

Document Type

Standard

Title

EcoDesign Standard Requirements

Purpose / Summary

The purpose of this document is to define the EcoDesign standard requirements, valid for all Bombardier Transportation products, including articles, materials and chemicals designed, purchased, manufactured or specified by Bombardier Transportation.

Additional requirements or stricter controls may be defined by Bombardier Transportation.

BTIP Hierarchy	Process	Document State	Effective date
20-45-30-20	EcoDesign	released	2016-11-15
Responsible Unit	Process Owner (Function)	Confidentiality	Language
GRP	Engineering	public	en

Area of Applicability

This document is applicable to all Bombardier Transportation Regions, Internal Suppliers, Business Units, Sites and Legal Entities.

Involvement of Process Stakeholders

	Bid Approval	Communications	Contracts, Legal & IPR	Engineering	Field Support	Finance	General Management	Health, Safety & Environment	Human Resources	Information Services	Marketing	Operation & Maintenance	Operations	Procurement	Product Planning	Project Management	Quality	Sales	Strategy	Other	Other
R Responsible																					
A Accountable																					
C Consulted																					
I Informed	I		I	R/A	I		I	R			I	R	I	R	I	I	I	I			

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Approval Log

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Released:	Sara Paulsson CoC EcoDesign	e-approved	2016-11-14
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Revision Log

Revision	Date of Release	Description of Changes
00	2010-07-02	First issue
01	2011-06-20	New terms on Controlled Substances and new requirements on batteries
02	2013-10-16	Update according to changes in Doc ID-number 000014 Rev 4 and adjustment of requirements.
03	2016-11-15	"EcoDesign" replaces "Design for Environment" and "chemical mixtures" replaces "chemicals". Update of hyperlinks

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1 Abstract

This document defines the EcoDesign standard requirements, valid for all Bombardier Transportation products, including articles, materials and chemicals designed, purchased, manufactured or specified by Bombardier Transportation.

2 Definitions and Abbreviations

Term	Definition
ISO	International Organization for Standardization
UNIFE	The Association of the European Rail Industry

3 EcoDesign requirements

3.1 Material and substance declaration

A material and substance declaration shall be submitted for the product, using the UNIFE Material Declaration template [1], or other format as specified by Bombardier Transportation.

The declaration shall include information on:

- Materials, chemical mixtures and controlled substances;
- Products with marking obligations.

3.2 Controlled substances

The product shall conform to the Controlled Substances standard, Doc ID-number 000014 [2]:

- Prohibited substances shall not be used;
- Declarable substances shall not be used unless approval of the material and substance declaration has been granted;
- Priority phase-out substances shall not be used unless phase-out information has been provided and approval has been granted using the Controlled Substances Derogation, Doc ID-number 000016 [3], or other template as specified by Bombardier Transportation.

3.3 Safety data sheets

Safety Data Sheets/Material Safety Data Sheets shall be provided for:

- Chemical mixtures in the product; for example transformer insulation oil or cooling liquids;
- Chemical mixtures for maintenance; for example paint or adhesives specified for repair.

3.4 Marking of products

Plastic, rubber and thermoplastic elastomer products shall be marked:

- Plastic products with a mass above 0.1 kg shall be marked according to ISO 11469 [4];
- Rubber products with a mass above 0.1 kg shall be marked according to ISO 11469 and ISO 1629 [5];
- Thermoplastic elastomer products with a mass above 0.1 kg shall be marked according to ISO 11469 and ISO 18064 [6].

When marking is not feasible, the required information shall be entered into the material declaration. Doc ID-number 000018 Marking of Plastics, Rubbers and Thermoplastic Elastomers [7] provides further guidance.

3.5 Document deliverables

The following document deliverables are required:

- Material and substance declaration for the product;
- Derogation request for priority phase-out substances;
- Safety Data Sheets/Material Safety Data Sheets for chemical mixtures.

3.6 Supporting documents

The supporting Bombardier Transportation and UNIFE documents are available at:

- bombardier.com/transportation/suppliers
- unife.org/railway-industry-substance-list

4 Reference Documents

[Ref. Nr.] Doc ID	Type	Title
[01]UNI-CR-001	Template	UNIFE Material Declaration template
[02]000014	Standard	Bombardier Transportation Controlled Substances
[03]000016	Template	Bombardier Transportation Derogation request template
[04]ISO 11469	Standard	Plastics – Generic identification and marking of plastics products
[05]ISO 1629	Standard	Rubber and latices – Nomenclature
[06]ISO 18064	Standard	Thermoplastic elastomers – Nomenclature and abbreviated terms
[07]000018	Standard	Marking of Plastics, Rubbers and Thermoplastic Elastomers

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