Product Environmental Profile

Hybrid, volta, APV, 24mod, 2MPL, plastic door



Company information

Hager

132 Boulevard d'Europe
F 67215 Obernai Cedex
www.hagergroup.com

A question concerning the Product Environmental Profile: infopep@hager.com

References covered

VOLTA Enclosures - Surface, Flush & hollow wall mounted, including accessories VAXXXXX, VUXXXXX, VHXXXXX, VFXXXXX, VZXXXXX; VXXX

Methodology

PEP has been performed according to the PCR version PEP-PCR-ed4-2021 09 06 and PSR version PSR-0005-ed3-2023 06 06 issued by the PEP ecopassport program.
For further information, please see the website of the program www.pep-ecopassport.org

Reference product

Reference product identification
VA602WWH

Use scenario based on :

PSR product Category : PSR-0005-ed3-2023 06 06
3.12. Unequipped enclosures and cabinets

Functional unit

Protect people from direct contact with live active parts and ensure the grouping of control, command and protection devices in a single enclosure or cabinet having the following dimensions 766 x 305 x 93 while protecting them against mechanical impacts (IK07) and the penetration of solid objects and liquids (IP30), according to the appropriate use scenario, and for the reference service life of the product of 20 years.

The functional unit is based on the use scenario recommended by the PCR for the category of the reference product.

Materials and substances

All useful measures have been adopted to ensure that the materials used in the composition of the product do not contain any substances banned by the legislation in force at the time of marketing.

Plastics			Metals			Others		
	g	%		g	%		g	%
PS	678.00	14.8%	Steel	2104.52	45.8%	Cardboard	465.87	10.1%
PC	707.34	15.4%	Copper	87.24	1.9%	Wood	108.54	2.4%
HI PS	169.50	3.7%	Stainless steel	24.66	0.5%	Tetrabromobisphenol A	56.50	1.2%
PA6	82.07	1.8%	Other	3.58	<0.1%	Other	73.19	1.6%
Other	60.95	1.3%				Paper	22.50	0.5%
Total mass of reference product with raw material packaging :			**4594.09 g**					

Total mass of reference product (Product + packaging)	**4341.698 g**

System Boudaries

The environmental information included in the PEP covers all the stages of the life cycle, from "cradle to grave".

Manufacturing			Distribution	Installation	Use							End of life				Module D
Raw material extraction and processing	Transport to the manufacturer	Manufacturing	Distribution to the place of operation	Installation on the place of operation	Use or application of the product installed	Maintenance	Repair	Replacement	Restoration	Energy requirements during the use stage	Water requirements during the use stage	Deinstallation	Transport to the waste treatment site	Treatment of waste in view of its reuse, recovery and/or recycling	Disposal	Benefits and loads beyond the system boundaries
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Life cycle stages																

Manufacturing

These products are manufactured by a site that has received an environmental certification ISO 14001.

This phase takes into account raw materials, manufacturing processes, production offcuts and their end-of-life treatment, upstream transport of materials and sub-assemblies to the manufacturing site, and transport from the manufacturing site to the final logistics platform.

Distribution

The packaging has been designed in accordance with current regulations. In particular, the European directive 94/62/CE relative to packaging and packaging waste.

The used packaging is 100% recyclable or recoverable.
Packaging and logistic flows are continuously improved in order to reduce their impact.

This phase taken into account the transport of the finished product, including packaging, to its place of use.

Installation

Installation processes

The processes to install the product are not considered in this study because of their weak impact compared to the other life cycles steps.

This phase only take into account the impact of the the packaging waste treatment is taken into account.

Installation elements (non delivered with the product)

Elements non delivered with the product and needed to install the product are not considered.

Use

For the considered scenario, the product has no energy consumption.

Energy model of the use phase :
Europe

Consumables and maintenance :
None

End of life

Considering the complexity of the recycling channels for electric and electronic equipment impacts, we rely mainely on ESR modules (datasets for WEEE product end of life).

The recycling potential of the product is: 55%. The calculation of this rate is based on the method of the IEC/TR 62635.

Environmental impacts

Evaluation of the environmental impact covers the following life cycle stages: raw materials + manufacturing (RMM), distribution (D), installation (I), use (U) and end of life (EoL).

All calculations are done with EIME software version 6.2-22 with the database version CODDE® 2024-04 .

Indicators set : Indicators for PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v1.0

PEP representative of the covered products marketed in: Europe

Energy models considered for each phase

Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End Of Life C1-C4
Europe	-	Europe	Europe	Europe

Environmental impact indicators

Indicators	Unit	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End Of Life C1-C4	GLOBAL	Module D
Acidification (PEF-AP)	mole H+ eq	9.08E-02	4.95E-03	1.34E-03	0.00E+00	3.29E-02	1.30E-01	-1.06E-01
Climate change - Total (PEF-GWP)	kg CO2 eq.	1.68E+01	7.32E-01	5.54E-01	0.00E+00	5.70E+00	2.38E+01	-5.94E+00
Climate change-Biogenic (PEF-GWPb)	kg CO2 eq.	-5.47E-01	0.00E+00	1.03E-01	0.00E+00	1.62E-01	-2.83E-01	-5.91E-02
Climate change-Fossil (PEF-GWPf)	kg CO2 eq.	1.74E+01	7.32E-01	4.51E-01	0.00E+00	5.54E+00	2.41E+01	-5.88E+00
Climate change-Land use and land use change (PEF-GWPlu)	kg CO2 eq.	8.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.95E-04	0.00E+00
Ecotoxicity, freshwater (PEF-CTUe)	CTUe	2.71E+03	4.80E-01	6.38E+00	0.00E+00	3.32E+01	2.75E+03	-2.48E+01
EF-particulate Matter (PEF-PM)	Incidence of diseases	4.34E-07	3.77E-08	7.40E-09	0.00E+00	2.04E-07	6.83E-07	-4.73E-07
Eutrophication, freshwater (PEF-Epf)	kg P eq.	2.11E-04	2.75E-07	6.10E-06	0.00E+00	7.05E-05	2.88E-04	-6.04E-03
Eutrophication marine (PEF-Epm)	kg N eq.	1.08E-02	2.18E-03	5.88E-04	0.00E+00	7.54E-03	2.11E-02	-5.93E-03
Eutrophication, terrestrial (PEF-Ept)	mole of N eq.	1.17E-01	2.39E-02	3.66E-03	0.00E+00	5.18E-02	1.97E-01	-7.26E-02
Human toxicity, cancer (PEF-CTUh-c)	CTUh	3.18E-07	1.29E-11	4.87E-08	0.00E+00	3.81E-09	3.70E-07	-4.15E-08
Human toxicity, non-cancer (PEF-CTUh-nc)	CTUh	3.75E-07	2.49E-10	1.43E-09	0.00E+00	1.03E-07	4.80E-07	-6.84E-07
Ionising radiation, human health (PEF-IR)	kg Bq U235 eq.	5.59E+01	1.78E-03	6.72E-02	0.00E+00	2.30E-01	5.62E+01	-2.54E-01
Land use (PEF-LU)	No dimension	2.96E+00	0.00E+00	1.18E-03	0.00E+00	8.50E+00	1.15E+01	-1.14E+02
Ozone depletion (PEF-ODP)	kg CFC-11 eq.	1.09E-06	1.12E-09	5.68E-09	0.00E+00	4.30E-07	1.53E-06	-2.21E-07
Photochemical ozone formation - human health (PEF-POCP)	kg of NMVOC eq.	3.93E-02	6.02E-03	8.56E-04	0.00E+00	1.39E-02	6.01E-02	-2.82E-02
Resource use, fossils (PEF-ADPf)	MJ	5.76E+02	1.02E+01	4.22E+00	0.00E+00	5.43E+01	6.45E+02	-4.75E+01
Resource use, minerals and metals (PEF-ADPe)	kg Sb eq	1.47E-04	2.88E-08	1.04E-08	0.00E+00	1.55E-05	1.63E-04	-2.06E-04
Water use (PEF-WU)	m3 eq.	1.00E+01	2.78E-03	3.37E-02	0.00E+00	9.08E+02	9.18E+02	-1.46E+03

Resource use indicators

Indicators	Unit	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End Of Life C1-C4	GLOBAL	Module D
Net use of fresh water	m^3	2.33E-01	6.48E-05	7.85E-04	0.00E+00	2.57E+01	2.59E+01	-3.50E+01
Total use of primary energy	MJ	5.95E+02	1.02E+01	4.78E+00	0.00E+00	5.89E+01	6.69E+02	-6.65E+01
Total use of non renewable primary energy resources	MJ	5.76E+02	1.02E+01	4.22E+00	0.00E+00	5.43E+01	6.45E+02	-4.75E+01
Total use of renewable primary energy resources	MJ	1.87E+01	1.36E-02	5.64E-01	0.00E+00	4.58E+00	2.39E+01	-1.89E+01
Use of non-renewable primary energy, excluding non renewable primary energy resources used as raw materials	MJ	5.14E+02	1.02E+01	4.22E+00	0.00E+00	5.43E+01	5.82E+02	-4.75E+01
Use of non-renewable primary energy resources as raw materials	MJ	6.28E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.28E+01	0.00E+00
Use of non-renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	kg	8.03E+00	1.36E-02	5.64E-01	0.00E+00	4.58E+00	1.32E+01	-1.89E+01
Use of renewable primary energy resources as raw materials	MJ	1.07E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E+01	0.00E+00
Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of secondary materials	kg	4.91E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.91E-02	0.00E+00

Waste category indicators

Indicators	Unit	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End Of Life C1-C4	GLOBAL	Module D
Hazardous waste disposed	kg	1.28E+01	0.00E+00	1.08E-02	0.00E+00	-3.24E-03	1.28E+01	-6.04E-17
Non-hazardous waste disposed	kg	3.21E+00	2.57E-02	1.86E-01	0.00E+00	4.34E-02	3.46E+00	-1.21E-16
Radioactive waste disposed	kg	1.53E-03	1.83E-05	2.20E-05	0.00E+00	1.52E-06	1.57E-03	0.00E+00

Output flow indicators

Indicators	Unit	Manufacturing A1-A3	Distribution A4	Installation A5	Use B1-B7	End Of Life C1-C4	GLOBAL	Module D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	MJ	3.66E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-02	0.00E+00
Materials for energy recovery	kg	4.95E-02	0.00E+00	3.86E-02	0.00E+00	0.00E+00	8.81E-02	0.00E+00
Materials for recycling	kg	8.03E-02	0.00E+00	2.51E-03	0.00E+00	0.00E+00	8.28E-02	0.00E+00

Biogenic carbon content

Packaging	Unit	Cardboard	Paper	Wood	Sum
Biogenic carbon content (ratio)	%	2.80E+01	3.78E+01	3.95E+01	
Mass	kg	4.66E-01	2.25E-02	1.09E-01	5.97E-01
Biogenic carbon content (declared unit)	kg of C	1.30E-01	8.50E-03	4.29E-02	1.82E-01
Biogenic carbon content (functional unit)	kg of C	1.30E-01	8.50E-03	4.29E-02	1.82E-01
Source		ADEME	APESA/RECORD	EN 16485	

Product	Unit	Cardboard	Paper	Wood	Sum
Mass	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content (declared unit)	kg of C	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content (functional unit)	kg of C	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Extrapolation rules

The extrapolation rule is defined according to product weight.
Please refer to the attached appendix for the extrapolation factors for each phase of the products covered by this PEP.

Verification

Registration N°: HAGE-00834-V01.01-EN	Drafting Rules	PEP-PCR-ed4-2021 09 06
	Supplemented by	PSR-0005-ed3-2023 06 06
Verifier accreditation N°: VH36	Information and reference documents: www.pep-ecopassport.org	
Date of issue: 7-2024	Validity period:	5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006		
Internal ● External ○		
The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)		
PEPs are compliant with XP C08-100-1:2016 or EN 50693:2019 The elements of the present PEP cannot be compared with elements from another program.		
Document in compliance with ISO 14025 : 2006 « Environmental labels and declarations. Type III environmental declarations »		

Nota :

The picture has no contractual value.
All numerical values indicated in this document may vary and depend of many factors such as the tolerance related to materials, the usage and environment conditions of the products, installation characteristics ... , real values for a product in a concrete application may therefore change.
The usage time mentioned in this document is an average duration chosen for the need of the calculations. This value cannot be assimilated to the minimum, average or real life time.
The responsibility of the company, issuing this document, can never be engaged if differences would be noticed between the values given by this document and real ones, whatever the causes and/or consequences would be.

Appendix: Extrapolation factors calculated for each phase, according to the extrapolation rules based on the weight of the products.

COMMERCIAL REF	WEIGHT / pc (in g)	MANUFACTURING	DISTRIBUTION	INSTALLATION	USE	EOL
V05A	268	0.08	0.08	0.08	1.00	0.08
VA12A	1550	0.45	0.45	0.45	1.00	0.45
VA12B	1100	0.32	0.32	0.32	1.00	0.32
VA12BN	1150	0.33	0.33	0.33	1.00	0.33
VA12CN	1230	0.35	0.35	0.35	1.00	0.35
VA12D	1600	0.46	0.46	0.46	1.00	0.46
VA12DK	1060	0.31	0.31	0.31	1.00	0.31
VA12DN	1550	0.45	0.45	0.45	1.00	0.45
VA12E	1100	0.32	0.32	0.32	1.00	0.32
VA12G	1500	0.43	0.43	0.43	1.00	0.43
VA12K	480	0.14	0.14	0.14	1.00	0.14
VA12N	1650	0.48	0.48	0.48	1.00	0.48
VA12NL	1069	0.31	0.31	0.31	1.00	0.31
VA12T	570	0.16	0.16	0.16	1.00	0.16
VA24A	2310	0.67	0.67	0.67	1.00	0.67
VA24B	1550	0.45	0.45	0.45	1.00	0.45
VA24BN	1600	0.46	0.46	0.46	1.00	0.46
VA24CN	1680	0.48	0.48	0.48	1.00	0.48
VA24D	2250	0.65	0.65	0.65	1.00	0.65
VA24DK	1500	0.43	0.43	0.43	1.00	0.43
VA24DN	2250	0.65	0.65	0.65	1.00	0.65
VA24E	1550	0.45	0.45	0.45	1.00	0.45
VA24G	2100	0.61	0.61	0.61	1.00	0.61
VA24K	660	0.19	0.19	0.19	1.00	0.19
VA24N	2400	0.69	0.69	0.69	1.00	0.69
VA24NL	1570	0.45	0.45	0.45	1.00	0.45
VA24T	841	0.24	0.24	0.24	1.00	0.24
VA36A	3020	0.87	0.87	0.87	1.00	0.87
VA36APZ	3110	0.90	0.90	0.90	1.00	0.90
VA36B	2005	0.58	0.58	0.58	1.00	0.58
VA36BN	1430	0.41	0.41	0.41	1.00	0.41
VA36CK	1985	0.57	0.57	0.57	1.00	0.57
VA36CN	1985	0.57	0.57	0.57	1.00	0.57
VA36D	2880	0.83	0.83	0.83	1.00	0.83
VA36DK	1855	0.53	0.53	0.53	1.00	0.53
VA36DN	2970	0.86	0.86	0.86	1.00	0.86
VA36E	1708	0.49	0.49	0.49	1.00	0.49
VA36G	2620	0.76	0.76	0.76	1.00	0.76
VA36K	910	0.26	0.26	0.26	1.00	0.26
VA36N	3000	0.86	0.86	0.86	1.00	0.86
VA36NL	1870	0.54	0.54	0.54	1.00	0.54
VA36NW	3385	0.98	0.98	0.98	1.00	0.98
VA36NWB	2814	0.81	0.81	0.81	1.00	0.81
VA36NWP	4185	1.21	1.21	1.21	1.00	1.21
VA36RM	2200	0.63	0.63	0.63	1.00	0.63
VA36T	1080	0.31	0.31	0.31	1.00	0.31
VA36V	1140	0.33	0.33	0.33	1.00	0.33
VA36W	910	0.26	0.26	0.26	1.00	0.26
VA36WWH	3168	0.91	0.91	0.91	1.00	0.91
VA48A	4005	1.15	1.15	1.15	1.00	1.15
VA48B	2215	0.64	0.64	0.64	1.00	0.64
VA48BN	2280	0.66	0.66	0.66	1.00	0.66
VA48BV1	2290	0.66	0.66	0.66	1.00	0.66
VA48BV2	7460	2.15	2.15	2.15	1.00	2.15
VA48CK	2485	0.72	0.72	0.72	1.00	0.72
VA48CN	2485	0.72	0.72	0.72	1.00	0.72
VA48D	3500	1.01	1.01	1.01	1.00	1.01
VA48DK	2300	0.66	0.66	0.66	1.00	0.66
VA48DN	3619	1.04	1.04	1.04	1.00	1.04
VA48E	2214	0.64	0.64	0.64	1.00	0.64
VA48G	3280	0.95	0.95	0.95	1.00	0.95
VA48K	1080	0.31	0.31	0.31	1.00	0.31
VA48MD	2215	0.64	0.64	0.64	1.00	0.64
VA48N	3550	1.02	1.02	1.02	1.00	1.02
VA48NL	2260	0.65	0.65	0.65	1.00	0.65
VA48NW	4015	1.16	1.16	1.16	1.00	1.16
VA48NWB	3435	0.99	0.99	0.99	1.00	0.99
VA48NWP	3950	1.14	1.14	1.14	1.00	1.14
VA48RM	2700	0.78	0.78	0.78	1.00	0.78
VA48T	1450	0.42	0.42	0.42	1.00	0.42
VA48V	1440	0.41	0.41	0.41	1.00	0.41
VA48W	1070	0.31	0.31	0.31	1.00	0.31
VA48WWH	3695	1.06	1.06	1.06	1.00	1.06
VA602NWH	4558	1.31	1.31	1.31	1.00	1.31
VA602NWS	4400	1.27	1.27	1.27	1.00	1.27
VA602WWH	3470	1.00	1.00	1.00	1.00	1.00
VA602WWS	3950	1.14	1.14	1.14	1.00	1.14

COMMERCIAL REF	WEIGHT / pc (in g)	MANUFACTURING	DISTRIBUTION	INSTALLATION	USE	EOL
VA603NWH	4640	1.34	1.34	1.34	1.00	1.34
VA603NWS	4450	1.28	1.28	1.28	1.00	1.28
VA603WWH	4260	1.23	1.23	1.23	1.00	1.23
VA603WWS	4000	1.15	1.15	1.15	1.00	1.15
VA60A	4550	1.31	1.31	1.31	1.00	1.31
VA60BV1	3320	0.96	0.96	0.96	1.00	0.96
VA60BV2	9500	2.74	2.74	2.74	1.00	2.74
VA60CN	3320	0.96	0.96	0.96	1.00	0.96
VA60K	1300	0.37	0.37	0.37	1.00	0.37
VA60MD	2650	0.76	0.76	0.76	1.00	0.76
VA60NW	4690	1.35	1.35	1.35	1.00	1.35
VA60T	1700	0.49	0.49	0.49	1.00	0.49
VA60V	1650	0.48	0.48	0.48	1.00	0.48
VA60W	1280	0.37	0.37	0.37	1.00	0.37
VA60WWH	4300	1.24	1.24	1.24	1.00	1.24
VF10101	9500	2.74	2.74	2.74	1.00	2.74
VF10101SPD	7210	2.08	2.08	2.08	1.00	2.08
VF10102	6750	1.95	1.95	1.95	1.00	1.95
VF10102SPD	6750	1.95	1.95	1.95	1.00	1.95
VF8101	5370	1.55	1.55	1.55	1.00	1.55
VF8102	5360	1.54	1.54	1.54	1.00	1.54
VF8102SPD	5630	1.62	1.62	1.62	1.00	1.62
VF9101	6200	1.79	1.79	1.79	1.00	1.79
VF9102	6270	1.81	1.81	1.81	1.00	1.81
VF9102SPD	6550	1.89	1.89	1.89	1.00	1.89
VH12AT	2526	0.73	0.73	0.73	1.00	0.73
VH12DKN	2480	0.71	0.71	0.71	1.00	0.71
VH12EP	2530	0.73	0.73	0.73	1.00	0.73
VH12EPN	2614	0.75	0.75	0.75	1.00	0.75
VH12ET	2410	0.69	0.69	0.69	1.00	0.69
VH12ETN	2513	0.72	0.72	0.72	1.00	0.72
VH12NA	2500	0.72	0.72	0.72	1.00	0.72
VH12NC	2592	0.75	0.75	0.75	1.00	0.75
VH12NE	2556	0.74	0.74	0.74	1.00	0.74
VH12NK	880	0.25	0.25	0.25	1.00	0.25
VH12NN	2608	0.75	0.75	0.75	1.00	0.75
VH24AT	3472	1.00	1.00	1.00	1.00	1.00
VH24DKN	3370	0.97	0.97	0.97	1.00	0.97
VH24EP	3398	0.98	0.98	0.98	1.00	0.98
VH24EPN	3464	1.00	1.00	1.00	1.00	1.00
VH24ET	3198	0.92	0.92	0.92	1.00	0.92
VH24ETN	3264	0.94	0.94	0.94	1.00	0.94
VH24NA	3420	0.99	0.99	0.99	1.00	0.99
VH24NC	3600	1.04	1.04	1.04	1.00	1.04
VH24NE	3556	1.02	1.02	1.02	1.00	1.02
VH24NK	1080	0.31	0.31	0.31	1.00	0.31
VH24NN	3690	1.06	1.06	1.06	1.00	1.06
VH24NWB	3010	0.87	0.87	0.87	1.00	0.87
VH36AT	4580	1.32	1.32	1.32	1.00	1.32
VH36DKN	4190	1.21	1.21	1.21	1.00	1.21
VH36EP	4318	1.24	1.24	1.24	1.00	1.24
VH36EPN	4322	1.25	1.25	1.25	1.00	1.25
VH36ET	3964	1.14	1.14	1.14	1.00	1.14
VH36ETN	4080	1.18	1.18	1.18	1.00	1.18
VH36NA	4520	1.30	1.30	1.30	1.00	1.30
VH36NC	4400	1.27	1.27	1.27	1.00	1.27
VH36NCT	3300	0.95	0.95	0.95	1.00	0.95
VH36NE	4402	1.27	1.27	1.27	1.00	1.27
VH36NK	1280	0.37	0.37	0.37	1.00	0.37
VH36NKM	1615	0.47	0.47	0.47	1.00	0.47
VH36NMB	4620	1.33	1.33	1.33	1.00	1.33
VH36NN	4620	1.33	1.33	1.33	1.00	1.33
VH36NW	4205	1.21	1.21	1.21	1.00	1.21
VH36NWB	3600	1.04	1.04	1.04	1.00	1.04
VH36NWP	4160	1.20	1.20	1.20	1.00	1.20
VH36WWH	3795	1.09	1.09	1.09	1.00	1.09
VH48AT	5154	1.49	1.49	1.49	1.00	1.49
VH48BV1	5076	1.46	1.46	1.46	1.00	1.46
VH48BV2	9100	2.62	2.62	2.62	1.00	2.62
VH48DKN	5010	1.44	1.44	1.44	1.00	1.44
VH48EP	5088	1.47	1.47	1.47	1.00	1.47
VH48EPN	5155	1.49	1.49	1.49	1.00	1.49
VH48ET	4874	1.40	1.40	1.40	1.00	1.40
VH48ETN	4741	1.37	1.37	1.37	1.00	1.37
VH48MMV	4720	1.36	1.36	1.36	1.00	1.36
VH48NA	5450	1.57	1.57	1.57	1.00	1.57
VH48NC	5076	1.46	1.46	1.46	1.00	1.46

COMMERCIAL REF	WEIGHT / pc (in g)	MANUFACTURING	DISTRIBUTION	INSTALLATION	USE	EOL
VH48NCT	5150	1.48	1.48	1.48	1.00	1.48
VH48NE	5180	1.49	1.49	1.49	1.00	1.49
VH48NK	1440	0.41	0.41	0.41	1.00	0.41
VH48NKM	1650	0.48	0.48	0.48	1.00	0.48
VH48NMB	5194	1.50	1.50	1.50	1.00	1.50
VH48NN	5194	1.50	1.50	1.50	1.00	1.50
VH48NRM	100	0.03	0.03	0.03	1.00	0.03
VH48NW	4770	1.37	1.37	1.37	1.00	1.37
VH48NWB	4295	1.24	1.24	1.24	1.00	1.24
VH48NWP	4755	1.37	1.37	1.37	1.00	1.37
VH48WWH	4950	1.43	1.43	1.43	1.00	1.43
VH48WWV	4745	1.37	1.37	1.37	1.00	1.37
VH602NWH	5570	1.61	1.61	1.61	1.00	1.61
VH602WWH	5070	1.46	1.46	1.46	1.00	1.46
VH603NWH	5730	1.65	1.65	1.65	1.00	1.65
VH603WWH	5240	1.51	1.51	1.51	1.00	1.51
VH60AT	5900	1.70	1.70	1.70	1.00	1.70
VH60BV1	6050	1.74	1.74	1.74	1.00	1.74
VH60BV2	11320	3.26	3.26	3.26	1.00	3.26
VH60DKN	6120	1.76	1.76	1.76	1.00	1.76
VH60EP	6010	1.73	1.73	1.73	1.00	1.73
VH60EPN	6138	1.77	1.77	1.77	1.00	1.77
VH60ET	5464	1.57	1.57	1.57	1.00	1.57
VH60ETN	5638	1.62	1.62	1.62	1.00	1.62
VH60MMV	5210	1.50	1.50	1.50	1.00	1.50
VH60NA	5906	1.70	1.70	1.70	1.00	1.70
VH60NC	6050	1.74	1.74	1.74	1.00	1.74
VH60NE	6050	1.74	1.74	1.74	1.00	1.74
VH60NK	1750	0.50	0.50	0.50	1.00	0.50
VH60NKM	2000	0.58	0.58	0.58	1.00	0.58
VH60NN	6050	1.74	1.74	1.74	1.00	1.74
VH60NW	5425	1.56	1.56	1.56	1.00	1.56
VH60NWB	4920	1.42	1.42	1.42	1.00	1.42
VH60NWP	5405	1.56	1.56	1.56	1.00	1.56
VH60WWH	4926	1.42	1.42	1.42	1.00	1.42
VH60WWV	4725	1.36	1.36	1.36	1.00	1.36
VU12AT	2570	0.74	0.74	0.74	1.00	0.74
VU12BB	1040	0.30	0.30	0.30	1.00	0.30
VU12DKN	2500	0.72	0.72	0.72	1.00	0.72
VU12EP	2446	0.70	0.70	0.70	1.00	0.70
VU12ET	2300	0.66	0.66	0.66	1.00	0.66
VU12IE	2800	0.81	0.81	0.81	1.00	0.81
VU12LN	2670	0.77	0.77	0.77	1.00	0.77
VU12NA	2500	0.72	0.72	0.72	1.00	0.72
VU12NC	2600	0.75	0.75	0.75	1.00	0.75
VU12ND	2564	0.74	0.74	0.74	1.00	0.74
VU12NE	2600	0.75	0.75	0.75	1.00	0.75
VU12NG	2580	0.74	0.74	0.74	1.00	0.74
VU12NJ	3200	0.92	0.92	0.92	1.00	0.92
VU12NK	890	0.26	0.26	0.26	1.00	0.26
VU12NN	2588	0.75	0.75	0.75	1.00	0.75
VU12NP	2660	0.77	0.77	0.77	1.00	0.77
VU12NR	2560	0.74	0.74	0.74	1.00	0.74
VU12NSG	2650	0.76	0.76	0.76	1.00	0.76
VU12UA	2480	0.71	0.71	0.71	1.00	0.71
VU218F	7000	2.02	2.02	2.02	1.00	2.02
VU24AT	3532	1.02	1.02	1.02	1.00	1.02
VU24DKN	3532	1.02	1.02	1.02	1.00	1.02
VU24EP	3422	0.99	0.99	0.99	1.00	0.99
VU24ET	3188	0.92	0.92	0.92	1.00	0.92
VU24IE	3800	1.10	1.10	1.10	1.00	1.10
VU24LN	3650	1.05	1.05	1.05	1.00	1.05
VU24NA	3450	0.99	0.99	0.99	1.00	0.99
VU24NC	3600	1.04	1.04	1.04	1.00	1.04
VU24NCT	2790	0.80	0.80	0.80	1.00	0.80
VU24ND	3552	1.02	1.02	1.02	1.00	1.02
VU24NE	3580	1.03	1.03	1.03	1.00	1.03
VU24NG	3560	1.03	1.03	1.03	1.00	1.03
VU24NH	3580	1.03	1.03	1.03	1.00	1.03
VU24NJ	5260	1.52	1.52	1.52	1.00	1.52
VU24NK	1080	0.31	0.31	0.31	1.00	0.31
VU24NN	3624	1.04	1.04	1.04	1.00	1.04
VU24NP	3550	1.02	1.02	1.02	1.00	1.02
VU24NR	3500	1.01	1.01	1.01	1.00	1.01
VU24NSG	3740	1.08	1.08	1.08	1.00	1.08
VU24NWB	2975	0.86	0.86	0.86	1.00	0.86
VU24UA	3500	1.01	1.01	1.01	1.00	1.01

COMMERCIAL REF	WEIGHT / pc (in g)	MANUFACTURING	DISTRIBUTION	INSTALLATION	USE	EOL
VU36AT	4570	1.32	1.32	1.32	1.00	1.32
VU36BB	1620	0.47	0.47	0.47	1.00	0.47
VU36CJG	4900	1.41	1.41	1.41	1.00	1.41
VU36DKN	4300	1.24	1.24	1.24	1.00	1.24
VU36EP	4216	1.21	1.21	1.21	1.00	1.21
VU36ET	4354	1.25	1.25	1.25	1.00	1.25
VU36IE	4670	1.35	1.35	1.35	1.00	1.35
VU36LN	4600	1.33	1.33	1.33	1.00	1.33
VU36NA	4300	1.24	1.24	1.24	1.00	1.24
VU36NC	4422	1.27	1.27	1.27	1.00	1.27
VU36NCT	3194	0.92	0.92	0.92	1.00	0.92
VU36ND	4354	1.25	1.25	1.25	1.00	1.25
VU36NE	4282	1.23	1.23	1.23	1.00	1.23
VU36NG	4360	1.26	1.26	1.26	1.00	1.26
VU36NH	4460	1.29	1.29	1.29	1.00	1.29
VU36NJ	6440	1.86	1.86	1.86	1.00	1.86
VU36NK	1340	0.39	0.39	0.39	1.00	0.39
VU36NKM	1550	0.45	0.45	0.45	1.00	0.45
VU36NN	4342	1.25	1.25	1.25	1.00	1.25
VU36NP	4630	1.33	1.33	1.33	1.00	1.33
VU36NR	4310	1.24	1.24	1.24	1.00	1.24
VU36NRM	3360	0.97	0.97	0.97	1.00	0.97
VU36NSG	4620	1.33	1.33	1.33	1.00	1.33
VU36NW	4235	1.22	1.22	1.22	1.00	1.22
VU36NWB	3610	1.04	1.04	1.04	1.00	1.04
VU36NWP	4185	1.21	1.21	1.21	1.00	1.21
VU36UA	4810	1.39	1.39	1.39	1.00	1.39
VU36WWH	3764	1.08	1.08	1.08	1.00	1.08
VU48AT	5430	1.56	1.56	1.56	1.00	1.56
VU48BB	1910	0.55	0.55	0.55	1.00	0.55
VU48BV1	5186	1.49	1.49	1.49	1.00	1.49
VU48BV2	9180	2.65	2.65	2.65	1.00	2.65
VU48DKN	5088	1.47	1.47	1.47	1.00	1.47
VU48EP	5088	1.47	1.47	1.47	1.00	1.47
VU48ET	4804	1.38	1.38	1.38	1.00	1.38
VU48IE	5660	1.63	1.63	1.63	1.00	1.63
VU48LN	5371	1.55	1.55	1.55	1.00	1.55
VU48MMV	4770	1.37	1.37	1.37	1.00	1.37
VU48NA	5380	1.55	1.55	1.55	1.00	1.55
VU48NC	5186	1.49	1.49	1.49	1.00	1.49
VU48NCT	3800	1.10	1.10	1.10	1.00	1.10
VU48ND	5400	1.56	1.56	1.56	1.00	1.56
VU48NE	5160	1.49	1.49	1.49	1.00	1.49
VU48NG	5100	1.47	1.47	1.47	1.00	1.47
VU48NH	5370	1.55	1.55	1.55	1.00	1.55
VU48NJ	7600	2.19	2.19	2.19	1.00	2.19
VU48NK	1520	0.44	0.44	0.44	1.00	0.44
VU48NKM	1710	0.49	0.49	0.49	1.00	0.49
VU48NN	5294	1.53	1.53	1.53	1.00	1.53
VU48NP	5500	1.59	1.59	1.59	1.00	1.59
VU48NR	5140	1.48	1.48	1.48	1.00	1.48
VU48NRM	3980	1.15	1.15	1.15	1.00	1.15
VU48NSG	5580	1.61	1.61	1.61	1.00	1.61
VU48NW	4830	1.39	1.39	1.39	1.00	1.39
VU48NWB	4300	1.24	1.24	1.24	1.00	1.24
VU48NWP	4755	1.37	1.37	1.37	1.00	1.37
VU48UA	5000	1.44	1.44	1.44	1.00	1.44
VU48WWH	5010	1.44	1.44	1.44	1.00	1.44
VU48WWV	4795	1.38	1.38	1.38	1.00	1.38
VU601PLH	5595	1.61	1.61	1.61	1.00	1.61
VU602NWH	5578	1.61	1.61	1.61	1.00	1.61
VU602PLH	5650	1.63	1.63	1.63	1.00	1.63
VU602WWH	5140	1.48	1.48	1.48	1.00	1.48
VU603NWH	5825	1.68	1.68	1.68	1.00	1.68
VU603PLG	5810	1.67	1.67	1.67	1.00	1.67
VU603PLH	5735	1.65	1.65	1.65	1.00	1.65
VU603WWH	5080	1.46	1.46	1.46	1.00	1.46
VU60AT	6300	1.82	1.82	1.82	1.00	1.82
VU60BV1	6250	1.80	1.80	1.80	1.00	1.80
VU60BV2	11500	3.31	3.31	3.31	1.00	3.31
VU60DKN	5920	1.71	1.71	1.71	1.00	1.71
VU60EP	5950	1.71	1.71	1.71	1.00	1.71
VU60ET	5362	1.55	1.55	1.55	1.00	1.55
VU60MMV	5315	1.53	1.53	1.53	1.00	1.53
VU60NA	5980	1.72	1.72	1.72	1.00	1.72
VU60NC	6250	1.80	1.80	1.80	1.00	1.80
VU60NE	6190	1.78	1.78	1.78	1.00	1.78
VU60NG	6300	1.82	1.82	1.82	1.00	1.82
VU60NH	6280	1.81	1.81	1.81	1.00	1.81
VU60NJ	8900	2.56	2.56	2.56	1.00	2.56
VU60NK	1780	0.51	0.51	0.51	1.00	0.51
VU60NKM	1750	0.50	0.50	0.50	1.00	0.50
VU60NN	6152	1.77	1.77	1.77	1.00	1.77
VU60NP	6100	1.76	1.76	1.76	1.00	1.76
VU60NR	6300	1.82	1.82	1.82	1.00	1.82
VU60NW	5520	1.59	1.59	1.59	1.00	1.59
VU60NWB	5015	1.45	1.45	1.45	1.00	1.45
VU60NWP	5505	1.59	1.59	1.59	1.00	1.59
VU60UA	6120	1.76	1.76	1.76	1.00	1.76
VU60WWH	5035	1.45	1.45	1.45	1.00	1.45
VU60WWV	4805	1.38	1.38	1.38	1.00	1.38
VZ00APZ	180	0.05	0.05	0.05	1.00	0.05
VZ00AS	360	0.10	0.10	0.10	1.00	0.10
VZ00ASF	460	0.13	0.13	0.13	1.00	0.13
VZ00EA	35	0.01	0.01	0.01	1.00	0.01
VZ00F	170	0.05	0.05	0.05	1.00	0.05
VZ00HCH	55	0.02	0.02	0.02	1.00	0.02
VZ00HD	55	0.02	0.02	0.02	1.00	0.02
VZ00HW	400	0.12	0.12	0.12	1.00	0.12
VZ00HWF	380	0.11	0.11	0.11	1.00	0.11
VZ00LK	145	0.04	0.04	0.04	1.00	0.04
VZ00TS	136	0.04	0.04	0.04	1.00	0.04
VZ00UP	400	0.12	0.12	0.12	1.00	0.12
VZ00UPF	380	0.11	0.11	0.11	1.00	0.11
VZ00US	32	0.01	0.01	0.01	1.00	0.01
VZ01NCH	1020	0.29	0.29	0.29	1.00	0.29
VZ01NWH	930	0.27	0.27	0.27	1.00	0.27
VZ02MM	50	0.01	0.01	0.01	1.00	0.01
VZ02NCH	1228	0.35	0.35	0.35	1.00	0.35
VZ02NWH	1125	0.32	0.32	0.32	1.00	0.32
VZ03NWH	1276	0.37	0.37	0.37	1.00	0.37
VZ101E	1350	0.39	0.39	0.39	1.00	0.39
VZ101N	1340	0.39	0.39	0.39	1.00	0.39
VZ101WN	1425	0.41	0.41	0.41	1.00	0.41
VZ102N	1850	0.53	0.53	0.53	1.00	0.53
VZ102V	1900	0.55	0.55	0.55	1.00	0.55
VZ102WN	1870	0.54	0.54	0.54	1.00	0.54
VZ103N	2240	0.65	0.65	0.65	1.00	0.65
VZ103V	2190	0.63	0.63	0.63	1.00	0.63
VZ103W	1960	0.56	0.56	0.56	1.00	0.56
VZ103WN	2344	0.68	0.68	0.68	1.00	0.68
VZ103WV	2212	0.64	0.64	0.64	1.00	0.64
VZ103WW	2212	0.64	0.64	0.64	1.00	0.64
VZ104N	2660	0.77	0.77	0.77	1.00	0.77
VZ104V	2687	0.77	0.77	0.77	1.00	0.77
VZ104W	2200	0.63	0.63	0.63	1.00	0.63
VZ104WN	2774	0.80	0.80	0.80	1.00	0.80
VZ104WV	2720	0.78	0.78	0.78	1.00	0.78
VZ104WW	2774	0.80	0.80	0.80	1.00	0.80
VZ105N	2540	0.73	0.73	0.73	1.00	0.73
VZ105V	2540	0.73	0.73	0.73	1.00	0.73
VZ105W	2540	0.73	0.73	0.73	1.00	0.73
VZ105WN	3140	0.90	0.90	0.90	1.00	0.90
VZ105WV	3190	0.92	0.92	0.92	1.00	0.92
VZ105WW	3140	0.90	0.90	0.90	1.00	0.90
VZ10DS	14	0.00	0.00	0.00	1.00	0.00
VZ10LLC	19.2	0.01	0.01	0.01	1.00	0.01
VZ10LSC	15	0.00	0.00	0.00	1.00	0.00
VZ111N	260	0.07	0.07	0.07	1.00	0.07
VZ112N	300	0.09	0.09	0.09	1.00	0.09
VZ113N	340	0.10	0.10	0.10	1.00	0.10
VZ114N	392	0.11	0.11	0.11	1.00	0.11
VZ115N	430	0.12	0.12	0.12	1.00	0.12
VZ121N	740	0.21	0.21	0.21	1.00	0.21
VZ122N	1060	0.31	0.31	0.31	1.00	0.31
VZ122W	800	0.23	0.23	0.23	1.00	0.23
VZ123CE	8	0.00	0.00	0.00	1.00	0.00
VZ123N	1280	0.37	0.37	0.37	1.00	0.37
VZ123W	1089	0.31	0.31	0.31	1.00	0.31
VZ124N	1560	0.45	0.45	0.45	1.00	0.45
VZ124W	1560	0.45	0.45	0.45	1.00	0.45
VZ125E	1560	0.45	0.45	0.45	1.00	0.45
VZ125N	1560	0.45	0.45	0.45	1.00	0.45
VZ125W	1560	0.45	0.45	0.45	1.00	0.45
VZ126N	1620	0.47	0.47	0.47	1.00	0.47
VZ127N	1560	0.45	0.45	0.45	1.00	0.45
VZ12AU	2410	0.69	0.69	0.69	1.00	0.69
VZ12CAV	520	0.15	0.15	0.15	1.00	0.15
VZ12CHU	1680	0.48	0.48	0.48	1.00	0.48
VZ12NAV	640	0.18	0.18	0.18	1.00	0.18
VZ12NUH	1680	0.48	0.48	0.48	1.00	0.48
VZ131N	600	0.17	0.17	0.17	1.00	0.17
VZ132N	880	0.25	0.25	0.25	1.00	0.25
VZ133N	1000	0.29	0.29	0.29	1.00	0.29
VZ134N	1180	0.34	0.34	0.34	1.00	0.34
VZ135	1.179	0.00	0.00	0.00	1.00	0.00
VZ135N	1370	0.39	0.39	0.39	1.00	0.39
VZ136	1420	0.41	0.41	0.41	1.00	0.41
VZ141N	750	0.22	0.22	0.22	1.00	0.22
VZ142N	920	0.27	0.27	0.27	1.00	0.27
VZ143N	1100	0.32	0.32	0.32	1.00	0.32
VZ144N	1230	0.35	0.35	0.35	1.00	0.35
VZ145N	1330	0.38	0.38	0.38	1.00	0.38
VZ201	650	0.19	0.19	0.19	1.00	0.19
VZ202	810	0.23	0.23	0.23	1.00	0.23
VZ203	1028	0.30	0.30	0.30	1.00	0.30
VZ204	1300	0.37	0.37	0.37	1.00	0.37
VZ205	1433	0.41	0.41	0.41	1.00	0.41
VZ20HA	14	0.00	0.00	0.00	1.00	0.00
VZ20HS	19.5	0.01	0.01	0.01	1.00	0.01
VZ20US	19	0.01	0.01	0.01	1.00	0.01
VZ221H	282	0.08	0.08	0.08	1.00	0.08
VZ221N	240	0.07	0.07	0.07	1.00	0.07
VZ221NA	243	0.07	0.07	0.07	1.00	0.07
VZ222	243	0.07	0.07	0.07	1.00	0.07
VZ222H	330	0.10	0.10	0.10	1.00	0.10
VZ222N	340	0.10	0.10	0.10	1.00	0.10
VZ222NA	340	0.10	0.10	0.10	1.00	0.10
VZ223	430	0.12	0.12	0.12	1.00	0.12
VZ223H	430	0.12	0.12	0.12	1.00	0.12
VZ223N	420	0.12	0.12	0.12	1.00	0.12
VZ223NA	4180	1.20	1.20	1.20	1.00	1.20
VZ224N	520	0.15	0.15	0.15	1.00	0.15
VZ224NA	540	0.16	0.16	0.16	1.00	0.16
VZ225A	630	0.18	0.18	0.18	1.00	0.18
VZ225N	5	0.00	0.00	0.00	1.00	0.00
VZ225NA	630	0.18	0.18	0.18	1.00	0.18
VZ24AP2	2160	0.62	0.62	0.62	1.00	0.62
VZ24AP200	2740	0.79	0.79	0.79	1.00	0.79
VZ24AP300	3000	0.86	0.86	0.86	1.00	0.86
VZ24AP500	2580	0.74	0.74	0.74	1.00	0.74
VZ24AP550	2820	0.81	0.81	0.81	1.00	0.81
VZ24AP600	2860	0.82	0.82	0.82	1.00	0.82
VZ24AP900	2475	0.71	0.71	0.71	1.00	0.71
VZ24AU	2577	0.74	0.74	0.74	1.00	0.74
VZ24CAV	1000	0.29	0.29	0.29	1.00	0.29
VZ24CHU	2360	0.68	0.68	0.68	1.00	0.68
VZ24NAV	940	0.27	0.27	0.27	1.00	0.27
VZ24NRK	2250	0.65	0.65	0.65	1.00	0.65
VZ24NUH	2540	0.73	0.73	0.73	1.00	0.73
VZ302N	25	0.01	0.01	0.01	1.00	0.01
VZ302N01	27	0.01	0.01	0.01	1.00	0.01
VZ302N02	50	0.01	0.01	0.01	1.00	0.01
VZ302N03	25	0.01	0.01	0.01	1.00	0.01
VZ302N04	50	0.01	0.01	0.01	1.00	0.01
VZ302N05	50	0.01	0.01	0.01	1.00	0.01
VZ302N06	50	0.01	0.01	0.01	1.00	0.01
VZ302N07	50	0.01	0.01	0.01	1.00	0.01
VZ302N08	25	0.01	0.01	0.01	1.00	0.01
VZ302N09	25	0.01	0.01	0.01	1.00	0.01
VZ302N10	50	0.01	0.01	0.01	1.00	0.01
VZ303	77	0.02	0.02	0.02	1.00	0.02
VZ304N	13	0.00	0.00	0.00	1.00	0.00
VZ304N01	13	0.00	0.00	0.00	1.00	0.00
VZ304N02	12	0.00	0.00	0.00	1.00	0.00
VZ304N03	13	0.00	0.00	0.00	1.00	0.00
VZ304N04	12	0.00	0.00	0.00	1.00	0.00
VZ304N05	14	0.00	0.00	0.00	1.00	0.00
VZ304N06	13	0.00	0.00	0.00	1.00	0.00
VZ304N07	12	0.00	0.00	0.00	1.00	0.00
VZ304N08	12	0.00	0.00	0.00	1.00	0.00

COMMERCIAL REF	WEIGHT / pc (in g)	MANUFACTURING	DISTRIBUTION	INSTALLATION	USE	EOL
VZ304N09	12	0.00	0.00	0.00	1.00	0.00
VZ304N10	13	0.00	0.00	0.00	1.00	0.00
VZ306	14	0.00	0.00	0.00	1.00	0.00
VZ30UA	15	0.00	0.00	0.00	1.00	0.00
VZ30US	10	0.00	0.00	0.00	1.00	0.00
VZ312BS	95	0.03	0.03	0.03	1.00	0.03
VZ314	65	0.02	0.02	0.02	1.00	0.02
VZ314BL	3	0.00	0.00	0.00	1.00	0.00
VZ314RJ	35	0.01	0.01	0.01	1.00	0.01
VZ315	40	0.01	0.01	0.01	1.00	0.01
VZ315FF	10	0.00	0.00	0.00	1.00	0.00
VZ316	42	0.01	0.01	0.01	1.00	0.01
VZ316FB	10	0.00	0.00	0.00	1.00	0.00
VZ317FS	10	0.00	0.00	0.00	1.00	0.00
VZ318LC	140	0.04	0.04	0.04	1.00	0.04
VZ318N	540	0.16	0.16	0.16	1.00	0.16
VZ319H	124	0.04	0.04	0.04	1.00	0.04
VZ320N	1050	0.30	0.30	0.30	1.00	0.30
VZ324BS	134	0.04	0.04	0.04	1.00	0.04
VZ326	1.47	0.00	0.00	0.00	1.00	0.00
VZ331N	1350	0.39	0.39	0.39	1.00	0.39
VZ332N	1870	0.54	0.54	0.54	1.00	0.54
VZ333N	2210	0.64	0.64	0.64	1.00	0.64
VZ334N	2640	0.76	0.76	0.76	1.00	0.76
VZ335N	3100	0.89	0.89	0.89	1.00	0.89
VZ33BH	2032	0.59	0.59	0.59	1.00	0.59
VZ33BV	2153	0.62	0.62	0.62	1.00	0.62
VZ34BV	2306	0.66	0.66	0.66	1.00	0.66
VZ36AP2	2610	0.75	0.75	0.75	1.00	0.75
VZ36AP250	3160	0.91	0.91	0.91	1.00	0.91
VZ36AU	3000	0.86	0.86	0.86	1.00	0.86
VZ36CAV	1110	0.32	0.32	0.32	1.00	0.32
VZ36CHU	2950	0.85	0.85	0.85	1.00	0.85
VZ36MME	687	0.20	0.20	0.20	1.00	0.20
VZ36MMK	688	0.20	0.20	0.20	1.00	0.20
VZ36NAV	1500	0.43	0.43	0.43	1.00	0.43
VZ36NRK	2930	0.84	0.84	0.84	1.00	0.84
VZ36NUH	3160	0.91	0.91	0.91	1.00	0.91
VZ3TKG	1262.5	0.36	0.36	0.36	1.00	0.36
VZ3TMG	1492.5	0.43	0.43	0.43	1.00	0.43
VZ3TMZ	1524.5	0.44	0.44	0.44	1.00	0.44
VZ403	80	0.02	0.02	0.02	1.00	0.02
VZ404	545	0.16	0.16	0.16	1.00	0.16
VZ405N	125	0.04	0.04	0.04	1.00	0.04
VZ406	940	0.27	0.27	0.27	1.00	0.27
VZ407	245	0.07	0.07	0.07	1.00	0.07
VZ408	144	0.04	0.04	0.04	1.00	0.04
VZ408M	125	0.04	0.04	0.04	1.00	0.04
VZ410N	25	0.01	0.01	0.01	1.00	0.01
VZ411N	92	0.03	0.03	0.03	1.00	0.03
VZ412	250	0.07	0.07	0.07	1.00	0.07
VZ428	116	0.03	0.03	0.03	1.00	0.03
VZ44BH	2330	0.67	0.67	0.67	1.00	0.67
VZ44BV	2459	0.71	0.71	0.71	1.00	0.71
VZ451N	635	0.18	0.18	0.18	1.00	0.18
VZ452	1115	0.32	0.32	0.32	1.00	0.32
VZ452N	1115	0.32	0.32	0.32	1.00	0.32
VZ453N	1520	0.44	0.44	0.44	1.00	0.44
VZ454N	1925	0.55	0.55	0.55	1.00	0.55
VZ455M	2350	0.68	0.68	0.68	1.00	0.68
VZ455N	132	0.04	0.04	0.04	1.00	0.04
VZ455P	132	0.04	0.04	0.04	1.00	0.04
VZ456P	136	0.04	0.04	0.04	1.00	0.04
VZ45BV	2612	0.75	0.75	0.75	1.00	0.75
VZ461	175	0.05	0.05	0.05	1.00	0.05
VZ462	220	0.06	0.06	0.06	1.00	0.06
VZ463	255	0.07	0.07	0.07	1.00	0.07
VZ464	280	0.08	0.08	0.08	1.00	0.08
VZ465N	280	0.08	0.08	0.08	1.00	0.08
VZ48AB	255	0.07	0.07	0.07	1.00	0.07

COMMERCIAL REF	WEIGHT / pc (in g)	MANUFACTURING	DISTRIBUTION	INSTALLATION	USE	EOL
VZ48AU	3885	1.12	1.12	1.12	1.00	1.12
VZ48CAV	3790	1.09	1.09	1.09	1.00	1.09
VZ48CHU	4000	1.15	1.15	1.15	1.00	1.15
VZ48MME	797	0.23	0.23	0.23	1.00	0.23
VZ48MMK	799	0.23	0.23	0.23	1.00	0.23
VZ48NAV	1580	0.46	0.46	0.46	1.00	0.46
VZ48NRK	3450	0.99	0.99	0.99	1.00	0.99
VZ48NUH	3823	1.10	1.10	1.10	1.00	1.10
VZ48VWA	9600	2.77	2.77	2.77	1.00	2.77
VZ48VWB	9600	2.77	2.77	2.77	1.00	2.77
VZ4TKG	1459.5	0.42	0.42	0.42	1.00	0.42
VZ4TMG	1854.5	0.53	0.53	0.53	1.00	0.53
VZ4TMZ	1784.5	0.51	0.51	0.51	1.00	0.51
VZ501N	2720	0.78	0.78	0.78	1.00	0.78
VZ502N	3900	1.12	1.12	1.12	1.00	1.12
VZ503N	4520	1.30	1.30	1.30	1.00	1.30
VZ504N	5450	1.57	1.57	1.57	1.00	1.57
VZ505N	6.8	0.00	0.00	0.00	1.00	0.00
VZ510N	200	0.06	0.06	0.06	1.00	0.06
VZ511N	21	0.01	0.01	0.01	1.00	0.01
VZ512N	32	0.01	0.01	0.01	1.00	0.01
VZ513N	43	0.01	0.01	0.01	1.00	0.01
VZ514N	53	0.02	0.02	0.02	1.00	0.02
VZ515N	64	0.02	0.02	0.02	1.00	0.02
VZ521	1405	0.40	0.40	0.40	1.00	0.40
VZ522	1630	0.47	0.47	0.47	1.00	0.47
VZ523	250	0.07	0.07	0.07	1.00	0.07
VZ524	250	0.07	0.07	0.07	1.00	0.07
VZ525E	295	0.09	0.09	0.09	1.00	0.09
VZ530N	114	0.03	0.03	0.03	1.00	0.03
VZ535	14	0.00	0.00	0.00	1.00	0.00
VZ536	106	0.03	0.03	0.03	1.00	0.03
VZ537	160	0.05	0.05	0.05	1.00	0.05
VZ538	190	0.05	0.05	0.05	1.00	0.05
VZ539	235	0.07	0.07	0.07	1.00	0.07
VZ551N	925	0.27	0.27	0.27	1.00	0.27
VZ552N	240	0.07	0.07	0.07	1.00	0.07
VZ553N	380	0.11	0.11	0.11	1.00	0.11
VZ554N	520	0.15	0.15	0.15	1.00	0.15
VZ555N	640	0.18	0.18	0.18	1.00	0.18
VZ55BH	2568	0.74	0.74	0.74	1.00	0.74
VZ5TKG	1793.5	0.52	0.52	0.52	1.00	0.52
VZ5TMG	1954	0.56	0.56	0.56	1.00	0.56
VZ5TMZ	1954	0.56	0.56	0.56	1.00	0.56
VZ602	160	0.05	0.05	0.05	1.00	0.05
VZ604	170	0.05	0.05	0.05	1.00	0.05
VZ60AU	4670	1.35	1.35	1.35	1.00	1.35
VZ60CAV	1770	0.51	0.51	0.51	1.00	0.51
VZ60CHU	4370	1.26	1.26	1.26	1.00	1.26
VZ60MME	908	0.26	0.26	0.26	1.00	0.26
VZ60MMK	910	0.26	0.26	0.26	1.00	0.26
VZ60NAV	2073	0.60	0.60	0.60	1.00	0.60
VZ60NRK	4150	1.20	1.20	1.20	1.00	1.20
VZ60NUH	4492	1.29	1.29	1.29	1.00	1.29
VZ698	55	0.02	0.02	0.02	1.00	0.02
VZ699	34	0.01	0.01	0.01	1.00	0.01
VZ713	40	0.01	0.01	0.01	1.00	0.01
VZ717	95	0.03	0.03	0.03	1.00	0.03
VZ761	194	0.06	0.06	0.06	1.00	0.06
VZ800N	6	0.00	0.00	0.00	1.00	0.00
VZ816	15	0.00	0.00	0.00	1.00	0.00
VZ900	9	0.00	0.00	0.00	1.00	0.00
VZ950	77	0.02	0.02	0.02	1.00	0.02
VZ951	105	0.03	0.03	0.03	1.00	0.03