

# ENVIRONMENTAL PRODUCT DECLARATION

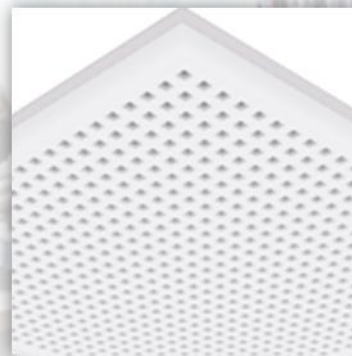
*In accordance with ISO 14025 and ISO 14044*

## Gyptone Ceiling Tiles 10 mm with Activ'Air

Verification Date : 20 September 2013

Version : 1.0

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VERIFICATION N°

A028512-1



**Gyproc**

SAINT-GOBAIN

**ENVIRONMENTAL PRODUCT  
DECLARATION  
IN ACCORDANCE WITH THE SAINT GOBAIN PCR**

**GYPTONE CEILING TILES 10 mm with ACTIV'AIR**

**Cradle to Gate only – April 2010**

Gyptone acoustic ceilings are based on a 10 mm specialized gypsum board suitable for most interior building applications where normal levels of fire resistance, structural strength and sound insulation are specified. Gyptone ceilings are produced with Activ'Air<sup>1</sup>, a patented technology designed to degrade VOC emissions from emitting building materials, paint, furniture, carpets etc. Activ'Air degrades VOC's, like formaldehyde, into non harmful inert compounds. Activ'Air can reduce formaldehyde concentrations with up to 70 %. Gyptone ceiling can be mounted in suspended grid system with exposed or concealed grid as demountable or non-demountable boards with smooth surfaces. Gyptone ceilings are easy to install and have a robust surface with high impact resistance. Gyptone ceilings are available in many formats and edges for optimal design options.

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<sup>1</sup> Activ'Air is standard on all 600 x 600 mm products with edge A and E15

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## FOREWORD

*This document constitutes a suitable framework for presenting the environmental and sanitary characteristics of building products in accordance with the requirements of the Saint-Gobain PCR.*

A project report of the declaration was drawn up. It can be consulted, under agreement of confidentiality with the head office of Gyproc A/S.

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**Data producer (SG PCR §8.2)**

**Compliance with requirements concerning the information to be supplied (SG PCR §8.2)**

### Notes

- Example of reading:  $-4,2 \text{ E-06} = -4,2 \times 10^{-6}$

## 1 Product characterisation in accordance with SG PCR § 8.4

### 1.1 Definition of the functional unit (FU)

Provide a decorative function on 1 m<sup>2</sup> of installed Gyptone Ceiling Tile with an expected average service life of 50 years (packaging included).

### 1.2 Product mass required for the functional unit (FU)

#### Quantity of product contained in the functional unit on the basis of a reference service life

**Product :** The product studied is the Gyptone Ceiling Tile 10 mm with Activ'Air

Average thickness per m<sup>2</sup> of product: 10 mm

Total weight of product: 6.6 kg / m<sup>2</sup>

Amount of plaster used: 6.24 kg / m<sup>2</sup>

Surfacing: Paint, acoustic paper, tissue and vinyl adhesive 195.9 g / m<sup>2</sup>

#### Distribution packaging

Polyethylene: 29.2 g / m<sup>2</sup>

Wooden pallet: 149.5 g / m<sup>2</sup>

#### Justification of quantities supplied

The rate of scrap during the installation is: 5%

Maintenance (including partial replacement if necessary): No maintenance, or replacement.

### 1.3 Useful technical characteristics not contained in the definition of the functional unit

The life cycle inventory data set out below have been calculated for the functional unit defined in 1.1 and 1.2

## 2 Inventory and other data in accordance with SG PCR § 9 Comments relating to the environmental effects of the product

### 2.1 Consumption of natural resources (SG PCR § 9.3)

#### 2.1.1 Consumption of natural energy resources and energy indicators

Flow	Units	Production	Total life cycle per FU (1m <sup>2</sup> )	
			Per year	Reference service life
Wood	kg	0.00508	0.00508	0.254
Coal	kg	0.00657	0.00657	0.329
Lignite	kg	0.00147	0.00147	0.0735
Natural gas	kg	0.0113	0.0113	0.564
Oil	kg	0.00387	0.00387	0.193
Uranium	kg	1.24 E-07	1.24 E-07	6.22 E-06
<b>Energy indicators</b>				
Total Primary Energy	MJ	0.935	0.935	46.7
Renewable Energy	MJ	0.0928	0.0928	4.64
Non-renewable Energy	MJ	0.843	0.843	42.2
Fuel Energy	MJ	0.780	0.780	39.0
Feedstock Energy	MJ	0.155	0.155	7.73
Electricity	kWh	0.0326	0.0326	1.63

#### **Comments relating to consumption of energy resources**

Energy is mainly used during the production phase. Natural gas, which is the main resource, is used for calcination and board drying.

Energy indicators must be used carefully; they add up energies with various origins, which do not have the same environmental impacts (see elementary flows).

## 2.1.2 Consumption of non-energy natural resources

Flow	Units	Production	Total life cycle per FU (1m <sup>2</sup> )	
			Per year	Reference service life
Antimony (Sb)	kg	0	0	0
Silver (Ag)	kg	8.64 E-11	8.64 E-11	4.32 E-09
Clay	kg	0.000126	0.000126	0.00632
Arsenic (As)	kg	0	0	0
Bauxite (Al <sub>2</sub> O <sub>3</sub> )	kg	3.46 E-05	3.46 E-05	0.00173
Bentonite	kg	1.74 E-06	1.74 E-06	8.72 E-05
Bismuth (Bi)	kg	0	0	0
Boron (B)	kg	0	0	0
Cadmium (Cd)	kg	0	0	0
Limestone	kg	0.000965	0.000965	0.0482
Sodium Carbonate (Na <sub>2</sub> CO <sub>3</sub> )	kg	0	0	0
Potassium Chloride (KCl)	kg	4.18 E-05	4.18 E-05	0.00209
Sodium Chloride (NaCl)	kg	5.68 E-05	5.68 E-05	0.00284
Chrome (Cr)	kg	1.05 E-08	1.05 E-08	5.23 E-07
Cobalt (Co)	kg	0	0	0
Copper (Cu)	kg	1.74 E-08	1.74 E-08	8.72 E-07
Dolomite	kg	4.42 E-08	4.42 E-08	2.21 E-06
Tin (Sn)	kg	0	0	0
Feldspar	kg	2.14 E-12	2.14 E-12	1.07 E-10
Iron (Fe)	kg	5.70 E-05	5.70 E-05	0.00285
Fluorite (CaF <sub>2</sub> )	kg	3.08 E-09	3.08 E-09	1.54 E-07
Gravel*	kg	2.54 E-05	2.54 E-05	0.00127
Gypsum (CaSO <sub>4</sub> )	kg	0	0	0
Lithium (Li)	kg	0	0	0
Kaolin (Al <sub>2</sub> O <sub>3</sub> , 2SiO <sub>2</sub> , 2H <sub>2</sub> O)	kg	9.44 E-05	9.44 E-05	0.00472
Magnesium (Mg)	kg	1.69 E-13	1.69 E-13	8.45 E-12
Manganese (Mn)	kg	2.00 E-09	2.00 E-09	9.98 E-08
Mercury (Hg)	kg	1.69 E-13	1.69 E-13	8.47 E-12
Molybdenum (Mo)	kg	0	0	0
Nickel (Ni)	kg	1.16 E-09	1.16 E-09	5.81 E-08
Gold (Au)	kg	0	0	0
Palladium (Pd)	kg	0	0	0

Platinum (Pt)	kg	0	0	0
Lead (Pb)	kg	8.78 E-09	8.78 E-09	4.39 E-07
Rhodium (Rh)	kg	0	0	0
Rutile (TiO2)	kg	0	0	0
Sand	kg	5.33 E-06	5.33 E-06	0.000266
Silica (SiO2)	kg	0	0	0
Sulphur (S)	kg	0.000265	0.000265	0.0133
Barium Sulphate (BaSO4)	kg	1.78 E-05	1.78 E-05	0.000892
Titanium (Ti)	kg	8.90 E-08	8.90 E-08	4.45 E-06
Tungsten (W)	kg	0	0	0
Vanadium (V)	kg	0	0	0
Zinc (Zn)	kg	1.34 E-10	1.34 E-10	6.70 E-09
Zirconium (Zr)	kg	0	0	0
Vegetal raw materials not specified above	kg	4.20 E-08	4.20 E-08	2.10 E-06
Animal raw materials not specified above	kg	0	0	0
Intermediate products not integrated upstream (total)	kg	0.000389	0.000389	0.0194

### 2.1.3 Consumption of water

Flow	Units	Production	Total life cycle per FU (1m <sup>2</sup> )	
			Per year	Reference service life
Water : Lake	litre	0	0	0
Water : Sea	litre	0.000152	0.000152	0.00759
Water : Water table	litre	1.64 E-07	1.64 E-07	8.22 E-06
Water : Unspecified source	litre	0.161	0.161	8.06
Water: River	litre	3.40 E-06	3.40 E-06	0.000170
Drinking Water (network)	litre	0.0995	0.0995	4.98
Consumed Water (total)	litre	0.261	0.261	13.0

#### Comments relating to the consumption of water

The total consumption of water for the reference service life is 13.0 litres. It is mainly used during production phase.



## 2.1.4 Consumption of recovered energy, recovered material

Flow	Units	Production	Total life cycle per FU (1m <sup>2</sup> )	
			Per year	Reference service life
Recovered Energy (stock)	MJ	0	0	0
Recovered Material (stock) : Total	kg	0.120	0.120	6.00
Recovered Material (stock) : Steel	kg	8.81 E-05	8.81 E-05	0.00440
Recovered Material (stock) : Aluminium	kg	0	0	0
Recovered Material (stock) : Metal (unspecified)	kg	0	0	0
Recovered Material (stock) : Paper-Cardboard	kg	0.00762	0.00762	0.381
Recovered Material (stock) : Plastic	kg	0	0	0
Recovered Material (stock) : gypsum	kg	0.112	0.112	5.61
Recovered Material (stock) : Biomass	kg	0	0	0
Recovered Material (stock): Mineral	kg	0	0	0
Recovered Material (stock) : Unspecified	kg	7.37 E-06	7.37 E-06	0.000368

### Comments relating to the consumption of recovered energy and materials

Use of desulfogypsum (a by-product of flue gas desulphurisation at power stations) represents more than 86% of the non-energy recovered resources consumed. Desulfogypsum is used in the manufacture of the product.

## 2.2 Emissions in the environment (water, air and soil) (SG PCR § 9.4)

### 2.2.1 Emissions in the air

Flow	Units	Production	Total life cycle per FU (1m <sup>2</sup> )	
			Per year	Reference service life
Hydrocarbons (unspecified)	g	0.0129	0.0129	0.643
Hydrocarbons (unspecified, except methane)	g	0.0552	0.0552	2.76
PAHs (unspecified)	g	5.32 E-06	5.32 E-06	0.000266
Methane (CH <sub>4</sub> )	g	0.0952	0.0952	4.76
Volatile organic compounds (e.g. acetone, acetate...)	g	0.000486	0.000486	0.0243
Carbon Dioxide (CO <sub>2</sub> )	kg	50.2	50.2	2 508
Carbon Monoxide (CO)	g	0.0845	0.0845	4.22
Nitrogen oxides (NO <sub>x</sub> in NO <sub>2</sub> )	g	0.0879	0.0879	4.40
Nitrous Oxide (N <sub>2</sub> O)	g	0.000730	0.000730	0.0365
Ammonium Hydroxide (NH <sub>3</sub> )	g	0.00373	0.00373	0.186
Dust (unspecified)	g	0.0934	0.0934	4.67
Sulphur oxides (SO <sub>x</sub> in SO <sub>2</sub> )	g	0.162	0.162	8.11
Hydrogen Sulphide (H <sub>2</sub> S)	g	0.000330	0.000330	0.0165
Hydrocyanic Acid (HCN)	g	1.03 E-06	1.03 E-06	5.15 E-05
Organic chlorine compounds (in Cl)	g	2.25 E-07	2.25 E-07	1.13 E-05
Hydrochloric Acid (HCl)	g	0.00549	0.00549	0.274
Inorganic chlorine compounds (in Cl)	g	1.14 E-06	1.14 E-06	5.70 E-05
Unspecified chlorine compounds (in Cl)	g	3.52 E-07	3.52 E-07	1.76 E-05
Organic fluorine compounds (in F)	g	4.98 E-07	4.98 E-07	2.49 E-05
Inorganic fluorine compounds (in F)	g	0.000233	0.000233	0.0117
Unspecified halogen compounds	g	3.11 E-05	3.11 E-05	0.00155
Unspecified fluorine compounds (in F)	g	0	0	0

Metals (unspecified)	g	0.00341	0.00341	0.170
Antimony and its compounds (in Sb)	g	9.74 E-07	9.74 E-07	4.87 E-05
Arsenic and its compounds (in As)	g	3.29 E-06	3.29 E-06	0.000164
Cadmium and its compounds (in Cd)	g	1.38 E-06	1.38 E-06	6.88 E-05
Chrome and its compounds (in Cr)	g	3.74 E-06	3.74 E-06	0.000187
Cobalt and its compounds (in Co)	g	2.12 E-06	2.12 E-06	0.000106
Copper and its compounds (in Cu)	g	3.89 E-06	3.89 E-06	0.000195
Tin and its compounds (in Sn)	g	9.92 E-08	9.92 E-08	4.96 E-06
Manganese and its compounds (in Mn)	g	5.12 E-06	5.12 E-06	0.000256
Mercury and its compounds (in Hg)	g	1.22 E-06	1.22 E-06	6.12 E-05
Nickel and its compounds (in Ni)	g	2.71 E-05	2.71 E-05	0.00136
Lead and its compounds (in Pb)	g	1.20 E-05	1.20 E-05	0.000599
Selenium and its compounds (in Se)	g	2.79 E-06	2.79 E-06	0.000139
Tellurium and its compounds (in Te)	g	0	0	0
Zinc and its compounds (in Zn)	g	4.63 E-05	4.63 E-05	0.00232
Vanadium and its compounds (in V)	g	9.56 E-05	9.56 E-05	0.00478
Silicon and its compounds (in Si)	g	0.00268	0.00268	0.134
Micro-organisms... acarids...legionnaire's disease		0.0129	0.0129	0.643

NOTE 1: With regards to radioactive emissions, this table will be completed as soon as the transposition of the Euratom European Directive on radioactive emissions is issued.

### **Comments relating to emissions in the air :**

Emissions in the air are mainly carbon dioxide (CO<sub>2</sub>), representing 98% of the total.

There are no emissions in the air directly associated with the process. Indeed emissions of carbon monoxide (CO), sulphur oxides (SO<sub>2</sub>) and dust are only linked to the combustion of energy resources.

## 2.1.2 Emissions in water

Flow	Units	Production	Total life cycle per FU (1m <sup>2</sup> )	
			Per year	Reference service life
COD (Chemical Oxygen Demand)	g	0.0293	0.0293	1.47
5-day BOD (Biochemical Oxygen Demand)	g	0.00349	0.00349	0.175
Matter in Suspension (MIS)	g	0.0255	0.0255	1.28
Cyanide (CN <sup>-</sup> )	g	9.33 E-06	9.33 E-06	0.000467
AOX (Adsorbable organic halogen compounds)	g	7.29 E-06	7.29 E-06	0.000364
Hydrocarbons (unspecified)	g	0.0278	0.0278	1.39
Nitrogen compounds (in N)	g	0.000722	0.000722	0.0361
Phosphorous compounds (in P)	g	0.00460	0.00460	0.230
Organic fluorine compounds (in F)	g	0.0128	0.0128	0.639
Inorganic fluorine compounds (in F)	g	0	0	0
Unspecified fluorine compounds (in F)	g	0	0	0
Organic chlorine compounds (in Cl)	g	2.65 E-06	2.65 E-06	0.000133
Inorganic fluorine compounds (in Cl)	g	0.183	0.183	9.15
Unspecified chlorine compounds (in Cl)	g	0.000513	0.000513	0.0256
PAHs (unspecified)	g	3.05 E-06	3.05 E-06	0.000152
Metals (unspecified)	g	0.0349	0.0349	1.75
Aluminium and its compounds (in Al)	g	0.00756	0.00756	0.378
Arsenic and its compounds (in As)	g	9.04 E-07	9.04 E-07	4.52 E-05
Cadmium and its compounds (in Cd)	g	3.38 E-07	3.38 E-07	1.69 E-05
Chrome and its compounds (in Cr)	g	4.94 E-06	4.94 E-06	0.000247
Copper and its compounds (in Cu)	g	6.79 E-06	6.79 E-06	0.000339
Tin and its compounds (in Sn)	g	4.00 E-10	4.00 E-10	2.00 E-08
Iron and its compounds (in Fe)	g	0.0354	0.0354	1.77
Mercury and its compounds (in Hg)	g	7.74 E-07	7.74 E-07	3.87 E-05
Nickel and its compounds (in Ni)	g	2.58 E-06	2.58 E-06	0.000129

Lead and its compounds (in Pb)	g	1.24 E-05	1.24 E-05	0.000622
Zinc and its compounds (in Zn)	g	0.000357	0.000357	0.0179

### **Comments relating to discharges in water**

This product itself does not generate emissions into water during its life cycle. The values reported are indirect emissions generated from parallel processes, i.e. production of electricity and fuel refining for transport.

## **2.2.3 Emissions in the soil**

Flow	Units	Production	Total life cycle per FU (1m <sup>2</sup> )	
			Per year	Reference service life
Arsenic and its compounds (in As)	g	9.08 E-08	9.08 E-08	4.54 E-06
Biocides <sup>a</sup>	g	0	0	0
Cadmium and its compounds (in Cd)	g	4.12 E-11	4.12 E-11	2.06 E-09
Chrome and its compounds (in Cr)	g	1.14 E-06	1.14 E-06	5.69 E-05
Copper and its compounds (in Cu)	g	2.08 E-10	2.08 E-10	1.04 E-08
Tin and its compounds (in Sn)	g	0	0	0
Iron and its compounds (in Fe)	g	0.000454	0.000454	0.0227
Lead and its compounds (in Pb)	g	9.54 E-10	9.54 E-10	4.77 E-08
Mercury and its compounds (in Hg)	g	7.58 E-12	7.58 E-12	3.79 E-10
Nickel and its compounds (in Ni)	g	3.14 E-10	3.14 E-10	1.57 E-08
Zinc and its compounds (in Zn)	g	3.42 E-06	3.42 E-06	0.000171
Heavy metals (unspecified)	g	0	0	0

### **Comments relating to emissions in the soil**

This product itself does not generate emissions into soil during its life cycle. The values reported are indirect emissions generated from parallel processes, i.e. production of raw materials, electricity and fuel refining. Emission in the soil of atrazine is mainly due to the production of starch generated by corn growing.

## 2.3 Waste production (SG PCR § 9.4)

### 2.3.1 Recovered matter

Flow	Units	Production	Total life cycle per FU (1m <sup>2</sup> )	
			Per year	Reference service life
Recovered Energy (stock)	MJ	2.80 E-05	2.80 E-05	0.00140
Recovered Material (stock) : Total	kg	0.00215	0.00215	0.107
Recovered Material (stock) : Steel	kg	3.30 E-05	3.30 E-05	0.00165
Recovered Material (stock) : Aluminium	kg	0	0	0
Recovered Material (stock) : Metal (unspecified)	kg	0	0	0
Recovered Material (stock) : Paper-Cardboard	kg	0.000713	0.000713	0.0356
Recovered Material (stock) : Plastic	kg	1.06 E-05	1.06 E-05	0.000531
Recovered Material (stock): Cullet	kg	0	0	0
Recovered Material (stock): Biomass	kg	4.66 E-05	4.66 E-05	0.00233
Recovered Material (stock): Mineral	kg	0	0	0
Recovered Material (stock): Unspecified	kg	0.00134	0.00134	0.0672

#### Comments relating to recovered matter

At the production stage, sites internally recycle gypsum production scrap. This recycling reduces the quantity of waste sent to landfill.

The quantity of recovered Material: unspecified come from module of data we use and can be recovered materials as dust, ash or unspecified in the various modules of data.

We don't take into account benefits or credit when we create waste for reuse.

## 2.3.2 Eliminated waste

Flow	Units	Production	Total life cycle per FU (1m <sup>2</sup> )	
			Per year	Reference service life
Hazardous waste	kg	0.00102	0.00102	0.0510
Non-hazardous waste	kg	0.000982	0.000982	0.0491
Inert waste	kg	0.00335	0.00335	0.167

### Comments relating to Eliminated waste

Hazardous waste; the waste comes from the module of raw material and energy we use in our calculation.

Non-hazardous waste: the waste comes for 50 % from the factory and includes waste from the production line as plaster for example or cardboard which cannot be recycled... The other part comes from the module of raw material and energy we use in our calculation.

Inert waste: the waste comes from the module of raw material and energy we use in our calculation.

### 3 Contribution of the product to environmental impacts in accordance with SG PCR § 9.6

All these impacts are entered or calculated in compliance with indications of § 9.6 of the SG PCR.

No.	Environmental impact		Value – Unit Total life cycle per FU (1m <sup>2</sup> )
1	Consumption of energy resources		
	Total primary energy		46.7 MJ
	Renewable energy resources		4.64 MJ
	Process energy resources		42.2 MJ
2	Depletion of natural resources (ADP)		0.0193 kg eq. antimony (Sb)
3	Water Consumption		13.0 litre
4	Solid waste	Recovered	0.107 kg
		Disposed of	
		Hazardous waste	0.0510 kg
	Non-hazardous waste	0.0491 kg	
	Inert waste	0.167 kg	
5	Climatic change		2.59 kg eq. CO <sub>2</sub>
6	Atmospheric acidification		0.0118 kg eq. SO <sub>2</sub>
7	Eutrophication		0.7488 g eq. PO <sub>4</sub> <sup>3-</sup>
8	Stratospheric ozone layer depletion		0 kg CFC eq. R11
9	Formation of photochemical oxidants		0.00136 kg eq. ethylene



## 4 Annex I: Characterisation of data for calculating the life cycle inventory

### 4.1 Definition of LCA system

#### 4.1.1 Stages included

**Production stage :**

- The production site (including raw material consumption, energy consumption, air emission, water emissions, waste...).
- Production of raw material and all relevant transport (gypsum...).
- Production of electricity and other energy source as natural gas...
- All production waste.

#### 4.1.2 Flow excluded

The following flows are excluded from the calculations:

- Lighting, heating and cleaning of workshops
- The administrative department
- Transportation of employees
- Manufacture of production tools and transport systems (e.g. machinery, vehicles etc)

#### 4.1.3 System boundaries

The threshold cut-off is fixed at 95% for the total mass according to the Saint-Gobain PCR § 8.7.  
In the context of this statement, the percentage of flows modelled is 99.15%

The LCA is created for a cradle to gate scenario.

## Data sources

### 4.1.4 Characterisation of primary data

#### Production

- Year : 2009
- Geographical coverage: The data is representative of the annual quantity manufactured in Denmark
- Technology coverage : Standard technology for production
- Source : The data is provided by the production site



# **Certificate of third-party verification**

Gyproc A/S, Kalundborg, Denmark

Information module including cradle-to-gate for

Gyptone Ceiling Tiles 10 mm with Activ' Air

Performed by

  
Linda Højbye

Date of issue: 20<sup>th</sup> of September 2013

Issue number: 1

## Environmental impacts and resource and energy use

No.	Environmental impact	Value – Unit	
1	Consumption of energy resources		
	Total primary energy	46.7 MJ	
	Renewable energy resources	4.64 MJ	
	Process energy resources	42.2 MJ	
2	Depletion of natural resources (ADP)	0.0193 kg eq. antimony (Sb)	
3	Water Consumption	13.0 litre	
4	Solid waste	Recovered	0.107 kg
		Disposed of	
		Hazardous waste	0.0510 kg
Non-hazardous waste	0.0491 kg		
Inert waste	0.167 kg		
5	Climatic change	2.59 kg eq. CO <sub>2</sub>	
6	Atmospheric acidification	0.0118 kg eq. SO <sub>2</sub>	
7	Eutrophication	0.7488 g eq. PO <sub>4</sub> <sup>3-</sup>	
8	Stratospheric ozone layer depletion	0 kg CFC eq. R11	
9	Formation of photochemical oxidants	0.00136 kg eq. ethylene	

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