

# EPDs Interpretation and Use in Building LCA

Pat Hermon





# EPD Motivations



- Contractual Requirement (Government, Infrastructure etc)
- BREEAM/LEED
- Marketing
- Product development
- **IMPROVE BUILDING PERFORMANCE**





# How we produce an LCA


Data Collection Form





# Types of EPD

## Generic (Trade Association)


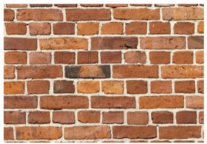


**Statement of Verification**  
BREG EN EPD No.: 000002 Issue 4  
ECO EPD Ref. No. 000092  
This is to verify that the  
**Environmental Product Declaration**  
provided by:  
The Brick Development Association

is in accordance with the requirements of:  
EN 15804:2012+A1:2013  
and  
BRE Global Scheme Document SD207

This declaration is for:  
BDA Generic Brick

**Company Address**  
The Building Centre  
26 Store Street  
London  
WC1E 7BT



Stage 2-4

## Product (Manufacturer)



**Environmental Product Declaration**  
BREG EN EPD No.: 000059 Issue: 01  
ECO EPD Ref. No.: 000181

This is to certify that this verified Environmental Product Declaration provided by  
**Knauf Insulation (Northern Europe)**

is in accordance with the requirements of:  
EN 15804:2012+A1:2013

This declaration is for:  
**Glass Mineral Wool Insulation with ECOSE® Technology (040 - 046 W/mK)**

**Company Address**  
Stafford Road  
St. Helens  
Malmeside  
WA10 3NS



*D. Hughes* Derek Hughes 21 May 2015  
Signed for BRE Global Ltd Operator Date of the Issue

Stage 2 (Design recommendations)  
Stage 4 / 5 (Design Specification)

## Systems (Manufacturer)



**Statement of Verification**  
BREG EN EPD No.: 000165 Issue 1  
ECO EPD Ref. No. 000528  
This is to verify that the  
**Environmental Product Declaration**  
provided by:  
**Kingspan Limited**

is in accordance with the requirements of:  
EN 15804:2012+A1:2013  
and  
BRE Global Scheme Document SD207

This declaration is for:  
**KS1100 AB/CS Quadcore insulated panel**

**Company Address**  
Greenfield Business Park No.2  
Holywell  
Flintshire  
CH8 7GJ





# EPD Life-Cycle-Assessment



<https://www.greenbooklive.com/pdfdocs/en15804epd/BREGENEPD000143.pdf>



# Using EPDs



		A1A3	A4	A5	B4 Replacement	C1	C2	C3	C4	Total
		Product Stage	Transport	Construction	Use	Demolition	Transport of Waste	Waste processing	Disposal	
Tool default values	IMPACT	2170.6	43.6	0	2214.75	User Entry	0	MNA	0.5	442
	LCA Tool Default	1867	129.6	5.2	2002.45	User Entry	102.9	MNA	1.4	410
EPD	EPD Arcelor	2580	68.4	324	0	2.1	0.1	0	0.3	297
	EPD NLMK	653	74	0	MNA	3.8	7	2.5	4.1	74
	EPD Alpa	282	16.1	30.6	0	2.1	38.9	0	1.3	37

Comparable?...



# 3rd Party Verification

- Mandatory for all published EPDs



3rd Party Checks (ISO 14025, EN 15804)

- Geographical
- Temporal
- Technological
- Completeness





# Network of learning



ECO  
PLATFORM

bre

EPD quality continually improving.

As more data gets used and compared we interrogate it further and improve its quality collectively.

As more reviewers share their knowledge, consistency improves through updates to standards and PCRs



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