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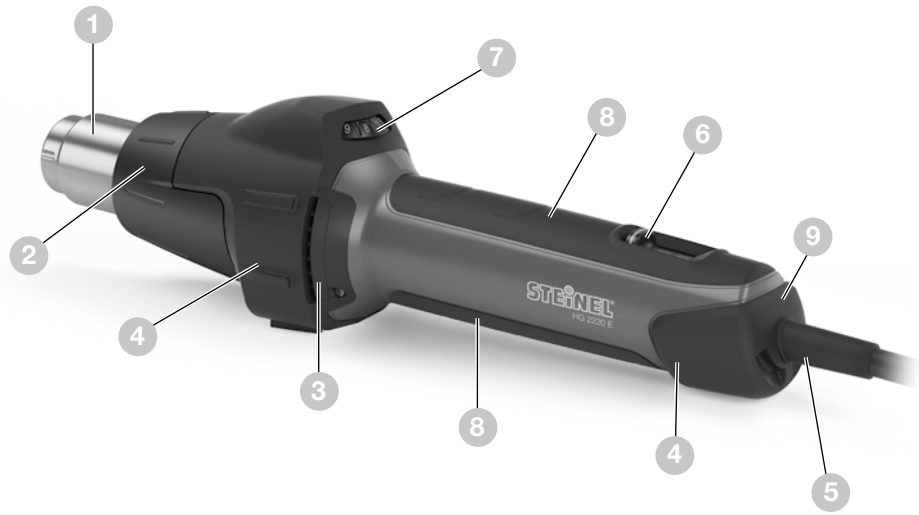
HG 2220 E



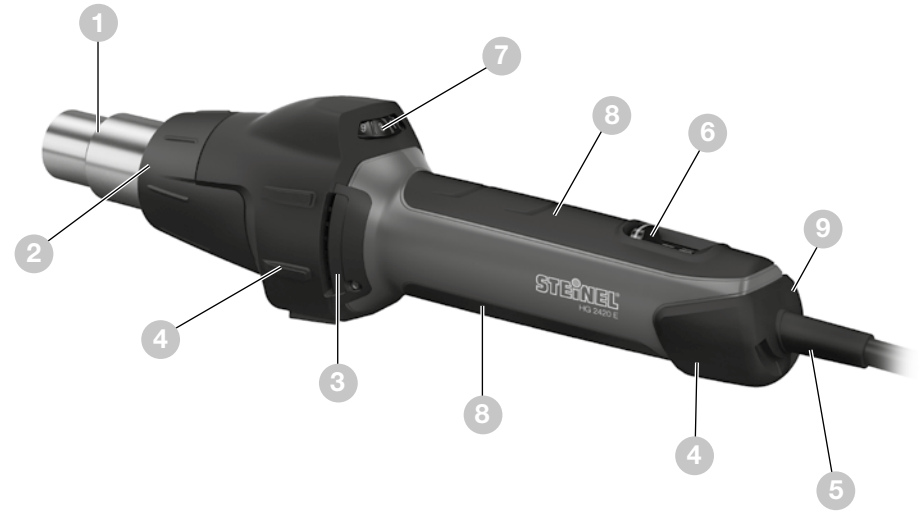
HG 2420 E

Information
HG 2220 E
HG 2420 E

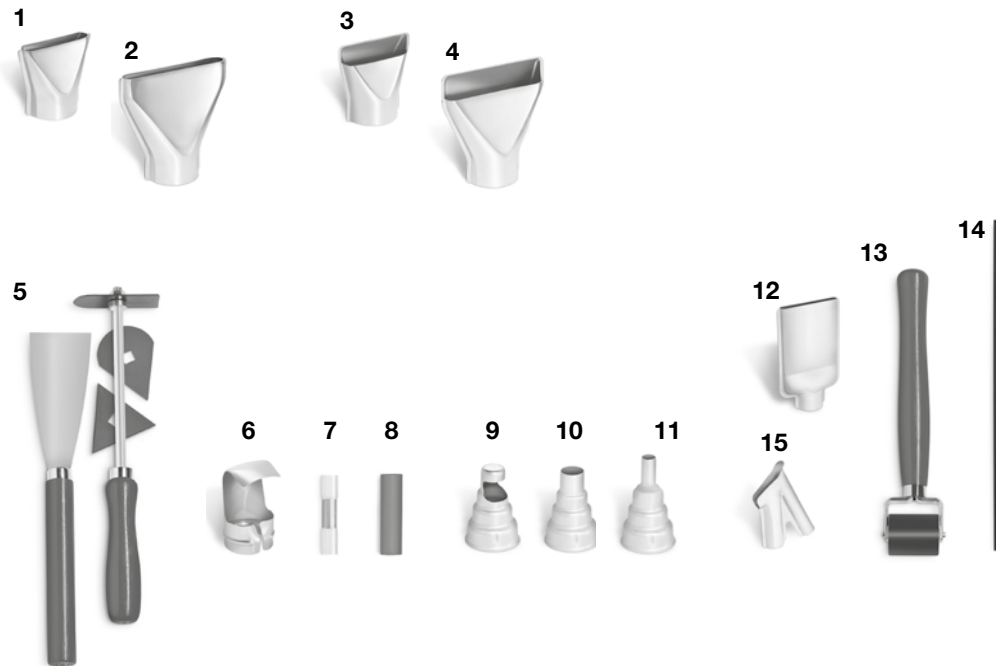
HG 2220 E



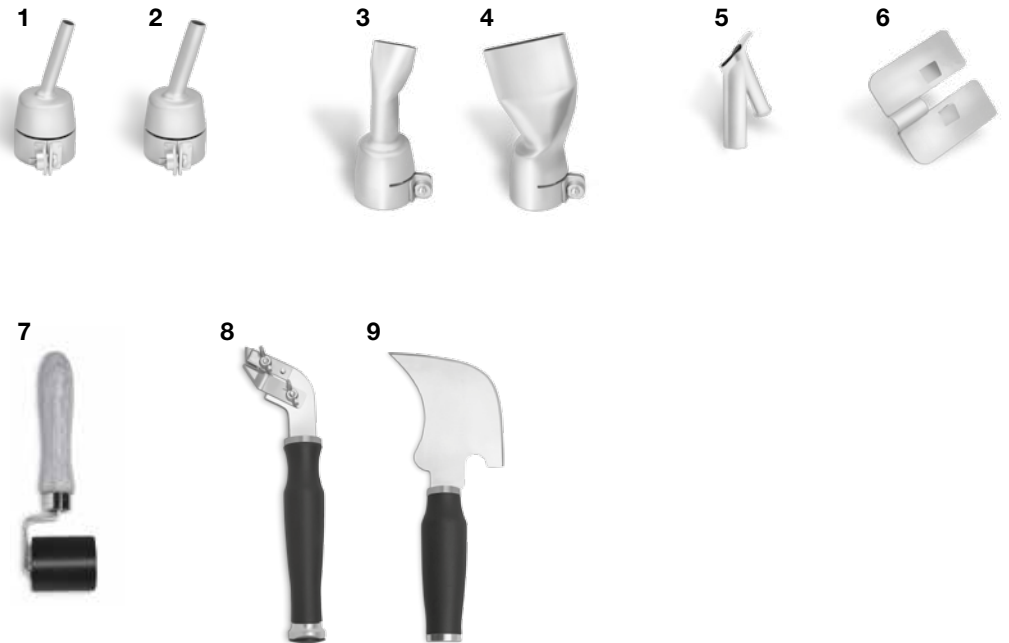
HG 2420 E



HG 2220 E



HG 2420 E



Auswahlhilfe für den richtigen Schweißdraht beim Kunststoffschweißen		
Werkstoff	Anwendungsarten	Erkennungsmerkmale
PVC hart	Rohre, Fittings, Platten, Bauprofile, technische Formteile 300 °C Schweißtemperatur	Verkohlt in der Flamme, stechender Geruch; scheppernder Klang
PE hart (HDPE) Polyäthylen	Wannen, Körbe, Kanister, Isolationsmaterial, Rohre 300 °C Schweißtemperatur	Helle gelbe Flamme, Tropfen brennen weiter, riecht nach verlöschender Kerze; scheppernder Klang
PP Polypropylen	HT-Abflussrohre, Sitzschalen, Verpackungen, KFZ-Teile 250 °C Schweißtemperatur	Helle Flamme mit blauem Kern, Tropfen brennen weiter, stechender Geruch; scheppernder Klang
ABS	KFZ-Teile, Gerätegehäuse, Koffer 350 °C Schweißtemperatur	Schwarzer, flockiger Rauch, süßlicher Geruch; scheppernder Klang

Zubehör (siehe Abb. auf dem Umschlag)

Ihr Händler hält ein breites Sortiment an Zubehör für Sie bereit.

HG 2220 E

1	Breitstrahldüse 50 mm	Art.-Nr. 070113
2	Breitstrahldüse 75 mm	Art.-Nr. 070212
3	Abstrahldüse 50 mm	Art.-Nr. 070311
4	Abstrahldüse 75 mm	Art.-Nr. 070410
5	Farbschaberset	Art.-Nr. 010317
6	Reflektordüse	Art.-Nr. 070519
7	Crimpverbinder Ø 0,5-1,5 Ø 1,5-2,5 Ø 0,1-0,5 – Ø 4,0-6,0	Art.-Nr. 006655 Art.-Nr. 006648 Art.-Nr. 006662
8	Schrumpfschläuche 4,8-9,5 mm 1,6-4,8 mm 4,0-12,0 mm Schrumpfschlauchset, 3-teilig	Art.-Nr. 071417 Art.-Nr. 071318 Art.-Nr. 072766 Art.-Nr. 075811
9	Lötreflektordüse	Art.-Nr. 074616
10	Reduzierdüse 14 mm	Art.-Nr. 070717
11	Reduzierdüse 9 mm	Art.-Nr. 070618
12	Breitschlitzdüse	Art.-Nr. 074715
13	Andrückrolle	Art.-Nr. 006785
14	Kunststoff-Schweißdraht Hart-PVC: HDPE: PP: ABS:	Art.-Nr. 073114 Art.-Nr. 071219 Art.-Nr. 073411 Art.-Nr. 074210
15	Schweißschuh	Art.-Nr. 070915

HG 2420 E

1	Runddüse 5 mm	Art.-Nr. 092214
2	Runddüse 10 mm	Art.-Nr. 092313
3	Winkelflachdüse 20x2 mm	Art.-Nr. 092115
4	Winkelflachdüse 40x2 mm	Art.-Nr. 092016
5	Schweißschuh	Art.-Nr. 075316
6	Schweißnahtschlitten	Art.-Nr. 093013
7	Andrückrolle	Art.-Nr. 093211
8	Fugenhobel	Art.-Nr. 093112
9	Viertelmondsmesser	Art.-Nr. 092917

Funktionsgarantie

Dieses STEINEL-Produkt ist mit größter Sorgfalt hergestellt, funktions- und sicherheitsgeprüft nach geltenden Vorschriften und anschließend einer Stichprobenkontrolle unterzogen. STEINEL übernimmt die Garantie für einwandfreie Beschaffenheit und Funktion. Die Garantiefrist beträgt 12 Monate bzw. 750 Betriebsstunden HG 2220 E und 1000 Betriebsstunden HG 2420 E und beginnt mit dem Tag des Verkaufs an den Verbraucher. Wir beseitigen Mängel, die auf Material- oder Fabrikationsfehlern beruhen, die Garantieleistung erfolgt durch Instandsetzung oder Austausch mangelhafter Teile nach unserer Wahl. Eine Garantieleistung entfällt für Schäden an Verschleißteilen, für Schäden und Mängel, die durch unsachgemäße Behandlung oder Wartung auftreten, sowie für Bruch bei Sturz. Weitergehende Folgeschäden an fremden Gegenständen sind ausgeschlossen. Die Garantie wird nur gewährt, wenn das unzerlegte Gerät mit Kassenbono oder Rechnung (Kaufdatum und Händlerstempel), gut verpackt an die zutreffende Servicestation eingesandt oder in den ersten 6 Monaten dem Händler übergeben wird.

Reparaturservice:

Nach Ablauf der Garantiezeit oder Mängeln ohne Garantieanspruch fragen Sie Ihre nächste Servicestation nach der Möglichkeit einer Instandsetzung.

FUNKTIONS-
12 Monate
GARANTIE

Translation of the original operating instructions

Please familiarise yourself with these operating instructions before using this product because prolonged reliable and trouble-free operation will only be ensured if it is handled properly. We hope your new hot air tool will give you lasting satisfaction.

Safety warnings

Read and observe this information before using the tool. Failure to observe the operating instructions may result in the tool becoming a source of danger.

When using electric power tools, observe the following basic safety precautions to avoid electric shock as well as the risk of injury and fire. Used carelessly, the tool can start an unintentional fire or injure persons. Check the tool for any damage (mains connection lead, housing etc.) before putting it into operation and do not use the tool if it is damaged. Do not leave the tool switched on unattended. Children should be supervised to make sure they do not play with the tool.

About this document

Please read carefully and keep in a safe place.
- Under copyright. Reproduction either in whole or in part only with our consent.
- Subject to change in the interest of technical progress.

Take the ambient conditions into account.



Do not expose electric power tools to rain. Do not use electric power tools when they are damp or in a damp or wet environment. Exercise care when using the tool in the proximity of flammable materials. Do not direct the tool at one and the same place for a prolonged period. Do not use in the presence of an explosive atmosphere. Heat may be conducted to flammable materials that are hidden from direct sight.

Protect yourself from electric shock.



Avoid coming in contact with grounded objects, such as pipes, radiators, cookers or refrigerators. Do not leave the tool unattended while in operation.

Safety warnings

Store your tools in a safe place.



Protect the power cord from heat, oil and sharp edges.

After use, set the tool down on its standing surface and let it cool before putting it away.

When not in use, tools must be stored in a dry, locked room out of children's reach.

This tool may be used by children aged 8 or above and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they are supervised or have been given instructions on how to use the tool safely and understand the hazards involved.

Do not allow children to play with the tool.

Children are not allowed to clean or carry out maintenance work on the tool without supervision.

Do not overload your tools.



Your work results and safety will be enhanced if you operate the tool within the specified output range. After using the tool for a prolonged period at maximum temperature, you should reduce the temperature before switching the tool off. This will prolong the service life of the heating element. Do not carry the tool by the power cord. Do not unplug the tool by pulling on the power cord.

Beware of toxic gases and fire hazards.



Toxic gases may occur when working on plastics, paints, varnishes or similar materials.

Beware of fire and ignition hazards.

For your own safety, only use accessories and attachments that are specified in the operating instructions or recommended or specified by the tool manufacturer.

Using attachments or accessories other than those recommended in the operating instructions or catalogue may result in personal injury.

Repairs must only be carried out by a qualified electrician.



This electric power tool complies with the relevant safety regulations. Repairs should only be performed by a qualified electrician. Otherwise the user may run the risk of accidents.

Keep these safety precautions with the tool.

For your safety

These hot air tools are doubly protected from overheating:

The thermal cut-out completely shuts down the tool if it is overloaded.

Tool description - Operation

Please note: The distance from the object you are working on depends on material and intended method of working. Always try out the airflow and temperature on a test piece first. Using the attachable accessory nozzles (see accessories page on the cover) the flow of hot air can be controlled with maximum precision.

Take care when changing hot nozzles! When using the hot air tool in the self-resting position, make sure it is standing on a stable, non-slip and clean surface.

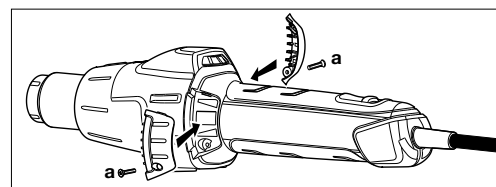
The tool is switched on and off by means of a two-stage airflow switch **6**. In settings 1 and 2, the temperature is continuously variable at a thumbwheel in 9 steps. The guard sleeve can be removed.

Switching on causes brief voltage drops. If the mains power supply system is not absolutely stable, other equipment may be affected. No disturbance is likely to occur with mains impedances of less than 0.43 ohms.

Maintenance

Fine dust filter

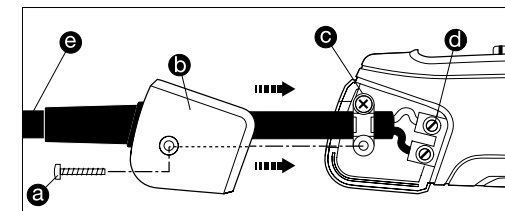
The HG 2220 E / HG 2420 E has an integrated fine dust filter **3**. To clean it (with compressed air), undo screws **(a)**, take off cover and remove filter.



Repair

Changing the power cord **9**

If the power cord needs changing, this can easily be done without opening the casing:



1. Important! Disconnect tool from power supply.
2. Undo screw **a** and pull off cover cap **b**.
3. Release cable grip **c**.
4. Undo mains terminals **d**.
5. Pull out cable **e**.
6. Insert new cable and secure in reverse order (1. Firmly screw down mains terminals etc.).

Tool features

- 1 Stainless steel outlet nozzle
- 2 Removable guard sleeve
- 3 Air inlet with integrated fine dust filter
- 4 Soft coating for non-slip standing
- 5 Heavy-duty rubber-insulated power cord
- 6 Multiple-stage switch for adjusting airflow (2-stage)
- 7 Thumbwheel for setting temperature
- 8 Soft grip handle for comfortable operation
- 9 Replaceable mains power cord

Technical Specifications

	HG 2220 E		HG 2420 E	
Voltage	220-230 V, 50/60 Hz		220-230 V, 50/60 Hz	
Output	2200 W		2200 W	
Stage	1	2	1	2
Airflow rate	150-300 l/min	300-500 l/min	150-400 l/min	200-400 l/min
Temperature	80-630 °C	80-630 °C	80-650 °C	80-650 °C
Temperature setting	At thumbwheel in 9 steps		At thumbwheel in 9 steps	
Protection class (without earth terminal)	II		II	
Thermal cut-out	Yes		Yes	
Emission sound pressure level	≤ 70dB (A)		≤ 70dB (A)	
Total vibration value	≤ 2.5 m/s ² / K = 0.08 m/s ²		≤ 2.5 m/s ² / K = 0.08 m/s ²	
Weight without power cord	0.610 kg		0.610 kg	

Subject to technical modifications

Settings

Thumbwheel	Airflow rate stage 1 low airflow rate		Airflow rate stage 2 high airflow rate	
	Temperature approx.		Temperature approx.	
	HG 2220 E	HG 2420 E	HG 2220 E	HG 2420 E
1	80 °C	80 °C	80 °C	80 °C
2	110 °C	140 °C	110 °C	140 °C
3	190 °C	220 °C	180 °C	220 °C
4	280 °C	300 °C	260 °C	300 °C
5	360 °C	360 °C	340 °C	360 °C
6	440 °C	440 °C	420 °C	440 °C
7	500 °C	500 °C	480 °C	500 °C
8	570 °C	570 °C	560 °C	560 °C
9	630 °C	650 °C max.	630 °C	650 °C max.

Depending on how accurately the thumbwheel is set, the guide values shown may differ by up to +/- 20 °C from the temperature actually delivered.

Applications

Here are some of the applications you can use STEINEL hot air tools for. This selection is by no means exhaustive – no doubt you can immediately think of other examples.

HG 2220 E / HG 2420 E

- Welding all thermoplastics.
- Welding films and tarpaulins.
- Welding plastics and jointing.
- Activating and removing glues and hot-melt adhesives.
- Thawing frozen door locks, frozen water pipes, icy steps.
- Heating car-wrapping films.
- Applying edgebands.
- Shaping thermoplastics.

Guide for selecting the right type of welding rod for welding plastics		
Material	Applications	Characteristic signs
Rigid PVC	Pipes, fittings, tiles, structural sections, technical mouldings 300 °C welding temperature	Chars when held in flame, pungent odour; crashing sound
Rigid PE (HDPE) Polyethylene	Tubs, baskets, canisters, insulating material, piping 300 °C welding temperature	Light yellow flame, drips continue to burn, smells of a candle being extinguished; crashing sound
PP Polypropylene	High-temperature drainpipes, seat buckets, packagings, automotive parts 250 °C welding temperature	Bright flame with a blue core, drips continue to burn, pungent odour; crashing sound
ABS	Automotive parts, equipment enclosures, cases 350 °C welding temperature	Black, fluffy smoke; sweet odour; crashing sound

Accessories (see illustrations on the inside cover)

Your retailer has a wide range of accessories for you to choose from.

HG 2220 E

- | | |
|---|--|
| 1 Surface nozzle 50 mm | Prod. No. 070113 |
| 2 Surface nozzle 75 mm | Prod. No. 070212 |
| 3 Window nozzle 50 mm | Prod. No. 070311 |
| 4 Window nozzle 75 mm | Prod. No. 070410 |
| 5 Paint scraper kit | Prod. No. 010317 |
| 6 Reflector nozzle | Prod. No. 070519 |
| 7 Crimp connectors
Ø 0.5-1.5
Ø 1.5-2.5
Ø 0.1-0.5 – Ø 4.0-6.0 | Prod. No. 006655
Prod. No. 006648
Prod. No. 006662 |
| 8 Shrink tubings
4.8-9.5 mm
1.6-4.8 mm
4.0-12.0 mm
Shrink tubing set, 3-part | Prod. No. 071417
Prod. No. 071318
Prod. No. 072766
Prod. No. 075811
Prod. No. 074616 |
| 9 Soldering reflector nozzle | Prod. No. 070717 |
| 10 Reduction nozzle 14 mm | Prod. No. 070618 |
| 11 Reduction nozzle 9 mm | Prod. No. 074715 |
| 12 Wide-slit nozzle | Prod. No. 006785 |
| 13 Feed roller | |
| 14 Plastic welding rod
Rigid PVC:
HDPE:
PP:
ABS: | Prod. No. 073114
Prod. No. 071219
Prod. No. 073411
Prod. No. 074210 |
| 15 Welding nozzle | Prod. No. 070915 |

HG 2420 E

- | | |
|--------------------------------------|------------------|
| 1 Round nozzle, 5 mm | Prod. No. 092214 |
| 2 Round nozzle, 10 mm | Prod. No. 092313 |
| 3 Flat angled nozzle, 20x2 mm | Prod. No. 092115 |
| 4 Flat angled nozzle, 40x2 mm | Prod. No. 092016 |
| 5 Welding nozzle | Prod. No. 075316 |
| 6 Weld slide | Prod. No. 093013 |
| 7 Feed roller | Prod. No. 093211 |
| 8 Jointing plane | Prod. No. 093112 |
| 9 Quarter-moon knife | Prod. No. 092917 |

Functional Warranty

This STEINEL product has been manufactured with utmost care, tested for proper operation and safety and then subjected to random sample inspection. STEINEL guarantees that it is in perfect condition and proper working order.

HG 2220 E is guaranteed for 12 months or 750 hours of operation and HG 2420 E for 12 months or 1000 hours of operation, each commencing on the date of sale to the consumer. We will remedy defects caused by material flaws or manufacturing faults. The warranty will be met by repair or replacement of defective parts at our own discretion. This guarantee does not cover damage to wearing parts, damage or defects caused by improper treatment or maintenance nor does it cover breakage as a result of the product being dropped. Further consequential damage to other objects shall be excluded.

Claims under warranty shall only be accepted if the product is sent fully assembled and well packed complete with sales receipt or invoice (date of purchase and dealer's stamp) to the appropriate Service Centre or handed in to the dealer within the first 6 months.

Repair service:

If defects occur outside the warranty period or are not covered by warranty, ask your nearest service station for the possibility of repair.

FUNCTIONAL
12 month
WARRANTY

EG - Konformitätserklärung
EC Declaration of Conformity

A Produktbezeichnung / Designation of Product

Produktbezeichnung / Product Heißluftgebläse HG 2220 E, HG 2420 E
Hot air gun HG 2220 E, HG 2420 E

Typbezeichnung / Type designation 3517, 3513
Ursprungszeichen / Mark of origin STEINEL

B Erklärung der Europäischen Richtlinienkonformität

Declaration of Conformity with European Community Directives

Das bezeichnete Produkt erfüllt die folgenden Richtlinien mit zugehörigen Normen in der aktuell gültigen Fassung:
The designated product complies with the following directives and relevant standards in the current version:

B.1 Maschinenrichtlinie 2006/42EG mit Änderungen

Machinery Directive 2006/42/EG including amendments

DIN EN ISO 3744, DIN EN 60745-1, DIN EN ISO 11203, DIN EN ISO 4871, DIN EN 12096, DIN EN 60335-1, DIN EN 60335-2-45, DIN EN 62233

B.2 Elektromagnetische Verträglichkeits-Richtlinie 2004/108/EG mit Änderungen

Electromagnetic Compatibility Directive 2004/108/EC including amendments

DIN EN 55014-1, DIN EN 61000-3-2, DIN EN 61000-3-3 DIN EN 55014-2
Anforderungen der Kategorie II / *Requirements of category II*

B.3 Richtlinie zur Beschränkung gefährlicher Stoffe 2011/65/EG mit Änderungen

RoHS - Directive 2011/65/EC including amendments

B.4 Richtlinie über Elektro- und Elektronik-Altgeräte 2012/19/EG mit Änderungen

WEEE - Directive 2012/19/EC including amendments

C Dauer der Aufbewahrung und Fundstelle der Dokumente:

Retention of documents and Archive:

Die Dokumente werden noch zehn Jahre nach dem letzten Inverkehrbringen verfügbar gehalten:

STEINEL GmbH, Abteilung: Zulassungen.

The documents are held available for ten years after the last marketing

STEINEL GmbH, approval department.

C.1 Bevollmächtigter für die technische Dokumentation

Authorized person for the technical documentation

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D Aussteller mit Adresse / Issuer and address

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Steinel GmbH
Ingo H. Steinel
(Geschäftsleitung / Chief Executive Officer)

Herzebrock-Clarholz, 23.6.2014

Datum / Date