



BUILDING PRODUCT DECLARATION

Axiom by Formica Group

1. Product information

Product

Product name:	Axiom by Formica Group	
Article:	Axiom by Formica Group, High Pressure Laminate worktop	
Product description:	<p>Axiom is a worktop produced with HPL glued upon chipboard. The surface material, HPL, is high pressure decorative laminates (Formica® Laminate) according to the European Standard EN 438 and to ISO 4586. Formica Laminates are sheets consisting of layers of cellulose fibrous material (normally paper) impregnated with thermosetting resins and bonded together in a high pressure process. The process, defined as a simultaneous application of heat ($\geq 120^{\circ}\text{C}$) and high specific pressure ($\geq 5\text{ MPa}$), provides flowing and subsequent curing of the thermosetting resins to obtain a homogeneous non-porous material ($\geq 1,35\text{ g/cm}^3$) with the required surface finish. Basically more than 60% of Formica Laminate consists of paper and the remaining 30-40% consists of cured phenol-formaldehyde resin for core layers and melamine-formaldehyde resin for the surface layer. Both resins belonging to the group of thermosetting resins are irreversibly interacted through cross linked chemical bonds formed during the curing process producing a non-reactive, stable material with characteristics which are totally different from those of its component parts.</p>	
Type of product:	<input type="checkbox"/> Chemical product	<input checked="" type="checkbox"/> Article
Date of preparation/revision:	2018/03/06	

Supplier/Manufacturer

Supplier:	Formica Group / Formica Skandinavien AB
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Supporting documentation

Has a declaration of performance, in line with the Swedish Construction Products Regulation, been prepared for the product?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the article/product an electronic product and covered by the RoHS-directive (2011/65/EU)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

2. Declaration of contents:

Does the product or any of its subcomponents, if it is a composite product, contain substances with particularly hazardous properties (Substances of Very High Concern, SVHC-substances), which are included in the Candidate List at a concentration above 0.1 weight%?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
State the date for control against the Candidate List	Date: 2017/02/20	
The concentration is calculated at component level established on the principle "once a product, always a product". The Candidate List is available at: http://echa.europa.eu/sv/candidate-list-table .		

Table 1.1, Contents for applied product: Laminate bonded to a particle board substrate.

Included substances and material	EG No./CAS No.	Weight% (of the applied product)	Comments (state any application of non-harmonized classifications)
Bonded item: Laminate (1.2 kg) + Particle board (19.9 kg) and glue (0.2 kg)			
Kraft paper, 100%		2.99%	
Décor paper, 100%		0.73%	
Laminate, melamine resin	8/1/9003	0.73%	
Laminate, phenolic resin	9003-35-4	1.18%	
Wood raw material, birch chippings		84.08%	
Binder, Urea formaldehyde	5/6/9011	8.41%	Of which <0,01%formaldehyde
Paraffin wax	8002-74-2	0.47%	
Dye	9003-35-4	0.47%	
Polyvinyl acetate Glue		0.94%	

Table 2.2, Contents for applied product: Infiniti Laminate bonded to a particle board substrate.

Included substances and material	EG No./CAS No.	Weight% (of the applied product)	Comments (state any application of non-harmonized classifications)
Bonded item: Laminate (1.2 kg) + Particle board (19.9 kg) and glue (0.2 kg)			
Kraft paper, 100%		3.27%	
Décor paper, 100%		0.28%	
Laminate, melamine resin	8/1/9003	0.17%	
Laminate, phenolic resin	9003-35-4	1.07%	
Acrylic Coating		0.85%	Of which 0.0082% silver ion
Wood raw material, birch chippings		84.08%	
Binder, Urea formaldehyde	5/6/9011	8.41%	Of which <0,01%formaldehyde
Paraffin wax	8002-74-2	0.47%	
Dye	9003-35-4	0.47%	
Polyvinyl acetate Glue		0.94%	

Nanomaterial

Does the product contain any nanomaterial that has been purposefully added to achieve a specific function?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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3. Recycled raw material

Does the product contain recycled material?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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If wood raw material is included

Can the product be ordered with sustainability certificates for the wood raw material? E.g.: FSC and PEFC	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
FSC certification type and number:	Chain of Custody and Controlled Wood: Formica Group TT-CW-003588 / TT-COC-003588 Linex Panneaux BV-CW-027746 / BV-COC-027746	
Certifier:	BM Trada	
In August 2013, Formica Group introduced FSC® certified laminates manufactured in its European plants. FSC® certified laminates are now available as standard across the majority of Formica Group's European product portfolio. All components of the Axiom worktop are FSC certified.		
<i>Document: Formica FSC CW/COC certificate</i>		
Is the wood species or origin in the CITES appendix for endangered species?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

4. The production phase

Has an Environmental Product Declaration (EPD) been prepared?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Has an active choice been made, regarding the electricity supplier, in order to promote electricity production from renewable energy sources?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Formica Group's electricity is sourced from Smartest Energy whose renewable energy products are certified by the Carbon Trust. Formica Group's energy management includes deployment of high-efficiency lamps for manufacturing facilities and auto-sensor lighting for our offices. Closed-loop, high pressure hot water systems in our plants retain heat for successive pressings through a heat recovery system in the manufacturing process. Production of Axiom worktops is done with 100% renewable energy supplied by Northern Powergrid (Northeast) Limited in Formica Limited factory Aycliffe.		

5. Distribution of the completed product

Describe the management of packaging for the distribution of the product	Description of the packaging: Formica Group recognizes the economic and environmental benefits that result from efficient resource use and recycling. We use scrap laminate as a packaging material to help reduce waste, recycle scrap metal produced by our maintenance departments, collect hydraulic oils used on presses and send them to a closed loop filtration system that enables their re-use. The packaging we use to ship Formica products is made from recycled materials. It is also re-usable, recyclable and biodegradable. We also recycle paper and cardboard throughout our manufacturing processes and in our distribution centers and offices. 100% of packaging materials that are scrapped are recycled.
Formica Skandinavien AB are members of FTI (Förpacknings- & Tidningsinsamlingen). <i>Document: Formica FTI Certificate</i>	

6. Construction and usage phase

Are there any special requirements such as storage conditions etc. for the product during storage?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Axiom Worktops should always be kept in an enclosed dry at a temperature of not less than 18°C (65°F).			
Are there any special requirements for adjacent building products because of this product?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are there any operating/care instructions for the product?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Document: Worktops: Installation and Maintenance			
Is the product energy labeled in accordance with the Energy Labeling Directive (2010/30/EU)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not relevant

7. Waste management

Does the product require special measures to protect health and the environment in conjunction with demolition/dismantling?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the product covered by the WEEE-directive 2012/19/EU (Swedish ordinance (2014:1075) on Producer Responsibility for electrical and electronic products when it becomes waste?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is it possible to re-use all or parts of the product? (can the product be reused within the product's expected lifetime)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is material recycling possible for all or parts of the product when it becomes waste?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Formica Laminate worktops can be brought to controlled waste disposal sites according to current national and/or Regional regulations. Waste material should be handled according to local regulations. Burning is permitted in approved industrial incinerators.		
Is energy recycling possible for all or parts of the product when it becomes waste?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
On account of their high calorific value (18 - 20 MJ/kg)*1 Formica Laminates are ideal for thermal recycling. When burnt completely at 700°C, Formica Laminates produce water, carbon dioxide and oxides of nitrogen. Therefore		

Formica Laminates comply e.g. with paragraph 6 of the economic law of circular flow (Kreislaufwirtschaftsgesetz). Well controlled burning processes are achieved in modern, officially approved industrial incinerators. Ashes of this process can be brought to controlled waste disposal sites.		
Does the supplier have any restrictions and recommendations for reuse, material- or energy recycling or disposal?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
When the supplied product becomes waste, is it classified as hazardous waste?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Waste code specification: The Swedish waste ordinance (2011:927) https://www.notisum.se/rnp/sls/lag/20110927.htm	17 09 04	

8. Indoor environment

Does the product have a critical moisture condition: <i>Information regarding whether critical moisture conditions leading to microbial growth apply for the material/product should be stated, but will not impact the assessment.</i>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the article intended for indoor use?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<i>If yes, has emission data been produced for volatile organic compounds?</i>	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<i>If yes, attach the report/certificate together with the application. See document: Formica HPL Greenguard certificate and FCBA test</i>		