



אז מה עושים עכשיו?

שי בן אהרון – ראש מחלקת תעשייה וחברות

KVS



17

...

Team

4

...

Stages

747

...

Tons CO2 avoided
in 2021

16.2

...

Tons CO2 – Our
emissions in 2021



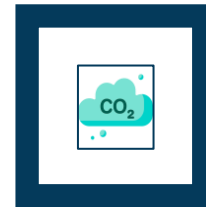
2
...
Reduce

1
...
Calculate



4
...
Educate /
Communicate

3
...
Capture





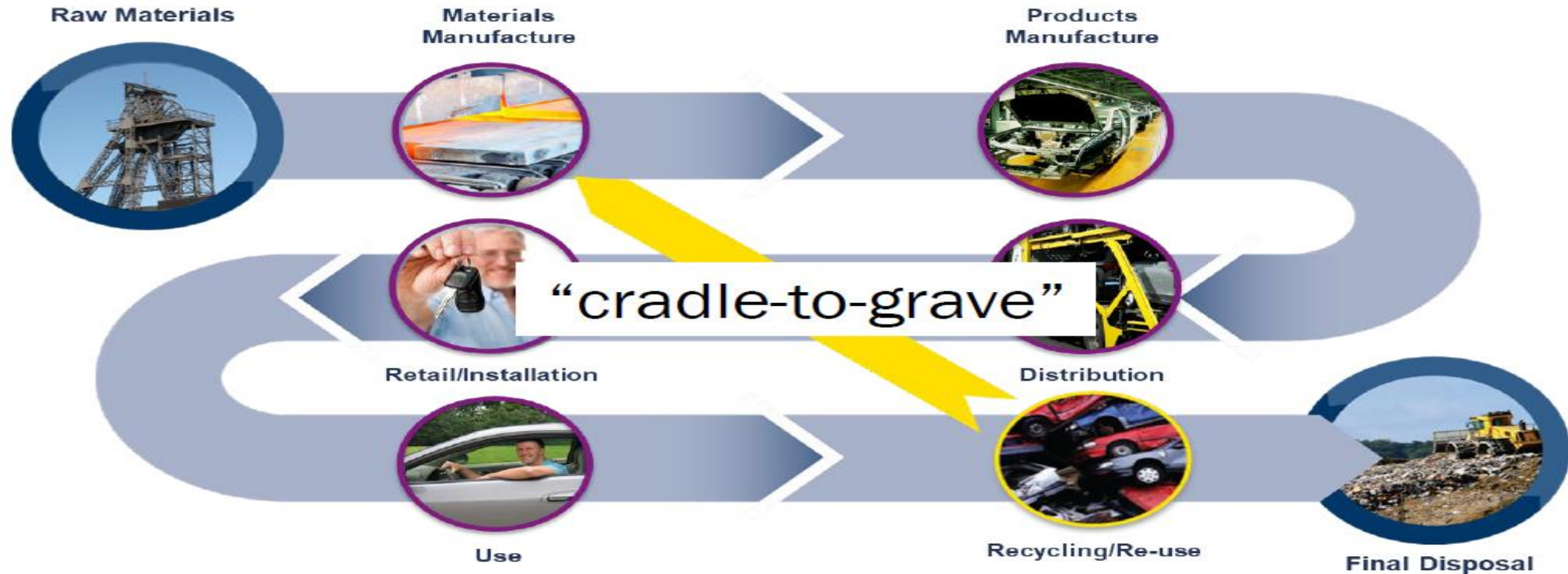
Agenda

- LCA vs. EPD
- תהליך הליווי להכנת LCA ו-EPD
- כיצד היועצים בוחנים מוצרים לפרויקט



LCA – Life Cycle Assessment

Life Cycle = Process, in addition to the present we examine what happened in the past and what will happen in the future





LCA – Life Cycle Assessment

Assessment = of what?

Social

Hot spot
analysis

Environmental

Economical
LCC

Circular
economy



EPD – Environmental Product Declaration

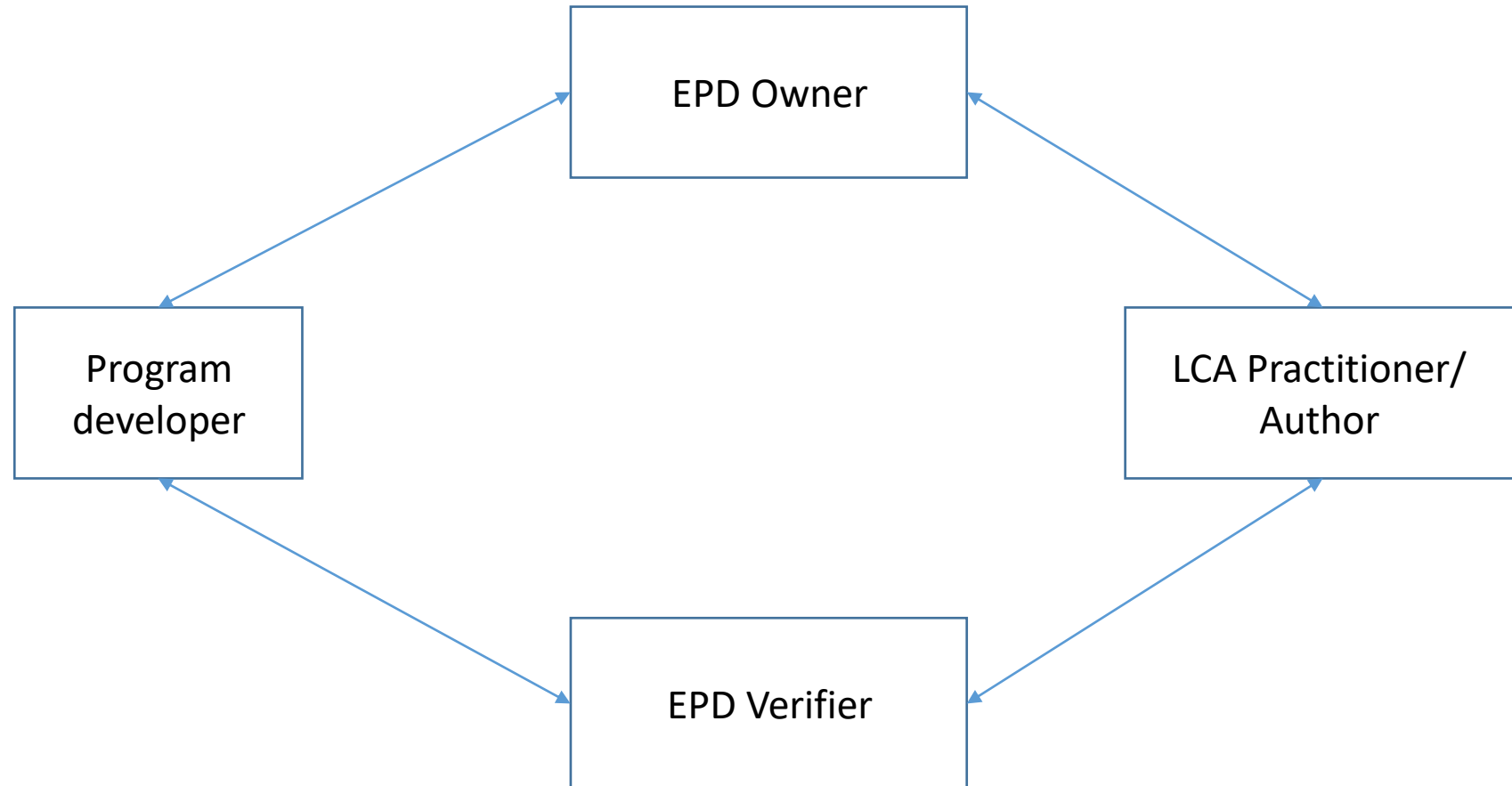
- ISO 14024 Type I – Environmental labeling
- ISO 14021 Type II – Self-declared environmental claims
- ISO 14025 Type III – Environmental declarations (EPD)

EPD

Transparently reports **objective, comparable** and **third-party verified data** about products and services' environmental performances from a **lifecycle** perspective.



EPD – Environmental Product Declaration





LCA vs. EPD

LCA – Life Cycle Assessment

- מבוסס על תקני ISO 14040/44
- מנחה כיצד לבצע מחקר ניתוח מחזור חיים

EPD – Environmental Product Declaration

- מבוסס על תקן ISO 14025
- מנחה כיצד לפרסם הצהרה סביבתית (Type III)



תהליך הליווי להכנת LCA ו-EPD

- לימוד החברה והכוונה לשירות המתאים ביותר
- סיור והיכרות עם החברה והמוצרים
- איסוף וניתוח נתונים
- חישוב ההשפעות הסביבתיות
- ניתוח התוצאות
- הצגת התוצאות מסקנות והמלצות לפעולות קדימה
- אימות ע"י גוף שלישי מוסמך
- פרסום ושיווק התוצאות



כיצד היועצים בוחרים מוצרים לפרויקט?

היכרות עם המוצר

COD. 700.144

BOEROHP SATINATO

A+ HIGH PERFORMANCE WATER-BASED SATIN ENAMEL

Single-component polyurethane satin enamel with high surface hardness and resistance to weathering, grease, hand marks and scratching. Totally resistant to blocking. With exceptional hiding power, it stands out for its excellent elasticity and flow. Odourless. With "A+" IAQ INDOOR AIR QUALITY certification.

Intended use

For interiors and exteriors

Substrates

Wood, metal, masonry, aluminium, PVC, galvanised sheet, metal alloys

S-P-01823 EPD®
environdec.com



- EXCELLENT SURFACE HARDNESS
- BARRIER EFFECT AGAINST GREASE AND DIRT

COD. 700.145

BOEROHP OPACO

A+ HIGH PERFORMANCE WATER-BASED MATT ENAMEL

Single-component polyurethane matt enamel with high surface hardness and resistance to weathering, grease, hand marks and scratching. Totally resistant to blocking. With exceptional hiding power, it stands out for its excellent elasticity and flow. Odourless. With "A+" IAQ INDOOR AIR QUALITY certification.

Intended use

For interiors and exteriors

Substrates

Wood, metal, masonry, aluminium, PVC, galvanised sheet, metal alloys

S-P-01823 EPD®
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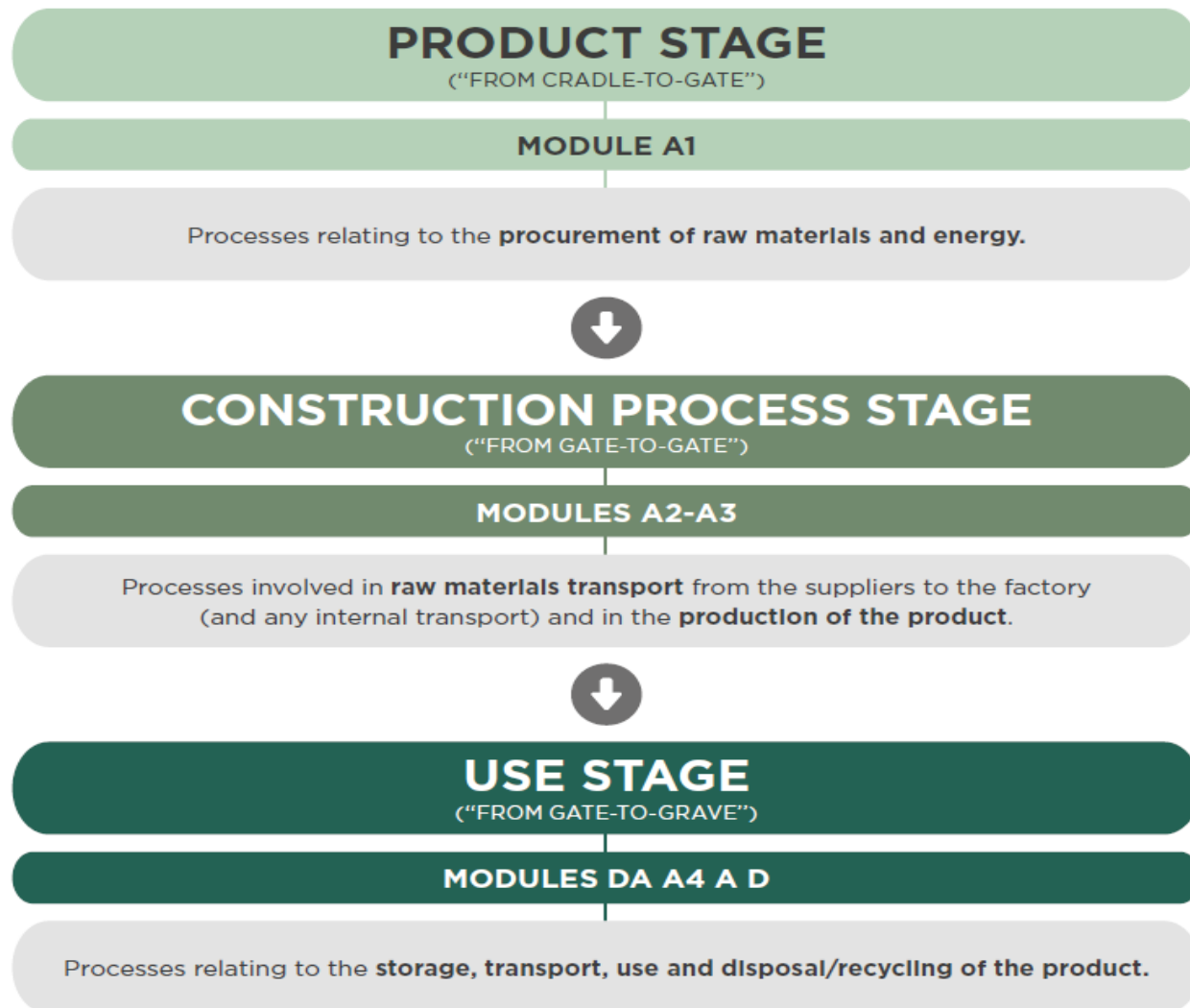


- EXCELLENT SURFACE HARDNESS
- BARRIER EFFECT AGAINST GREASE AND DIRT



כיצד היועצים בוחנים מוצרים לפרויקט?

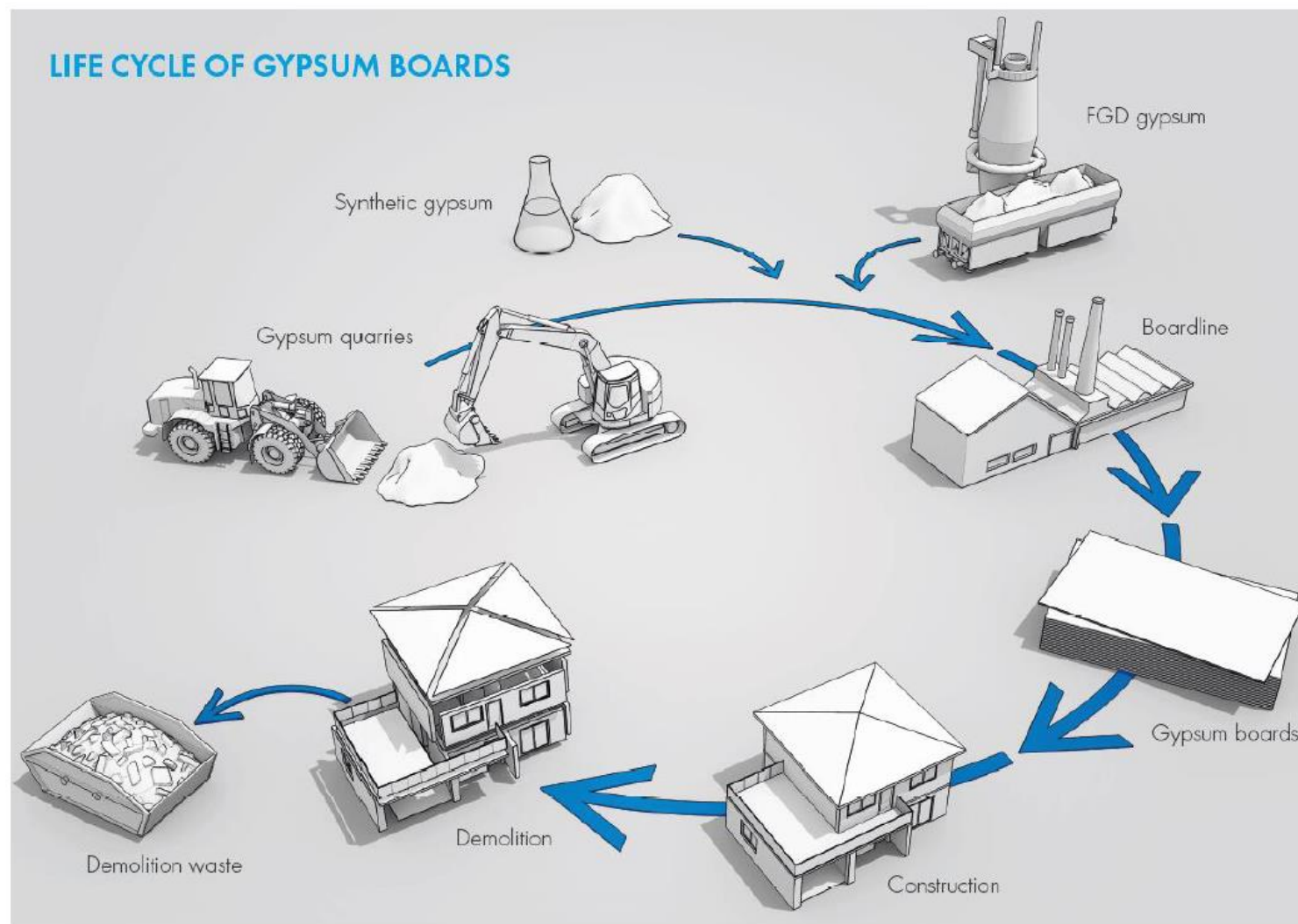
היקף (Scope) המחקר





כיצד היועצים בוחרים מוצרים לפרויקט?

תהליך הייצור





כיצד היועצים בוחנים מוצרים לפרויקט?

תוצאות – השפעות סביבתיות



USE OF RESOURCES

PRIMARY ENERGY RESOURCES - RENEWABLE						
PARAMETER	UNIT	A1	A2	A3	A4	TOTAL
Use as energy carrier	MJ, net calorific value	10.557	0.016	0.006	0.013	10.592
Use as raw materials	MJ, net calorific value	4.418	0.004	0.003	0.003	4.429
TOTAL	MJ, net calorific value	14.975	0.020	0.010	0.016	15.021

PRIMARY ENERGY RESOURCES - NON-RENEWABLE						
PARAMETER	UNIT	A1	A2	A3	A4	TOTAL
Use as energy carrier	MJ, net calorific value	45.040	1.084	0.081	1.245	47.450
Use as raw materials	MJ, net calorific value	0.053	0.003	0.001	0.003	0.060
TOTAL	MJ, net calorific value	45.093	1.087	0.082	1.248	47.510



כיצד היועצים בוחנים מוצרים לפרויקט?

תוצאות – השפעות סביבתיות

		POLLUTANT EMISSIONS					
PARAMETER		UNIT	A1	A2	A3	A4	TOTAL
Global Warming Potential (GWP)	Fossil	kg CO ₂ eq	2.542	0.067	0.061	0.076	2.747
	Biogenic	kg CO ₂ eq	0.466	0.000	0.000	0.000	0.467
	Land use	kg CO ₂ eq	0.003	0.000	0.000	0.000	0.003
	TOTAL	kg CO₂ eq	3.011	0.067	0.062	0.077	3.216
Total GWP (without biogenic CO ₂)		kg CO ₂ eq	2.550	0.067	0.061	0.076	2.755
Acidification Potential (AP)		kg SO ₂ eq	0.030	0.000	0.000	0.000	0.031
Acidification Potential (AP)		mol H ⁺ eq	0.031	0.000	0.000	0.000	0.032
Eutrophication aquatic freshwater (EP-freshwater)		kg PO ₄ ³⁻ eq	0.006	0.000	0.000	0.000	0.007
Eutrophication aquatic marine (EP-marine)		kg N eq	0.005	0.000	0.000	0.000	0.005
Eutrophication terrestrial (EP)		mol N eq	0.037	0.001	0.000	0.001	0.040
Ozone depletion (ODP)		kg CFC-11 eq	2.44•10 ⁻⁷	1.21•10 ⁻⁸	7.30•10 ⁻¹⁰	1.41•10 ⁻⁸	2.71•10 ⁻⁷



כיצד היועצים בוחנים מוצרים לפרויקט?

תקפות הנתונים, גוף מאמת וכו'

EN 15804 STANDARD USED AS CORE PCR

PCR	PCR 2019:14 Version 1.0 - Construction products
PCR REVIEW BY	International EPD® System Technical Committee: info@environdec.com
INDEPENDENT VERIFICATION OF THE DECLARATION AND DATA PERFORMED IN ACCORDANCE WITH ISO 14025	EPD® verification
THIRD-PARTY AUDITOR	Guido Croce. Approved by: The International EPD® System Technical Committee, supported by the Secretariat
THE DATA FOLLOW-UP PROCEDURE DURING THE PERIOD OF VALIDITY OF THE EPD® INVOLVES VERIFICATION BY A THIRD PARTY	Yes



תודה

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