



ENVIRONMENTAL PRODUCT DECLARATION

larson pe®-larson fr®



larson pe® larson fr®

PANEL COMPOSITE DE ALUMINIO PARA ARQUITECTURA, APLICACIONES DE IMAGEN CORPORATIVA, SECTORES AUTOMOCIÓN Y NAVAL, ENTRE OTROS



According to

(ISO 14044:2006)
ENVIRONMENTAL MANAGEMENT -
- LIFE CYCLE ASSESSMENT --
REQUIREMENTS AND GUIDELINES

(ISO 14025:2006)
ENVIRONMENTAL LABELS AND
DECLARATIONS-TYPE III
ENVIRONMENTAL DECLARATIONS-
PRINCIPLES AND PROCEDURES.

EN 15804, SUSTAINABILITY OF
CONSTRUCTION WORKS.
ENVIRONMENTAL PRODUCT
DECLARATIONS. CORE RULES FOR
THE PRODUCT CATEGORY OF
CONSTRUCTION.

PCR 2012:01, PCR BASIC
MODULE: CONSTRUCTION
PRODUCTS AND CPC 54
CONSTRUCTION SERVICES V1.2.

GPI, GENERAL PROGRAMME
INSTRUCTIONS FOR THE
INTERNATIONAL EPD® SYSTEM
V2. 0.




ALUCOIL, S.A.

C/ Ircio Parc. R72 a R77
Pol. Ind. De Bayas
09200 Miranda de Ebro
Burgos (SPAIN)



	<p>Summary</p> <p>Environmental Product Declaration</p>
<p>The International EPD® System</p>	<p>Program holder</p>
<p>Alucoil, S.A. C/ Ircio Parc. R72 a R77 Pol. Ind. De Bayas 09200 Miranda de Ebro Burgos (SPAIN) Tel: +34 947 333320 Fax: +34 947 324913 / +34 947 331224 www.alucoil.com</p>	<p>Declaration holder</p>
<p>S-P-00363</p>	<p>Declaration number</p>
<p>Aluminum composite panel for use in architecture, automotive, naval and corporate image applications, among others, This declaration is an environmental product declaration according to ISO 14025 and describes the specific environmental impacts of the building products mentioned. It is intended to foster the sustainable development of environmental and health friendly compatible construction. All relevant environmental data is contained in this validated declaration. The declaration is based on the PCR 2012:01 and EN 15804:2012.</p>	<p>Declared Building Products</p>
<p>This validated declaration entitles the use of the label of the International EPD® System and Institute for Construction and Environment (IBU). The Declaration is valid for 3 years. This exclusively applies to the mentioned products; three years form the date of issue. The declaration holder is liable for the basic information and verifications.</p>	<p>Validity</p>
<p>This EPD is based on information modules that do not cover the aspects of use and end of life of the product. It contains in details, for Module A1-A2-A3:</p> <ul style="list-style-type: none"> • Product definition and physical data • Information about raw materials and origin • Specifications on manufacturing the product • Notes on product processing • LCA based on a declared unit, cradle-to-gate • LCA results • Evidence and verifications 	<p>Content of the declaration</p>



	<p style="text-align: right;">Summary</p> <p style="text-align: center;">Environmental Product Declaration</p>																																
<p>15th January 2014 (Valid until January 2017)</p>	<p style="text-align: right;">Date of Issue</p>																																
<p>Anxo Mourelle Álvarez</p>	<p style="text-align: right;">Verifier appoint by EPD®System</p>																																
	<p style="text-align: right;">Signatures</p> 																																
<p>Fdo: Anxo Mourelle Álvarez EPD Verifier</p>	<p>Fdo: Raúl Mariscal Díaz de Sarralde Plant Manager-Alucoil S.A.</p>																																
<p>l Larson pe® is a composite panel produced by two metal sheets (Aluminium) with a low density polyethylene inside core that lends flatness and lightness to the material.</p> <p>l Larson fr® is an innovative composite panel developed by Alucoil using two metal sheets (Aluminum), and a mineral core. The core delays combustion to achieve a B-S1, d0 classification according to the regulations UNE-EN 13501.</p> <p>In both products, the aluminium front sheet is coated of PVdF 70% Kynar 500, an anticorrosion pretreatment is included on top and reverse side. The aluminum back sheet is coated on both sides with a pre-treatment to provide the product with a regular and well attached layer which will protect it against corrosion and increase the adherence of the core.</p>	<p style="text-align: right;">Product description</p>																																
<p>l Larson pe® is especially recommended for new-construction ventilated facade sectors as well as restoration. It allows for ventilated, semi-ventilated or air-tight facades.</p> <p>l Larson fr® is the first step of a new composite panel generation with which Alucoil hopes to answer modern architectural needs.</p>	<p style="text-align: right;">Applications</p>																																
<p>The Life Cycle Assessment (LCA) was performed according to ISO 14040 ff. corresponding to the requirements of the guidelines concerning Type III declarations. Specific industrial data from Alucoil, S.A., data from the data base ecoinvent 3.01 and sector data from GDA (Gesamtverband der Aluminiumindustrie e.V (GDA) are used in this LCA. The method applied for assessment is CML baseline 2000, included in SimaPro software version 8.0.0.</p>	<p style="text-align: right;">Scope of the LCA</p>																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Environmental Indicator</th> <th></th> <th style="text-align: center;">l Larson pe® A1-A3</th> <th style="text-align: center;">l Larson fr® A1-A3</th> </tr> </thead> <tbody> <tr> <td>Global warming (GWP100)</td> <td>kg CO2eq</td> <td style="text-align: center;">34.0</td> <td style="text-align: center;">35.7</td> </tr> <tr> <td>Ozone layer depletion (ODP)</td> <td>kg CFC-11eq</td> <td style="text-align: center;">9.45E-07</td> <td style="text-align: center;">1.10E-06</td> </tr> <tr> <td>Acidification (AP)</td> <td>kg SO2 eq</td> <td style="text-align: center;">0.164</td> <td style="text-align: center;">0.163</td> </tr> <tr> <td>Eutrophication (EP)</td> <td>kg PO4- eq</td> <td style="text-align: center;">0.0106</td> <td style="text-align: center;">0.0138</td> </tr> <tr> <td>Photochemical oxidation (POCP)</td> <td>kg C2H2 eq</td> <td style="text-align: center;">9.60E-03</td> <td style="text-align: center;">9.82E-03</td> </tr> <tr> <td>Abiotic depletion (elements)</td> <td>kg Sb eq</td> <td style="text-align: center;">1.96E-05</td> <td style="text-align: center;">7.35E-05</td> </tr> <tr> <td>Abiotic depletion (fossil)</td> <td>MJ</td> <td style="text-align: center;">510</td> <td style="text-align: center;">446</td> </tr> </tbody> </table>	Environmental Indicator		l Larson pe® A1-A3	l Larson fr® A1-A3	Global warming (GWP100)	kg CO2eq	34.0	35.7	Ozone layer depletion (ODP)	kg CFC-11eq	9.45E-07	1.10E-06	Acidification (AP)	kg SO2 eq	0.164	0.163	Eutrophication (EP)	kg PO4- eq	0.0106	0.0138	Photochemical oxidation (POCP)	kg C2H2 eq	9.60E-03	9.82E-03	Abiotic depletion (elements)	kg Sb eq	1.96E-05	7.35E-05	Abiotic depletion (fossil)	MJ	510	446	<p style="text-align: right;">Results of the LCA</p>
Environmental Indicator		l Larson pe® A1-A3	l Larson fr® A1-A3																														
Global warming (GWP100)	kg CO2eq	34.0	35.7																														
Ozone layer depletion (ODP)	kg CFC-11eq	9.45E-07	1.10E-06																														
Acidification (AP)	kg SO2 eq	0.164	0.163																														
Eutrophication (EP)	kg PO4- eq	0.0106	0.0138																														
Photochemical oxidation (POCP)	kg C2H2 eq	9.60E-03	9.82E-03																														
Abiotic depletion (elements)	kg Sb eq	1.96E-05	7.35E-05																														
Abiotic depletion (fossil)	MJ	510	446																														
<p>Issued by: Alucoil, S.A. In cooperation with CTME, Fundación Centro Tecnológico de Miranda de Ebro (Spain)</p>																																	
<p>The Environmental Product Declaration gives evidence of the used data validation and data quality requirements are declared. Furthermore, specific applied chemical substances are declared in accordance with Regulation (EC) n ° 1907/2006.</p>	<p style="text-align: right;">Evidence and verifications</p>																																