                                                                             | 0.00E+00           | 0.00E+00       | 0.00E+00          | 0.00E+00        | 0.00E+00                           | 0.00E+00               | 0.00E+00                                |
| 24 gauge                                                                                             | 0.00E+00           | 0.00E+00       | 0.00E+00          | 0.00E+00        | 0.00E+00                           | 0.00E+00               | 0.00E+00                                |
| Consumption of fresh water, (FW) <sup>2</sup> (m <sup>3</sup> )                                      |                    |                |                   |                 |                                    |                        |                                         |
| 22 gauge                                                                                             | 1.07E+01           | 0.00E+00       | 8.62E-02          | 4.35E-02        | 0.00E+00                           | 5.53E-03               | 2.74E+01                                |
| 24 gauge                                                                                             | 1.56E+01           | 0.00E+00       | 8.62E-02          | 6.36E-02        | 0.00E+00                           | 8.07E-03               | 4.01E+01                                |
| Secondary Material, Fuel and Recovered Energy                                                        |                    |                |                   |                 |                                    |                        |                                         |
| Secondary Materials, (SM) <sup>2*</sup> (kg)                                                         |                    |                |                   |                 |                                    |                        |                                         |
| 22 gauge                                                                                             | 0.00E+00           | 0.00E+00       | 0.00E+00          | 0.00E+00        | 0.00E+00                           | 0.00E+00               | 0.00E+00                                |
| 24 gauge                                                                                             | 0.00E+00           | 0.00E+00       | 0.00E+00          | 0.00E+00        | 0.00E+00                           | 0.00E+00               | 0.00E+00                                |
| Renewable secondary fuels, (RSF) <sup>2*</sup> (MJ, NCV)                                             |                    |                |                   |                 |                                    |                        |                                         |
| 22 gauge                                                                                             | 0.00E+00           | 0.00E+00       | 0.00E+00          | 0.00E+00        | 0.00E+00                           | 0.00E+00               | 0.00E+00                                |
| 24 gauge                                                                                             | 0.00E+00           | 0.00E+00       | 0.00E+00          | 0.00E+00        | 0.00E+00                           | 0.00E+00               | 0.00E+00                                |
| Non-renewable secondary fuels (NRSF) <sup>2*</sup> (MJ, NCV)                                         |                    |                |                   |                 |                                    |                        |                                         |
| 22 gauge                                                                                             | 0.00E+00           | 0.00E+00       | 0.00E+00          | 0.00E+00        | 0.00E+00                           | 0.00E+00               | 0.00E+00                                |
| 24 gauge                                                                                             | 0.00E+00           | 0.00E+00       | 0.00E+00          | 0.00E+00        | 0.00E+00                           | 0.00E+00               | 0.00E+00                                |
| Recovered energy, (RE) <sup>2*</sup> (MJ, NCV)                                                       |                    |                |                   |                 |                                    |                        |                                         |
| 22 gauge                                                                                             | 0.00E+00           | 0.00E+00       | 0.00E+00          | 0.00E+00        | 0.00E+00                           | 0.00E+00               | 0.00E+00                                |
| 24 gauge                                                                                             | 0.00E+00           | 0.00E+00       | 0.00E+00          | 0.00E+00        | 0.00E+00                           | 0.00E+00               | 0.00E+00                                |
| Waste & Output Flows                                                                                 |                    |                |                   |                 |                                    |                        |                                         |
| Hazardous waste disposed, (HW) <sup>2*</sup> (kg)                                                    |                    |                |                   |                 |                                    |                        |                                         |
| 22 gauge                                                                                             | 2.87E+00           | 0.00E+00       | 0.00E+00          | 0.00E+00        | 0.00E+00                           | 0.00E+00               | 0.00E+00                                |

<sup>1</sup> GWP 100; 100-year time horizon GWP factors are provided by the IPCC 2013 Fifth Assessment Report (AR5).

<sup>2</sup> Calculated per ACLCA ISO 21930 Guidance.

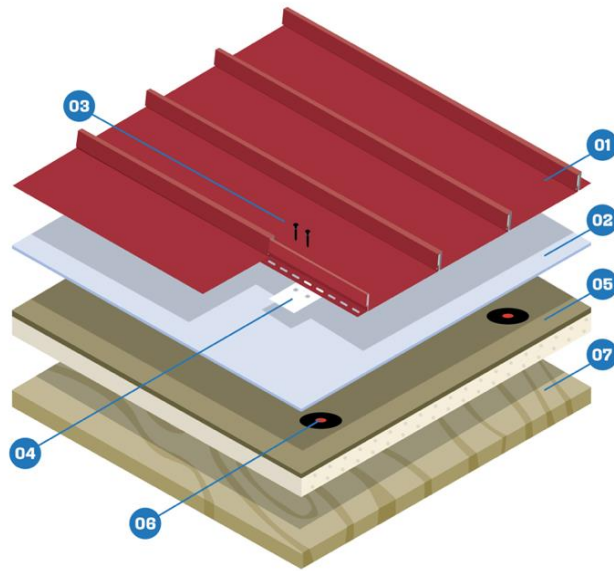
|                                                                                 |          |          |           |          |          |          |           |
|---------------------------------------------------------------------------------|----------|----------|-----------|----------|----------|----------|-----------|
| 24 gauge                                                                        | 4.18E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| Non-hazardous waste disposed, (NHWD) <sup>3*</sup> (kg)                         |          |          |           |          |          |          |           |
| 22 gauge                                                                        | 1.56E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00 | 1.46E+01 | 0.00E+00  |
| 24 gauge                                                                        | 2.28E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00 | 2.14E+01 | 0.00E+00  |
| High-level radioactive waste, (HLRW) <sup>3*</sup> (kg)                         |          |          |           |          |          |          |           |
| 22 gauge                                                                        | 1.64E-08 | 0.00E+00 | -1.10E-09 | 1.89E-09 | 0.00E+00 | 3.78E-10 | -2.92E-07 |
| 24 gauge                                                                        | 2.40E-08 | 0.00E+00 | -1.10E-09 | 2.76E-09 | 0.00E+00 | 5.52E-10 | -4.26E-07 |
| Intermediate and low-level radioactive waste, (ILLRW) <sup>3*</sup> (kg)        |          |          |           |          |          |          |           |
| 22 gauge                                                                        | 7.90E-08 | 0.00E+00 | -5.31E-09 | 9.11E-09 | 0.00E+00 | 1.82E-09 | -1.41E-06 |
| 24 gauge                                                                        | 1.15E-07 | 0.00E+00 | -5.31E-09 | 1.33E-08 | 0.00E+00 | 2.66E-09 | -2.05E-06 |
| Components for reuse, (CRU) <sup>3*</sup> (kg)                                  |          |          |           |          |          |          |           |
| 22 gauge                                                                        | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| 24 gauge                                                                        | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| Materials for recycling, (MR) <sup>3*</sup> (kg)                                |          |          |           |          |          |          |           |
| 22 gauge                                                                        | 1.56E+01 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| 24 gauge                                                                        | 2.28E+01 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| Materials for energy recovery, (MER) <sup>3*</sup> (kg)                         |          |          |           |          |          |          |           |
| 22 gauge                                                                        | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| 24 gauge                                                                        | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| Recovered energy exported from the product system, (EE) <sup>3*</sup> (MJ, NCV) |          |          |           |          |          |          |           |
| 22 gauge                                                                        | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| 24 gauge                                                                        | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |

*\*Emerging LCA impact categories and inventory items are still under development and can have high levels of uncertainty that preclude international acceptance pending further development. Use caution when interpreting data in these categories. The following optional indicators are not reported and also have high levels of uncertainty: Land use related impacts, toxicological aspects, and emissions from land use change*

*\*\*Only EPDs prepared from cradle-to-grave life-cycle results and based on the same function, quantified by the same functional unit, and taking account of replacement based on the product reference service life (RSL) relative to an assumed building service life, can be used to assist purchasers and users in making informed comparisons between products. When comparing EPDs created using this PCR, variations and deviations are possible. Example of variations: Different LCA software and background LCI datasets may lead to different results for upstream or downstream of the life cycle stages declared.*

<sup>3</sup> Calculated per ACLCA ISO 21930 Guidance.

## ADDITIONAL ENVIRONMENTAL INFORMATION



### Elevate Metal Roofing System

#### 1. Elevate Una-Clad Panel

- Elevate metals are fabricated from 79% post-consumer recycled scrap and 7% pre-consumer recycled scrap. Elevate metals reduce the need to mine raw materials by utilizing scrap waste.
- All Elevate metal products are recyclable at the end of the product life cycle.

#### 2. Elevate Clad-Gard Underlayment

#### 3. Elevate Fasteners with Nylon Washer

- Elevate metal fasteners contain up to 100% recycled content.

#### 4. Elevate UC Bearing Plate

#### 5. ISOGLARD GL or ISOGLARD CG Insulation – Mechanically Attached or Adhered

- All Elevate polyisocyanurate insulations use EPA accepted blowing agents. Elevate ISOGLARD GL and ISOGLARD CG insulation incorporates a HCFC-free blowing agent that does not contribute to the depletion of the ozone layer (ODP-free).
- The thermal performance of ISOGLARD polyiso insulation is up to 40% better than major competitors when tested by an independent third party in cold temperature 40°F (4°C) applications according to ASTM C1289 standards. The increased R-value per inch means better thermal performance from the same roofing systems using the same amount of insulation compared to leading competitive products on the market today.

#### 6. Elevate Metal Plates and Fasteners

- Elevate metal plates contain a minimum of 25% recycled content.

#### 7. Roof Deck

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