



ISOVER Y DAPS

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SAINT-GOBAIN ISOVER



DATOS PRINCIPALES

Con más de
353 años

Presente en **67**
Países

170.000
empleados de
98 nacionalidades

Cerca de **4.100**
puntos de venta

Cerca del
80% de la
facturación
proviene del mercado
hábitat: construcción
nueva, rehabilitación y
reforma,
infraestructuras e
ingeniería civil

Cifra de negocio
2017
40,8k M€

Uno de los
primeros **100** grupos
industriales del mundo
con cerca de **950** centros de
producción



14 DELEGACIONES GENERALES





113 AÑOS EN ESPAÑA



31

CENTROS
PRODUCTIVOS



4.76

0

TRABAJADORES



1.093

M€

FACTURACIÓN

3 SECTORES EN SAINT-GOBAIN

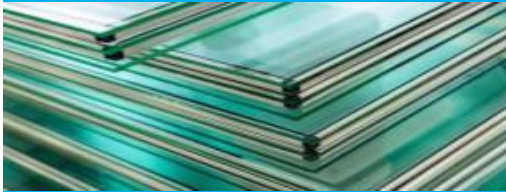
MATERIALES INNOVADORES

VIDRIO

SAINT-GOBAIN BUILDING GLASS
SAINT-GOBAIN SEKURIT
SAINT-GOBAIN AUTOVER

HIGH-PERFORMANCE MATERIALS

SAINT-GOBAIN ABRASIVOS
INCUSA



PRODUCTOS PARA LA CONSTRUCCIÓN

SAINT-GOBAIN PLACO
SAINT-GOBAIN ISOVER
SAINT-GOBAIN WEBER
SAINT-GOBAIN PAM



DISTRIBUCIÓN

DISCESUR
DISTRIPAC
LA PLATAFORMA DE LA
CONSTRUCCIÓN
SANIGRIF
SANIPLAST



PRODUCTOS PARA CONSTRUCCIÓN

PRINCIPALES MARCAS

AISLAMIENTO



MORTEROS Y RENDERS



SOLUCIONES EN YESO



SISTEMAS COMPLETOS DE CANALIZACIÓN



TECHOS ACÚSTICOS



PRODUCTOS Y PROYECTOS DE ARQUITECTURA



2015 – Italia

Panales de lana de vidrio para aislar las fachadas del Bosco Verticale en Milan.

TOPAZ

Sistema completo de canalización en fundición dúctil de Saint-Gobain PAM, para las redes de recogida de aguas residuales.



HABITO

Placa de yeso que permite que los objetos se fijen fácilmente a la pared, con una resistencia inigualable al peso y a los golpes.



weber.epox easy

Adhesivo para baldosas cerámicas

LA DIVISIÓN DE AISLAMIENTO DEL GRUPO SAINT GOBAIN

PROPORCIONANDO SOLUCIONES DE AISLAMIENTO DESDE HACE MÁS
DE 50 AÑOS.



Azuquerra de Henares, Guadalajara

LA ACTIVIDAD DE AISLAMIENTO DEL GRUPO
SAINT-GOBAIN. ISOVER CREA SOLUCIONES
EFICACES DE AISLAMIENTO TÉRMICO Y
ACÚSTICO PARA PROPORCIONAR A SUS
USUARIOS UN BIENESTAR SEGURO Y
AYUDAR A PROTEGER EL MEDIO AMBIENTE.





STRATEGY OF SAINT-GOBAIN ISOVER

A CLEAR AMBITION ON THE SUSTAINABLE CONSTRUCTION MARKET

Sustainability is a major trend in the construction sector worldwide. It will generate great business opportunities for Saint-Gobain. This is why it is at the heart of our new Saint-Gobain brand promise: to be a key ingredient in the wellbeing of each of us and the future of all.



Pierre-André de CHALENDAR

CEO

2017

MAIN SAINT-GOBAIN EHS OBJECTIVES FOR 2025



RAW MATERIALS AND WASTE

- REDUCE NON-RECOVERED WASTE BY 50% (BASE 2010),
- LONG-TERM OBJECTIVE: ZERO



ENERGY, ATMOSPHERIC EMISSIONS AND CLIMATE CHANGE

- ENERGY CONSUMPTION: -15% (2010-2025)
- TOTAL CO₂ EMISSIONS: -20% (2010-2025)
- EMISSIONS OF NO_x, SO₂, AND DUST: -20% FOR EACH EMISSIONS CATEGORY (2010-2025)



WATER

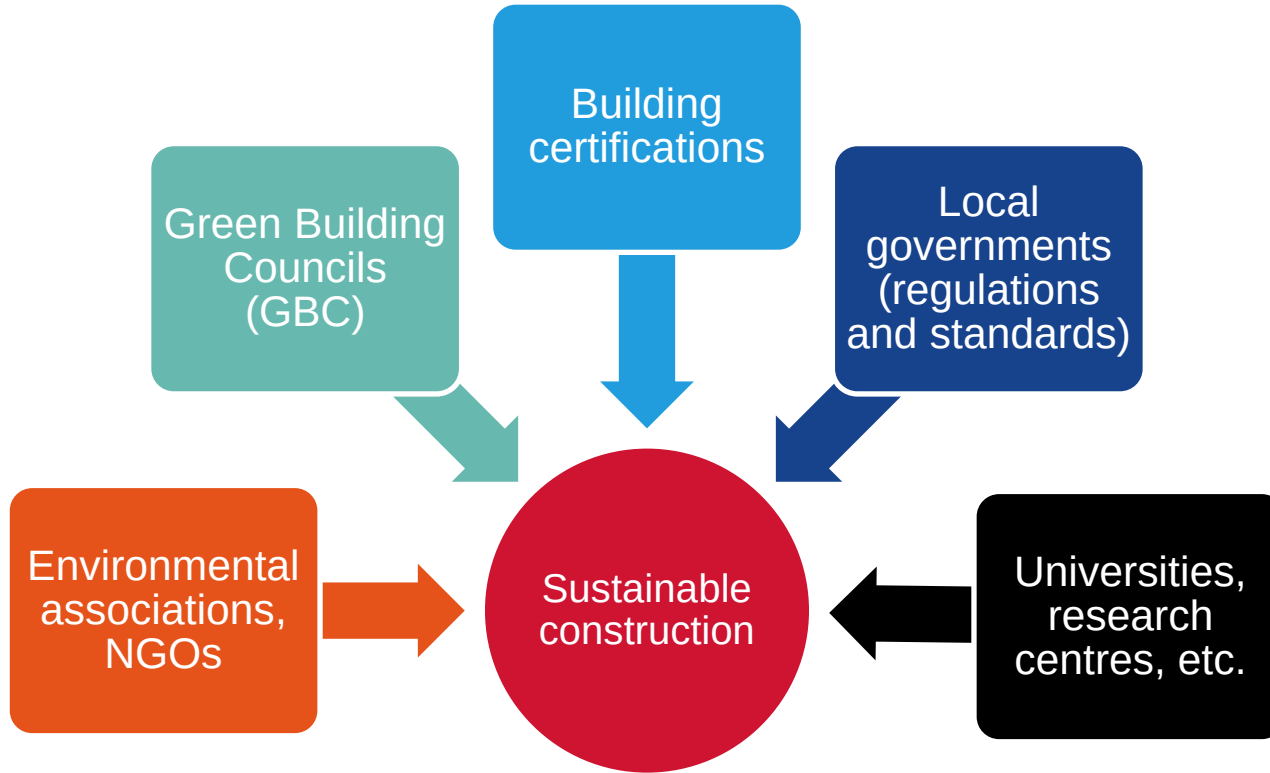
- REDUCE INDUSTRIAL EFFLUENT BY 80% (BASE 2010),
- LONG-TERM OBJECTIVE: ZERO.



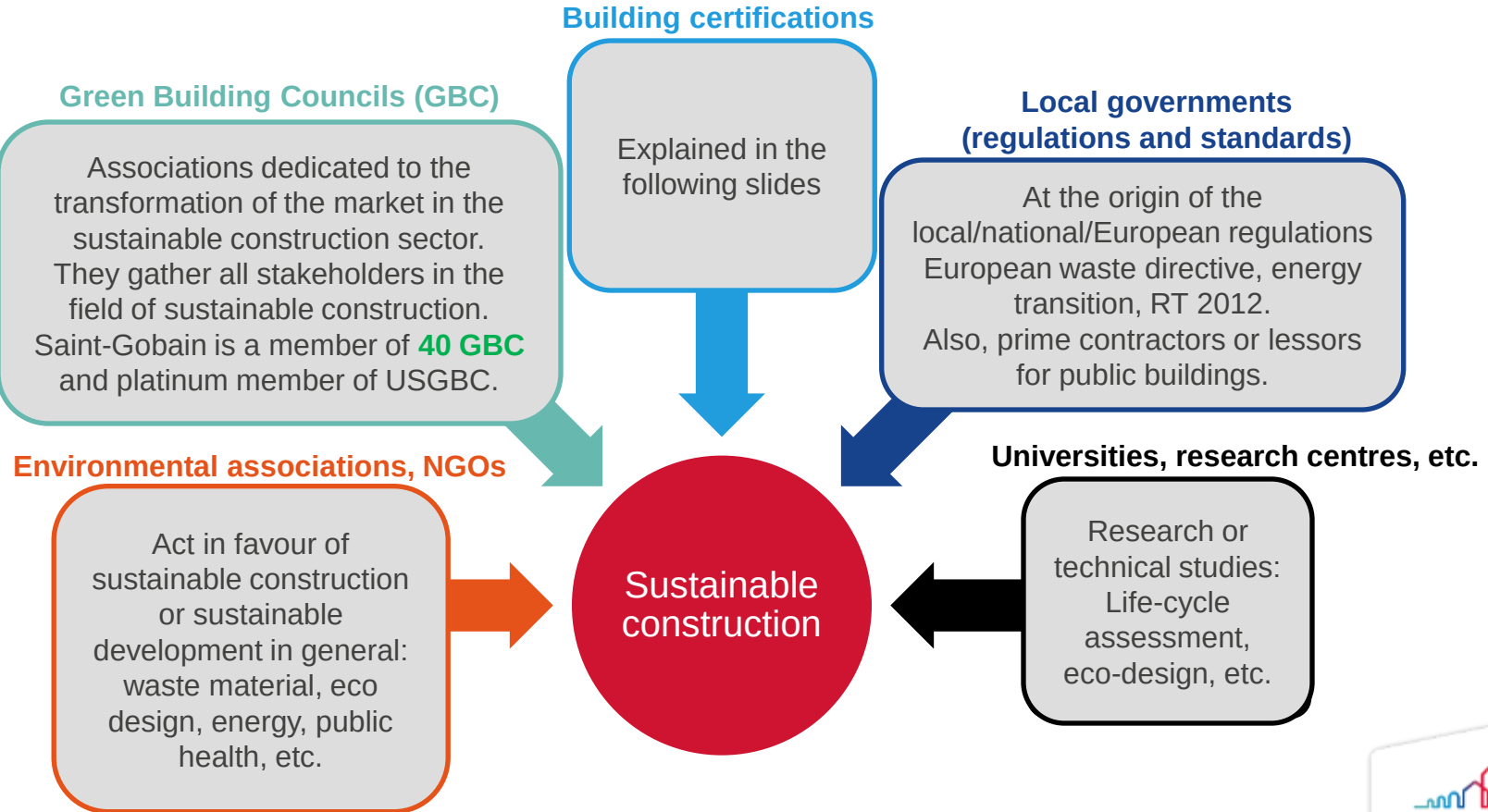
BIODIVERSITY

CARRY OUT LOCAL BIODIVERSITY STUDIES FOR NEW SITES AND QUARRIES AND RESTORE SITES AND QUARRIES IN COOPERATION WITH STAKEHOLDERS, TAKING LOCAL BIODIVERSITY INTO ACCOUNT.

SUSTAINABLE CONSTRUCTION STAKEHOLDERS



SUSTAINABLE CONSTRUCTION: STAKEHOLDERS



SAINT-GOBAIN SUSTAINABLE DEVELOPMENT/CSR APPROACH

Stakeholders expectations

6 CSR priorities

- **Climate change**
- Diversity
- **Health & safety**
- Responsible business practice
- **Circular economy**
- Local value creation

Sustainable Habitat roadmap



1.
DEVELOP THE MARKET
FOR SUSTAINABLE
BUILDING SOLUTIONS

ADVOCATE FOR
SUSTAINABLE
CONSTRUCTION



2.
INCREASE
SAINT-GOBAIN'S
MARKET SHARE

DEVELOP
& DISTRIBUTE
SUSTAINABLE
SOLUTIONS

5 policies

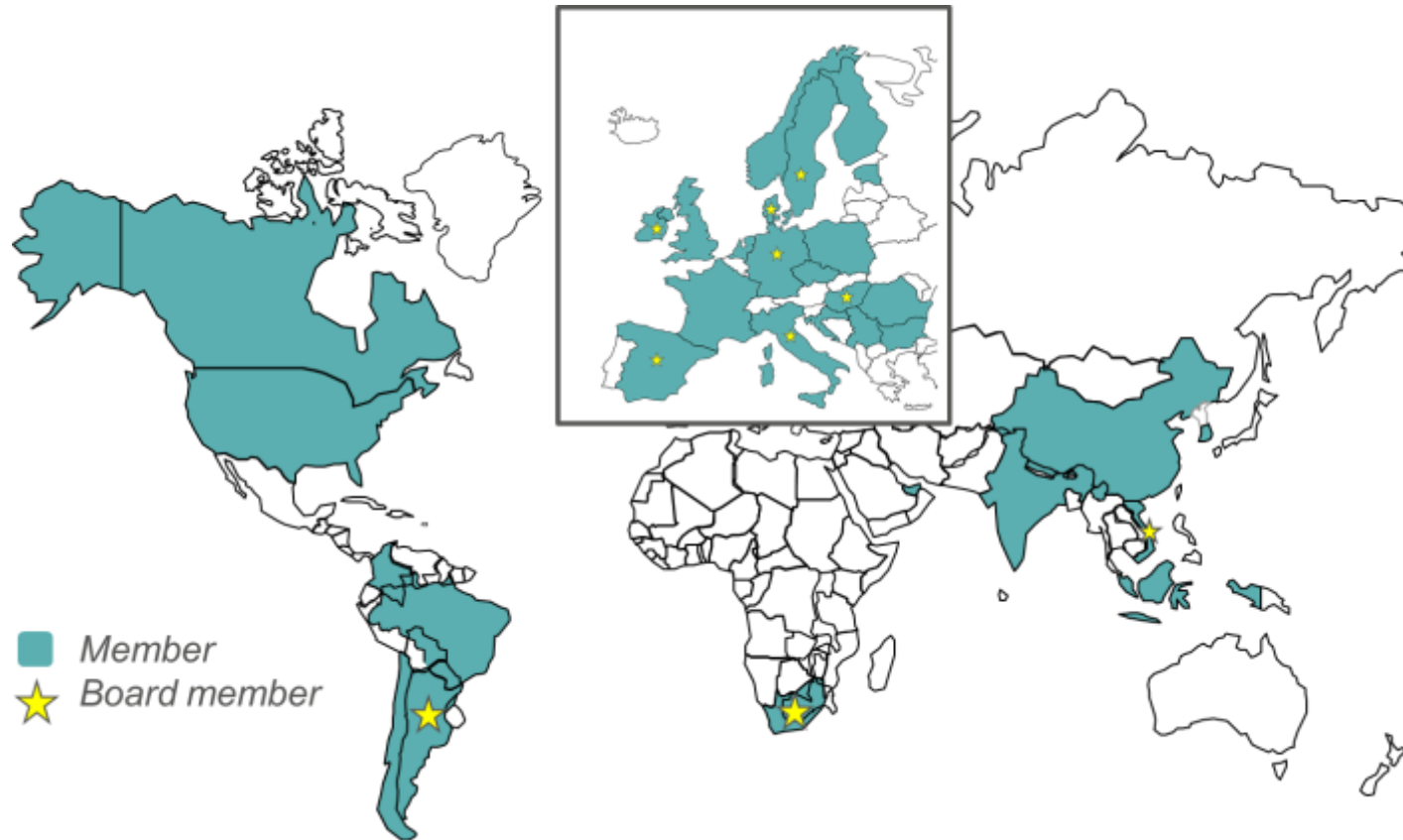
- **Energy & carbon**
- **Water**
- **Resources**
- **Health**
- Biodiversity



*One of the 5 roadmaps to
reach the 6 CSR priorities*

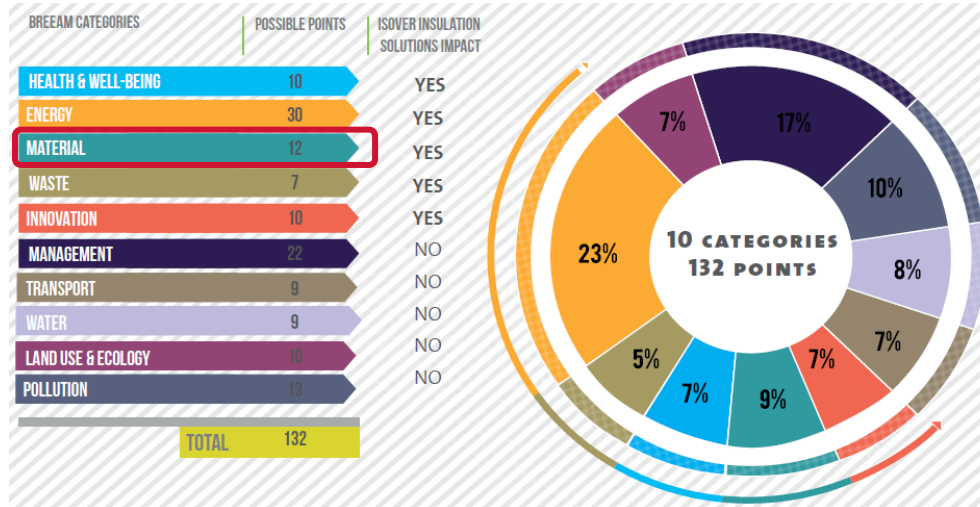
RESULTS OF THE SURVEY

SAINT-GOBAIN GLOBAL PARTICIPATION



- **B**uilding **R**esearch **E**stablishment's **E**nvironmental **A**ssessment **M**ethod
- Founded in 1990 in United Kingdom
- Now used in more than 77 countries.
- In 2016: **2 260,000** projects registered and **558,000** certified.
- 10 categories assessed:

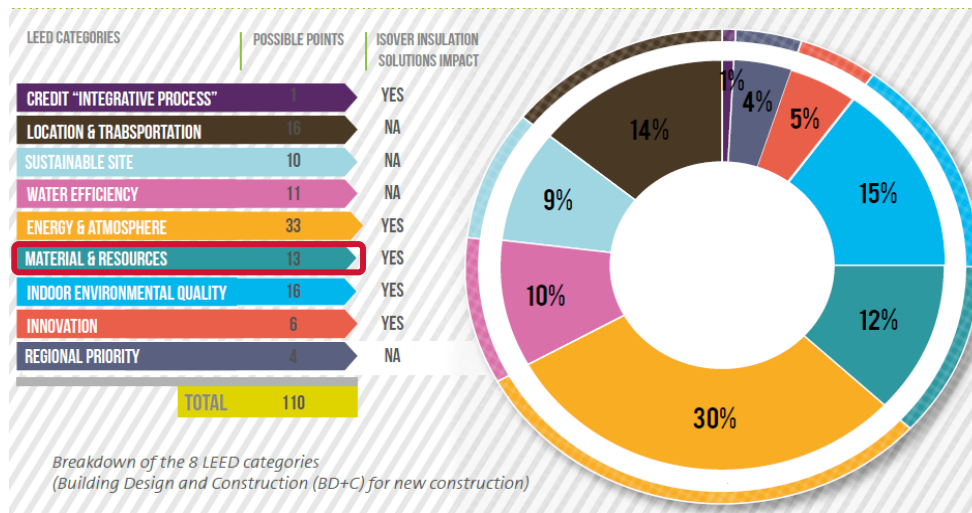
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Sources: <http://www.breeam.com/>
ISOVER brochure



- **LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN - LEED**
- **CREATED IN 1998 BY THE AMERICAN GBC, LEED PROJECTS CAN BE FOUND IN MORE THAN 162 COUNTRIES AND TERRITORIES.**
- **IN JANUARY 2015, 76,500 PROJECTS RECORDED AND 35,000 CERTIFIED → STRONG GROWTH WORLDWIDE**
- **9 CATEGORIES:**



Sources:
ISOVER brochure

RAW MATERIALS

- Regular environmental monitoring: dust, water, sound and vibrations
- Use of recycled products to reduce extraction of raw materials

HOW MANY % OF RECYCLED GLASS IS INTRODUCED BACK INTO THE PRODUCTION?

GLASS WOOL INSULATION

- **Up to 80%** of recycled glass (40% in average)
- 95% of mineral based components



PRODUCTION

- ISO 14001 certifications for factories
- Factories as near as possible to the deposits to limit CO₂ emissions (transport)
- Recycling of production waste
- Water recycling

HOW MANY % OF OUR GLASSWOOL PRODUCTION WASTE IS RECYCLED?

GLASS WOOL INSULATION

- **70%** of our glass wool production waste is recycled (100% in one third of our plants)
- 90% of factories are **ISO14001** certified
- 29% of factories are **ISO50001** certified
- Between 1993 and 2016, **reduction by 22%** of energy consumption per ton of produced glass wool

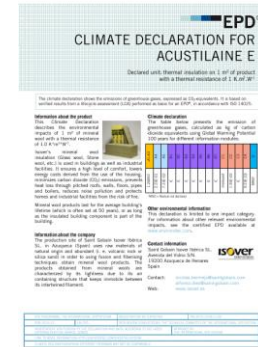




FROM LCA, LIFE CYCLE ASSESSMENT TO EPD, ENVIRONMENTAL PRODUCT DECLARATION

WHAT IS AN EPD, ENVIRONMENTAL PRODUCT DECLARATION?

- A **DOCUMENT** based on the LCA results, compliant with the EN 15804 and ISO 14040 standards
- Providing information about the environmental performances of a product
- Accessible to clients/public via a database or a website
- ✓ Verified by an independent third party
- ✓ Valid for 3 to 5 years



FULL PRODUCT TRANSPARENCY IS THE FUTURE



EPDs: from a “differentiating nice to have” to a “mainstream must have”

- ✓ In building labelling schemes
- ✓ Customers requirements (specifiers)
- ✓ Green public procurement rules
- ✓ New regulations (NL, FR, AT, FIN)
- ✓ Core indicators for sustainable buildings (EU-DG ENV)
- ✓ ECO Innovation projects
- ✓ Extra financial ratings (DJSI)

Building labels requirements			
Construction products EPDs	✓	✓	✓

Health product transparency is the mega trend

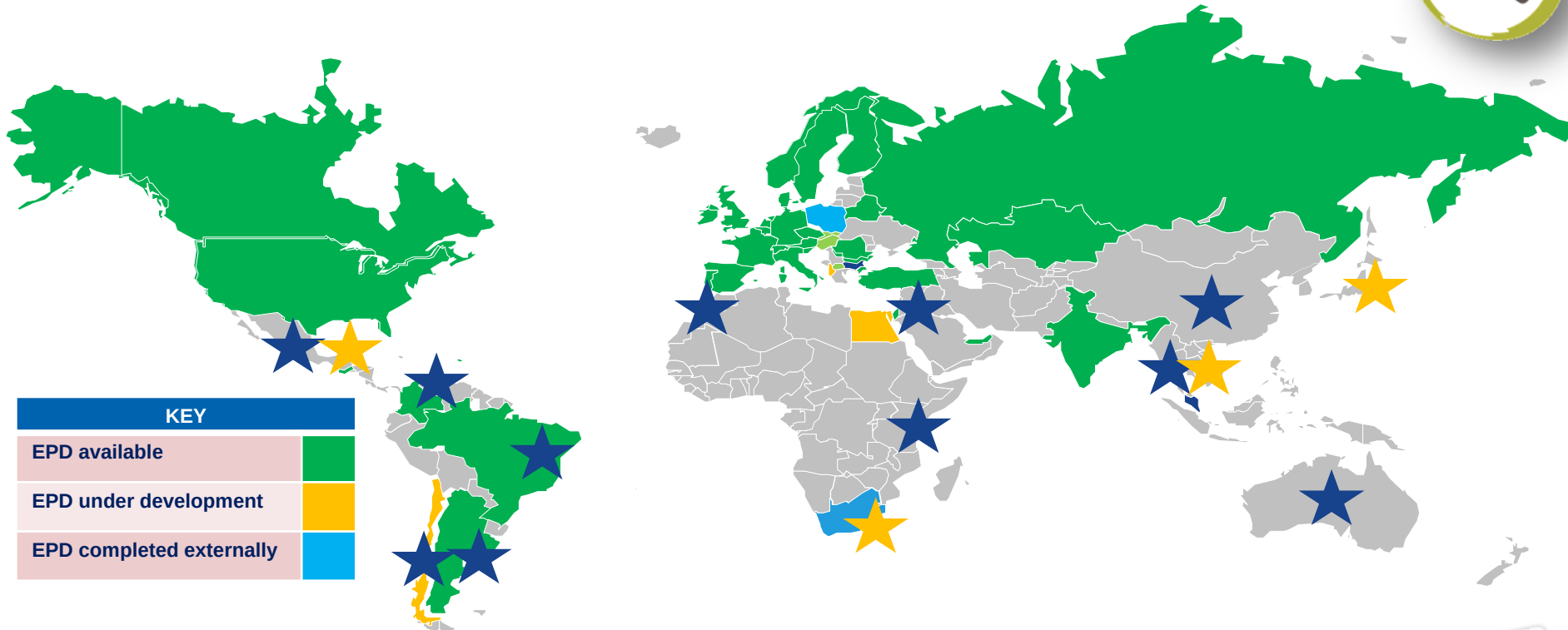
- ✓ In building labelling schemes
- ✓ Customers requirements (specifiers)
- ✓ Trend setters : Google – Portico
- ✓ End-users



 **From “box ticking” to “product benchmarking”
to “product improvement”**

GYPSUM & INSULATION LCA COVERAGE

MORE THAN 300 EDPS...



KEY

EPD available



EPD under development



EPD completed externally



Countries with no available EPDs
Gypsum or *Insulation*

LIFE CYCLE ASSESSMENT (LCA)

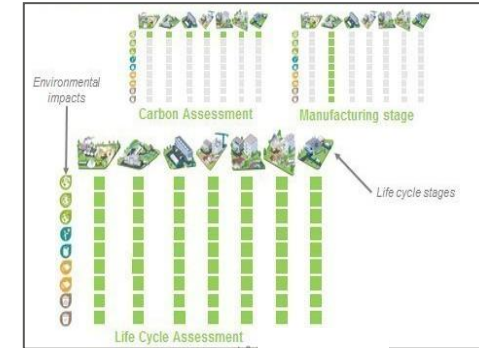
What is a Life-cycle assessment (LCA) ?

A LCA is **a methodology...**

- ...to assess the **environmental performances of a product** at every step of its life cycle.
- **Several steps of the life cycle and several environmental criteria/impacts** are considered.

Our objective is to make the LCAs:

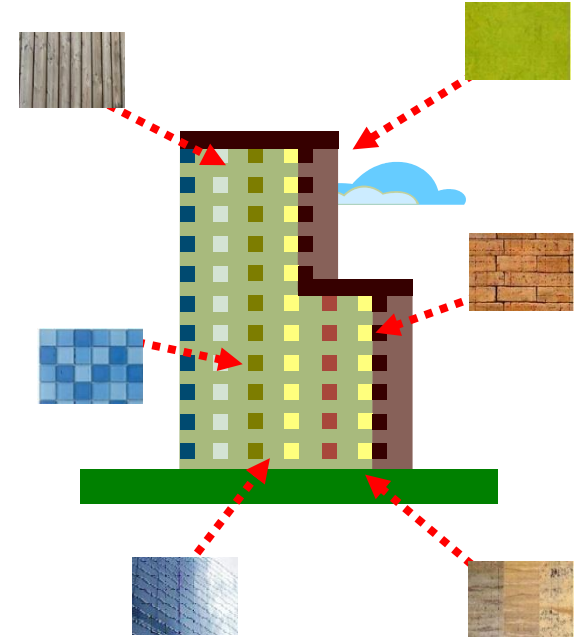
- **Transparent:** objective and complete
- **Compliant** with the national/international standards (EN 15804)
- **Verified** by an independent and accredited third party



LIFE CYCLE ASSESSMENT (LCA) AT BUILDING LEVEL

Objective of the approach: Knowing the environmental footprint of one's building; for this, the LCAs of its component parts are used

- The LCA provides accurate quantitative data
- It is the only method to assess the footprint of the entire building
- The LCA is now used/required for the most important certifications of the building



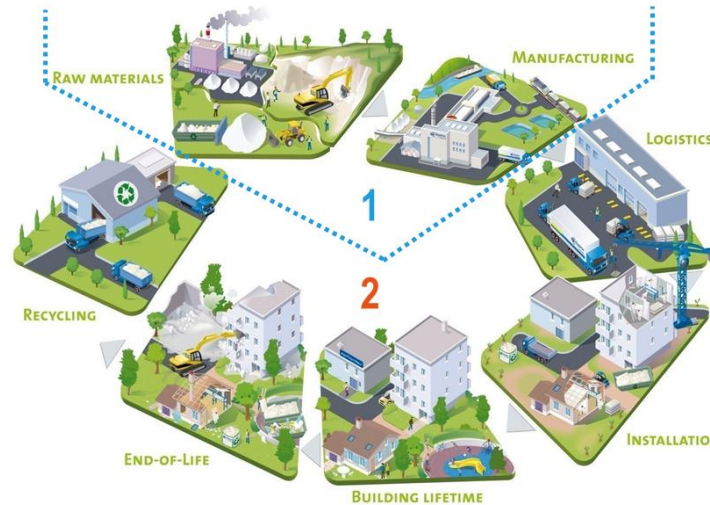
LIFE CYCLE ASSESSMENT (LCA) - SCOPES



- There are 2 distinct scopes of calculation for the LCAs.
- It is critical to compare EPDs produced on similar scopes of LCAs.

Cradle-to-Gate (1)

Cradle-to-Grave (1+2)



18 ENVIRONMENTAL INDICATORS IN THE LCA



Global Warming Potential



Use of renewable primary energy resources



Materials for recycling



Ozone depletion



Use of non-renewable primary energy resources



Materials for energy recovery



Acidification potential



Use of secondary material



Exported energy



Eutrophication potential



Use of renewable and non-renewable secondary fuels



Hazardous waste disposed



Photochemical ozone creation



Use of net fresh water



Non-hazardous waste disposed



Abiotic depletion potential for fossil and non-fossil resources



Components for re-use



Radioactive waste disposed

WHY CHOOSING LCA ?

- ✓ More than **400 product eco-labels** exist on the market
- ✓ Consumers get confused and loose trust and confidence in these labels



EPD: VERIFICATION BY AN INDEPENDENT THIRD-PARTY

Saint-Gobain has developed a strong communication policy

based on its protected “verified EPD” pictogram:

- To establish constructive dialogues with our clients
- To highlight our commitment to the assessment of the life cycle and verification by a third party
- To promote this approach



The environmental impacts of this product have been assessed over its whole life cycle. Its Environmental Product Declaration has been verified by an independent third party.



EPD RESULTS FOR A GLASS WOOL PRODUCT (LAMBDA 32 - 100MM)

Internal LCA benchmark

Impacts Environnementaux / Etapes	Etape de production (A1-A3)	Etape de construction (A4-A5)	Etape de vie en oeuvre (B1-B7)	Etape de fin de vie (C1-C4)	Total cycle de vie	Bénéfices et charges au-delà des frontières du système (D)
Réchauffement climatique <i>kg CO₂ equiv /UF</i>	2.87	0.37	0.00	0.02	3.2	0.00
Epuisement des ressources abiotiques (fossiles) <i>MJ/UF</i>	44.28	4.87	0.00	0.19	49	0.00
Utilisation totale des ressources d'énergie primaire [1] <i>MJ/UF</i>	51.62	5.85	0.00	0.19	98	0.00
Utilisation nette d'eau douce <i>m³ /UF</i>	0.05	0.00	0.00	0.00	4.7E-02	0.00
Déchets éliminés [2] <i>kg/UF</i>	1.18	0.08	0.00	2.73	4.0	0.00

[1] Somme de : "Utilisation totale des ressources d'énergie primaire non renouvelables" + "Utilisation totale des ressources d'énergie primaire renouvelables".
[2] Somme de : "Déchets dangereux éliminés" + "Déchets non dangereux éliminés" + "Déchets radioactifs éliminés".

Average range value for $\lambda=32$ glass wool:

2,8 - 4,2 kg*

84 MJ*

*These values vary according to energetic mix of the country and to factory performance

The highest impact is at production stage

COMPARING THE GLOBAL WARMING POTENTIAL OF DIFFERENT PRODUCTS (IN KG CO₂ EQUIVALENT)



Products	kg CO ₂	Source
4 x vanilla yogurts – 500 g	1,57	Casino
6 x pork sausages Knacks (x6) – 210 g	1,9	Casino
Plasterboard: 1 m² of Placo® BA13 - 12,5mm	1,93	PLACO France
glass wool: 1m² of GR 32 nu 100 mm R= 3,15	3,2	ISOVER France
glass wool: 1m² of IBR nu 100 mm R= 2,5	1,3	
1 kg of chicken	3	Eco2Initiative
1 pair of jeans	5,51	Deloitte
1 kg of beef	18	Eco2Initiative
Computer + LCD screen	1280	ADEME
Commuting 10 km per day between residence and work	1300	Eco2Initiative

EPDS AVAILABLE IN INTERNATIONAL AND LOCAL DATABASES AND IN OUR LOCAL WEBSITES!



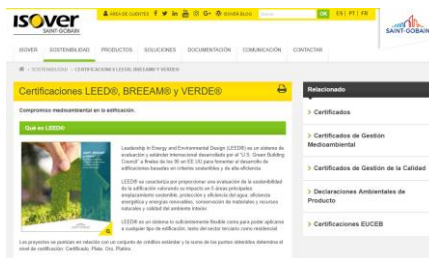
THE INTERNATIONAL EPD® SYSTEM

SAINT-GOBAIN BECOMES GROUP
WITH MOST EPDS REGISTERED IN
THE INTERNATIONAL EPD®
SYSTEM

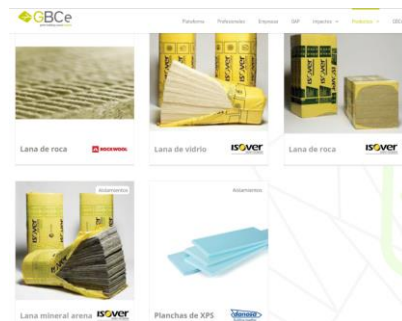
Jan
28, 2016



www.environdec.com



www.isover.es



<http://materiales.gbce.es/>



www.saint-gobain.es



Visita a la web Edificación Sostenible en España

endirecto



Edificación Sostenible
en España

CERTIFICACIONES

NUESTRA DOCUMENTACIÓN

BUSCAR

PROYECTOS DE REFERENCIA

NUESTRO COMPROMISO

Creando Edificios Sostenibles

Descubre cómo nuestras soluciones pueden
ayudar a certificar proyectos de edificios
sostenibles (LEED, BREEAM, ES, VERDE, WELL)

Encuentra información sobre



Certificaciones



Documentación

Buscar



Proyectos de
referencia en el
mundo



¡Gracias por su atención!
Thanks for your attention!

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