

Test Report

No. SDHGR120200015GA

Date: Mar 05, 2012

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The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description : 12 INCH BBQ
 Supplier Item No. : AA427
 Buyer Item No. : P422.29*
 Buyer : XINDAO (SHANGHAI) CO. LTD.
 15th FLOOR, LZT TOWER, NO.4711 JIAO TONG ROAD
 Supplier : BARWELL LIMITED
 Manufacturer : BARWELL LIMITED
 Country of Destination : THE NETHERLANDS
 Sample Receiving Date : Feb 22, 2012
 Test Performing Date : Feb 24, 2012 to Feb 29, 2012
 Test Required : In accordance with EN 1860-1:2003+A1:2006 Appliances, solid fuels and
 firelighters for barbecuing—Part 1: Barbecues burning solid fuels—
 requirements and test methods
 Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of
 SGS-CSTC Co., Ltd.



Jack Yao
 Approved signatory

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Test Conducted:

EN 1860-1:2003+A1:2006 Appliances, solid fuels and firelighters for barbecuing--Part 1: Barbecues burning solid fuels—requirements and test methods.

Sample Size (Approximately):

Overall size : Diameter 320 mm × Height 430 mm
Cooking grid size : Diameter 290 mm

Tested Result: details shown as following table.

Clause	Test Items	Results
4	Requirements	
4.1	General requirements	
	Coating shall withstand the test described in 5.2.	Pass
	The surfaces of and coatings on parts of the barbecue coming into contact with the food to be barbecued , cooking grid, split, meat forks and gravy trays, see Directive 89/109/EEC. Different legal requirements can exist in non-EU countries.	N/T
	It should be possible to assemble and dismantle suitcase barbecues as described in the instructions for use either without the aid of a tool or using the tool that is supplied. Components shall be fixed in such a way that they can not fall off during transportation.	N/A
	When assembling, operating and manipulating the barbecue, accessible edges and corners shall be free from burr, rough surfaces, sharp edges and corners, which can cause injury, are not allowed.	Pass
	All accessible parts of the barbecue components made of sheet or tube of thickness less than 0.7mm without coating shall be fully edged or folded and flattened or rolled and closed or rolled and half closed.	Pass
	The construction of the barbecue shall be such that when placed horizontally the change of the fuel compartment position, according to the instruction for use and the insertion and removal of barbecue accessories with the cooking grid and/or spit loaded as described in 5.5, shall be possible without the barbecue tipping over or components become detached or moved in such a way that they are no longer capable of fulfilling their functions. These requirements also apply when testing barbecue as described in 5.2.	Pass
	After test in accordance with 5.2 and 5.4 a barbecue fails if: a. Any deformation of component compromises the use and safety of the barbecue. b. Any component cracks and/or fractures appear; c. Any component fall off; d. The temperature of the base on which the barbecue is placed shall not exceed 70°C during the test.	Pass

To be continued...

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Clause	Test Items	Results
4.2	Requirements for parts:	
	Cooking grid	
4.2.1	The clear distance between the bars of the cooking grid shall not exceed 20mm before, during and after tested according to 5.2 and 5.6. This requirement relates to the usable area of the grid, which shall be at least 60% of the horizontal area of the fuel compartment vertically projected. If the cooking grid has the function of a grate, the clear distance between the bars of the grate and also, in the case of vertical fuel compartment, of those between the grate and the edges of the fuel container shall not exceed 20mm before, during and after tested according to 5.2 and 5.6. The cooking grid shall rest on its supporting points in the most unfavorable position when loaded as specified in 5.5. When the load has been removed the deformation of each grid shall not exceed 5% relative to the length of the bar when tested according to 5.6. Manually adjustable cooking grids up to 400 mm diameter or longest side measurement shall be fitted with one handle minimum, cooking grids over 400 mm diameter or the longest side measurement shall be fitted with two handles. If the cooking grid position can be adjustable, this adjustment shall be possible without the operator's hand coming into direct contact with the cooking grid. Removable or movable handles shall be attached to the cooking grid in such a way that tipping to the side or forwards when loaded as specified in 5.5 shall be impossible. No handle is required when the height of the cooking grid can be adjusted through a mechanical device. The barbecue shall be designed in such a way that when the fuel compartment is uniformly loaded to 75% of its capacity, the cooking grid in its most unfavorable position shall not come into contact with the fuel.	Pass
4.2.2	Spit	
	The end of the spit shall have the shape of a truncated cone of minimum diameter not less than 1.5 mm and not exceeding 3 mm and a taper angle between 60 degree and 90 degree. The spit shall have a permanent or removable handle of at least 100mm usable length. The handle for any motor supplied with it shall be 80mm minimum length. If the distance between the support points of the spit exceeds 800mm, a second handle shall be provided unless the motor has the function of a second handle. The handle (or handles) shall be fitted in such a way that when tested as specified in 5.2, the surface temperatures shall not exceed the values in Table 3. The spit shall have a minimum of two adjustable and fastenable meat forks. When loaded the spit with 0.5 Kg per 100 mm usable length it shall rest on all its supporting points. The other components of the barbecue shall not come into contact with a cylinder 200mm in diameter, with a grid in place, and of a length equivalent to at least 60% of the usable spit length placed centrally around the spit and in the center of the spit. If several points are possible, this requirement shall be met for at least one position.	N/A

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Clause	Test Items	Results						
4.2.3	Fuel compartment							
4.2.3.1	General	Pass						
	Fuel compartments made of steel sheet require a minimum thickness (uncoated) at specified in Table 1.							
	Table 1 — Minimum thickness of steel sheet for fuel compartments							
	<table><tr><td>Grid size diameter or longest side measurement</td><td>Thickness</td></tr><tr><td>≤ 400 mm</td><td>0.7 mm</td></tr><tr><td>> 400 mm</td><td>0.8 mm</td></tr></table>		Grid size diameter or longest side measurement	Thickness	≤ 400 mm	0.7 mm	> 400 mm	0.8 mm
	Grid size diameter or longest side measurement		Thickness					
≤ 400 mm	0.7 mm							
> 400 mm	0.8 mm							
For fuel compartments with a grid size diameter or longest side measurement ≤400mm, a thickness uncoated 0.7mm, minimum uncoated 0.5 mm, is acceptable, provided they are glass or porcelain enameled on both sides and withstand the tests according to : a. 5.2 three times consecutively; and b. 5.7. Fuel compartment made of cast metal require a minimum thickness uncoated of 2.5mm. For compartments made of materials other than steel sheet or cast material shall withstand the tests according to : a. 5.2 three times consecutively; and b. 5.7.								
4.2.3.2	Openings	Pass						
	The number of the openings in the flat base of the fuel compartment shall not exceed four and shall be dimensioned so that sphere of 3 mm in diameter will not fall through them, their area shall not exceed 50 mm².							
	Other openings, other than in the flat base, if circular should have a diameter not exceed 8 mm, or, if a different shape, their area shall not exceed 50 mm². With large openings the barbecue shall be equipped with an ash catcher or the barbecue shall be designed so that it is impossible for any embers or fuel to fall out or roll off when tested to 5.2 and 5.3.							
4.2.3.3	Depth of the fuel compartment	Pass						
	The minimum depth of the fuel compartment shall be as indicated in Table 2. The minimum depth shall be available over 80% of the usable area of the fuel compartment.							
	Table 2 — Minimum depth of the fuel compartment							
	<table><tr><td>Grid size diameter or longest side measurement</td><td>Minimum depth of fuel compartment</td></tr><tr><td>≤ 400 mm</td><td>50 mm</td></tr><tr><td>> 400 mm</td><td>60 mm</td></tr></table>		Grid size diameter or longest side measurement	Minimum depth of fuel compartment	≤ 400 mm	50 mm	> 400 mm	60 mm
	Grid size diameter or longest side measurement		Minimum depth of fuel compartment					
≤ 400 mm	50 mm							
> 400 mm	60 mm							
If the fuel compartment is a grate, Table 2 shall not be taken into account but it shall have an ash catcher If the fuel compartment has several possible positions, stops shall be provided to secure the container in each of these positions Where a barbecue is built into brick, pre-fabricated brickwork elements or similar structure, the brickwork can be used as part of the fuel compartment when calculating the specified minimum depth shown in Table 2								

To be continued...

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Clause	Test Items	Results								
4.2.4	Gravy tray or drip pan: for barbecue with gravy tray or drip pan	N/A								
	If the barbecue has a gravy tray or drip pan with the barbecue in the horizontal position it shall either be arranged in such a way that its contents flow away from the fuel compartment or have a recess at least 5mm deep and the horizontal distance between the grate and the beginning of the recess shall be at least 30mm, when the base of the gravy tray or drip pan is horizontal.									
4.2.5	Stand	Pass								
	If the stand is foldable, the folding elements shall be capable of being locked in the operating position of the barbecue. A locking and/or unlocking device shall not operate unintentionally. The stand shall support the barbecue when tested in any position specified in 5.4. The barbecue shall not tip over and when used in accordance with the instructions for use no components shall fall off. If the stand or barbecue has wheels to enable it to be moved, no parts or accessories shall fall off during movement and a means shall be provided to prevent accidental movement of the stand or barbecue during normal use. A gripping device shall be provided to move the barbecue safely.									
4.2.6	Handles or gripping devices	Pass								
	Handles shall have a usable length of minimum 80 mm. Handles or gripping devices shall be fitted in such a way that when tested the surface temperatures over the full usable part of the handle shall not exceed the values specified in Table 3. Table 3 —Surface temperatures <table><tr><th>Material</th><th>Temperature</th></tr><tr><td>Metal</td><td>55</td></tr><tr><td>Glass/ceramics</td><td>66</td></tr><tr><td>Plastics</td><td>70</td></tr><tr><td>Wood</td><td>89</td></tr></table>		Material	Temperature	Metal	55	Glass/ceramics	66	Plastics	70
Material	Temperature									
Metal	55									
Glass/ceramics	66									
Plastics	70									
Wood	89									
4.2.7	Motor	N/A								
	The motor shall operate the spit for at least 30 min without having to rewind the motor or replace the batteries There shall be no risk, when rewinding the motor or replacing the batteries of the operators hand coming into contact with other part of the barbecue with surface temperatures exceeding the values specified in Table 3 This requirements applies for the spit loaded as described in 4.2.2 The motor supplied shall still be capable of moving the spit loaded as described in 4.2.2 after testing in according with 5.2									
5.3	Combustibility	Pass								
	During the test the paper shall not burn and the plywood shall not become singed									

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Clause	Test Items	Results
6	Marking	Pass
	Makings shall be visible, legible, indelible and at least in the national language of the country of sale The barbecue shall be marked with the following information: - Name or trademark of the manufacturer or distributor. This shall be fitted on the barbecue by casting, stamping, enameling or labeling. - Warning notice "CAUTION! Do not use spirit or petrol for lighting or re-lighting!" This warning notice shall still be legible and shall not have come off after testing in accordance with 5.2. The size of the lettering shall be at least 3 mm for capital letters and 2 mm for small letters and shall be visible during the operation of the barbecue and in contrast with the background. - Model or type designation. This marking may be on the package only.	
7	Instruction	Pass
	The instruction shall be given at least in the national language of the country of sale. They shall contain at least the following information and shall be supplied with each barbecue: - the model or type designation including explored view and parts list; - the statement that the barbecue has to be installed on a secure level base prior to use; - the method of correct assembly possibly using illustrations; - advice on the safe operation of the barbecue; - the recommendation that the barbecue shall be heated up and the fuel kept red hot for at least 30 min prior to the first cooking on the barbecue; - the recommended fuel and the maximum amount to be used; - the correct lighting procedures including the statements "do not cook before the fuel has a coating of ash" - the type of batteries to be used if a battery powered electric motor is supplied or specified; - the type of bonding agent if required for constriction of permanent barbecues; - the following warning notice: "ATTENTION! This barbecue will become very hot, do not move it during operation" "Do not use indoors!" "CAUTION! Do not use spirit or petrol for lighting or re-lighting! Use only firelighters complying to EN 1860-3!" "WARNING! Keep children and pets away"	

Remark:

- N/A--- Not applicable;
- 89/109/EEC described in EN 1860-1 has been replaced by 1935/2004/EC, so the updated one is used in this test.
- The tests are carried out with charcoal and fire lighter sold in local market instead of EN 1860-2 &-3 complied items.

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Photo Appendix



Sample as received



Sample as received

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