FETDETERRA

INNOVATIVE EARTH PROJECTS AND PRODUCTS

ENVIRONMENTAL STATEMENT

At Fetdeterra we promote the use of earth for sustainable, ecological and environmentally friendly construction.

Buildings are the main contributors to greenhouse gas emissions, so our goal is to create more natural materials which release less carbon and are healthier.

This document explains the advantages of using earth as a construction material to combat climate change and create more sustainable architectonic projects. The benefits which earth provides users and the environment are:

HEALTH FOR THE USER

100% natural
It transpires and purifies the air, thereby improving indoor air quality
Earth's high thermal inertia helps it lower the building's energy cost
A passive temperature regulator, it mitigates temperature fluctuations within a space and promotes a more stable temperature, creating greater thermal comfort in building interiors
Regulates relative indoor humidity between 40% and 70%
Absorbs electromagnetic waves
High acoustic insulation capacity, absorbs and muffles sound
Flame-retardant material
Earth does not reflect light or produce glare; it diffuses light and helps maintain the light balance in indoor and outdoor spaces

SUSTAINABILITY FOR THE ENVIRONMENT

It does not contain or release toxins
Unfired
Low CO2 emissions
Low incorporated energy
Low water consumption
No need for coating or additional surface treatment
Recyclable after demolition
It does not generate waste
Circular nature of the material

ENVIRONMENTAL STATEMENT
TAPIALBLOCK® - PREFABRICATED EARTH BLOCK

Trade name	Tapialblock®
Product description	Prefabricated block of raw earth, for the formation of load-bearing and non-load-bearing walls, for interiors and/or exteriors.
Production process	The prefabricated earth block manufacturing process is divided into the following stages, included in the Life Cycle Analysis: Acquisition and preparation of raw materials. The prefabricated earth block manufacturing process begins with the extraction and production of the raw materials. Transport to factory. The raw materials are shipped to the factory by road. Manufacturing. In this stage the earth is prepared, poured into moulds and compacted. The block is then demoulded and cured. Finally, the blocks are stacked on pallets and stored until delivery.

Declaration of environmental parameters The distinct environmental parameters derived from the Life Cycle Analysis for this product category are listed as follows	
Parameters which describe environmental impacts. Global warming	CO2 emissions calculated for the product 0.050 Kg CO2/Kg. Carbon incorporated in the materials used 0.8 MJ/Kg 0.2 Kw/Kg. All the raw material is from a radius of less than 100 km. Unfired and air-dried.
Parameters which describe resource use. Water use	Water consumption is 100 l x m3 of product.
Parameters which described waste categories.	100% of the material is recyclable to manufacture new blocks. It contains no polluting or hazardous components.