



Supplies Public Procurement

October 29th, Sustainable Printing, HP Channel Partners
Madeleine Bergrahm, EU Sustainable Public Procurement
and Nordic Sustainability lead



EU Directive for Public Procurement – new opportunities to include sustainability in procurement



Article 76

Principles of awarding contracts

1. Member States shall put in place national rules for the award of contracts subject to this Chapter in order to ensure contracting authorities comply with the principles of transparency and equal treatment of economic operators. Member States are free to determine the procedural rules applicable as long as such rules allow contracting authorities to take into account the specificities of the services in question.

2. Member States shall ensure that contracting authorities may take into account the need to ensure quality, continuity, accessibility, affordability, availability and comprehensiveness of the services, the specific needs of different categories of users, including disadvantaged and vulnerable groups, the involvement and empowerment of users and innovation. Member States may also provide that the choice of the service provider shall be made on the basis of the tender presenting the best price-quality ratio, taking into account quality and sustainability criteria for social services.



EU public procurement:
1.8 trillion Euro

EU GPP Criteria, basics

- Basic principles:
 1. Transparency
 2. Integrity
 3. Economy (commercially reasonable)
 4. Openness
 5. Fairness
 6. Competition
 7. Accountability
- Ambition levels:
 - CORE
 - COMPREHENSIVE
- Types of criteria
 - Selection criteria = assess the suitability of an economic operator regarding financial, technical knowledge level
 - Technical Specification (TS) = compulsory criteria, for the tendered object
 - Award criteria (AC) = to be evaluated in the tender phase, with a methodology that is outlined in the tender documentation
 - Contract Performance Clause (CPC) = criteria that should be fulfilled in the contract performance phase, after the tender phase.

<http://procurementclassroom.com/transparency/>

TOP 8 SUPPLIES SPP RECOMMENDATIONS

Selected on the basis of the following characteristics:

- a) Availability of legal requirements
- b) Be measurable and verifiable, using international standards or recognized ecolabels
- c) Their ability to differentiate suppliers without being biased towards either type/origins

Both criteria for supplies and **supplies** as **part of a print system** (printer + supplies + media) are included.

Address:

- Quality
- Health and Safety
- Compliance

AIM: an easy to use, actionable checklist.



Scope : types of cartridges except new from OEMs

Refilled cartridges

- Original HP empty cartridges
- Cleaned and refilled with non-HP toner or ink
- Packaging may not clearly describe the product
- Lower quality ink/toner



Refilled cartridges



Replaced worn-out parts



Remanufactures cartridges








New Built Compatibles

- 100% new built
- 0% Original HP parts
- 0% Original HP ink or toner
- Potentially patent infringing
- Potentially misleading naming & packaging



TOP 8 criteria for Supplies Sustainable Public Procurement

Topic	Why it matters	What criteria should you be looking out for?
Producer responsibility WEEE (printer cartridge) 	Compliance to EU and member state Producer / First Importer's obligations. This will be a new implementation of an existing requirement for supplies related to the E... Aug. 2018 (in all those mem... implemented).	Compliance of Supplies Producers or First importers to the WEEE Directive 2012/19/EU (a legal
Indoor Air Quality (printing system) 	Substance and particle emis... be within recognized accept... is important to comply with... Safety) requirements (these	Documents Environment, Health and Safety (EHS) information. Tool to show if the toner/ ink is hazardous or not.
Life cycle environmental impact (printing system or cartridge) 	Covers environmental aspe... printing, materials used in p... more. Related to requireme... eco design of products.	Page yield is connected to usability, number of pages possible to print at certain cost of supplies Ensures resource efficiency (circular economy).
CE-marking (printing system) 	Compliance to EU and mem... obligations (Do not use a printer when C	Guarantees permanence of printed documents over certain period of time, e.g. for legal reasons. Typically needed for documents generated and/or used by governmental and other public organizations, e.g. notary.
		Supplier to provide Safety Data Sheets (MSDSs) for offered printer cartridges containing toner or ink (if hazardous, in local language).
		Report cartridge page yield in accordance to ISO/IEC 19752, ISO/IEC 19798 and ISO/IEC 24711.
		Supplies in conjunction with certain printing devices (all listed in the test report) must meet the requirements of ISO 11798.
		The product must be covered by a warranty.
		Warranty is connected to cost, and in many routes to market for supplies providers a legal requirement. Ensures durability (circular economy)
		

TOP 8 SUPPLIES SPP RECOMMENDATIONS

1. Producer Responsibility – WEEE (printer cartridge)

CORE

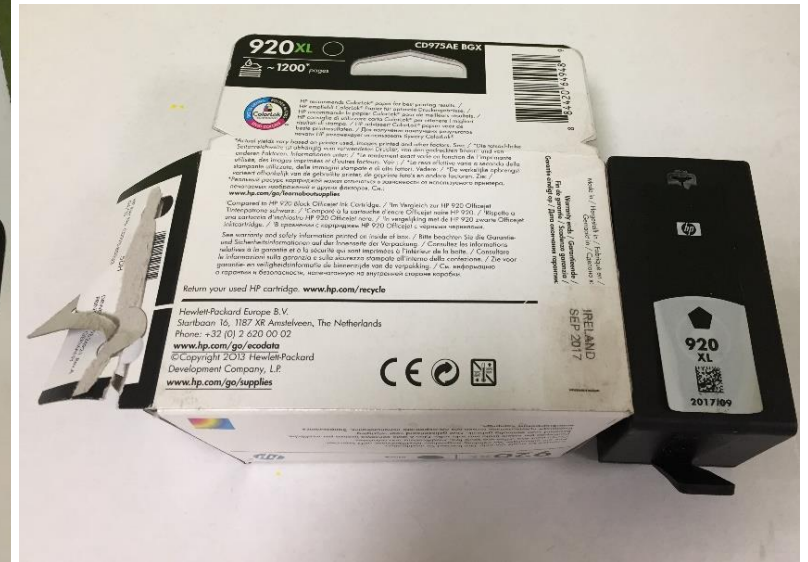


<p>Why it matters</p>	<p>Compliance to EU and member state Producer / First Importer's obligations.¹</p>
<p>What criteria should you be looking out for</p>	<p>Compliance of Supplies producers or first importers to the WEEE Directive 2012/19/EU</p>
<p>How will you know whether these criteria are being met?</p>	<p>Compliance to national WEEE regulation and its rules, mainly:</p> <ul style="list-style-type: none"> - wheelie bin marking on the supplies when products are put on the market - registration to the WEEE System (in all/most countries either direct or via compliance scheme) <p>Additional obligations are:</p> <ul style="list-style-type: none"> - information to consumers that they must dispose of these products separately - financing of take-back <p>Some countries have a National EEE Producer Register, some require producers to be members of a Compliance Scheme, others to use a Service Provider depending on the area where the waste must be picked-up. Verification will vary per member state rules. An example could be the presentation of a Registration Number or Membership Certification.</p>
<p>Step by step detailed verification</p>	<p>Check on the supply that the "wheelie bin" marking is applied. Verify on national register if the producer of the product (both original supplies producers or any type of producers of compatibles, remanufactured or refilled supplies) is listed².</p>
<p>Is it a legal requirement?</p>	<p>YES</p> <p>The WEEE Recast Directive 2012/19/EU entered into force on 13 August 2012 and became effective on 14 February 2014³. All EEE shall be classified within the categories set out in Annex III. Annex IV contains a non-exhaustive list of EEE which falls within the categories set out in Annex III (open scope). See Annex IX on Marking on EEE⁴</p>



Marking examples

HP original



TOP 8 SUPPLIES SPP RECOMMENDATIONS

2. Indoor Air Quality - (printing system)

CORE
Comprehensive: add
Ozone limits



Why it matters	Substance and particle emissions of the printing system should be within recognized acceptable levels. Indoor Air Quality, IAQ, is important in terms of compliance to EHS (Environment, Health and Safety) requirements (these vary per nation).
What criteria should you be looking out for	Supplies in use with a printer should guarantee indoor air quality as per international standard threshold limits.
How will you know whether these criteria are being met?	<p>The supplies tested with a compatible printer must meet the emission limit values regarding the release of chemical substances (TVOCs, undefined VOCs, Styrene and Benzene) and ultrafine particles as defined by the Blue Angel RAL-UZ 171 or RAL-UZ 205 standard.</p> <p>Verification by certifications according to RAL-UZ 171, 205, 177, Nordic Swann for Imaging Equipment version 6.4, and for cartridge 5.3), TUEV (TÜV)/LGA toner certification or other ISO Type I (ISO 14024) equivalent eco-label, compliant to these criteria or technical dossiers confirming that a chemical emissions and particle test has been conducted in accordance with ISO/IEC 28360:2012 and where the emission limit values of RAL-UZ 171 or RAL-UZ 205 are met.</p>
Step by step detailed verification	<p>Require a:</p> <ul style="list-style-type: none">- Valid certificate or- Contract of use of an ecolabel or- Attestation issued by one of the listed ecolabel systems. <p>Alternatively require a:</p> <ul style="list-style-type: none">- Technical dossier meeting the listed requirements and prepared according to the Chapter 5 of Appendix S-M of RAL-UZ 171 or 205.
Is it a legal requirement?	Not directly. Member states have EHS laws and there is a rising public awareness on IAQ. ⁵



Indoor Air Quality at HP

HP original

Indoor Air Quality Data Sheet

How original HP ink cartridges make a difference



HP PageWide Managed Color MFP E58650 series



Indoor air quality (IAQ) matters. To the well-being of our customers in domestic just as well as in business environments. This is why we invest so much effort in the IAQ performance of HP printing systems – meaning HP printers together with HP print media and original HP ink cartridges. Please find relevant information for the **HP PageWide Managed Color MFP E58650 series** when operated with original HP printing supplies below and make IAQ an essential part of your purchase decision.

1. Specific IAQ workplace safety

Controlled Indoor Air Quality at workplaces

HP PageWide Managed Color MFP E58650 series printing systems⁽¹⁾ ensure indoor air contributions far below relevant mandatory occupational exposure limit values around the world. In fact, customers can rely on the devices' compliance with the following relevant limits (details below):

- U.S. Permissible Exposure Limits⁽²⁾
- EU Binding Occupational Exposure Limit Values⁽³⁾
- German Occupational Exposure Limit Values⁽⁴⁾
- Australian Workplace Exposure Standards⁽⁵⁾
- Singapore Occupational Exposure Levels of Toxic Substances⁽⁶⁾

IAQ to be requested to Sustainability@hp.com



Brief

Indoor air quality matters

Original HP LaserJet cartridges make a difference

HP invests in the indoor air quality performance of HP printing systems

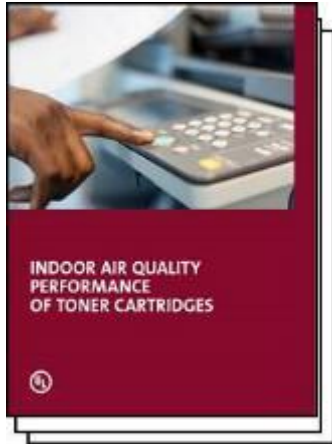
Did you know that using clone supplies can impact your indoor air quality? It is only when using Original HP cartridges that HP printing systems¹ can perform within emission guideline limits, such as those required for Blue Angel.²

Know the risks to air quality when using clone cartridges

Replacing the Original HP toner cartridge with a clone cartridge causes the HP printing system to fail indoor air emission standards. Clone cartridges fail Blue Angel emission standards during testing, with values over the allowed limits.² If you use Blue Angel as a purchase requirement, your printer may no longer qualify when using non-HP cartridges.



IAQ experts do not recommend reman toners – UL report findings

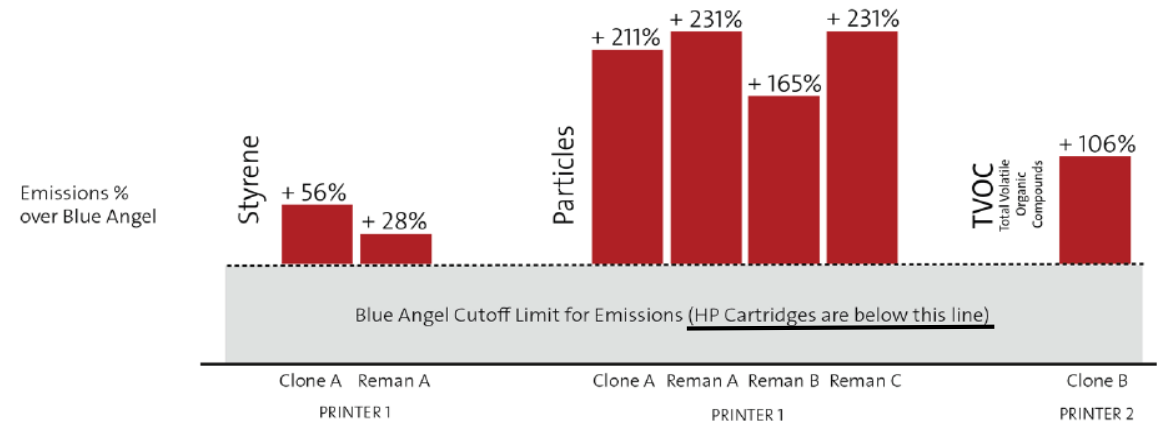


- Reman toners can make a Blue Angel certified printing system not meet award criteria anymore. *
- A purchase decision should require compliance with the most comprehensive certification criteria which only the Blue Angel for OEM printing systems can offer.*

[Download
whitepaper](#)

- Reman toners can substantially alter the IAQ performance of a printer compared to originals.¹
- **Original HP supplies are certified with Blue Angel label and fulfill a number of strict requirements as set out in the award criteria.**

Non-OEM Cartridges Fail Blue Angel IAQ Standard



1. Emission limit for Styrene is 1.8 mg/hr in color mode
2. Emission limit for Ultrafine Particles is 3.5×10^{11} particle/10-min printing
3. Emission limit for Total VOC is 18 mg/hr in color mode

*Based on a study conducted by UL published in 2017. For more details check: <http://industries.ul.com/environment>

TOP 8 SUPPLIES SPP RECOMMENDATIONS

3. Life cycle footprint - (printing system or cartridge)

CORE
Comprehensive: RAL
UZ 205



Why it matters	Covers environmental aspects such as energy efficiency in printing, materials used in products, noise level of printer and more. Related to requirements for EHS, circular economy and eco design of products.
What criteria should you be looking out for	Printing system (cartridges with printer) or cartridges should meet the requirements of recognized ecolabels covering environmental aspects during the lifecycle of the printing system (or cartridge). These criteria cover all lifecycle aspects besides Indoor Air Quality (covered in IAQ criteria).
How will you know whether these criteria are being met?	Proof can be given by offering products with the following certifications, listed in the order of how many different types of environmental aspects they cover: Blue Angel RAL-UZ 205 (or RAL-UZ 171), Blue Angel RAL UZ 177, Nordic Swan for Imaging Equipment ver. 6.4, TUEV(TÜV)/LGA toner certification or other ISO Type I (ISO 14024) equivalent eco-label (possibly also technical dossiers) compliant to these criteria.
Step by step detailed verification	Require a: <ul style="list-style-type: none">- Valid certificate or- Contract of use of an ecolabel or- Attestation issued by one of the listed ecolabel systems. Alternatively require <ul style="list-style-type: none">- Technical dossier meeting for the named ecolabels
Is it a legal requirement?	NO Not compulsory in EU GPP Directive, however the requirement overall to consider lifetime impact of product already exists in regulations, it's a holistic view. See ISO14024 for type I ecolabels ⁶

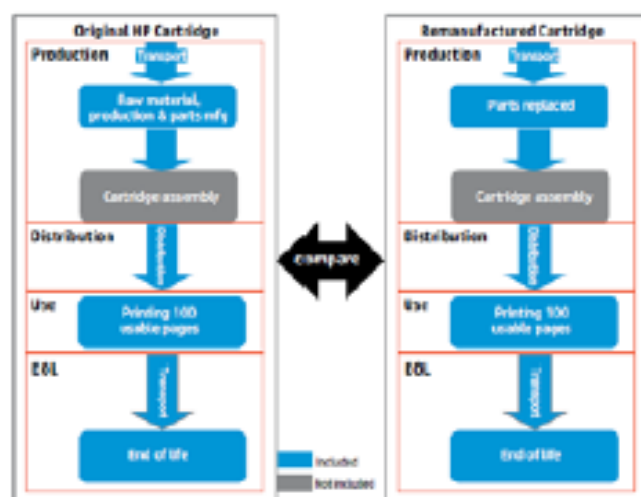
Life Cycle Assessment (LCA) EMEA for HP, Four Elements, June 2016

Environmental Leadership - Life cycle analysis (LCA)

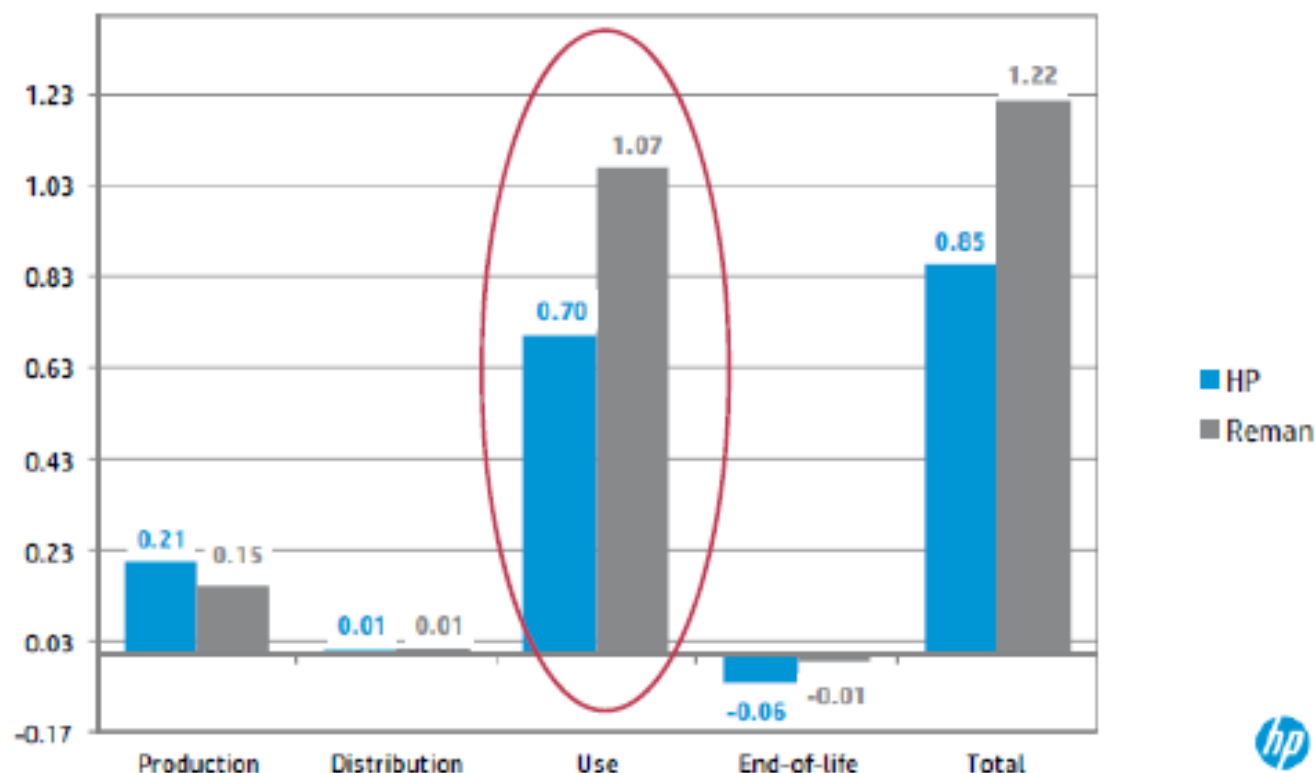
Considerations from all cartridge life stages included

- Use phase has the greatest impact on the climatic change metrics with 82% for HP and 88% remans
- Assessment and consideration of the use phase supports the critical nature of cartridge performance

Study's system boundaries



Contribution Analysis by Life Cycle Stage – Climate Change for HP and Reman

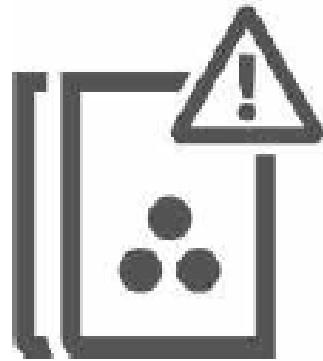


Environmental Leadership - Life cycle analysis (LCA)

Across all areas studied, Original HP toner cartridges had a lower environmental impact compared with remanufactured cartridges.¹

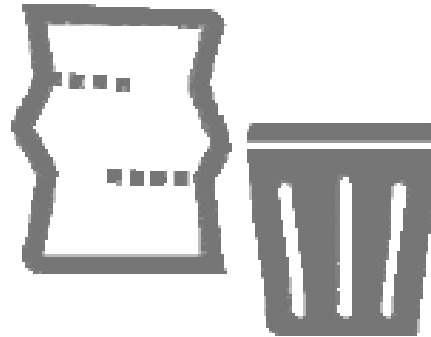


Wasted pages



Inconsistent print quality can often lead to reprinting and increased paper consumption, which can increase a cartridge's environmental impact.¹

Misuse of paper



Remanufactured toner cartridges can use 27 times the paper for reprinting due to unsuitable and inconsistent print quality as compared to Original HP toner cartridges.¹

Impact on the environment



Remanufactured toner cartridges have a 42% larger carbon footprint than Original HP toner cartridges.¹








1. 2016 Four Elements Consulting LCA study, commissioned by HP, compared Original HP 80A and 83A monochrome toner cartridges with a sample of remanufactured alternatives across eight environmental impact categories. For more, visit www.hp.com/go/EMEA-LJLCA-2016. The LCA leverages a SpencerLab 2016 study, commissioned by HP, comparing Original HP LaserJet toner cartridges with six brands of non-HP toner cartridges sold in EMEA. For details, see <http://www.spencerlab.com/reports/HPReliability-EMEA-RM2016.pdf>



Not all labels are equivalent

Labels for remanufactured cartridges omit important criteria

Blue Angel according to RAL-UZ 171/205 covers the most stringent and comprehensive environmental requirements

Eco label	Applies to whole printing system?	Covers laser and ink technologies?	Chemical emissions (incl. ozone)	Particle emissions		Photoconductor drums	Return and recycling features	Additional criteria for the whole printing system	
				Device volume ≤250l	Device volume >250l			Energy	Noise
Blue Angel – RAL-UZ 205 ⁽¹⁾ 	✓	✓	✓	✓	Yes, but particle number guide value is excluded for high print speed devices ($S_M \geq 60$ ppm and $S_F \geq 40$ ppm) until 01.01.2019 (grace period)	✓	✓	✓	✓
Blue Angel – RAL-UZ 171 ⁽²⁾ 	✓	✓	✓	✓	Yes, but no particle number guide value	✓	✓	✓	✓
Blue Angel – RAL-UZ 177 edition January 2017 ⁽³⁾ 	No – only for reman. toner cartridges (even for printers which are not BA certified)	No – only laser	Yes, but no guide value for ozone	Yes, but particle number guide value only required for use in devices introduced from 01.01.2013 or in devices cert. acc. to RAL-UZ 171/205	Yes, but particle number guide value only required for use in devices introduced from 01.01.2017 or for exclusive use in devices cert. acc. to RAL-UZ 205	⊘	✓	⊘	⊘
Blue Angel – RAL-UZ 177 edition August 2013 ⁽⁴⁾ 	No – only for reman. toner cartridges (for use in printers certified acc. to RAL-UZ 171)	No – only laser	Yes, but no guide value for ozone	✓	Yes, but no particle number guide value	⊘	✓	⊘	⊘
Nordic Swan for reman. OEM toner cartr. ⁽⁵⁾ 	No – only for remanufactured toner cartridges	No – only laser	No mandatory test chamber measurements*	⊘	⊘	No specific criteria for photocon. drums	✓	⊘	⊘
TUEV Rheinland/ LGA tested for contaminants ⁽⁶⁾ 	No – only for toner cartridges	No – only laser	Yes, but no guide value for ozone	⊘	⊘	No specific criteria for photocon. drums	⊘	⊘	⊘
DGUV Test ⁽⁷⁾ 	No – only for toners	No – only toner powder	⊘	⊘	⊘	⊘	⊘	⊘	⊘

*The label can be obtained without emissions testing being conducted under real-life conditions together with the printer. Toner analysis alone can be sufficient.

TOP 8 SUPPLIES SPP RECOMMENDATIONS

4. CE marking - (printing system)

Comprehensive
Core as of 2019



Why it matters	EU legal requirement for IT Equipment (ITE) and, from 23 July 2019 onwards, also for most printer cartridges.
What criteria should you be looking out for	Assure for printing system and supplies a) valid CE marking is affixe, b) valid signed Declaration of Conformity (DoC) is available (for ITE and, from 23 July 2019 onwards, also for most printer cartridges)
How will you know whether these criteria are being met?	<p>EU Declaration of Conformity (EU DoC) for a printer reflects product options/supplies that have been used during compliance tests to assure conformity to applicable EU Directives.</p> <ul style="list-style-type: none"> - Test reports shall include printer components (modules, supplies, printer adapter...). - Manufacturers will thus add CE marking on tested product. This is legally mandatory to utilize a printer in EU member states. <p>If supplies are used in a printer that are not reflected on EU DoC, CE marking is no longer assured and printer shall not be utilized (i.e. switched on), except if the reman/refill manufacturer offers evidence of compliance (e.g. EMC test report) that confirms "CE compliance" of the printer with reman/refill supplies is assured.</p>
Step by step detailed verification	<p>Assure "printer EU Declaration of Conformity" includes used supplies.</p> <p>If non-original supplies are utilized, ask "supplies manufacturer" to provide "evidence of compliance" for CE marking. Either with: a) a new EU DoC, or b) with adequate test reports</p> <p>Do not use a printer when CE compliance is not confirmed.</p>
Is it a legal requirement?	<p>YES - CE marking on product</p> <p>a) EU Directives are typically applicable for IT office printing system and require CE marking on printer (as visible compliance symbol) ⁷</p> <p>Printer EU DoC includes manufacturers' compliance statement for CE requirements that is valid only for "tested/verified options/supplies". The one who changes a "supported printer configuration" takes over "manufacturers' responsibilities" and has to assure CE compliance (e.g. offer test reports). Otherwise CE marking is no longer valid and printer shall not be switched on anymore.</p> <p>b) Yes as of 2019 (RoHS) Supplies will be covered by the RoHS recast Directive 2011/65/EU became effective on 3 January 2013</p>



Let's look at a DOC

All Doc available [on line](#)



DÉCLARATION DE CONFORMITÉ

selon la norme ISO / IEC 17050-1 et EN 17050-1

Doc #: BOISB-1606-02-R6Traduction/fr

Nom du fabricant: HP Inc.
Adresse du fabricant: 11311 Chinden Boulevard, Boise, Idaho 83714-1021 USA
déclare que le produit

Nom du produit et le modèle:⁽¹⁾ HP PageWide Enterprise Color MFP 780dn, HP PageWide Managed Color MFP E77650dn, HP PageWide Managed Color MFP E77660dn, HP PageWide Managed Color MFP E7767dn, HP PageWide Enterprise Color MFP 780dns, HP PageWide Managed Color MFP E77650dns, HP PageWide Managed Color MFP E77660dns, HP PageWide Managed Color MFP E7767dns, HP PageWide Managed Color Flow MFP E77650z, HP PageWide Managed Color Flow MFP E77660z, HP PageWide Managed Color Flow MFP E776z, HP PageWide Managed Color Flow MFP E77650zs, HP PageWide Managed Color Flow MFP E77660zs, HP PageWide Managed Color Flow MFP E776zs, HP PageWide Managed Color Flow MFP E7760zts

Numéro de modèle réglementaire:⁽¹⁾ BOISB-1606-02

Options du produit: Voir l'annexe I

est conforme aux normes et règlements de produit suivantes:

Sécurité:

IEC 60950-1:2005 + A1:2009 + A2:2013
EN 60950-1:2006 + A1:2009 + A1:2010 + A12:2011 + A2:2013
/ -AC:2011
IEC 62479:2010 / EN 62479:2010
IEC 62471:2006 / EN 62471:2008

EMC

CISPR 22:2008 Class A
CISPR 32:2012 Class A / EN 55032:2012 Class A
EN 55024:2010
EN 61000-3-2:2014
EN 61000-3-3:2013
FCC CFR 47 Part 15 Class A
ICES-003, Issue 6 Class A

RoHS

EN 50581:2012

Ce produit est conforme aux exigences de la Directive Basse Tension 2014/35/UE, la directive CEM 2014/30/UE, la directive RoHS 2011/65/UE et porte la marque

Informations complémentaires:

- 1) A ce produit est assigné un numéro de modèle réglementaire qui reste avec les aspects réglementaires de la conception. Le numéro de modèle réglementaire est le principal identificateur de produit dans la documentation réglementaire et les rapports d'essais, ce nombre ne doit pas être confondu avec le nom commercial ou les numéros de produit.
- 2) Ce produit a été testé dans un environnement typique HP en conjonction avec un système hôte HP.
- 3) Le produit répond aux exigences de la norme EN 55032 et CNS13483 Classe A, dans ce cas, applique ce qui suit: Attention - Ceci est un produit de classe A. Dans un environnement domestique, ce produit peut provoquer des interférences radio, auquel cas l'utilisateur peut être amené à prendre des mesures adéquates

Boise, Idaho
11-01-2018

vérifier la signature sur la déclaration d'origine annexé

Rich Payne, Manager
LES Product Regulations

Contact local pour les réglementations uniquement:

EU: HP Deutschland GmbH, HP HQ-TRE, 71025 Boeblingen, Germany
U.S.: HP Inc., 1501 Page Mill Road, Palo Alto 94304, U.S.A. 650-857-1501

www.hp.eu/certificates

DÉCLARATION DE CONFORMITÉ

selon la norme ISO / IEC 17050-1 et EN 17050-1

ANNEXE I

Numéro de modèle réglementaire (RMN): BOISB-1606-02

OPTIONS

DESCRIPTION:*	RMN OPTION:*
HP PageWide 550-sheet Paper Tray	A7W99A
HP PageWide 550-sheet Paper Tray and Stand	W1B50A
HP Page Wide 3x550-sheet Paper Tray and Stand	W1B51A
HP Page Wide 4000-sheet HCl Paper Tray and Stand	W1B52A
HP PageWide Managed 550-sheet Paper Tray	P1V16A
HP PageWide Managed 550-sheet Paper Tray and Cabinet	P1V17A
HP PageWide Managed 3x550 sheet Paper Tray and Stand	P1V18A
HP PageWide Managed 4000 sheet High-capacity Paper Tray and Stand	P1V19A
HP PageWide Toner Cartridges:	
HP 982X High Yield Black	T0B30A
HP 982X High Yield Cyan	T0B27A
HP 982X High Yield Magenta	T0B28A
HP 982X High Yield Yellow	T0B29A
HP 982A Black	T0B26A
HP 982A Cyan	T0B23A
HP 982A Magenta	T0B24A
HP 982A Yellow	T0B25A



* Où X représente n'importe quel caractère alphanumérique.





CE marking - required by EU law



After passing compliance tests, the manufacturer confirms with CE marking on the product the conformity to requirements of legally applicable EU directives.

EU Directives for IT equipment (such as office printers)

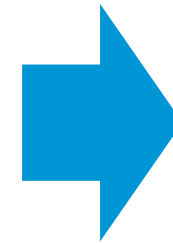
2014/35/EU = Low Voltage Directive (Product Safety, LVD)

2014/30/EU = Electromagnetic Compatibility Directive, EMC-D)

2014/53/EU = Radio Equipment Directive (RE-D)

2011/62/EU = Restriction of hazardous substances Directive (RoHS)

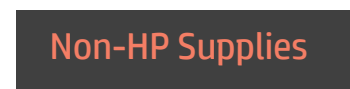
2009/125/EC = Ecodesign Directive - energy-related products (eco-design)



- ✓ Test reports for a printer confirms CE compliance
- ✓ Ink/ toner cartridges must be mentioned in the test report
- Not original HP inks / toner cartridges are not mentioned



Printer bears CE marking accordingly



HP proof of CE compliance is not valid for this combination!

TOP 8 SUPPLIES SPP RECOMMENDATIONS

5. SDS, Safety Data Sheets

Comprehensive



Why it matters	Documents Environment, Health and Safety (EHS) information. Tool to show if the toner/ ink is hazardous or not.
What criteria should you be looking out for	Supplier to provide Safety Data Sheets (SDSs) for offered printer cartridges containing toner or ink (if hazardous, in local language).
How will you know whether these criteria are being met?	SDS available on the web or in another form.
Step by step detailed verification	A SDS should be immediately available at first delivery of supply (required for hazardous toner/ink cartridges, in local language) or upon request (enough for non-hazardous). A suggestion is to get the confirmation before placing an order to ensure SDSs are available.
Is it a legal requirement?	YES Based on 1272/2008/EC The format and content of the safety data sheets are specified in Annex II of REACH: Regulation (EU) 2015/830 of the Commission dated 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).



HP SDS are available [on line](#)

Sustainability

Overview Society Environment **Integrity** [View Sustainability Report](#)

Products and solutions / Material Safety Data Sheets

MSDS: HP LaserJet Supplies

[Share](#)

Select Product Category

LaserJet Supplies

On-line access to Material Safety Data Sheets (MSDSs) for several countries and languages is available for the printing supplies listed below.

MSDS's contain safety information about materials such as physical, chemical and toxicological properties, regulatory information, and recommendations to ensure safe handling.

Display MSDSs for your country/language **Find on this page:**
To find text or values on this page, use keyboard keys Ctrl+F

Select (country/language)


United States/English

If your country is not available, [contact us](#) and provide the country and language. New countries and languages are prioritized according to demand.

To view or print the PDF files below, you need to have Adobe Acrobat Reader installed on your computer. Acrobat Reader is a free plug-in. You can download the [latest version](#) or download a [version with accessibility features](#).

Part #	Description	Product Compatibility
92274A	HP LaserJet 92274A Print Cartridge	HP LJ 4L/4ML/4P/4MP
92298A-X	print cartridge	HP LaserJet 4, 4M, 4M, 4M Plus, HP LJ 5, 5M, 5N Series Printers
C3903A-F	print cartridge	HP LaserJet 5mp, 5p, HP LJ 6mp, 6p Series Printers

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SAFETY DATA SHEET

1. Identification

Product identifier HP Color LaserJet C4151A Magenta Print Cartridge

Other means of identification Not available.

Recommended use This product is a magenta toner preparation that is used in HP Color LaserJet 8500/8550/8550mfp series printers.

Recommended restrictions None known.

Company identification HP
1501 Page Mill Road
Palo Alto, CA 94304-1112
United States
Telephone 650-857-5020

HP health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-760-710-0048
HP Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551
Email: hpcustomer.inquiries@hp.com

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement Not available.

Precautionary statement

Prevention Not available.

Response Not available.

Storage Not available.

Disposal Not available.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

TOP 8 SUPPLIES SPP RECOMMENDATIONS

6. Page Yield - (printer cartridge)

Core



Why it matters	Page yield is connected to usability, number of pages possible to print at certain cost of supplies. Ensures resource efficiency (circular economy).
What criteria should you be looking out for	Report cartridge page yield in accordance to ISO/IEC 19752 (Black laser), ISO/IEC 19798 (Color laser) or ISO/IEC 24711 (Ink).
How will you know whether these criteria are being met?	Page yield test reports as described in these standards have to be provided as proof for the page yield claim (ISO standards assess the number of pages which can be printed from a cartridge with a specific printer, with continuous printing in a controlled environment).
Step by step detailed verification	Require test reports from testing performed in accordance with one of the following standards ISO/IEC 19752, or ISO/IEC 19798 or ISO/IEC 24771 and that state the page yield claim.
Is it a legal requirement?	No

Look for the yield
available [on line](#)

En savoir plus sur les consommables HP d'origine

[Vue d'ensemble](#)

[Cartouche d'encre HP](#)

[Toner HP](#)

[Commander des consommables](#)

[Sélectionner le pays](#)

Rendement en pages

Le rendement en pages est le nombre de pages qu'un utilisateur peut imprimer avec telle imprimante et telle cartouche, selon certaines conditions.

HP a collaboré à l'élaboration de la norme ISO/IEC 24711 et y a apporté son soutien. Celle-ci définit les rendements en pages des imprimantes jet d'encre. HP a collaboré à l'élaboration des normes ISO/IEC 19752 et ISO/IEC 19798 et y a apporté son soutien. Celles-ci définissent les rendements en pages des imprimantes laser couleurs et monochromes.



Trouver la page rendements pour imprimantes spécifiques

Recherche par numéro de
cartouche

Exemple: 60, 35A, CE505A

[Atteindre](#)

Recherche par nom
d'imprimante

Exemple: 6500, D110A, P1102w

[Atteindre](#)



Trouvez des produits

-- Choisissez une imprimante --



-- Choisissez une gamme --



-- Choisissez un modèle --



TOP 8 SUPPLIES SPP RECOMMENDATIONS

7. Archivability, durability of printouts - (printing system)

Core if local regs in place or comprehensive if not



Why it matters	Guarantees permanence of printed documents over certain period of time, e.g. for legal reasons. Typically needed for documents generated and/or used by governmental and other public organizations, e.g. notary.
What criteria should you be looking out for	Supplies in conjunction with certain printing devices (all listed in the test report) must meet the requirements of ISO 11798.
How will you know whether these criteria are being met?	Proper test reports in accordance to ISO 11798 or the ISO 11798 certificates issued by a certification body. Printout quality always depends on: a) Print engine (i.e. printer), and b) Supplies, and c) Paper All three components are reflected in an ISO 11798 certificate. Recertification is needed if another cartridge than the cartridge listed in the certificate/test report is utilized in a printer.
Step by step detailed verification	Identify whether "Archivability" or "Durability" of printouts is desired for your application. If so, ask supplies manufacturer for ISO 11798 certification. When offered, printouts fulfill legal requirements. Without such certificate, printouts may not fulfill such legal duties.
Is it a legal requirement?	Not mandatory for all EU countries, but for some and then in certain applications (Legally required, at least in certain applications related to use by public sector in Belgium, Finland, Germany, Netherlands, Sweden, Switzerland) ⁸ .

Archivability, durability of printouts –
(printing system) available on [line](#)



CERTIFICATE

45 04 04

**Ink “HP 771 MB/CR/Y/M/LM/LC/PB/LG”,
“HP 773 MB/CR/Y/M/LM/PB/LG/C” and
“HP 745 MB/CR/Y/M/PB/C” for inkjet printers**

Holder/ Issued to

HP PPS Sverige AB, Gustav III Boulevard 30, 169 73 Solna. Tel: 08 – 524 910 00.

Product

Colour ink designated HP 771 MB/CR/Y/M/LM/LC/PB/LG, HP 773 MB/CR/Y/M/LM/PB/LG/C and HP 745 MB/CR/Y/M/PB/C for inkjet printers.

Characteristics/class

This certificate relates to documents produced on archival paper and permanent.

Specification of requirements

The Swedish National Archives regulations (RA-FS 2006:4 as latest amended by RA-FS 2016:1) on technical requirements and certification, chapter 4, 4 §, which refers to SS-ISO 11798:2000 for test methods and requirements, with the amendments specified below, and SP's certification rules SPCR 004 - 2015.

ISO 11798, Table 2 – Maximum changes of multicoloured images

	ΔL^*	Δa^*	Δb^*
Subclause 4.3, 4.4 and 4.7, all colours except yellow	± 8	± 8	± 8
Subclause 4.3, 4.4 and 4.7, yellow	± 8	± 8	± 15

Testing

Testing has been performed in accordance with SS-ISO 11798:2000 Information and documentation – Permanence and durability of writing, printing and copying on paper – Requirements and test methods, by SP, Borås. The results have been described in SP's reports Nos. FX120805-2 and 6F021480-1 (2016-12-29)

Marking

Each product shall be marked with an unambiguous product designation as above. Marking of the product or package may also include the words 'Svenskt arkiv' and the number of this certificate, or the certification symbol (see below).

Validity

Until and including 2018-01-03

Borås 2017-01-20

SP Technical Research Institute of Sweden

Certification


Lennart Aronsson
Product Certification Manager


Ellen Holmström
Certification Officer



Certificate issued by an accredited Certification Body

SP Technical Research Institute of Sweden

Box 857, SE-501 15 Borås, Sweden

Phone: +46 10-516 50 00

E-mail/Internet: info@sp.se/www.sp.se

This certificate may not be reproduced other than in full, except with the prior written approval by SP.



TOP 8 SUPPLIES SPP RECOMMENDATIONS

8. Warranty - (printer cartridge)

Core

2 Year

Why it matters	Warranty is connected to cost, and in many routes to market for supplies providers a legal requirement. Ensures durability (circular economy)
What criteria should you be looking out for	The product must be covered by a warranty.
How will you know whether these criteria are being met?	Provide information on your supplies warranty (repair and replace) conditions including the duration of the warranty.
Step by step detailed verification	Verify documentation delivered with product or referenced online.
Is it a legal requirement?	<p>The laws related to legal obligation on warranties, although there is a minimum harmonization within the EU, vary from country to country. Applicability needs to be checked per country and route to market.</p> <ul style="list-style-type: none">• When a supplies manufacturer sells directly (i.e. web stores for instance) the producer must provide customers with a 2 years legal warranty within EU, and HP as seller must provide the warranty statement upon request by the consumer.• Retailers, as sellers to consumers, are obliged to provide the 2 years legal warranty mentioned above. There are countries where such obligations extend and also apply to the manufacturer.• A manufacturer's warranty statement must cover details on the warranty conditions, limitations and exclusions. The warranty statement is binding on manufacturer as well as retailers.



SUMMARY

- Political debate around use of 'waste hierarchy' in all decisions, we state that it has to be backed up by data in some/a few/cases
- HP developed 'Top 8' Supplies Sustainable Public Procurement recommendations to create a level playing field among all legal actors
- Top 8 cover: Quality of print-outs + Health & safety + Compliance
- They are : 1. WEEE, 2. IAQ, 3. Life Cycle Impact, 4. CE-Marking, 5. SDS, 6. Page Yield, 7. Archivability, 8. Warranty
- Outreach with Government Relations and via country /regional Sust Managers, and EMEA Supplies team
- Languages: English, French, German, Italian, Spanish, Dutch, Swedish (Russian, Turkish)

- Yes, ... we've seen some uptake in member state tenders and guidelines

Available at www.hp.com/sustainability under Planet - Products - Overview



Thank you / Kiitos

