

LISTING REPORT

Applicant Listing Number:	E10540
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Report Number:	E10540-1201 Ed.2
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Applicant:	AGT Products Inc.
	2311 Royal Windsor Drive
	Mississauga, ON L5J 1K5
	Canada
Contact Name:	Bob Smith, Product Development
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Edition 2:

Application Number:	E10540-1501
Office:	Coquitlam
Date:	2015-10-15
Issued By:	Colby Manley, Project Manager
Reviewed By:	Simon Hodson, Principal Electrical Engineer
Comments:	Add alternative component, strain relief.

See revision history on the summary page for previous editions.

Subject:

Product:	Wall Assembly used as interior wall panels
Description:	The products covered by this report are permanently connected, Dry locations, wall assembly used as a feed through only, no electrical connections internally except inside approved electrical boxes.

Applicable Requirements:

- | | | |
|-------------------------------|---------------------------|--|
| CSA C22.2 No. 203-M91(R2014), | 2 nd Edition – | Modular Wiring Systems for Office Furniture |
| UL 962 | 4 th Edition – | Standard for Safety Household and Commercial Furnishings |

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Alternate Trade Names:	N/A
Listing Number:	N/A

Manufacturing / Labeling Location A:	AGT Products Inc.
	2311 Royal Windsor Drive
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MODEL NUMBERS:

Product: Wall Assembly used as interior wall panels

Description: The products covered by this report are permanently connected, Dry locations, wall assembly used as a feed through only, no electrical connections internally except inside approved electrical boxes.

SMARTWALL Series						
Model #	Dimensions	Volts	Current	Wattage	Frequency	Location
SMWAPPD01240960 / SmartWall Blank Panel	23" x 96" x 4-1/4"	120 Vac	15 A	-	60 Hz	Dry
SMWALSD01240960 / SmartWall Light Panel	23" x 96" x 4-1/4"	120 Vac	15 A	-	60 Hz	Dry
SMWAWPD01240960 / SmartWall Plug Panel	23" x 96" x 4-1/4"	120 Vac	15 A	-	60 Hz	Dry
SMWABBB01240960 / SmartWall Blank Panel M2T	23" x 96" x 4-1/4"	120 Vac	15 A	-	60 Hz	Dry
SMWAPPD01240120 / SmartWall Blank Panel 120"	23" x 120" x 4-1/4"	120 Vac	15 A	-	60 Hz	Dry
SMWA OCD01240960 / SmartWall Outside Panel	4" x 96" x 4-1/4"	120 Vac	15 A	-	60 Hz	Dry

Conditions of Acceptability:

1. The manufacturer / Listee maintain a system to ensure each product complies with this report prior to application of the QAI mark.
2. The product is installed in accordance with the NEC and CEC as applicable.
3. Suitability of the product in its final installation is subject to inspection by the Authority Having Jurisdiction (AHJ).
4. A maximum of two NMD90 wire, or equivalent sheathed cables, are present through the channels.
5. 15A maximum branch circuits are present in the wall panels.
6. Strain relief will be present 18" from entering / leaving wall panels.

MARKINGS:

Each unit is to be marked with the below listed name plate markings and cautionary markings. Products intended for use in Canada are required to have caution and warning markings in both English and French; it is the responsibility of the applicant to adhere to this requirement and provide such markings as required by federal and provincial authorities.

Each unit is to be plainly and permanently marked in a place where the details will be readily visible after installation, unless otherwise indicated, with the following:

Name Plate Markings:

1. The applicant's name, multiple listee name or trade name or other recognized symbol of identification.
2. The model number.
3. The nominal voltage of the system to which the unit is to be connected.
4. The rated frequency.
5. The rated currents in amperes.
6. The month and year of manufacture. Date coding, serial number or equivalent means may be used.
7. The following QAI Listing mark:



8. QAI listing number "E10540" location directly below the QAI mark.
9. The statements 'Conforms to CSA C22.2 No. 203 & UL 962' adjacent to the QAI mark.

- Labels are to be made using a material capable of withstanding the products intended environment

Example Label:

- See product description for example of product label

Cautionary Markings:

10. For all units, the following note or equivalent shall be present,
WARNING: Use only NMD 90 equivalent or greater sheathed cable as specified in Table 19 of the CEC.
11. For all units, the following note or equivalent shall be present,
WARNING: CONNECT TO BRANCH CIRCUIT AT ONE POINT ONLY
and
AVERTISSEMENT: RACCORDER À LA DÉRIVATION, EN UN POINT SEULEMENT.

Installation, Operating and Safety Instructions:

12. The statement "IMPORTANT SAFETY INSTRUCTIONS" or the equivalent shall precede the list of instructions.
13. The statement "SAVE THESE INSTRUCTIONS" or the equivalent shall either precede or follow the list.
14. Instructions for installation and use, and care of the products are provided by the manufacturer.
15. The instructions shall provide a warning that the electrical connection between panels shall be disconnected prior to removal of a mechanical connection.
16. The instructions for an office furniture system shall specify, in a prominent location, that not more than 12 outlets shall be supplied by one circuit.

DEFINITIONS:

Recognized Component – A component part, which has been previously evaluated by an accredited certification body with some restrictions and must be evaluated as part of the basic product considering the Conditions of Acceptability.

Listed Component – A component part, which has been previously Listed or Certified by an accredited Certification Body with no restrictions and is used within its established application and ratings.

Unlisted Component – A part that has not been previously evaluated to the appropriate component standard or is being used outside its established ratings.

Critical Components – An essential part, material, subassembly, system, software or accessory of a product that provides a direct bearing on the product's compliance to the applicable standard but may not be electrical in nature and or subject to a listing program.

CONSTRUCTION DETAILS:

For specific construction details, reference should be made to the photographs and descriptions. All dimensions are approximate unless otherwise indicated. See below for the following general requirements that apply.

Spacings - In primary circuits, minimum 3.2 mm (1/8") spacings are maintained through air and 6.4 mm (1/4") over surfaces of insulating material between current-carrying parts of opposite polarity and between current-carrying parts and dead-metal parts.

Segregation/Separation of Circuitry – Circuits that operate at different voltages shall,

- be segregated from each other, or
- have all conductors insulated to the highest voltage.

Grounding & Bonding – All dead metal parts and dead metal parts within its enclosure that are exposed during operation or servicing and may become energized are to be reliably connected to the ground terminal or the ground lead of the supply cord. All other bonding is accomplished by positive mechanical means such as welds, hardware, appropriate sized bonding wires or equivalent means. Ground terminals shall be marked with a green painted screw or the ground symbol:



Mechanical Assembly - Components such as switches, fuseholders, connectors, wiring terminals and display lamps are mounted and prevented from shifting or rotating by the use of lockwashers, starwashers, or other mounting format that prevents turning of the component.

Corrosion Protection - All ferrous metal parts are protected against corrosion by painting, plating or the equivalent means.

Accessibility of Live Parts - All uninsulated live parts in primary circuitry are housed within a metal/plastic enclosure constructed such that any openings are not penetrable by the articulate probe per the above standard.

Internal Wiring - Internal wiring is routed away from sharp or moving parts. Internal wiring leads terminating in soldered connections are made mechanically secure prior to soldering. Recognized component separable connectors, closed loop connectors or other types described in this report are acceptable as internal wiring terminals. At points where internal wiring passes through metal holes, walls or partitions, the wiring insulation is protected against abrasion or damage by polymeric bushings or grommets.

PRODUCT DESCRIPTIONS

Model: SmartWall Series
 Ratings: 120 Vac, 60 Hz, 15A
 Environment: Dry
 Other: N/A

Components Summary:

Enclosure: Consists of the drywall type surface projecting vertically the entire length of the wall surface, from floor to ceiling. Excess length is cut to fit during installation. No Foam or inner channels will be visible or accessible after installation as per installation instructions. Rear of product must be protected from accessibility using normal accepted means, per installation instructions. The dimensions of the product and its surface are defined as per drawings and the below table.

Item #	Figure #	Part Description	Manufacturer	Part #	Technical Data	Marks of Conformity
-	-	EPS Foam	PolyForm	NEOPOR	NEOPOR 23" x 96" x 3.5", ULC S701-11, constructed as per diagrams and photos	Evaluated as part of the equipment
-	-	OSB ^{ALT}	Various	Various	OSB, 96" x 1.125" x 1.8", constructed as per diagrams and photos	Evaluated as part of the equipment
-	-	Drywall, Alternative01	Certainteed	AirRenew Essential	Drywall, Air Renew Family, 1/2" x 23" x 96", constructed as per diagrams and photos, Flame Spread = 15, Smoke Development Rating = 0	UL, CSA
-	-	Drywall, Alternative02	Certainteed	AirRenew Essential	Drywall, Air Renew Family, 1/2" x 23" x 120", constructed as per diagrams and photos, Flame Spread = 15, Smoke Development Rating = 0	UL, CSA
-	-	Drywall, Alternative03	Certainteed	AirRenew N2 Tech Moisture Resistance	Drywall, Moisture Resistance, 1/2" x 23" x 96", constructed as per diagrams and photos, Flame Spread = 5, Smoke Development Rating = 5	UL, CSA
-	-	Drywall, Alternative04	Certainteed	AirRenew N2 Tech Moisture Resistance	Drywall, Moisture Resistance, 1/2" x 23" x 96", constructed as per diagrams and photos, Flame Spread = 5, Smoke Development Rating = 5	UL, CSA
-	-	Electrical Box ^{ALT}	Steel City	Utility Box, 68371	18.8 Cu. In. Capacity, Steel, 10 1/2" knockouts (6 side, 2 end, 2 btm)	CSA, UL
-	-	Strain Relief	IBERVILLE	CI4040	3/8" trade size, metal, 2 Cables maximum	CSA
-	-	Strain Relief, Alternative	Arlington Industries	841 ST	3/8" trade size, metal, 2 Cables maximum	CSA, UL

Item #	Figure #	Part Description	Manufacturer	Part #	Technical Data	Marks of Conformity
-	-	Extension Screws ^{ALT}	Various	Various	Metal, 0.375" extension, secured by locknut to Electrical Box.	Evaluated as part of the equipment

Notes:

- 1) All parts used in the construction must be as described above, unless marked with superscript ^{ALT} to the right of the part description. When this mark appears the manufacturer can use alternate components that comply and are identical with the technical data and marks of conformity section above.
- 2) Components/materials marked unlisted must meet the technical data portion and any further description provided in this report.

Model:	SMWAPPD01240960, SmartWall Blank Panel		
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Photo 1 - Wall Assembly, Front



Photo 2 - Wall Assembly, Side View

Model:	SMWAPPD01240960, SmartWall Blank Panel		
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Photo 3 - Wall Assembly, Overall



Photo 4 - Wall Assembly, Top Edge



Photo 5 - Wall Assembly, Overall



Photo 6 - Wall Assembly, Top Edge

Component:	Electrical Box		
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Photo 7 - Outlet box, installed in panel



Photo 8 - Outlet box, with extension screws



Photo 9 - Outlet box, with extension screws side view

Component:	Label Sample, SmartWall Series		
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<p>DO NOT CUT OFF - BOTTOM OF PANEL - DO NOT REMOVE OR PAINT OVER LABEL - RATED FOR 120V 60 Hz 15 AMP MAX. NE COUPER PAS LE BAS DES PANNEAUX - N'ENLEVE PAS, NI PEINTRE PAS PAR DESSUS L' ÉTIQUETTE - ÉVALUÉ POUR UN MAXIMUM DE 120V 60 Hz 15 A.</p>			
<p>WIRING* Use only NMD 90 equivalent or greater sheathed cable as specified in Table 19 of CEC. Utilisez seulement des câbles gainés équivalent ou supérieure à NMD 90, comme indiqué dans le tableau 19 de la CEC.</p> <p>WARNING* Connect to Electrical Branch Circuit at One Point Only AVERTISSEMENT* Connectez-vous à un seul point de circuit électrique</p> <p>WARNING* The number of outlets supplied by one circuit must not exceed 12. AVERTISSEMENT* Le nombre de points fournis par un circuit ne doit pas dépasser 12</p> <p>WARNING* EPS foam must be protected by a Thermal barrier which provides a 15 minute rating and is less than 25 flame spread and 50 smoke developed. 1/2" Drywall meets these requirements. Cover all EXPOSED EPS FOAM with 1/2" Drywall mechanically fastened to the OSB (see "Protecting EPS Foam" in instructions) AVERTISSEMENT* La mousse EPS doit être protégé par une barrière thermique qui fournit une cote de 15 minutes et est inférieure à 25 de propagation des flammes et 50 de la fumée développé. Une feuille de placoplâtre de 1/2" répond à ces exigences. Couvrir toutes MOUSSE EPS exposé avec 1/2" placoplâtre fixé mécaniquement au OSB [voir "Protection de mousse EPS" dans les instructions]</p>	<p>Manufactured by AGT Products Inc. 2311 Royal Windsor Drive, Unit 2 Mississauga, ON, Canada L5J 9K5 1-866-767-6374 www.dicore.com</p>	<p>Produced On:</p>	
	 <p>See file number E10540 Voir le numéro</p> <p><small>Certified for Electrical Safety to CSA Standard C22.2 No. 203, UL 962 Certifié pour la sécurité électrique de la Norme CSA C22.2 n° 203, UL 962</small></p>	 <p>See file number ESR XXXX Voir le numéro</p> <p><small>Meets ASTM E-84 FSI <15, SDI <450 Conforme aux normes ASTM E- 84 FSI <15, SDI < 450</small></p>	<p>SMWAPPD01240960</p> <p>ONLY FOR USE with SMARTWALL® Modular Wall System components.</p> <p>PATENTS PENDING</p>

Figure 1 - Sample of Nameplate on SmartWall units

Model:	SMWALSD01240960, SmartWall Light Panel		
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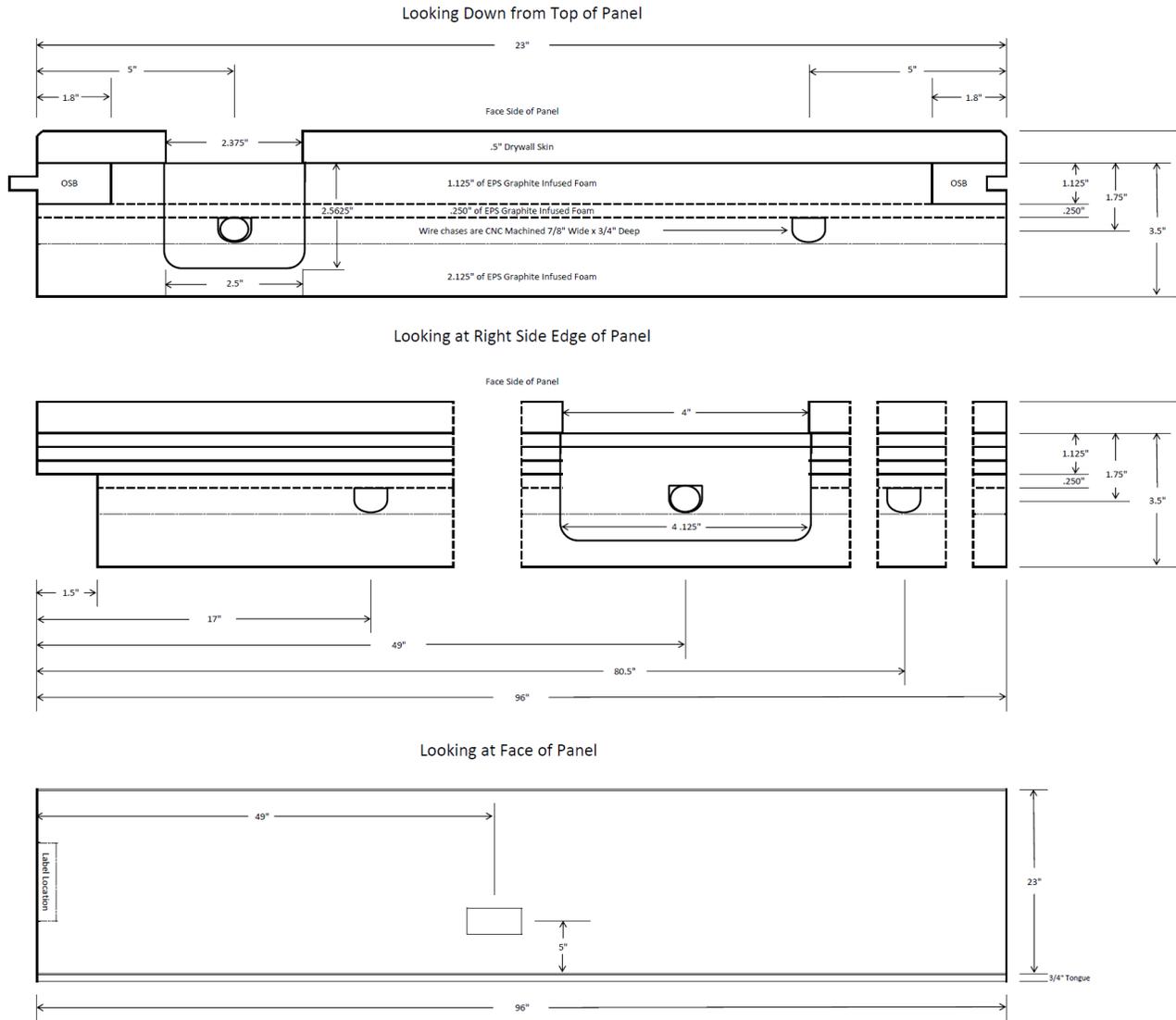


Figure 2 – SMWALSD01240960, SmartWall Light Switch Panel, Dimensional Overview

Model:	SMWAWPD01240960, SmartWall Plug Panel		
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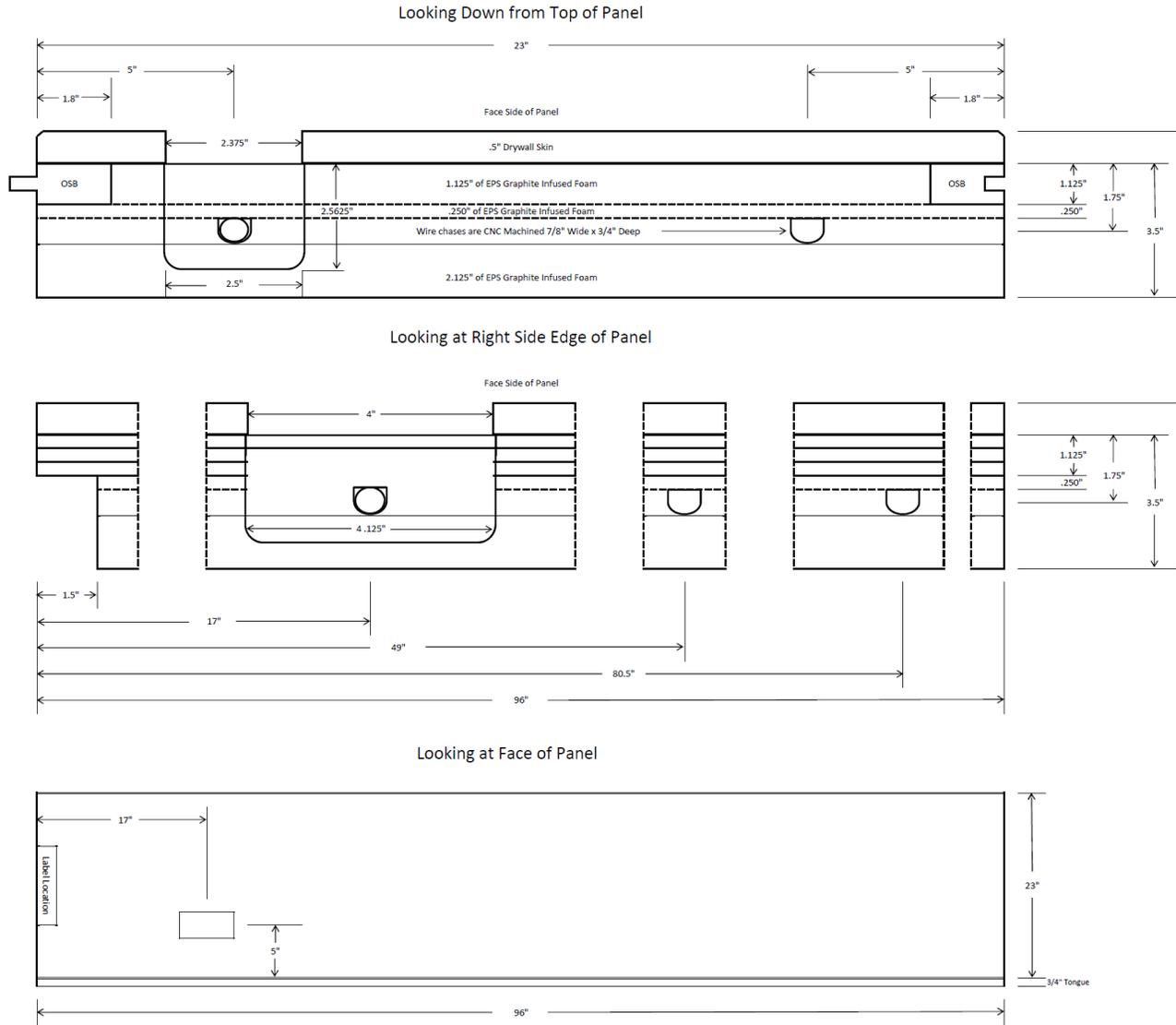


Figure 3 – SMWAWPD01240960, SmartWall Plug Panel, Dimensional Overview

Model:	SMWAPPD01240960, SmartWall Plain Panel		
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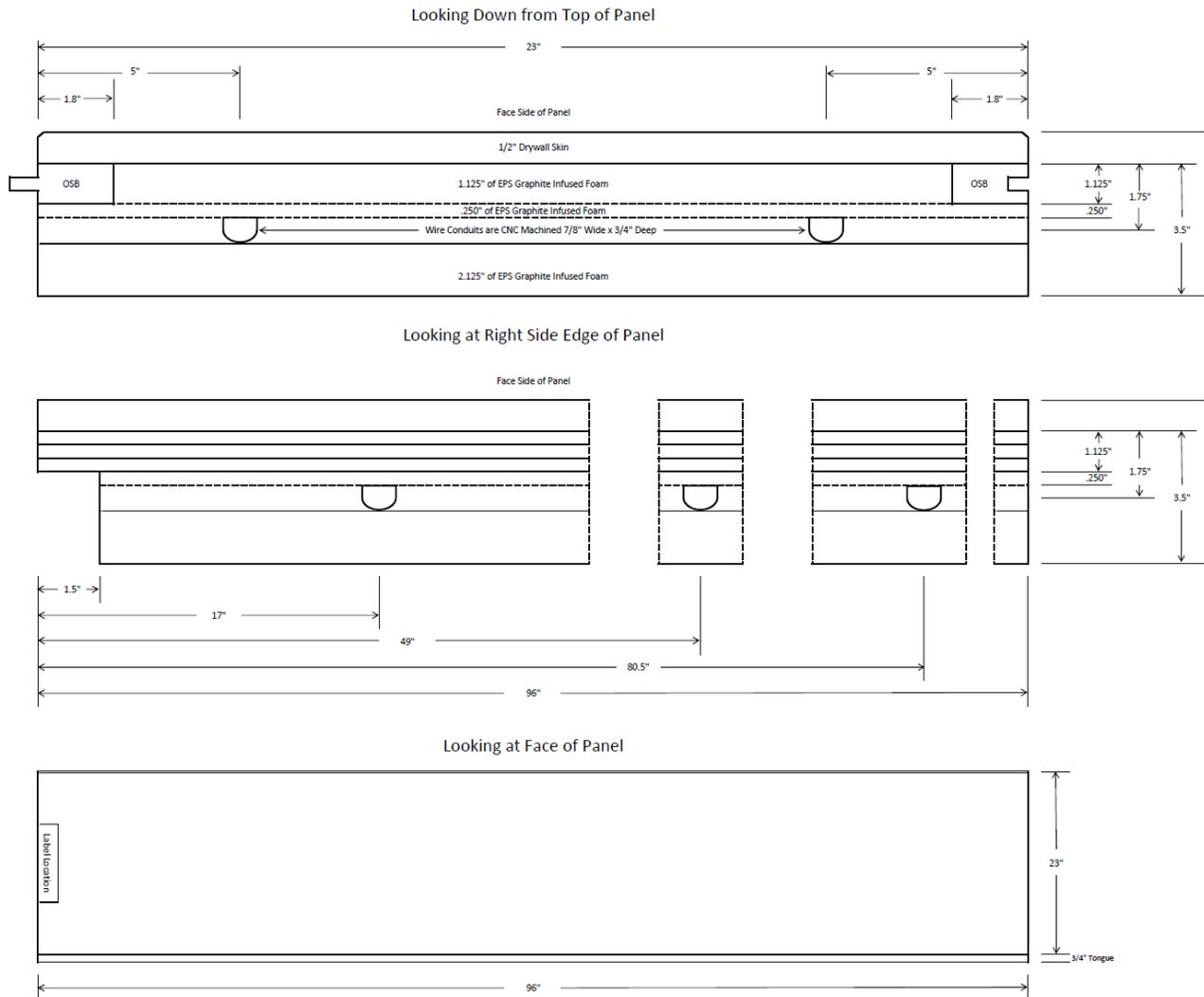


Figure 4 – SMWAPPD01240960, SmartWall Plain Panel, Dimensional Overview

Note, Above is representative of SMWABBB01240960. Only material of drywall will vary between two models.

Model: SMWAPPD01240120, 10ft Blank Panel

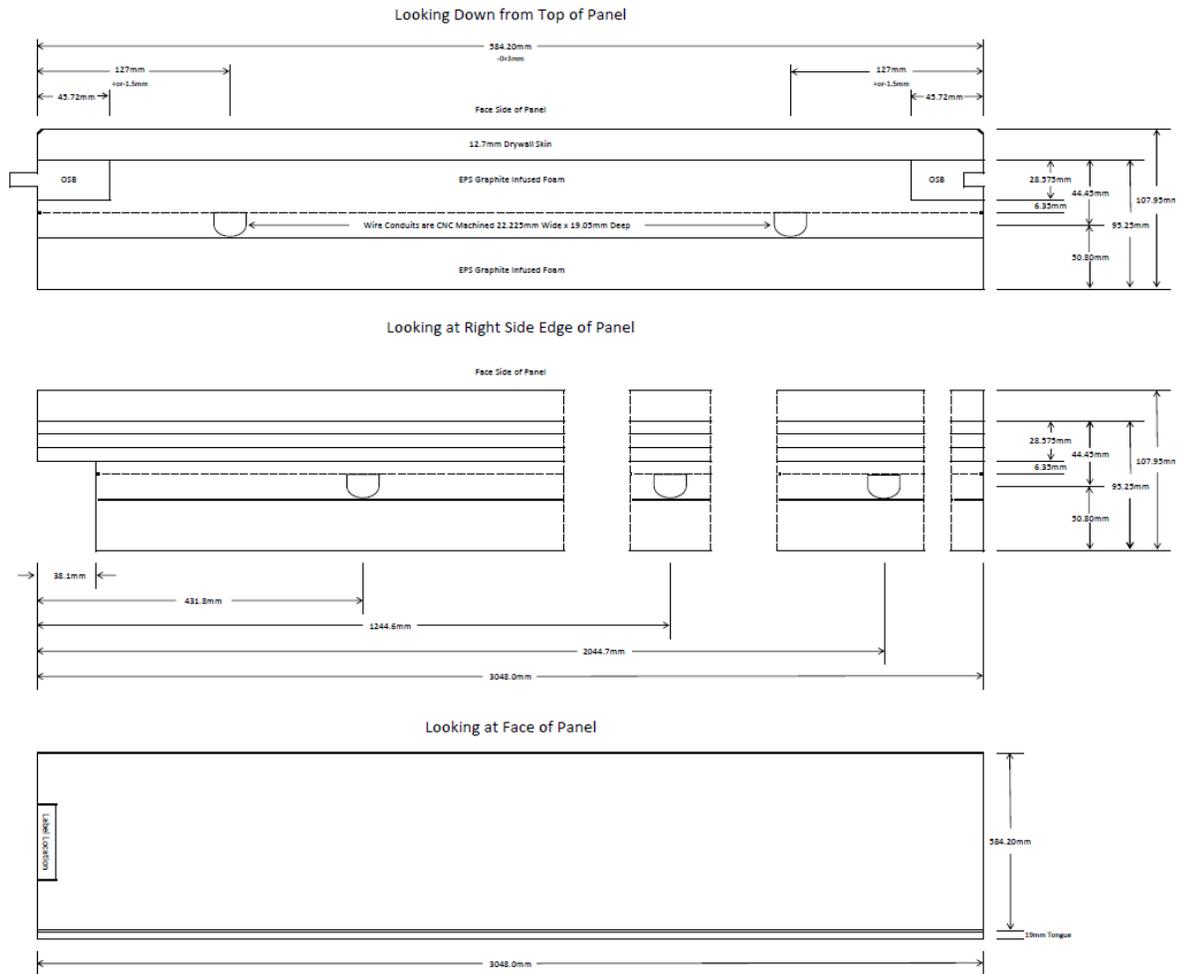


Figure 5 – SMWAPPD01240120, 10ft Blank Panel, Dimensional Overview

FACTORY TESTS:

The manufacturer agrees to perform the following factory tests:

Constructional Verification:

One sample in each production batch must comply with the dimensions described in Appendix C. The measurement must comply within $\pm 0.50\%$ of the dimensions.

Calibration of Equipment:

Equipment used for taking measurements for final acceptance of products that are to be certified by QAI must be calibrated on an annual basis by a laboratory that is accredited by an International Laboratory Accreditation Consortium (ILAC) member signatory accrediting body for the appropriate scope of work. Lesser calibration frequencies must be approved by QAI in writing. ILAC member signatories may be found at: <http://ilac.org/signatory-search/>

WARNING:

The factory tests specified may present a hazard of injury to personnel and/or property and should only be performed by persons knowledgeable of such hazards and under conditions designed to minimize the possibility of injury.

SUMMARY of: E10540-1201

Samples were received as typical production samples, received between November 11, 2012 and May 06, 2013, and were tested between November 11, 2012 and May 30, 2013 as being representative samples of models covered in this report.

Testing was conducted in accordance with CSA Standard No. 203-M91 & UL 962.

The samples were tested and comply with the test clauses as indicated below:

Test Clause	Test Description / Name	Result
CSA C22.2 No. 0.4 § 4.1	Impedance Test	P
UL 962 § 34.5	Mold Stress Test	P
UL 962 § 34.1	Impact Test	P
UL 962 § 39.1	Temperature Test	P
UL 514A § 12.11	Boxes and Box Supports	P

Conclusion:

A representative sample of the products described in this report has been evaluated and found to comply with the applicable requirements and are acceptable for listing.

Project Manager: Colby Manley

Reviewed by: Simon Hodson

Title: Project Manager

Title: Electrical Lead Engineer

Signature: See previous report for signoff

Signature: See previous report for signoff

SUMMARY of: E10540-1201 Ed.2

Revision Description:

Date	Page(s)	Description of Change
2015-10-15	All	Revised report to new Evaluation Report format
2015-10-15	3	Added 10ft tall models, and revised model table. Alternative strain relief bushings, and drywall were added and evaluated

Test Summary:

Samples were received as typical production samples and tested 2015-08-07 as being representative samples of models covered in this report. Electrical box securement was tested with new construction to validate drywall and strain relief changes.

The samples were tested and comply with the test clauses as indicated below:

Test Description/Name	CSA C22.2 No. 18.1 / UL 514A	CSA C22.2 No. 203	UL 962	-
Boxes and box supports for unfinished structures (new work)	P	-	-	

Conclusion:

A representative sample of the products described in this report has been evaluated and found to comply with the applicable requirements and are acceptable for listing.

Project Manager: Colby Manley

Reviewed by: Simon Hodson

Title: Project Manager

Title: Principal Electrical Engineer

Signature:

Signature: