


Environmental Product Declaration for DURIPANEL boards

GENERAL INFORMATION

Company information	<p>Etex Group Tervurenlaan 361 1150 Bruxelles</p> <p>Plant: Neubeckum Dyckerhoffstr. 95 – 105 59269 Beckum Germany</p> <p>Logo</p>
Subject	Duripanel cement-bonded particle board
Code / number declaration	To be completed
Date of issue	To be completed
Unit	<p>To cover 1 m² of wall during the reference service life (60 years).</p> <p>If the building where the Duripanel boards 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.</p> <p>Number of units needed to cover 1 m² of wall : 0,35</p>
Part of the unit	<p>Reference flow: 12.60 kg of Duripanel</p> <p>It is assumed that there is no loss during the construction phase or replacement during the life in use phase.</p>
Description of the product	<div style="text-align: center;">  </div> <p>The dimensions of one unit are: 2,4 m x 1,2 m x 0,01 m</p> <p>Weight per unit: 36 kg/unit</p> <p>In order to cover 1 m² of wall, Duripanel boards are screwed using 27 g of screws made of stainless steel.</p>

ENVIRONMENTAL PROFILE

Theme	Unit	Total	Production	Transport	Construction	Use/ Operation	Use/ Maintenance	End of life
<i>Abiotic depletion</i>	kg antimony eq.	5.2E-02	5.0E-02	9.3E-04	1.1E-03	0.0E+00	0.0E+00	4.7E-04
<i>Global warming</i>	kg CO ₂ eq.	1.2E+01	1.1E+01	1.6E-01	2.1E-01	0.0E+00	0.0E+00	8.1E-02
<i>Depletion of the ozone layer</i>	kg CFC-11 eq.	1.8E-06	1.6E-06	1.1E-07	1.8E-09	0.0E+00	0.0E+00	5.0E-08
<i>Human ecotoxicity</i>	kg 1,4 dichlorobenzene eq.	2.4E+00	2.2E+00	3.1E-02	1.4E-01	0.0E+00	0.0E+00	1.5E-02
<i>Ecotoxicity aquatic¹</i>	kg 1,4 dichlorobenzene eq.	1.4E+03	1.4E+03	1.2E+01	1.8E+01	0.0E+00	0.0E+00	7.6E+00
<i>Ecotoxicity terrestrial</i>	kg 1,4 dichlorobenzene eq.	3.1E-02	2.1E-02	1.7E-04	9.3E-03	0.0E+00	0.0E+00	7.1E-05
<i>Smog</i>	kg ethylene eq.	8.5E-03	7.7E-03	5.0E-04	6.1E-05	0.0E+00	0.0E+00	2.6E-04
<i>Acidification</i>	kg SO ₂ eq.	3.1E-02	2.7E-02	9.4E-04	2.8E-03	0.0E+00	0.0E+00	4.7E-04
<i>Eutrophication</i>	kg PO ₄ ⁻	3.2E-03	2.7E-03	2.3E-04	2.1E-04	0.0E+00	0.0E+00	1.1E-04

ENVIRONMENTAL MEASURES

Theme	Unit	Total	Production	Transport	Construction	Use/ Operation	Use/ Maintenance	End of life
<i>Resources</i>	Year ⁻¹	3.5E-12	3.4E-12	6.2E-14	7.3E-14	0.0E+00	0.0E+00	3.2E-14
<i>Energy</i>	MJ	2.3E+02	2.2E+02	1.9E+00	4.8E+00	0.0E+00	0.0E+00	9.8E-01
<i>Emissions</i>	Year ⁻¹	7.8E-11	6.9E-11	2.3E-12	5.6E-12	0.0E+00	0.0E+00	1.1E-12
<i>Non hazardous waste</i>	kg	8.4E-01	6.5E-01	1.8E-04	5.7E-02	0.0E+00	0.0E+00	1.2E-01
<i>Hazardous waste</i>	kg	1.8E-02	1.8E-02	4.4E-05	8.6E-07	0.0E+00	0.0E+00	2.3E-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.