

#### Product environmental attributes – THE ECO DECLARATION

The declaration may be published only when all rows and/or fields marked with an \* are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P14.

Brand *	HP	Logo		
Company name *	HP			
Contact information *	HP Environmental Contact Center environment@hp.com	<u>np</u>		
Internet site *	http://www.hp.com/hpinfo/globalcitizenship/environment/			
Additional information				

The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.					
Type of product *	tebook PC				
Commercial name *	P Zbook 17 G4 Mobile Workstation				
Model number *	G4				
Issue date *	3/24/2017				
Intended market *	Global 📃 Europe 🗌 Asia, Pacific & Japan 🗌 Americas 🗌 Other				
Additional information					

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

Quality Control			nt met
Item		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration	$\boxtimes$	
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality contro such as organized by IT-Företagen (see www.itecodeclaration.org).	ol 🔀	

Model number *	17 G4		
Issue date *	3/24/2017	Logo	hp

Produc	t environmental attributes - Legal requirements	Require		met
Item		Yes	No	n.a.
P1	Hazardous substances and preparations			
P1.1*	Products do not contain more than; 0.1% lead, 0.01% cadmium, 0.1% mercury, 0.1% hexavalent chromium,	$\bowtie$		
	0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See legal reference and Note B1)			
D4 0*				
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	$\bowtie$		
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC),			
F1.3	hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-	$\bowtie$		
	trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum			
	concentration values.			
P1.4*	Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated	$\square$		
	terphenyl (PCT) in preparations (see legal reference).			
P1.5*	Products do not contain more than 0.1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the	$\square$		
-	chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).			
P1.6*	Textile and leather parts with direct skin contact do not contain Tri-(2,3,-dibromopropyl)-phosphate (TRIS),			
	Tris-(aziridinyl)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference).			
	Comment: Legal reference has no maximum concentration values.			
P1.7*	Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split	$\square$		
	aromatic amines. (See legal reference and Note B1)			
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as			$\square$
	pentachlorophenol and derivatives (see legal reference).			
	Comment: Legal reference has no maximum concentration values.			
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5	$\square$		
	microgram/cm <sup>2</sup> /week (see legal reference).			
	Comment: Max limit in legal reference when tested according to EN1811:1998.			
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact):	$\bowtie$		
	http://www.hp.com/hpinfo/globalcitizenship/environment/productdata/reachdesktop-pcs.html			
P2	Batteries			
P2.1*	If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains	$\square$		
	more than 0.0005% of mercury (for button cells only) by weight, or more than 0.004% of lead, it shall be			
	marked with the chemical symbol for the metal concerned, Hg or Pb. Information on proper disposal is			
	provided in user manual. (See legal reference)			_
P2.2*	Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or	$\boxtimes$		
	accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference)			_
P2.3*	Batteries and accumulators are easily removable by either users or service providers (as dependent on the	$\bowtie$		
	design of the product). Exception: Batteries that are permanently installed for safety, performance, medical			
P3	or data integrity reasons do not have to be "easily removable". (See legal reference) Safety, EMC connection to the telephone network and labeling			
P3.1*	The product complies with legally required safety standards as specified (see legal reference).			
			ᆜ	
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).	$\square$		
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies			
	with legally required standards for radio and telecommunication devices (see legal reference).			
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).			
P4	Consumable materials			
P4.1*	If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium max 0.01% (see			$\square$
	legal reference and Note B1).			
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).			$\square$
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the	<u> </u>	H	
. 4.0	product/packaging is adequately labeled and a Safety Data Sheet (SDS) in accordance with these			$\square$
	requirements is available (see legal reference).			
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium and	$\square$		
	hexavalent chromium by weight of these together.			
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).			
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference).	$\bowtie$		

Note B1: Restriction applies to the homogeneous material, unless other specified and expressed in weight %.

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Issue date *		3/24/2017 Logo	h	7	
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Draduc			Description		
Item		mental attributes - Market requirements - Environmental conscious design I atory to fill in. Additional information regarding each item may be found under P14.	Require Yes	Ment No	
<b>P6</b>		nt information	Tes	INU	n.a.
P6.1*		on for recyclers/treatment facilities is available (see legal reference).			
P7	Design				
		mbly, recycling			
P7.1*		t have to be treated separately are easily separable	$\square$		
P7.2*	Plastic m	naterials in covers/housing have no surface coating.		$\square$	
P7.3*	Plastic p	arts >100g consist of one material or of easily separable materials.			$\boxtimes$
P7.4*		arts >25g have material codes according to ISO 11469 referring ISO 1043.	$\boxtimes$		
P7.5	Plastic p	arts are free from metal inlays or have inlays that can be removed with commonly available tools.	$\boxtimes$		
P7.6*	Labels a	re easily separable. (This requirement does not apply to safety/regulatory labels).			
	Product	lifetime			
P7.7*	Upgradir	ng can be done e.g. with processor, memory, cards or drives	$\boxtimes$		
P7.8*	Upgradir	ng can be done using commonly available tools	$\boxtimes$		
P7.9.	Spare pa	arts are available after end of production for: 5 years			
P7.10		s available after end of production for: years	-		
		and substance requirements			
P7.11*		cover/housing material type:			
	Material	type: PC+ABS(FR40) Material type: Material type:			
P7.12	Electrica	I cable insulation materials of power cables are PVC free.		$\boxtimes$	
P7.13	Electrica	I cable insulation materials of signal cables are PVC free	$\square$		
P7.14	All cover	/housing plastic parts >25g are free from chlorine and bromine.	$\boxtimes$		
P7.15	All printe Note B2)	d circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See	• 🔀		
P7.16		tarded plastic parts >25g in covers / housings are marked according ISO 1043-4: PC+ABS(FR40)	$\square$		
P7.17	Alt. 1				_
		I specifications of flame retardants in printed circuit boards >25g (without components):			
	TBBPA (	additive) , TBBPA (reactive) , Other; chemical name: , CAS #:			
	Alt. 2				
		I specifications of flame retardants in printed circuit boards (without components) >25g according	$\bowtie$		
		3-4: FR(40), FR(41)		-	
P7.18	Alt. 1				
		etarded plastic parts >25g contain the following flame retardant substances/preparations in			
		ations above 0.1%: ent: No legal limits exist, this is a market requirement.			
		ical name: , CAS #:			
		ical name: , CAS #:			
		ical name: , CAS #:			
	Alt. 2				
		I specifications of flame retardants in plastic parts >25g according ISO 1043-4:			
P7.19	PC+ABS Plastic p	arts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45,		-	
	R40, R40	6, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)			
P7.20 P7.21		plastic parts' weight >25g, recycled material content is <b>0.0%</b> .			
P7.21 P7.22		Iastic parts' weight >25g, biobased material content is 0%. Irces are free from mercury			
1 1.22	0	y is used specify: Number of lamps: and max. mercury content per lamp: mg			
P8	Batterie				
P8.1*		hemical composition: lithium ion,			$\square$
P8.2	Batteries	meet the requirements of the following voluntary program/s:			
L		· · · · · · · · · · · · · · · · · · ·			

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Note B2: IEC61249-2--21 has maximum limits for chlorine and bromine but does not address fluorine, iodine and astatine which are included in the group of halogens.

Note B3: 'Starting from January 2009, Risk phrases can be replaced by Hazard phrases according to the Globally Harmonized System (GHS), mandatory by December 2010.

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Product environmental att	ributes - Market re	quirements (con	tinued)		Requirement met
ltem					Yes No n.a.
P9 Energy consumpt					
9.1 For the product the	following power levels	or energy consump	otions are reported	ed:	
Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level 230 V AC	at	Reference / Standard for energy modes and test method *
ENERGY STAR® On Mode * (System Short Idle)	14.68 W	14.53 W	15.11 W		ENERGY STAR <sup>®</sup> Program Requirements for Computers: Ver. 6.1
ENERGY STAR® On Mode * (System Long Idle)	6.84 W	6.94 W	7.37 W		ENERGY STAR <sup>®</sup> Program Requirements for Computers: Ver. 6.1
ENERGY STAR® Low Power Sleep Mode * (S3 - Windows "Standby") With Wake On LAN (WOL) Enabled	0.83 W	<b>0.83</b> W	<i>0.88</i> W		ENERGY STAR <sup>®</sup> Program Requirements for Computers: Ver. 6.1
ENERGY STAR® System Off/Apparent Off Mode* (ACPI S5) With Wake On LAN(WOL) Enabled (Test Unit connected to AC Mains, AC adapter connected to notebook)	0.44 W	0.44 W	0.47 W		ENERGY STAR <sup>®</sup> Program Requirements for Computers: Ver. 6.1
ETEC * Annual Energy Consumption (calculated value) for each input voltage	48.07 kWh/year	47.78 kWh/year	<b>49.87</b> kWh/yea	ar	ENERGY STAR <sup>®</sup> Program Requirements for Computers: Ver. 6.1
Display resolution* : N	legapixels				
Print Speed * : Ir	nages per minute				
Default time to enter energy say	5 1	ites			ENERGY STAR <sup>®</sup> Program Requirements for Computers: Ver. 6.1
P9.2* Information about th	ne energy save function	n is provided with th	e product.		
P9.3* The product meets ENERGY STAR® v Others specify:	the energy requirement version: 6.1 Tier:	ts of the following v Product categor		n/s:	
P10 Emissions					
Noise emission –	Declared according to	ISO 9296			
P10.1 Mode M	lode description		Declared A-weighted sound power		Declared A-weighted sound pressure level $L_{pAm}$ (dB)
			level $L_{WAd}$ (B)		rator position       Bystander positions         Desktop       Image: Comparison of the state of th
Idle *	Fans on, HDD spinning	g (if applicable)	* 3.3		29
Operation *	Fans on, HDD spinning	g	* 3.4		29
Other mode					
Measured accordin	g to: 🔀 ISO7779 🔀	ECMA-74 (only if not covere	d by ECMA-74 w	ith Lp/	Am measurement distance m)
P10.2 The product meets	the acoustic noise requ	uirements of the foll	owing voluntary	orogra	am/s:

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Issue date *	3/24/2017	Logo	hp

Product	environmental attributes - Market requirements (continued)	Require	ment	met
Item		Yes	No	n.a.
	Chemical emissions from printing products			
P10.3*	Test performed according to ECMA-328 (ISO/IEC 28360) standard 🔲, other specify:			$\boxtimes$
P10.4	Typical emission rate (print phase) is (mg/h):			$\square$
	Dust Ozone Styrene Benzene TVOC			_
P10.5	Chemical emission requirements of the following voluntary program/s are met for :			$\boxtimes$
	Dust 🗌 Ozone 🗌 Styrene 🗌 Benzene 🗌 TVOC 🗌			
	Electromagnetic emissions			
P10.6	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary			
	program/s:			
P11	Consumable materials for printing products			
P11.1*	A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3).			$\boxtimes$
P11.2*	Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281.	i 🗖		$\square$
P11.3*	2-sided (duplex) printing/copying is an integrated product function.			$\square$
P12	Ergonomics for computing products			
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.		$\square$	
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.	$\boxtimes$		
P13	Packaging and documentation			
P13.1*	Product packaging material type(s):       PAPER/Corrugated       weight (kg):       0.445         Product packaging material type(s):       PLASTIC/Polyethylene low density - LDPE       weight (kg):       0.019         Product packaging material type(s):       PLASTIC/Polyethylene Expanded - EPE       weight (kg):       0.009         Product packaging material type(s):       PLASTIC/Polypropylene - PP       weight (kg):       0.007			
P13.2*	Product plastic packaging is free from PVC.	$\square$		
P13.3*	Specify media for user and product documentation (tick box):			
	Electronic 🔲, Paper 🔀, Other 📃			_
P13.4*	For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: 1%			
Rev. P13.5	User and product documentation do not contain chlorine bleached paper	0		

P14	Additional information (See Note B4)					
All sections	1. Product environmental information contained i external standards referenced in the IT Eco-Decl					
P9	1. Many PCs are offered in multiple configurations within the model family. Energy efficiency data listed in this declaration is for an ENERGY STAR <sup>®</sup> compliant configuration if offered within the model family. HP computers marked with the ENERGY STAR <sup>®</sup> Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR <sup>®</sup> specifications for computers. For more information about HP's ENERGY STAR <sup>®</sup> qualified products, go to hp.com: http://www.hp.com/ and select the applicable market segments and product categories to find PC configurations that meet the ENERGY STAR <sup>®</sup> specifications.					
	2. If a model family does not offer ENERGY ST configured model.	AR <sup>®</sup> compliant configurations, t	hen energy efficiency data liste	ed is for a typically		
	3. Energy Efficiency information published on the model meeting ENERGY STAR® specifications i like extra hard disks or graphic cards etc, these c	f offered within the model family	y. If optional components or m			
	4. Power consumption in the Off / Apparent Off disabled.	mode is measured and reported	d with the network interface co	ntroller (NIC) WOL		
	5. European Union Commission Regulation 1275	5/2008- Energy Efficiency Inform	ation:			
	Mode / Condition	Power Consumption in Watts at 230 VAC Input Voltage	Default Time to Mode / Condition (if applicable)			
	Off Mode (if applicable)	0.387 W	Not Applicable			
	Standby Mode (if applicable)	Not Applicable	Not Applicable			
	Network Standby / Sleep / Long Idle Mode if all wired network ports are connected and all wireless network ports are activated (if applicable)	0.680 W	20 Min			
	Network Standby / Sleep / Long Idle Mode (if applicable)	0.680 W	20 Min			
	6. European Union Commission Regulation 1275	5/2008- Wireless Network Instruc	ctions:			
	Where applicable, activate and deactivate a wireless network using the instructions provided in the product user guide or the operating system. Information is also available at <a href="http://www.hp.com/support">www.hp.com/support</a> .					
P10	1. Acoustic noise information published on the EC only. If optional items with moving parts are add noise values for which HP can take no responsib	ed, like extra hard disks or grap				

Note B4: Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

## Legal references Europe Annex B

Reference	Declaration item
2002/95/EC (ROHS Directive)	P1.1, P4.1
REACH, Annex XVII	P1.6, P1.8, P4.2
REACH, Annex XVII	P1.4
REACH, Annex XVII	P1.2
REACH, Annex XVII	P1.7
REACH, Annex XVII	P1.9
Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000	P1.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
2006/66/EC (Battery and accumulators Directive)	P2.1, P2.2, P2,3, P3.4, P8.1
2006/95/EC (Low Voltage Directive)	P3.1, 3.4
2004/108/EEC (New EMC Directive)	P3.2, 3.4
1999/5/EC (R&TTE Directive)	P3.3, 3.4
"REACH" Regulation (1907/2006), annex VII	P1.10
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P4.3
REACH article 31, annex II	P4.3
2004/12/EC (Directive on packaging and packaging waste)	P5.1
(97/129/EC) (Commission Decision on Identification System for Packaging Materials	P5.2
2037/2000/EC Regulation on Substances that Deplete the Ozone Layer	P5.3
2002/96/EC (WEEE directive)	P3.4, P6.1
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P7.19



# •ecma 👌 IT-Företagen

### Company environmental profile - THE ECO DECLARATION

Brand	HP	Logo
Company name *	HP	
Contact information *	HP Environmental Contact Centre (ECC)	
	environment@hp.com	
Internet site *	www.hp.com/hpinfo/globalcitizenship/environment/index.html	
Issue date *	2014-06	
Intended market *	🔀 Global 📃 Europe 🗌 Asia, Pacific & Japan 🗌 Americas	Other
Additional information		

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The declaration may be published only when all rows and/or fields marked with an \* are filled-in (n.a. for not applicable). Additional information regarding each item may be found under C6.

Quality control Requirement		ent met	
Item		Yes	No
QC1 *	The company enforces an internal quality control system to ensure the correctness of this eco declaration	$\boxtimes$	
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality control.	$\boxtimes$	

Company environmental profile - Legal requirements		Requirement met		
Item		Yes	No	n.a.
C1	Product recycling			
C1.1*	The company participates in a system or has its own system for collection and recycling of end of life product in countries where the company puts them on the market and where required (see legal reference)	s 🔀		
C2	Battery recycling			
C2.1*	The company participates in a system or has its own system for collection and recycling of batteries in countries where the company puts products on the market (see legal reference) or pays eco tax / fee wher required.			
C3	Packaging recycling			
C3.1*	The company participates in a system or has its own system for collection and recycling of packaging materia	al 🔀		

Company environmental profile - Market requirements		Requirement met		
Item		Yes	No	n.a.
C4	Environmental policy and environmental management			
C4.1*	The company has a documented environmental policy approved by the management.	$\boxtimes$		
C4.2*	The company has an environmental management system covering: Product development Manufacturing If so certified according to: XISO 14001 Conter as specified in C6	$\boxtimes$		
C4.3	The company regularly publishes an environmental report. If so, it meets the recommendations of 🔀 The Global Reporting Initiative 🔲 Other as specified in C6			
C5	Recycling			
C5.1*	Information about the product, battery & packaging take back system (C1, C2, C3) is available in printed electronic format.	or 🔀		
C6	Additional information			
	HP is committed to responsible business practices and <u>transparency</u> in its <u>global citizenship</u> polici We have a long history of working with suppliers to improve their social and environmental (SER) p as improving industry standards. HP endorses the EICC <u>Code of Conduct</u> in its entirety, and we su additional requirements specific to freedom of association and <u>HP's Student and Dispatch Worker</u> for <u>Supplier Facilities in the People's Republic of China (PRC)</u> . HP also has a strong <u>Global Human</u> place. HP sets expectations for its suppliers to establish policies and processes regarding conflict conducts due diligence on its supply chain annually including requesting information about our su diligence and the smelters and refiners used. HP became the first IT company to publish its <u>supply</u> HP follows the Global Reporting Initiative (GRI) guidelines as a basis for reporting. The GRI index p reference to HP's Living Progress Report (LPR) content. HP offers <u>take back services</u> of products a suppliers in some 70 countries. Please refer to HP's <u>Living Progress Report</u> for more details on ou	performano pplement i <u>Guidance Rights Po</u> minerals. ppliers' ov <u>chain sm</u> provides e and printin	ce, as it with <u>Stand</u> <u>licy</u> in HP vn du <u>elter l</u> asy g	well l <u>ard</u> 1 e

## Legal references Europe Annex A

Reference	Declaration item
2002/96/EC (WEEE directive)	C1.1
2006/66/EC (Battery and accumulators Directive)	C1.2
2004/12/EC (Directive on packaging and packaging waste)	C1.3