

CLASSIFICATION: 03 41 10 Precast Autoclaved Aerated Concrete

created via: HPDC Online Builder

PRODUCT DESCRIPTION: Panel de Muro (Wall Panel) System of prefabricated elements designed to anchor to the project's structure by means of connectors, assuming fixing and support functions. Can be used in interior and exterior walls and has a very high fire resistance. Panel de Losa (Slab Panel) System of slab elements designed to work simply resting over any kind of structure system. These work as a system by connecting with steel rods, mortar, and a confining perimetral beam. Can be used as floor slabs or roof slabs.

Section 1: Summary

Nested Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- Basic Method

Threshold Disclosed Per

- Material
- Product

Threshold level

- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities

Residuals/Impurities Considered in 3 of 3 Materials

Explanation(s) provided for Residuals/Impurities?

- Yes
- No

Are All Substances Above the Threshold Indicated:

Characterized Yes No
Percent Weight and Role Provided?

Screened Yes No
Using Priority Hazard Lists with Results Disclosed?

Identified Yes No
Name and Identifier Provided?

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

Number of Greenscreen BM-4/BM3 contents..... 2
Contents highest concern GreenScreen
Benchmark or List translator Score..... LT-1
Nanomaterial..... No

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE

CELUCRETO MIX [QUARTZ (QUARTZ) **LT-1** | CAN WATER (WATER) **BM-4**
PORTLAND CEMENT (PORTLAND CEMENT) **LT-P1** | END | CAN CALCIUM
OXIDE (CALCIUM OXIDE) **LT-P1** | CALCIUM SULFATE DIHYDRATE (CALCIUM
SULFATE DIHYDRATE) **LT-UNK** | ALUMINUM (ALUMINUM) **LT-P1** | RES | END
| PHY CRUDE SOAPSTOCK (CRUDE SOAPSTOCK) **LT-UNK**]
REINFORCEMENT STEEL [STEEL (STEEL) **NoGS**] CELUCRETO ADDITIVE
[WATER (WATER) **BM-4** | CALCIUM LIGNOSULFONATE (CALCIUM
LIGNOSULFONATE) **LT-UNK** | UREA (UREA) **LT-UNK**]

INVENTORY AND SCREENING NOTES:

Residuals/impurities in select raw materials are quantitatively measured, and are displayed in the HPD when greater than 1000 ppm.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE *See Section 3 for additional listings.*

Other: NOM-018-ENER-2011

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2017-11-01
PUBLISHED DATE: 2017-11-01
EXPIRY DATE: 2020-11-01

Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

CELUCRETO MIX

#: 76.0040 - 79.0303

HPD URL:

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are present in this material.

OTHER MATERIAL NOTES: The information provided for this material includes Panel de Muro (Wall Panel) and Panel de Losa (Roof Panel).

QUARTZ (QUARTZ)

ID: 14808-60-7

#: 38.8533 - 40.6200

GS: LT-1

RC: PreC

NANO: No

ROLE: Binder Component

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources

CANCER

US NIH - Report on Carcinogens

Known to be Human Carcinogen (respirable size - occupational setting)

CANCER

MAK

Carcinogen Group 1 - Substances that cause cancer in man

CANCER

New Zealand - GHS

6.7A - Known or presumed human carcinogens

CANCER

Australia - GHS

H350 - May cause cancer

SUBSTANCE NOTES:

WATER (WATER)

ID: 7732-18-5

#: 37.8886 - 39.1300

GS: BM-4

RC: None

NANO: No

ROLE: Humidifier Component

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

PORTLAND CEMENT (PORTLAND CEMENT)

ID: 65997-15-1

%: **10.4964 - 12.1000**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Thickener Component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES:

CALCIUM OXIDE (CALCIUM OXIDE)

ID: **1305-78-8**

%: **7.7727 - 9.0000**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Catalyst Component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
None Found	No warnings found on HPD Priority lists	

SUBSTANCE NOTES:

CALCIUM SULFATE DIHYDRATE (CALCIUM SULFATE DIHYDRATE)

ID: **10101-41-4**

%: **1.7140 - 1.7500**

GS: **LT-UNK**

RC: **None**

NANO: **No**

ROLE: **Retardant Component**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
None Found	No warnings found on HPD Priority lists	

SUBSTANCE NOTES:

ALUMINUM (ALUMINUM)

ID: **7429-90-5**

%: **0.5000 - 0.6578**

GS: **LT-P1**

RC: **None**

NANO: **No**

ROLE: **Foaming Agent**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
RESPIRATORY	AOEC - Asthmagens	Asthmagen (ARs) - sensitizer-induced - inhalable forms only
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H228 - Flammable solid
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H261 - In contact with water releases flammable gases

SUBSTANCE NOTES:

CRUDE SOAPSTOCK (CRUDE SOAPSTOCK)

ID: **68952-94-3**

#: 0.0000 - 0.0042

GS: LT-UNK

RC: None

NANO: No

ROLE: Emulsifier Component

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

REINFORCEMENT STEEL

#: 20.9220 - 23.9500

HPD URL:

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are present in this material.

OTHER MATERIAL NOTES: Steel is used as a structural reinforcement material.

STEEL (STEEL)

ID: 12597-69-2

#: 100.0000

GS: NoGS

RC: None

NANO: No

ROLE: Structural Reinforcement

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Steel is used as a structural reinforcement material.

CELUCRETO ADDITIVE

#: 0.0455 - 0.0472

HPD URL:

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: No residuals or impurities are present in this material.

OTHER MATERIAL NOTES: This adhesive is a mixture used in the production of autoclaved aerated concrete to reduce the amount of water required and make it stronger. It is a water-based paste that includes natural polymers.

WATER (WATER)

ID: 7732-18-5

#: 60.0000

GS: BM-4

RC: None

NANO: No

ROLE: Humidifier Component

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

CALCIUM LIGNOSULFONATE (CALCIUM LIGNOSULFONATE)

ID: 8061-52-7

#: 25.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: Reducing Agent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

UREA (UREA)

ID: 57-13-6

#: 15.0000

GS: LT-UNK

RC: None

NANO: No

ROLE: Temperature Reducer

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

OTHER	NOM-018-ENER-2011		
CERTIFYING PARTY: Third Party	ISSUE DATE:2017-11-15	EXPIRY DATE: 2018-11-14	CERTIFIER OR LAB: ONNCCE
APPLICABLE FACILITIES: NOM-018-ENER-2011 is a certification for products used as thermal insulation in buildings.			
CERTIFICATE URL:			
CERTIFICATION AND COMPLIANCE NOTES:			

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

Please refer to Aircrete Mexico for more information on this product. The product's MSDS, installation guides and LEED documentation are available upon request.



MANUFACTURER INFORMATION

MANUFACTURER: **Aircrete Mexico**

ADDRESS: **PROLONGACIÓN BOSQUES DE REFORMA**

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COL. BOSQUES DE LAS LOMAS

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WEBSITE: **www.aircrete.mx**

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TITLE: **Operations Manger**

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KEY

OSHA MSDS

Occupational Safety and Health Administration Material Safety Data Sheet

GHS SDS

Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity

CAN Cancer

DEV Developmental toxicity

END Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

GLO Global warming

MAM Mammalian/systemic/organ toxicity

MUL Multiple hazards

NEU Neurotoxicity

OZO Ozone depletion

PBT Persistent Bioaccumulative Toxic

PHY Physical Hazard (reactive)

REP Reproductive toxicity

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

LAN Land Toxicity

NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

BM-3 Benchmark 3 (use but still opportunity for improvement)

BM-2 Benchmark 2 (use but search for safer substitutes)

BM-1 Benchmark 1 (avoid - chemical of high concern)

BM-U Benchmark Unspecified (insufficient data to benchmark)

LT-P1 List Translator Possible Benchmark 1

LT-1 List Translator Likely Benchmark 1

LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)

NoGS Unknown (no data on List Translator Lists)

Recycled Types

PreC Preconsumer (Post-Industrial)

PostC Postconsumer

Both Both Preconsumer and Postconsumer

Unk Inclusion of recycled content is unknown

None Does not include recycled content

Other Terms

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material

Nested Method / Product Threshold Substances listed within each material per threshold indicated per product

Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology

Third Party Verified Verification by independent certifier approved by HPDC

Preparer Third party preparer, if not self-prepared by manufacturer

Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and

environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.