Environmental Product Declaration for STRUCTURA panels

GENERAL INFORMATION	
Company information	Etex Group Tervurenlaan 361 1150 Bruxelles **Plant**: Neubeckum Dyckerhoffstr. 95 – 105 59269 Beckum Germany Logo
Subject	Structura fibre cement cladding panel
Code / number declaration	To be completed
Date of issue	To be completed
Unit	To cover 1 m² of wall during the reference service life (60 years). If the building where the Structura panels are placed is scheduled to last 60 + X years, one must multiply the EPD results by 1+ X/60 to take into account the replacement. Number of units needed to cover 1 m² of wall : 0.31
Part of the unit	Reference flow: 15.47 kg of Structura It is assumed that there is no loss during the construction phase or replacement during the life in use phase.
Description of the product	 The dimensions of one unit are: 2.53 m x 1.28 m x 0.008 m Weight: 15.4 kg/m2 or 49.9 kg/unit In order to cover 1 m^2 of wall, Structura panels are screwed using 23 g of screws made of stainless steel.

ENVIRONMENTAL PROFILE

Theme	Unit	Total	Production	Transport	Construction	Use/ Operation	Use/ Maintenance	End of life
Abiotic depletion	kg antimony eq.	1.1E-01	1.0E-01	1.4E-03	4.9E-03	0.0E+00	0.0E+00	5.8E-04
Global warming	kg CO_2 eq.	1.9E+01	1.8E+01	2.3E-01	4.6E-01	0.0E+00	0.0E+00	9.7E-02
Depletion of the ozone layer	kg CFC-11 eq.	1.8E-06	1.6E-06	1.6E-07	7.7E-09	0.0E+00	0.0E+00	6.1E-08
Human ecotoxicity	kg 1,4 dichlorobenzene eq.	6.2E+00	5.9E+00	4.5E-02	1.9E-01	0.0E+00	0.0E+00	1.8E-02
Ecotoxicity aquatic[1]	kg 1,4 dichlorobenzene eq.	2.1E+03	2.0E+03	1.7E+01	3.5E+01	0.0E+00	0.0E+00	9.6E+00
Ecotoxicity terrestrial	kg 1,4 dichlorobenzene eq.	7.0E-02	6.0E-02	2.5E-04	9.8E-03	0.0E+00	0.0E+00	8.9E-05
Smog	kg 1,4 dichlorobenzene eq.	1.5E-02	1.4E-02	7.3E-04	5.4E-04	0.0E+00	0.0E+00	3.2E-04
Acidification	kg SO_2 eq.	8.4E-02	7.8E-02	1.4E-03	3.6E-03	0.0E+00	0.0E+00	5.8E-04
Eutrophication	kg PO_4^-	7.5E-03	6.7E-03	3.3E-04	3.0E-04	0.0E+00	0.0E+00	1.3E-04

ENVIRONMENTAL MEASURES

Theme	Unit	Total	Production	Transport	Construction	Use/ Operation	Use/ Maintenance	End of life
Resources	$Year^{-1}$	7.4E-12	7.0E-12	9.1E-14	3.3E-13	0.0E+00	0.0E+00	3.9E-14
Energy	MJ	2.7E+02	2.4E+02	2.8E+00	2.1E+01	0.0E+00	0.0E+00	1.2E+00
Emissions	$Year^{-1}$	1.9E-10	1.8E-07	3.3E-09	7.5E-09	0.0E+00	0.0E+00	1.4E-09
Non hazardous waste	kg	1.8E+00	1.5E+00	2.6E-04	7.7E-02	0.0E+00	0.0E+00	1.5E-01
Hazardous waste	kg	3.6E-02	3.5E-02	6.5E-05	5.5E-04	0.0E+00	0.0E+00	2.8E-05

[1] *fresh water and marine impacts are aggregated*

Representative for	Eternit A.G. Germany 2004 data
Life cycle phases	All the life cycle phases are included: - Production, transport, construction, use and maintenance, demolition and end of life. The product is considered as being 99% recycled and 1% landfilled.
Other life cycle phases and necessary materials and processes	All life cycle steps are included.
References	This declaration has been prepared according to the NEN 8006:2004 standard. A methodology report is available upon request from the Etex Group Environmental Department. A Product Category Rules (PCR) is currently being drafted.
Peer review	This EPD has been peer reviewed by : J.P.R. Meijer MSc INTRON B.V.
Other company information	Company that carried out the study: ECOBILAN S.A. PricewaterhouseCoopers 63, rue de Villiers 92 208 Neuilly sur Seine Cedex, France.