Pro Trade CRAFT
For Residential Construction Pros

Integrate the Window and WRB (1/2)

Bottom of windows: stop air and let water drain
Sealing the window across all layers of the assemblly is done with caulk and flashing tape.

A sloped sill directs water leaks back out and weep gaps along the bottom let it drain.

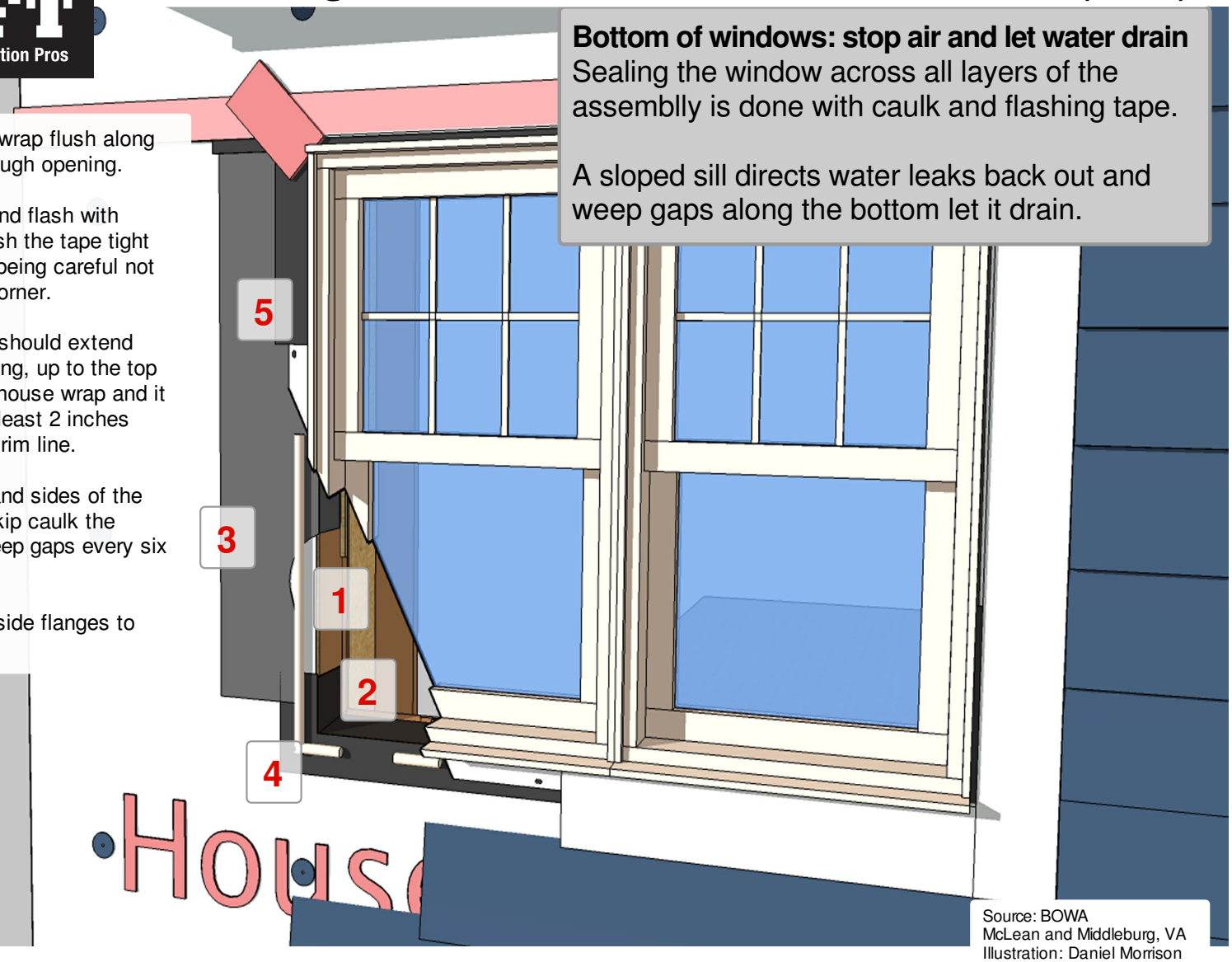
1. Cut the house wrap flush along all sides of the rough opening.

2. Slope the sill and flash with flashing tape. Push the tape tight into the corners, being careful not to puncture the corner.

3. Jamb flashing should extend over the sill flashing, up to the top of the flap in the house wrap and it should extend at least 2 inches past the exterior trim line.

4. Caulk the top and sides of the rough opening. Skip caulk the bottom—leave weep gaps every six inches or so.

5. Tape over the side flanges to make the air seal.



Watch this detail sequence on your phone: http://goo.gl/mK1h7q

Source: BOWA
McLean and Middleburg, VA
Illustration: Daniel Morrison

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For Residential Construction Pros

Integrate the Window and WRB (2/2)

Top of window: water and air management
Tuck the flange under the house wrap and use caulk, and flashing tape to complete the seal.

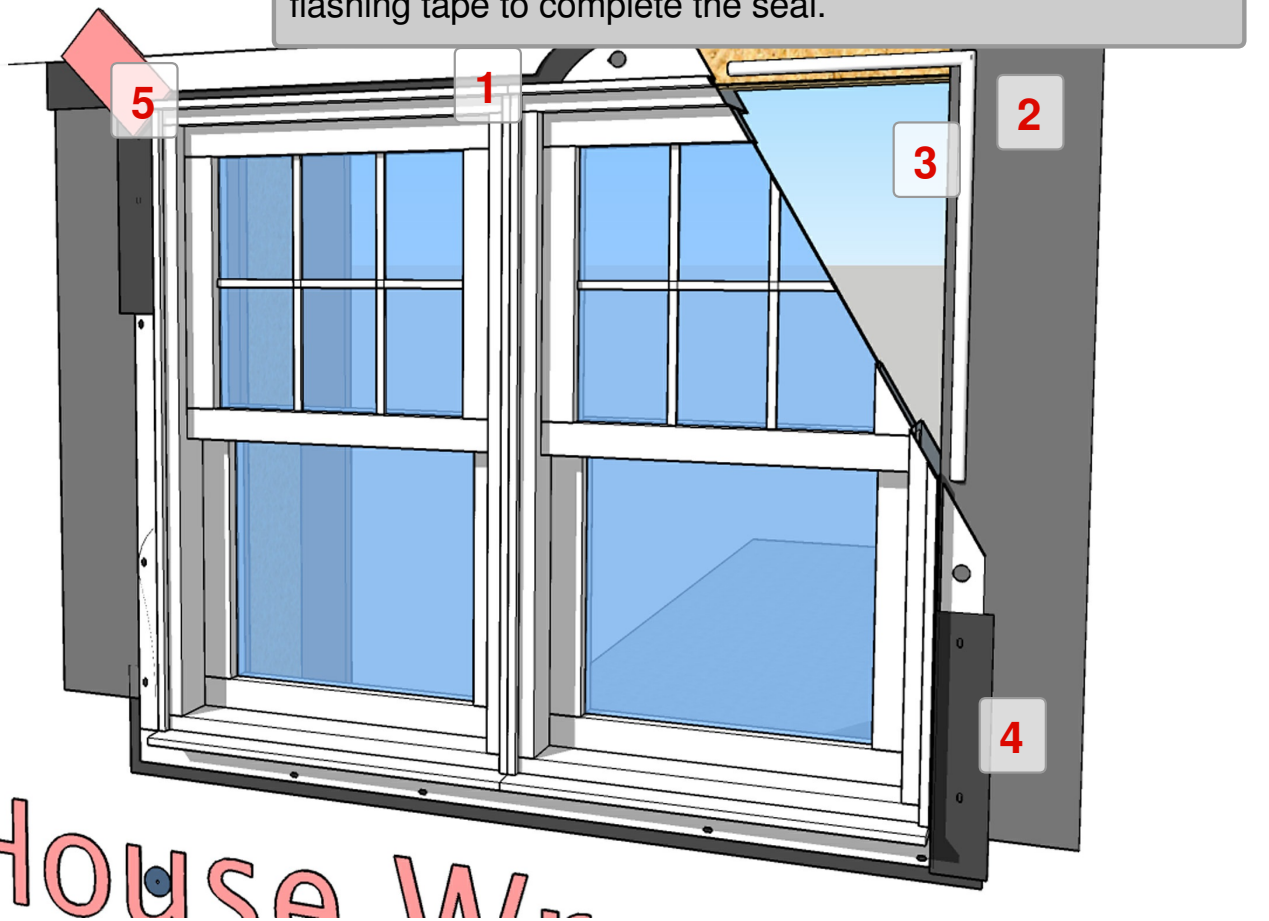
1. Cut the house wrap flush along all sides of the rough opening. At top of window, make a flap to tuck top flange behind.

2. Jamb flashing should extend up to the top of the flap in the house wrap and it should extend at least 2 inches past the exterior trim line.

3. Caulk the top and sides of the rough opening.

4. Tape over the side and top flanges to complete the air seal. The top jamb should cover the tape on the side jambs.

5. Fold house wrap flap down and tape seams with construction tape.



Watch this detail sequence on your phone: http://goo.gl/mK1h7q

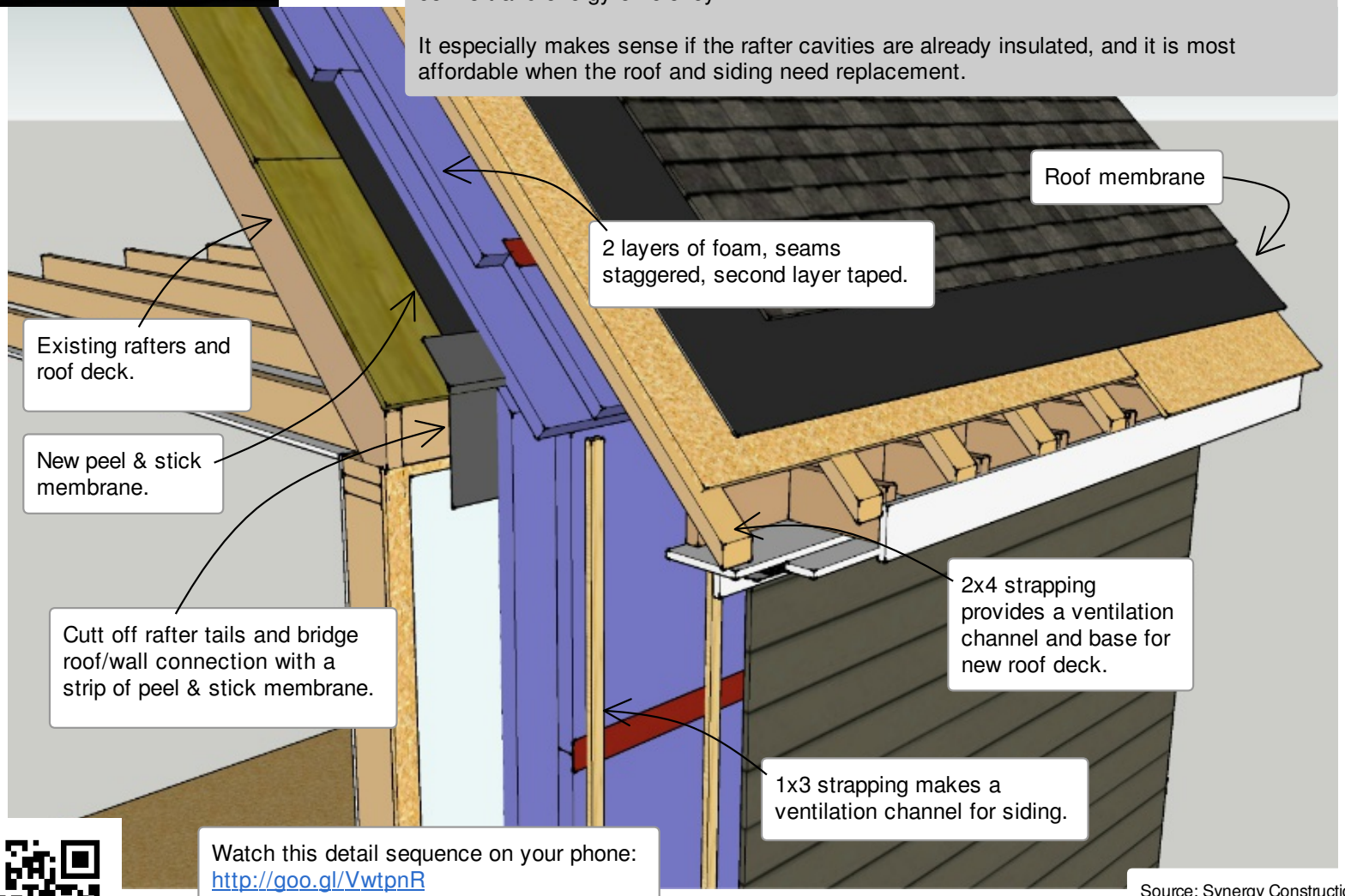
Source: BOWA
McLean and Middleburg, VA
Illustration: Daniel Morrison

Pro Trade CRAFT
By Professional Remodeler

Vented Roof/Wall Insulation Retrofit

Adding exterior insulation to the roof and walls of an old house is a great way to improve comfort and energy efficiency.

It especially makes sense if the rafter cavities are already insulated, and it is most affordable when the roof and siding need replacement.



Watch this detail sequence on your phone:
http://goo.gl/VwtpnR

Source: Synergy Construction
Illustration: Daniel Morrison

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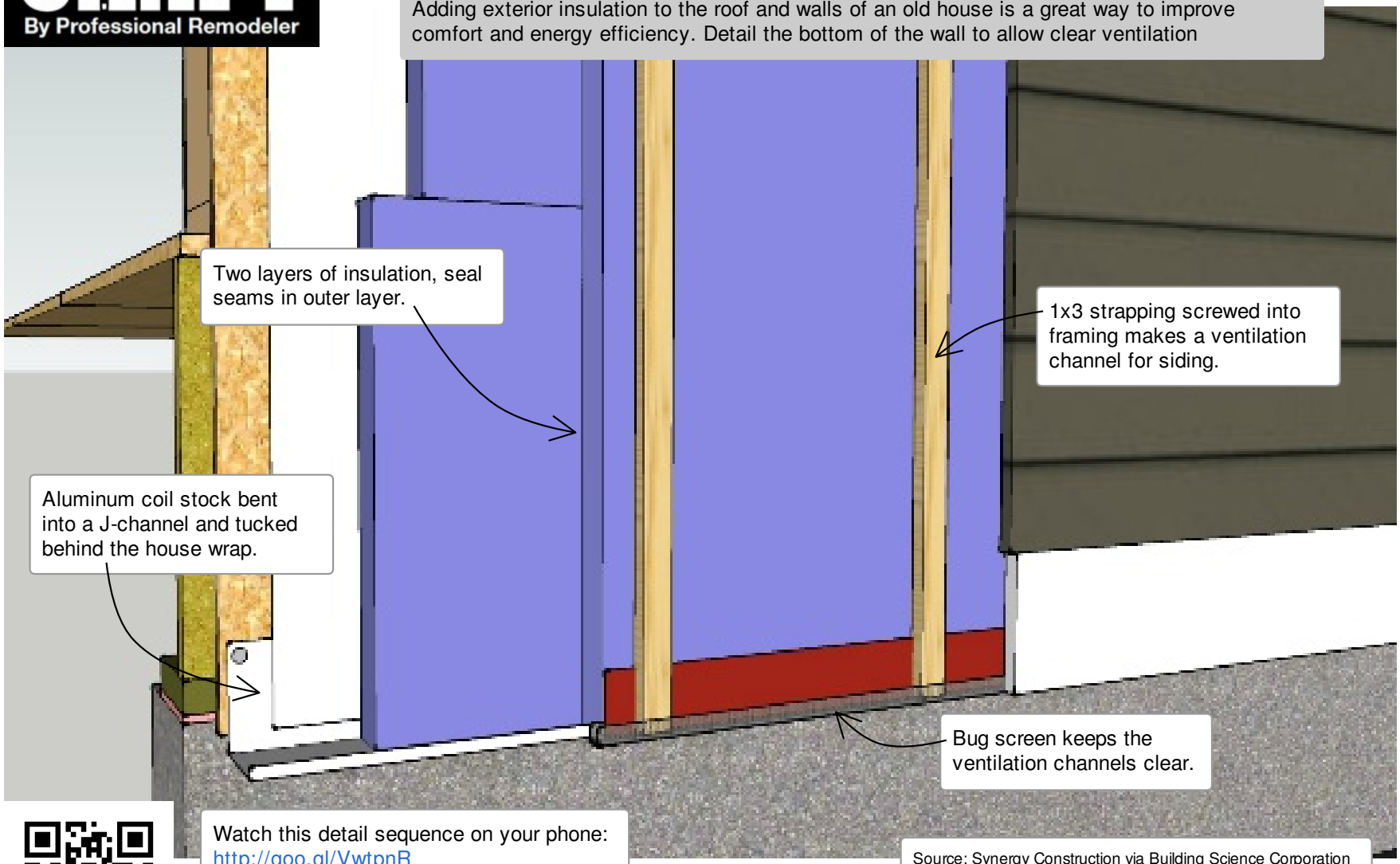
Pro Trade CRAFT
By Professional Remodeler

High Performance Insulation Retrofit

Adding exterior insulation to the roof and walls of an old house is a great way to improve comfort and energy efficiency. Detail the bottom of the wall to allow clear ventilation



Watch this detail sequence on your phone:
http://goo.gl/VwtpnR

Source: Synergy Construction via Building Science Corporation
Illustration: Daniel Morrison

Pro Trade CRAFT
For Residential Construction Pros

Airtight Dropped Soffit for Ducts

Keeping mechanical equipment within the envelope improves the air quality and longevity of homes.

Without airsealing, the soffit opens a 3-D airflow network connecting the living space to wall cavities, the attic, and the outside.

1. Insert the exhaust damper, seal in place with foam.

2. Install an air barrier, like plywood or drywall, fire taped, to the ceiling over soffit area.

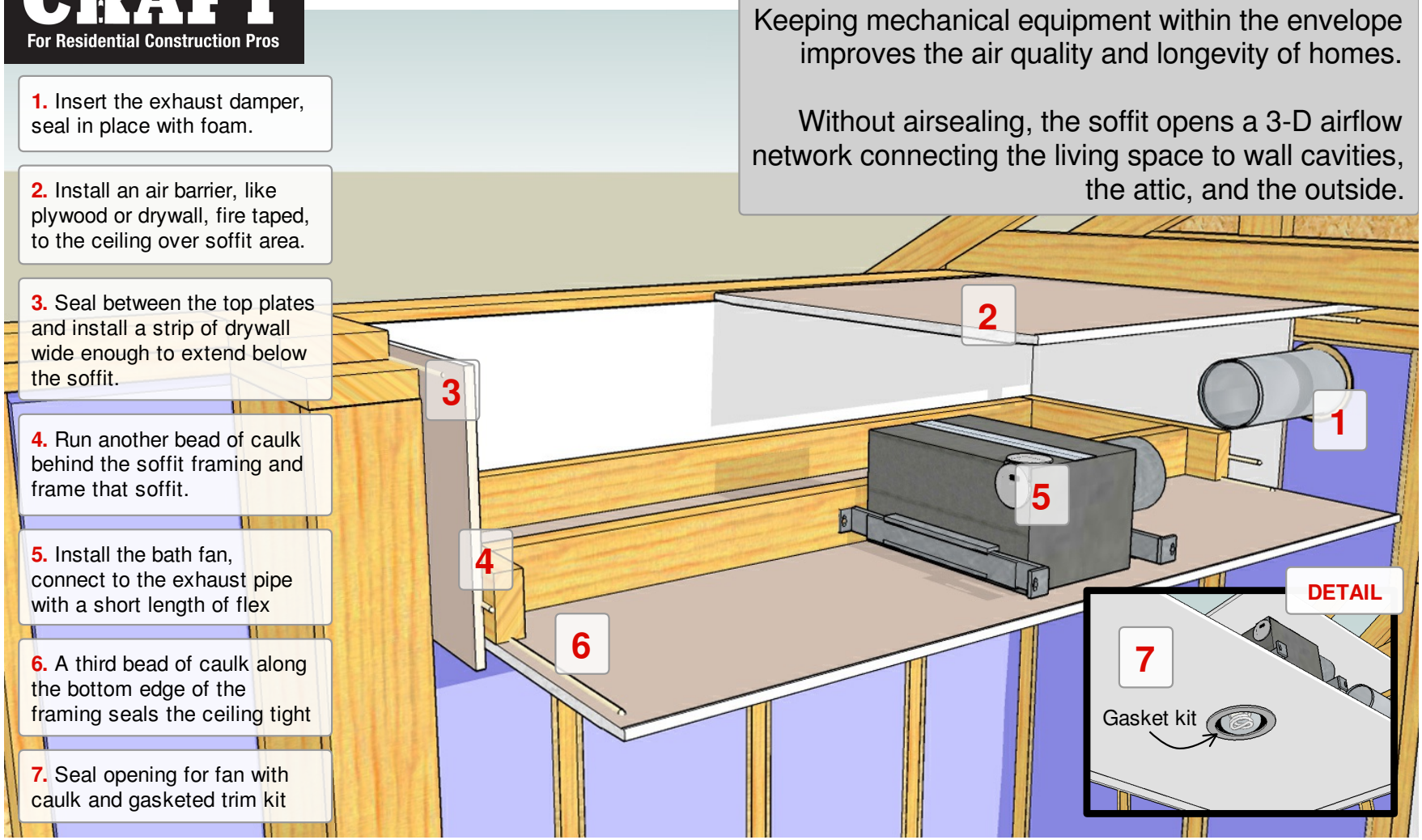
3. Seal between the top plates and install a strip of drywall wide enough to extend below the soffit.

4. Run another bead of caulk behind the soffit framing and frame that soffit.

5. Install the bath fan, connect to the exhaust pipe with a short length of flex

6. A third bead of caulk along the bottom edge of the framing seals the ceiling tight

7. Seal opening for fan with caulk and gasketed trim kit



Watch this detail sequence on your phone: https://goo.gl/dzWeFs

Sources: Building America Solutions Center
Technical assistance:Carl Seville and David Joyce
Illustration: Daniel Morrison

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