Field Guide and SWS
Getting the most out of our guidance sources
Michigan WX Conference 10-23-19
NREL
NATIONAL RENEWABLE ENERGY LABORATORY

Standard Work Specifications Tool
WHY SIGN UP?

• Generate scopes of work
• Create checklists for quality control inspections and energy audits
• Share favorites with print, email, and copy-to-Excel functionality
• Make a comment on the Standard Work Specifications
• Request the ability to create customized field guides
Create an Account

Standard Work Specifications Tool

Standard Work Specifications for Home Energy Upgrades

Standard Work Specifications (SWS) are a major component of the Guidelines for Home Energy Professionals project and define the minimum requirements to ensure that the work performed during home energy upgrades is effective, durable, and safe. The SWS can be used as an industry guide for workers, training instructors, homeowners, and program administrators involved in the home performance industry.
E-mail *

First Name

Last Name

Organization

City

Job Title

State

CAPTCHA
This question is for testing whether or not you are a human visitor and to prevent automated spam submissions.

What code is in the image? *

Enter the characters shown in the image.

Create New Account or Sign In
Terry's Favorites

This page includes all of the specifications that you have marked as Favorite. These specifications can be further sorted by housing type.

To remove a detail from your Favorites list, unhighlight the star and choose the group you would like to remove it from. To create a new Group, simply choose New Group and give it a name. To add a Favorite to multiple groups, click on the star and then select the additional group(s).

After selecting an entire Group or specific specification(s), you may use the Print and Email functions as needed.

Filter your favorites by Housing Type

- Single-Family Homes
- Manufactured Housing
- Multifamily Homes

Real Name: Terry Emelander
First Name: Terry
Last Name: Emelander
Organization: MiTEC
City: Lansing
Field Guides

Create a New Field Guide
Select one of the housing types below to create a new field guide.

- Single-Family Homes
- Manufactured Housing
- Multifamily Homes

Create Guide

My Field Guides
Below are field guides you have created.

You have not created any field guides yet.

Community Field Guides
Below are field guides created and published by other users.
Real name: Terry Emelander
First Name: Terry
Last Name: Emelander
Organization: MiTEC
City: Lansing

Review the comments you have made.
Either you haven't posted any feedback submissions or none of your submissions match this status.
https://www.youtube.com/playlist?list=PLmIn8HnCs7bHzUNODr85pYarL3AH9hzHc
## Section 2: Health and Safety

### 2.0100.1 Global Worker Safety

**Topic:** Safe Work Practices  
**Subtopic:** Safe Work Practices  
**Desired Outcome:** Work completed safely without injury or hazardous exposure

*Note: The authority having jurisdiction may require that a licensed professional perform certain tasks outlined in this detail.*

For supporting material, see Calculation of the Infiltration Credit and Building America Solution Center.

<table>
<thead>
<tr>
<th>Title</th>
<th>Specification(s)</th>
<th>Objective(s)</th>
</tr>
</thead>
</table>
| 2.0100.1a Prevention through design | Design will be incorporated to eliminate or minimize hazards (e.g., material selection, access to equipment for installation and maintenance, placement of equipment, dustwork and condensate lines) | Prevent worker injuries  
Reduce risk exposure to toxic substances and physical hazards |
| 2.0100.1b Hand protection | Durable and wrist-protecting gloves will be worn that can withstand work activity | Minimize skin contact with contaminants  
Protect hands from hazards |
| 2.0100.1c Respiratory protection | If the risk of airborne contaminants cannot be prevented, proper respiratory protection will be provided and worn (e.g., N-95 or equivalent face mask)  
When applying low pressure 2-component spray polyurethane foam, air purifying masks with an organic vapor cartridge and P-100 particulate filter will be used  
When applying high pressure SPF insulation, supplied air respirators (SARs) will be used  
Consult SDS for respiratory protection requirements  
OSHA 1910.134 shall be followed for the implementation of a respiratory protection program | Minimize exposures to airborne contaminants (e.g., insulation materials, mold spores, fumes, bacteria, chemicals) |
| 2.0100.1d Electrical safety | An electrical safety assessment will be performed  
All electric tools will be protected by ground-fault circuit interrupters (GFCI)  
Three-wire type extension cords will be used with portable electric tools | Avoid electrical shock and arc flash hazards |
Quality Control Checklist
Weatherization Assistance Program
Bureau of Community Action and Economic Opportunity

Customer: Dunbar, John
Address: 411 Forrest St, City, ST, Zip: Anywhere, MI
System ID: 123456

Audit Date:
Job #: 1234
Work Order Identifier: 123456789

**TWP: BAND JOIST (SILL BOX) INSULATION**


**Number:** 4104

**Topic:** BAND JOIST (SILL BOX) INSULATION

**Description:** When called for by the NEAT audit, all band joist pockets located between heated and unheated areas shall be insulated.

<table>
<thead>
<tr>
<th>Crew Leader</th>
<th>Inspector</th>
<th>SWS Item</th>
<th>SWS Specification</th>
<th>SWS Objective</th>
<th>SWS Link</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>4.1401.1</td>
<td></td>
<td>Insulate and seal all band/rim joist areas between subfloor and foundation or top plate of wall below</td>
<td><a href="https://sws.nrel.gov/spec/4140">https://sws.nrel.gov/spec/4140</a></td>
</tr>
</tbody>
</table>
• Our Weatherization Field Guide outlines a set of best practices for the Weatherization Assistance Program

• A major purpose of our guide is to show how its contents are aligned with the SWS. Therefore, we’ve inserted hypertext references to the specific SWS details

• If a local agency is required to follow a local ordinance, the ordinance shall supersede the guidance in our Weatherization Field Guide, as it does not address local code structures.
Michigan Weatherization Field Guide
SWS-Aligned Edition

Primary author: John Krigger
Illustrators: John Krigger, Bob Starkey, Steve Hogan, Wayne Harney, Darrel Tenter
Technical publisher: Darrel Tenter
Editors: Darrel Tenter

The Michigan Weatherization Field Guide describes procedures used to analyze and improve the performance of existing homes retrofitted under the Department of Energy’s Weatherization Assistance Program. This field guide is cross referenced to DOE’s Standard Work Specifications for Home Energy Upgrades: 2017 edition.

http://wxfieldguide.com/mi/#t=MIWxFG%2FTTitle%2FTTitle.htm
Michigan Weatherization Field Guide

Chapter 1: Health and Safety
Chapter 2: Energy Audits and Quality Control Inspections
Chapter 3: Weatherization Materials
Chapter 4: Attics and Roofs
Chapter 5: Walls
Chapter 6: Floors and Foundations
Chapter 7: Windows and Doors
Chapter 8: Heating and Cooling Systems
Chapter 9: Ventilation
Chapter 10: Baseload Measures
Chapter 11: Mobile Homes
Chapter 12: Air Leakage Diagnostics
Appendices
Glossary

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Abatement
Absolute humidity
Absorptance
Absorption
Accent lighting
ACH50
ACHnat
Acoustical Sealant
Adsorption
Air barrier
Air conditioning
Air Conditioning Contractors of America (ACCA)
Air exchange
Air handler
Air leakage
Air sealing
Air-free carbon monoxide (ppm)
Michigan Weatherization Field Guide
SWS Edition

Michigan Department of Health & Human Services

RICK SNYDER, GOVERNOR
NIK LYON, DIRECTOR

SATURN SERVICE MANAGEMENT
Serving the building performance industry since 1989
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Ctrl + F or right click Find
Mobile Version

- if service is available
- must scroll through
- follow table of contents
2015 Michigan Residential Code

ADOPTS WITH AMENDMENTS:
International Residential Code 2015 (IRC 2015)

Most popular sections

Section R403 FOOTINGS
Section R602 WOOD WALL FRAMING
Section R301 DESIGN CRITERIA
Section R311 MEANS OF EGRESS
Section R404 FOUNDAOTION AND RETAINING WALLS
Section R302 FIRE-RESISTANT CONSTRUCTION
Section R507 EXTERIOR DECKS
R301.2 Climatic and geographic design criteria
Section R303 LIGHT, VENTILATION AND HEATING
Section R405 FOUNDATION DRAINAGE
Section R316 FOAM PLASTIC

R316.1 General

The provisions of this section shall govern the materials, design, application, construction and installation of foam plastic materials.

R316.2 Labeling and identification

Packages and containers of foam plastic insulation and foam plastic insulation components delivered to the job site shall bear the label of an approved agency showing the manufacturer's name, the product listing, product identification and information sufficient to determine that the end use will comply with the requirements.

R316.3 Surface burning characteristics

Unless otherwise allowed in Section R316.5, foam plastic or foam plastic cores used as a component in manufactured assemblies used in building construction shall have a flame spread index of not more than 75 and shall have a smoke-developed index of not more than 450 when tested in the maximum thickness and density intended for use in accordance with ASTM E84 or UL 723. Loose-fill-type foam plastic insulation shall be tested as board stock for the flame spread index and smoke-developed index.
This code shall regulate the design and construction of buildings for the effective use and conservation of energy over the useful life of each building. This code is intended to provide flexibility to permit the use of innovative approaches and techniques to achieve this objective. This code is not intended to abridge safety, health or environmental requirements contained in other applicable codes or ordinances.

N1101.3.1 (R101.4.3) Additions, alterations, renovations, or repairs

Additions, alterations, renovations, or repairs to an existing building, building system, or portion thereof shall conform to the provisions of this code as they relate to new construction without requiring the unaltered portion(s) of the existing building or building system to comply with this code. Additions, alterations, renovations, or repairs shall not create an unsafe or hazardous condition or overload existing building systems. An addition shall be deemed to comply with this code if the addition alone complies or if the existing building and addition comply with this code as a single building.

Exception: The following are exempt provided the energy use of the building is not increased:

1. Storm windows installed over existing fenestration.
2. Glass only replacements in an existing sash and frame.
3. Existing ceiling, wall, or floor cavities exposed during construction provided that these cavities are filled with insulation.
4. Construction where the existing roof, wall, or floor cavity is not exposed.
5. Reroofing where the roof is part of the thermal envelope, and where neither the roof sheathing nor the roof insulation is exposed.
https://icc-es.org/evaluation-report-program/
DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
SECTION: 07 21 00—TERMAL INSULATION
SECTION: 07 27 00—AIR BARRIERS

REPORT HOLDER:
THE DOW CHEMICAL COMPANY

EVALUATION SUBJECT:
FROTH-PAK™ POLYURETHANE FOAM INSULATION
4.0 INSTALLATION

4.1 General:
The insulation must be installed in accordance with the manufacturer’s published installation instructions, the applicable code and this report. The manufacturer’s published installation instructions must be available on the jobsite at all times during installation.

4.2 Application:
The insulation is spray-applied at a one-to-one ratio to a maximum 2-inch (51 mm) thickness, as specified in the manufacturer’s published installation instructions.

The maximum service temperature must be no greater than that specified in The Dow Chemical Company installation instructions. The insulation must not be sprayed onto a substrate that is wet, or covered with frost or ice, loose scales, rust, oil, or solvents. The insulation must not be used in electrical outlet or junction boxes, or on heaters, furnaces, fireplaces, chimneys, vents, recessed light fixtures or other applications where the foam may come in contact with heat-conducting surfaces. The insulation must be protected from the weather during and after application. Where used as an air-impermeable insulation, the insulation must be installed at a minimum thickness of 1/2 inch (12.7 mm).

limited to 2 inches by 2 inches (51 mm by 51 mm) and unlimited length.

4.6 Use on Sill Plates, Band Joists and Headers:
The FROTH-PAK™ polyurethane foam insulation with a maximum thickness of 2 inches (51 mm) may be applied to sill plates, band joists and headers without a thermal barrier or ignition barrier in Type V construction in accordance with IBC Section 2603.4.1.13 and IRC Section R316.5.11.

4.7 Attics and Crawl Spaces:
4.7.1 Application with a Prescriptive Ignition Barrier:
When FROTH-PAK™ polyurethane foam insulation is installed within attics or crawl spaces, where entry is made only to service utilities, an ignition barrier must be installed on the interior of the attic or crawl space in accordance with IBC Section 2603.4.1.6 or IRC Sections R316.5.3 and R316.5.4, as applicable. The ignition barrier must be consistent with the requirements for the applicable code, and must be installed in a manner so that the foam plastic insulation is not exposed. The attic or crawl space area must be separated from the interior, habitable space of the building by an approved thermal barrier. The insulation may be installed in unvented attics as described in this section in accordance with 2018 and 2015 IBC Section R309.3 and 2018, 2015, and 2012 IBC Section R309.5.
Safety Data Sheets

• A safety data sheet (SDS), is a document that lists information relating to occupational safety and health for the use of various substances and products.

• SDS information may include instructions for the safe use and potential hazards associated with a particular material or product, along with spill-handling procedures.

• The older MSDS formats could vary from source to source depending on national requirements; however, the newer SDS format is internationally standardized.
DAP® Alex Fast Dry® White Acrylic Latex Caulk Plus Silicone - 10.1 oz

Model Number: 18425  Menards® SKU: 5634244

Online Price:  
EVERYDAY LOW PRICE
11% MAIL-IN REBATE Good Through 10/19/19
$3.18
$2.83

FINAL PRICE

You Save $0.35 After Mail-in Rebate

Qty: 1  ADD TO CART

* Increments of 12 may be required

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Mail-in Rebate is in the form of merchandise credit check, valid in store only. Merchandise credit check is not valid towards purchases made on MENARDS.COM. Learn More

Description & Documents

DAP® ALEX Fast Dry® Acrylic Latex Caulk Plus Silicone is IDEAL for projects that require painting shortly after caulk application. In about 20 minutes, the caulk forms a tough outer skin that’s dry enough to paint over with latex or oil based paints, cutting standard waiting times by 80 minutes. (Allow additional dry time in high humidity or cool temperatures.)

SDS

Technical Specifications

To read PDF files, you need the Adobe Acrobat Reader 6.0 or higher. Click here to download it for free from Adobe's site.

Dimensions: 10.1 oz
Shipping Dimensions: 11.34 H x 1.94 W x 1.94 D
Shipping Weight: 1.3125 lbs

Brand Name: DAP
## 1. Identification

This Material Safety Data Sheet is available in American Spanish upon request. Los Datos de Seguridad del Producto pueden obtenerse en Español si lo requiere.

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Alex Fast Dry Acrylic Latex Caulk Plus Silicone</th>
<th>Revision Date:</th>
<th>6/19/2015</th>
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<tbody>
<tr>
<td>Product UPC Number:</td>
<td>05882 11425 18425 18428</td>
<td>Superceded Date:</td>
<td>5/7/2013</td>
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<tr>
<td>Product Use/Class:</td>
<td>Caulking Compound</td>
<td>SDS No:</td>
<td>00010013001</td>
</tr>
<tr>
<td>Manufacturer:</td>
<td>DAP Products Inc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2400 Boston Street Suite 200 Baltimore, MD 21224-4723</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>800-627-8477 (non-emergency matters)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Preparer:</td>
<td>Regulatory Department</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## 2. Hazards Identification

**EMERGENCY OVERVIEW:** Under normal use conditions, this product is not expected to cause adverse health effects.

**GHS Classification:**
Not a hazardous substance or mixture.

**Symbol(s) of Product:**
None

**Signal Word:**
Not a hazardous substance or mixture.
Product Overview

GREAT STUFF Gaps and Cracks Insulating Foam Sealant with Quick Stop Straw Technology is a polyurethane-based insulating foam sealant that fills, air-seals and insulates small gaps (up to 1 in.) inside or out. What's amazing is how easy it is to use, thanks to the Quick Stop Straw Technology, and how it expands to take the shape of cracks and voids. This forms a durable, airtight and water-resistant bond that eliminates unwanted airflow and helps reduce condensation.

- Quick Stop Straw technology - helps stop messy foam drips
- Expands to fill the shape of cracks and voids for airtight bond
- Air sealing and insulating saves up to 20% on home energy costs
- GREAT STUFF gaps and cracks can be used in interior or exterior application and is tack free in 15-minutes, trims in 30-minutes to 60-minutes
- Forms a permanent weather-tight seal to minimize drafts and insect infestation and has exceptional adhesion to building materials
- Cures as a cream-colored rigid foam, ease of application results from all-direction dispensing
- One 16 oz. can equals up to 30 tubes (9 Qt.) of caulk
- Foam elasticity properties allow for movement and shifting within a structure

Info & Guides

- SDS
- Specification

You will need Adobe® Acrobat® Reader to view PDF documents. Download a free copy from the Adobe Web site.
SAFETY DATA SHEET
THE DOW CHEMICAL COMPANY

Product name: GREAT STUFF™ Gaps & Cracks Insulating Foam Sealant 12oz HC ES SASTW QP 95ct HD

THE DOW CHEMICAL COMPANY encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. IDENTIFICATION

Product name: GREAT STUFF™ Gaps & Cracks Insulating Foam Sealant 12oz HC ES SASTW QP 95ct HD

Recommended use of the chemical and restrictions on use
Identified uses: Polyurethane foam.

COMPANY IDENTIFICATION
THE DOW CHEMICAL COMPANY
2030 DOW CENTER
MIDLAND MI 48674-0000
UNITED STATES

Customer Information Number: 800-258-2436
SDSQuestion@dow.com

EMERGENCY TELEPHONE NUMBER
24-Hour Emergency Contact: CHEMTREC +1 800-424-9300
Local Emergency Contact: 800-424-9300

2. HAZARDS IDENTIFICATION

Hazard classification
GHS classification in accordance with 29 CFR 1910.1200
- Flammable aerosols - Category 2
- Gases under pressure - Liquefied gas
- Acute toxicity - Category 4 - Inhalation
- Skin irritation - Category 2
- Eye irritation - Category 2B
- Respiratory sensitisation - Category 1
- Skin sensitisation - Category 1
https://www.epa.gov/indoor-air-quality-iaq/protocols-home-energy-upgrades

Indoor Air Quality (IAQ)

Protocols for Home Energy Upgrades

This resource will help ensure that home energy upgrades protect the health of Americans while saving energy and money.

Purpose and Overview

Millions of American homes are upgraded or remodeled to improve their energy efficiency, make them more comfortable and affordable, or add features. The benefits of home upgrades are tremendous — improving quality of life for occupants, protecting the environment and
Healthy Indoor Environment Protocols for Home Energy Upgrades

GUIDANCE FOR ACHIEVING SAFE AND HEALTHY INDOOR ENVIRONMENTS DURING HOME ENERGY RETROFFITS
Building America Solution Center

Welcome to our new homepage! The Building America Solution Center provides access to expert information on hundreds of high-performance construction topics, including air sealing and insulation, HVAC components, windows, indoor air quality, and much more. Click on the links below to explore the Solution Center.
Existing Homes Tool

Welcome to the Existing Homes tool. Here you will find installation guidance for making existing homes more energy efficient, comfortable, and less expensive to operate. The tool is designed around common upgrades. Steps are numbered to indicate priorities from a health and safety standpoint. If you are doing a comprehensive renovation you may be interested in all the listed steps. If you are doing a more limited project, such as installing an attic, recouping, or replacing a water heater, you may focus on just a few steps.

It is worth noting the first section no matter what project you have in mind. Nine assessment guides are listed to help gauge whether a home is safe and sound for upgrades plus a guide to help consumers plan a series of upgrades over time. These guides may help ensure that projects (and tasks and contracts) cover related upgrades and are completed in the correct sequence.

If you want to learn more about how the guides work, or about other features in the Solution Center that will help with existing homes, click here.

- Step 1: Ensure Safe and Durable
- Step 2: Ensure Fresh Air
- Step 3: Ensure Moisture Protection
- Step 4: Ensure Draft Free
- Step 5: Ensure Thermal Comfort
- Anytime: Equipment Upgrades
The U.S. Department of Energy's (DOE) Weatherization Assistance Program (WAP) is governed by various federal regulations designed to help manage and account for the resources provided by DOE. Each year, Congress passes a Weatherization Assistance Program Appropriation. Find active and archived weatherization program notices and memorandums in the table below, which establish the framework for administering WAP funds.

Sign up to receive notification of the latest program notices and memorandums. If you are only interested in receiving updates regarding WAP Memorandums, WPNs, and Training Resources, please ensure that you update your user preferences on your Subscriber Preferences Page. You will need to use your e-mail address to log in. If you have questions or problems with the subscription service, please contact support@govdelivery.com.

### WEATHERIZATION PROGRAM GUIDANCE

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Effective Date</th>
<th>Topic</th>
<th>Type</th>
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<tr>
<td>Active Memorandums</td>
<td>WAP Memorandum OS2i Program Year 2020 Weatherization Assistance Program Draft: Grant Application Documents and Guidelines</td>
<td>10/15/2020</td>
<td>Application Instructions</td>
<td>Active Memorandums</td>
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<tr>
<td>Active Memorandums</td>
<td>WPN 10-5: Incidental Repair Measure Guidance</td>
<td>9/16/2010</td>
<td>Health &amp; Safety: Incidental Repair</td>
<td>Active Program Notices</td>
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<td>Active Memorandums</td>
<td>WAP Memorandum OS2: American Customer Satisfaction Index (ACS) Subgrantee Survey</td>
<td>6/30/2019</td>
<td>Evaluation</td>
<td>Active Memorandums</td>
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<tr>
<td>Active Memorandums</td>
<td>WAP Memorandum OS1: ACS1 Grantee Survey Results</td>
<td>5/23/2019</td>
<td>Evaluation</td>
<td>Active Memorandums</td>
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<td>Active Memorandums</td>
<td>WAP Memorandum OSO: Crew Lead and Retrofit Installer/Technician Job Task Analysis and Certification Updates, and Badges Toolkit Weatherization Program Notices (WP) 5-4, Section 4 states that</td>
<td>5/28/2019</td>
<td>Training</td>
<td>Active Memorandums</td>
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</table>
# Michigan Department of Health & Human Services

<table>
<thead>
<tr>
<th>Community Services Policy Manual</th>
<th>SUBJECT: Weatherization Assistance Program</th>
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</table>

## Health and Safety

<table>
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<th>Item 614</th>
<th>Page 1 of 2</th>
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</table>

## References

- Department of Energy Weatherization Assistance Program State Plan
- WAP Agreements
- DOE Weatherization Program Notice 17-7, WPN 17-7 Table of Issues, WPN 17-7 Attachment A
- Michigan Weatherization Field Guide
<table>
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<tr>
<td></td>
<td>OVERSIGHT OF LOCAL WEATHERIZATION PROGRAMS</td>
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<td></td>
<td>ISSUE DATE 6/28/2017</td>
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REFERENCES

- 10 CFR Part 440, Weatherization Assistance Program for Low-Income Person
- Department of Energy (DOE) Weatherization Program Notice 15-4
- WAP Memorandum 034
- Michigan Weatherization Field Guide
- WAP Agreements