

IEC60745_2_1D - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

**ATTACHMENT TO TEST REPORT IEC 60745-2-1  
EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES**

(HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS - SAFETY  
PART 2: PARTICULAR REQUIREMENTS FOR DRILLS AND IMPACT DRILLS)

**Differences according to**.....: EN 60745-2-1:2003+A11:07+A1:09+A12:09 used in conjunction with EN 60745-1:2009

**Attachment Form No.** ....: EU\_GD\_IEC60745\_2\_1D

**Attachment Originator** .....: Electrosuisse

**Master Attachment** .....: Date (2010-02)

**Copyright © 2010 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.**

6	ENVIRONMENTAL REQUIREMENTS		
6.1	Noise (Test according to § 6.1.1 – § 6.1.2.9)		P
	Noise measurements .....		P
6.1.2.2	R The sound power level is measured according EN ISO 3744		P
6.1.2.4	M Drills without an impact mechanism are suspended		P
	Impact drills are held by the operator for drilling vertically down in accordance with 6.1.2.5		N/A
6.1.2.5	M Drills without an impact mechanism are tested at no load		P
	For impact drills the speed setting shall be for an 8 mm bit		N/A
	Impact drills are tested under load (Z101/Z102)		N/A
6.1.2.9	Declaration and verification of noise emission values		P
	$L_{pA}$ [dB(A)] .....: 99,0 $K_{pA}$ [dB(A)] .....: 3,0		P
	$L_{pCpeak}$ (dB) .....: ..... $K_{pCpeak}$ (dB) .....: .....: .....		N/A
	$L_{WA}$ [dB(A)] .....: 110,0 $K_{WA}$ [dB(A)] .....: 3,0		P
6.2	Vibration (Test according to § 6.2.1 – § 6.2.6)		P
	Vibration measurements .....	2,8	P
6.2.6.3	Operating conditions		P
	A Drills with impact mechanism that can be switched off are tested according 6.2.6.3.101 and 6.2.6.3.102		N/A
	Diamond core drills are tested according 6.2.6.3.103		N/A
6.2.6.3.101	Operating conditions for drills		P
6.2.6.3.102	Operating conditions for impact drills		N/A

IEC60745_2_1D - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
6.2.7.1	Reported vibration value		P
A	For impact drills: $a_{h,ID}$ impact drilling (m/s <sup>2</sup> )..... :		N/A
	For drills: $a_{h,D}$ drilling (m/s <sup>2</sup> )..... :	2,8	P
	For diamond core drills: $a_{h,DD}$ diamond drilling (m/s <sup>2</sup> )..... :		N/A
6.2.7.2	Declaration of the vibration emission value (instruction manual)		P
A	For drills without impact mechanism – drilling into metal		P
	Vibration emission value $a_{h,D}$ (m/s <sup>2</sup> )..... :	2,8	P
	Uncertainty K (m/s <sup>2</sup> )	1,5	P
	For impact drills with drill only function – impact drilling into concrete		N/A
	Vibration emission value $a_{h,ID}$ (m/s <sup>2</sup> )..... :		N/A
	Uncertainty K (m/s <sup>2</sup> )		N/A
	For impact drills with drill only function – drilling into metal		N/A
	Vibration emission value $a_{h,D}$ (m/s <sup>2</sup> )..... :		N/A
	Uncertainty K (m/s <sup>2</sup> )		N/A
	For impact drills without drill only function – impact drilling into concrete		N/A
	Vibration emission value $a_{h,ID}$ (m/s <sup>2</sup> )..... :		N/A
	Uncertainty K (m/s <sup>2</sup> )		N/A
	For diamond core drills without impact mechanism – drilling into concrete		N/A
	Vibration emission value $a_{h,DD}$ (m/s <sup>2</sup> )..... :		N/A
	Uncertainty K (m/s <sup>2</sup> )		N/A
	For diamond core drills with impact mechanism – impact drilling into concrete		N/A
	Vibration emission value $a_{h,ID}$ (m/s <sup>2</sup> )..... :		N/A
	Uncertainty K (m/s <sup>2</sup> )		N/A
	For diamond core drills with impact mechanism – drilling into concrete		N/A
	Vibration emission value $a_{h,DD}$ (m/s <sup>2</sup> )..... :		N/A
	Uncertainty K (m/s <sup>2</sup> )		N/A

IEC60745_2_1D - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
<b>8</b>	<b>MARKINGS AND INSTRUCTIONS</b>		P
8.1	Year of manufacture ..... :	2012	P
8.12	The words "Original instructions" appears		P
	Designation of the tool		P
8.12.2 (Za)	Emissions (EN 60745-1:2009)		P
	1) The noise emission according to 6.1.2.		P
	2) Recommendation for the operator to wear hearing protection.		P
	3) The vibration emission according to 6.2.		P
	Vibration emission < 2.5 m/s <sup>2</sup> , stated in the instruction		N/A
	Vibration emission > 2.5 m/s <sup>2</sup> value given in the instruction		P
	Information about the declared vibration		P
	Warning about vibration value during actual use		P
	Warning to identify safety measures to protect the operator		P
<b>17</b>	<b>ENDURANCE</b>		P
17.2	R Replacement of carbon brushes is allowed		N/A