

## Frequently Asked Questions

### LEED, EPD and HPD

#### Sustainability Acronyms

LEED	Leadership in Energy and Environmental Design
EPD	Environmental Product Declaration
HPD	Health Product Declaration
HPDC	Health Product Declaration Collaborative
LCA	Life Cycle Assessment
MRC	Material and Resources credit
USGBC	United States Green Building Council
UL	Underwriters Laboratories
IgCC	International Green Construction Code
AEC	Architects, Engineers and Contractors

#### What is Sustainability?

- Requires that the current population meet their needs in such a way as to not compromise the ability of future generations to meet their own needs
- Specifically to Superior Essex, we constantly strive to minimize environmental impacts and maintain standards of social responsibility and connections with local communities

#### What is LEED?

- Leadership in Energy and Environmental Design (LEED)
- A set of rating systems for the design, construction, operation, and maintenance of green buildings, homes and neighborhoods
  - » Current version is LEED v4 Reference Guide for Building Design and Construction (800+ page document)
  - » All previous versions excluded communication cabling from contributing to LEED points

#### Are all LEED certifications the same?

- Certifications are voluntary based on the number of points earned in the system
- Four (4) levels of certification
  - » Certified (40-49 pts)
  - » Silver (50-59 pts)
  - » Gold (60-79 pts)
  - » Platinum (80+ pts)

## What is an LCA?

- Life Cycle Assessment (LCA)
- Comprised of four phases: goal and scope definition, life cycle inventory, life cycle impact assessment, and interpretation
- A study used to quantify and understand the environmental impacts throughout the life cycle of a product and requires an understanding of all inputs and outputs
- Conducted per ISO-14040/44 standards

## What is an EPD?

- Environmental Product Declaration (EPD)
- A source of transparent, scientifically-based information which discloses the full environmental impact of a product or product family
- Underwriters Laboratories (UL) Environment is one of several program operators that certify and publish EPDs
- Published on UL Environment website and Superior Essex website

## What is an HPD?

- Health Product Declaration™ (HPD™)
- A report of product contents and each ingredient's relationship to human and ecological health
- Products are categorized by their material composition
- Supports accurate supply chain disclosure and helps building designers, specifiers, owners and users make informed decisions about the products they select
- Report is conducted by third party consultant and is a self-published document
- Published on Superior Essex website and in HPD databases

## What products are included in the EPDs and HPDs?

The following premises copper cable products are covered by EPDs and HPDs:

- 10Gain® XP Category 6A
- 10Gain Category 6A
- Category 6A STP (U/FTP)
- Category 6A ScTP (F/UTP)
- Category 6A
- NextGain® Category 6eX
- DataGain® Category 6+
- Category 6+ ScTP (F/UTP)
- Category 6
- Category 6 with FEP CMP
- Cobra Category 5e+
- Category 5e+ ScTP (F/UTP)
- Marathon LAN® Category 5e

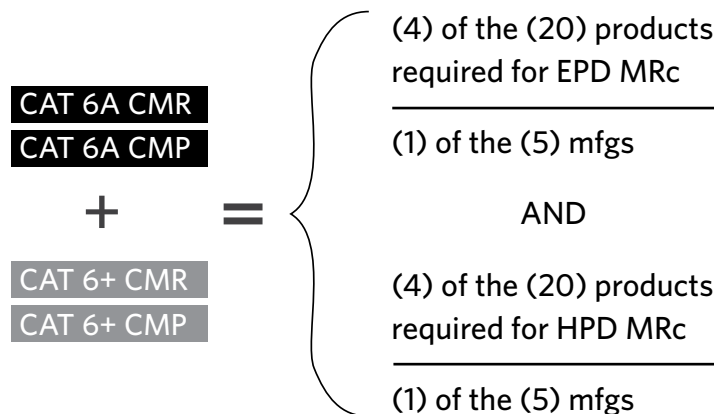
The following premises fiber cable products are covered by EPDs:

- Simplex, Duplex and Quad Interconnect OFNR/OFNP
- Microarray Data Center Interconnect OFNR/OFNP
- 2 mm Microarray Breakout OFNP
- 2 mm Interlock Armored, Microarray Breakout OFCP
- 3 mm Microarray Breakout OFNR/OFNP
- 3 mm Interlock Armored, Microarray Breakout OFCR/OFCP
- Breakout OFNR
- Single Unit Distribution OFNR/OFNP
- Multi-Unit Distribution OFNR/OFNP
- Compact and Rugged Indoor MDU OFNR
- Rugged Indoor/Outdoor MDU OFNR
- Indoor/Outdoor Sunlight Resistant OFNP
- Dry Block, Sunlight Resistant, Indoor/Outdoor OFNR/ OFNP
- Hybrid Premises Fiber OFNR/OFNP

- Interlock Armored, Tight Buffer OFCR/OFCP

## How can EPDs/HPDs help with LEED projects?

- LEED v4 projects can earn points for using products supported with EPDs and HPDs
- Products covered by EPDs/HPDs can contribute to one (1) point in the Material and Resources credit category
- To earn one (1) point, building project teams must use at least twenty (20) products from at least five (5) manufacturers which have EPDs



## Is an HPD important for different types of buildings compared to an EPD?

NO, both contribute to LEED and together can help contribute to two (2) separate points in the Materials and Resources credit category

## How do I apply for EPD/HPD points?

- Engage the design team during a building project's kick-off meeting to let them know which products can contribute toward points with an EPD and/or HPD
- Specify products that have a published EPD and/or HPD and transfer the EPD/HPD documentation to the design team leader

## Where do I find the EPD and HPD credit opportunities within the LEED v4 Reference Guide for Building Design and Construction?

- EPD information can be found in the Materials and Resources Credit; Building Product Disclosure and Optimization — Environmental Product Declarations: Option 1. Environmental Product Declaration (EPD)
- HPD Information can be found in the Materials and Resources Credit; Building Product Disclosure and Optimization — Material Ingredients: Option 1. Material Ingredient Reporting

## How can the EPDs/HPDs help with green building projects that are not LEED Certified?

- Building owners who would like to use sustainable products can take advantage of EPD/HPD products, even if they are not seeking LEED certification
- EPDs are becoming more widely recognized in green buildings systems
- Some Architects, Engineers and Contracting (AEC) firms are now requiring products that have EPDs and HPDs on their projects even if they are not going for LEED certification
- The International Green Construction Code (IgCC) 2015 standard has adopted EPDs as a compliance requirement
- The IgCC code has been adopted in whole or in part by several municipalities and states as mandatory or voluntary, but it is expected to grow in use and influence

## How are Superior Essex environmental policies and claims verified?

- All results included in the EPD have been developed by an independent consultant and critically reviewed by a third party, UL Environment
- EPDs were confirmed to meet ISO 14025 and ISO 21930 standards, and conform to the Product Category Rule for disclosure of Life Cycle Assessment (LCA) information for cable and wire products
- Life Cycle Assessment (LCA) was confirmed to meet ISO 14040 and 14044 standards
- The Hoisington, KS facility's waste diversion program has been third-party audited and certified by GreenCircle Certified, LLC

## What is the significance of Superior Essex performing a Life Cycle Assessment?

- Compiling an LCA proves the commitment Superior Essex has made to internal product stewardship initiatives
- The LCA assists Superior Essex designers and engineers with improving the environmental performance of a product beginning at inception
- Demonstrates dedication to transparency in exposing environmental and health aspects
- Allows Superior Essex to continue leading the cabling industry in forward-thinking sustainability

## Where do I get the EPD and HPD information?

Superior Essex Environmental Page: [ce.superioressex.com/enviro](http://ce.superioressex.com/enviro)