

**WGL Feedback 01/12/16**  
**BRM Processed 09/12/16**

Draft Specification awaiting review

Note to reviewers and viewers:

Red text or underline: is usually a question:

Is the information correct?

I have found reference to it but no supporting evidence if it is relevant or not

can you provide correct information?

or should it be removed?

Blue Text or underline: Usually optional information

To be edited by the project specifier

Some times to be added to, chosen from or deleted, if not relevant to the job

Green text: a note to me to edit in the next iteration or next product specification

Blue underlined text: Usually a hyperlink

Please provide feedback to Brian Murphy to update until completion

**N13 SANITARY APPLIANCES/FITTINGS**

To be read with Preliminaries A10-A55/General Conditions

**8 BSI CEN ISO DOCUMENTS:**

BS 476: :Fire tests on building materials and structures.

BS 476-6:1989+A1:2009 Method of test for fire propagation for products

BS 476:Part 7:1997 Method of test to determine the classification of the surface spread of flame of products

BS 6853: 1999

BS EN ISO 179-1:2010 Determination of Charpy impact properties. Non-instrumented impact test

BS EN ISO 180:2001 Plastics. Determination of IZOD impact strength

BS EN ISO 846:1997 Plastics. Evaluation of the action of microorganisms

BS EN ISO 19712: :Plastics-Decorative solid surfacing materials

BS EN ISO 19712-1:2007:Solid surface shape products

BS EN ISO 19712-3:2013:Plastics-Decorative solid surfacing materials

**361A RECESSED WALL MOUNTED AUTOMATIC HAND WASH DRIER:**

Reference Drawings:

Wallgate's:

SPEC Thrii\_DIS\_SS.doc Issue: 4 (at time of specification) (others for other models)

Architect's: [ ]

Location: See Sanitary Appliance schedule: [ ]

Surround: [brick/block/IPS panelling/timber/metal pre fabricated walls]

Manufacturer: Wallgate Ltd. Crow Lane, Wilton, Salisbury, Wiltshire, SP2 0HB, England

T 01722 744594 F 01722 742096

E [sales@wallgate.com](mailto:sales@wallgate.com) W [www.wallgate.com](http://www.wallgate.com)

ISO 9001 (Quality management assessment)

Local/Project Contact: [Name of representative]

T [ ] F [ ] M [ ]

Product Reference: Thrii Handwasher Drier

Model Reference:

Thrii\_DIS\_SS Handwasher Drier Solid Surface (others for other models)

3<sup>rd</sup> Party evaluation: against: BREEAM 2011 New Construction Technical Guide Issue 2

Criteria judged against

BREEAM Hea05 Acoustic Performance

BREEAM Wat04 Water Efficient Equipment

BREEAM Ene08 Energy Efficient Equipment

Results: See report

Report file name: Thrii BREEAM assessment test report 09.04.15.pdf

URL: <http://www.wallgate.com/>

Enhanced Capital Allowance scheme

Energy Technology Product List (ETPL)

Energy Star rating

Government Buying Standard

Green Tick Buying Solutions website

Legal minimum: CE Marked Self Declaration

Servicing frequency:

LCD display indicates recommended service is required at 56,000 cycles on system usage counter

Or annually.

Servicing actions: \_\_\_\_\_  
Literature: SPEC Thrii\_DIS\_SS.doc Issue: 4 (at time of specification) (others for other models)  
Surround suitability: brick/~~block~~, IPS panelling, timber or metal pre fabricated walls  
Arrangement: 230 mm. projecting into wall; 60 mm. projection proud of wall  
Materials:  
Body:

Solid surface: pre-accelerated low colour isophthalic unsaturated polyester resin.

Silane coated aluminium trihydrate without gel coated surface.

~~Stainless steel~~

Grade: \_\_\_\_\_

Finish:

Solid Surface: Polished to a gloss finish

~~Stainless steel:~~

Texture: \_\_\_\_\_

Direction: \_\_\_\_\_

Gloss level: Average is 60 GU but it is dependent on colour.

Colour:

[Red/Orange/Yellow/Blue/White/Grey/Black/Aubergine/Bluestone/Diamantina/Frost/Hyco/Slate/Thames/].

Custom colours available, contact manufacturer for more information.

~~Not applicable for stainless steel.~~

Finish Performance Classifications:

Durability, stain resistance, cigarette burns: Rated 5 (the highest rating) to BS EN ISO 19712-3

Except for section 5 regarding surface defects, Wallgate substitutes it's own Aesthetic Quality Standard which is more relevant to the complex products that Wallgate manufactures, and is available on request

Fire Performance:

BS 476:Pt 6 fire propagation Class '0' & BS 476:Pt 7 surface spread of flame Class '1'

(Test reports 194236 & 194237)

~~Non-flammable Test method? Test result?~~

~~Non toxic Test method? Test result?~~

Tested to:

BS 6853: 1999 Category 1b (test report: 194238)

BS EN ISO 179-1 Impact test: (Test certificate: M3933/5023/11)

BS EN ISO 180 Impact strength test: (Test certificate: M3933/5023/11)

BS EN ISO 846 Fungal Resistance Test (test report: 74745)

BS EN ISO 19712-3 Testing of Decorative Materials (test report: Q3514/4678-2-10)

ISO 22196: Anti-Bacterial Test (test report 74745)

Actuation:

Non-touch operation

When the user places their hands into the 'bowl' area of the unit

Automatic cut-off when hands are removed.

Proximity detection: infra-red sensor triggers the start and stop of its operation

Drying: Hand drying by unheated air blast (recycled air warmed only by motor assembly heat)

Filtering: Fan inlet filter

Controls: TCU 101 control unit

Programmable sequencing:

Incorporates state of the art electronics, enabling the hand wash/ drier to be configured to suit the end users requirements in terms of cycle sequence, cycle times and drier speed.

Factory default setting: soap > water > drying,

It can easily be configured to suit more specialized or individual requirements.

It can be re-configured on site by the user as required with very flexible programming.

Washing and drying cycle time: Fully adjustable from 30 second rapid wash cycle

Drier: 3 speed settings [Low: 250W; Medium: 390W; High: 460W].

Noise levels: at 1 m Low: 80.6 dBA; Medium: 86.3 dBA; High: 88.0 dBA (all three models?)

Soap dispensing: [liquid (default) or foam format providing up to 50% savings in soap consumption]

Energy efficient:

Electrical power rating: 2.6–3.1 kW

Energy saving: minimizing energy consumption when not in use.

In operation consumption: < 0.02 kWh used per operation

Standby energy consumption: 15W Energy and Water Savings: Instantaneous water heater consumes power only when in use.

Cost effective: Typical 90% savings compared with traditional washroom solutions

Water efficient: Highest BREEAM rating is achievable.

Flow rate: 2 L/min.

< 0.3 L dispensed per 10 s cycle.

Indicators:

LCD display: Service Required
Soap empty indicator light.
System usage counter.
Hygienic: Touch free operation
Easily cleaned: See Wallgate Solid Surface Care and Maintenance
<a href="http://www.wallgate.com/uploads/product-files/Solid%20Surface%20Care%20and%20Maintenance%202016.pdf">http://www.wallgate.com/uploads/product-files/Solid%20Surface%20Care%20and%20Maintenance%202016.pdf</a>
Service access:
Designed for both front and rear access.
<a href="#">Lockable front panel, with 3 securing points</a>
Weight: <a href="#">Solid surface: 29.4 kg.</a>
<a href="#">Stainless steel: 21.8 kg.</a>
Dimensions:
Aperture Size: (w x h x d): 427+5/-0 x 683 +5/-0 x 250 for 230 mm
Unit Size: (w x h x d): 450 x 793 x 290 mm (other sizes for other models)
Depth of 250 mm behind the wall/panel is required to accommodate equipment
Other requirements: Not Applicable
Installation:
Installation & Commissioning instructions: An instruction leaflet is supplied with the product
Operation Manual: full operations manual is available via the Wallgate website.
URL: <a href="http://www.wallgate.com/uploads/product-files/Operations%20Manual%20Thrii%20Rev%205.6.pdf">http://www.wallgate.com/uploads/product-files/Operations%20Manual%20Thrii%20Rev%205.6.pdf</a>
Arrangement: Thrii unit is designed for front or rear service access
Install: <a href="#">[front/rear]</a> service access
Surround: <a href="#">[brick/block, IPS panelling, timber or metal pre fabricated walls]</a>
Fixing: to aid installation and ensure alignment within the aperture:
Thrii comes with a support frame and corner mounting threaded rods.
Fastenings: See Product Manual
<a href="http://www.wallgate.com/uploads/product-files/Operations%20Manual%20Thrii%20Rev%205.6.pdf">http://www.wallgate.com/uploads/product-files/Operations%20Manual%20Thrii%20Rev%205.6.pdf</a>
Mounting height: to comply with national standards: height above finished floor level to underside of aperture
<a href="#">[UK = 590 mm</a>
<a href="#">New Zealand = 675 mm</a>
<a href="#">Australia = 680 mm</a>
<a href="#">France = 700 mm]</a>
Connections:
Electrical Power Ratings: 220–240 V, 50 Hz, single phase, 2.6 to 3.1 kW (depending upon settings)
Point of Supply: 13 A fused double pole switched spur located maximum 1 m adjacent to appliance.
Earth bonding:
Through earth conductor in mains cable.
Installer to follow installation regulations for bonding pipework.
Water:
Dynamic water flow pressure: 1 to 4 bar is required for optimum operation
Inlet connection on the unit support frame is 15 mm compression.
Connection to mains water: Ø15 mm Compression connection.
Waste: Connection pipe size: 1 ¼" (32mm) with 75 mm deep seal waste trap.
Project configuration by installer:
Soap delivery: <a href="#">[default: Liquid/ optimum: Foam]</a>
Drier speed setting: <a href="#">[default/high]</a>
Washer drier cycle time: <a href="#">[default/45]</a> seconds with automatic shut off
Programmable sequencing: <a href="#">[Multiple combinations of soap, water and air cycles]</a>
Soap: A range of liquid soaps are available from Wallgate.
Charge the soap dispenser sufficiently to enable commissioning and testing before handover.
Upon completion clean down with manufacturers recommended cleaning method and materials.
Provide temporary protection until hand over.
At hand over remove temporary protection and leave clean.
Provide 1 clean copy of operating manual at hand over
Warranty: 12 month warranty as defined in Wallgate T&C's Revision 2016
Commissioning: <a href="http://www.wallgate.com/services/onsite-commissioning-services">http://www.wallgate.com/services/onsite-commissioning-services</a>
Service Contracts: <a href="http://www.wallgate.com/services/maintenance-contracts">http://www.wallgate.com/services/maintenance-contracts</a>
Full After Sales Support: <a href="http://www.wallgate.com/about/our-services">http://www.wallgate.com/about/our-services</a>

Appendix/Clause(s) on previous page(s)

**NB: NOTES ON EDITING SPECIFICATIONS:**

Use as guidance, a standalone appendix or merge into work section.

Delete all of the Information on this and other pages of guidance notes, excluding the page break above, down to the end of **GBE** compatibility URLs (website addresses), when adding this work section or clauses to a project specification or purchase order.

Edit the clauses by selecting the clauses required, deleting any not required, by editing the [blue text which often describes options available] within square brackets to suit the project; or edit the specification to suit the procurement method.

Remove all square brackets using search for [ and replace with nothing and search for ] and replace with nothing.

Replace blue text with black text by selecting all and choosing auto or black colour text.

There are clauses in Red text in the Specification these are examples of project specific versions of the generic clauses that are included for guidance and are likely to be deleted or edited if they are useful to the project.

Remove any grey tone by selecting all text, and select Format > Borders and Shading > Shading > No fill > Okay.

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**REV Revisions**

Revision No.	Description	Author	Date
A00	Header and T&C A04 added	BRM	27/03/2016
A01	Extracted Chris Ashworth Product Specification	BRM	15/11/16
A01	Extracted TECH Thrill DIS_SS.doc Issue: 4	BRM	15/11/16
A01	Edited to NBS format and GBE Robust Specification level of detail	BRM	15/11/16
A01	Hand copied data from 'Declaration of materials performance.PDF'	BRM	16/11/16
A01	Hand copied data from ASF BREEAM report PDF 090415	BRM	16/11/16
A02	Incorporated feedback: Qs from CA @ CACL, As from PT @ WL 17/11/16; minor editing	BRM	21/11/16
A02	Added Guarantee/Warranty line	BRM	21/11/16
A03	GBE header Logos and T&Cs removed from file by CA Comments from AN@WGL	CA AN @ WGL	01/12/16
A04	Process comments from AN@WGL	BRM	09/12/16
A04	Issue update to CA @ CACL	BRM	09/12/16
	Pending		
A01	Editing from feedback and 3 Other model specs to complete	BRM	16/11/16