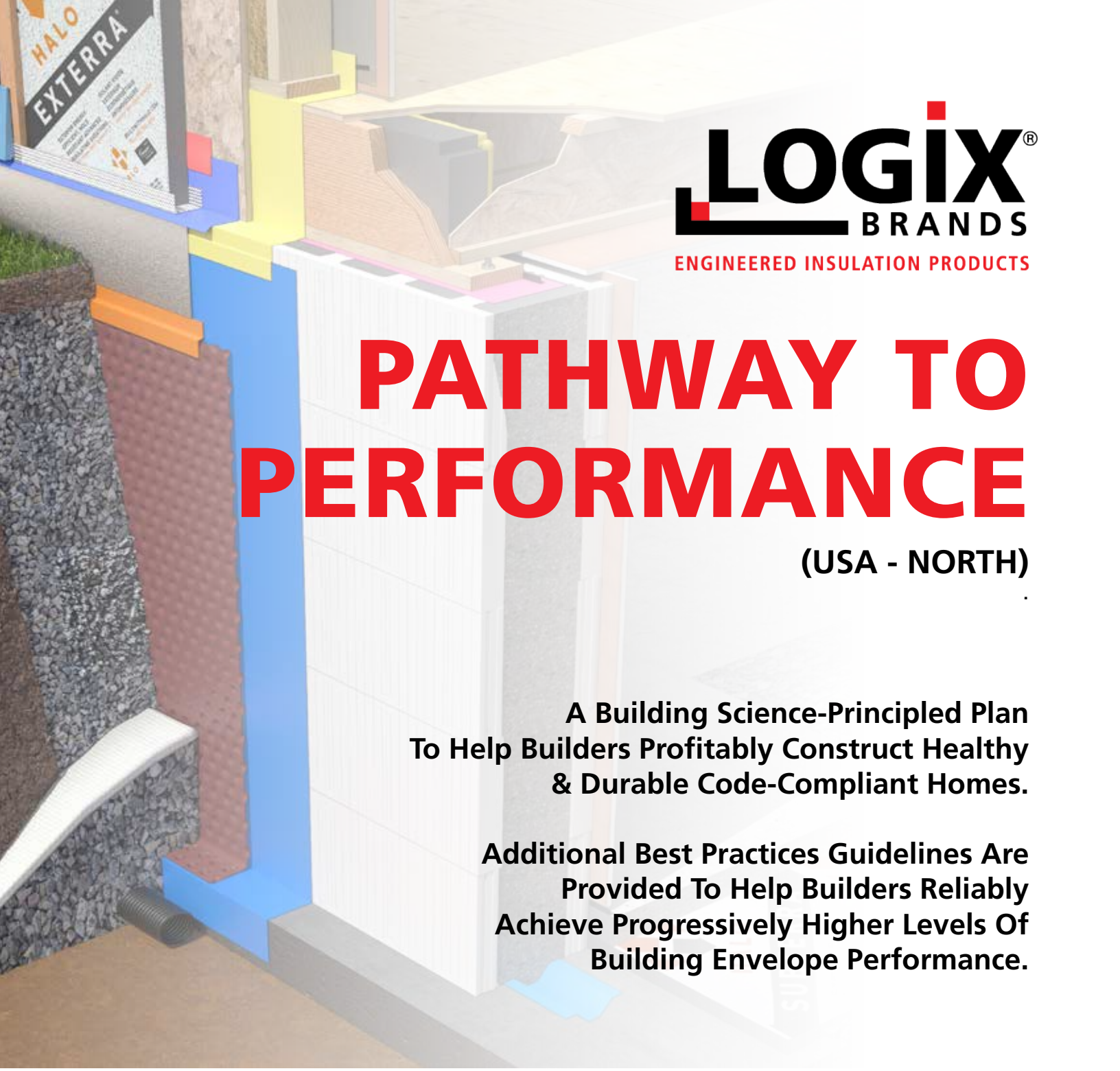


LOGIX® BRANDS

ENGINEERED INSULATION PRODUCTS

PATHWAY TO PERFORMANCE

(USA - NORTH)

A Building Science-Principled Plan To Help Builders Profitably Construct Healthy & Durable Code-Compliant Homes.

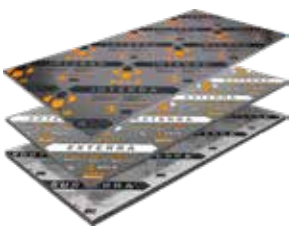
Additional Best Practices Guidelines Are Provided To Help Builders Reliably Achieve Progressively Higher Levels Of Building Envelope Performance.

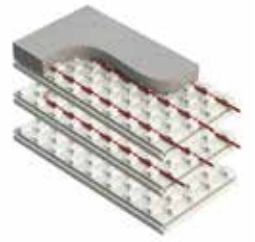
ELEMENTICF® LOGIX BRANDS

HALO® ADVANCED GRAPHITE INSULATION SYSTEM

HEAT-SHEET®

CHROMEGPS PROFESSIONAL GRADE GRAPHITE INSULATION





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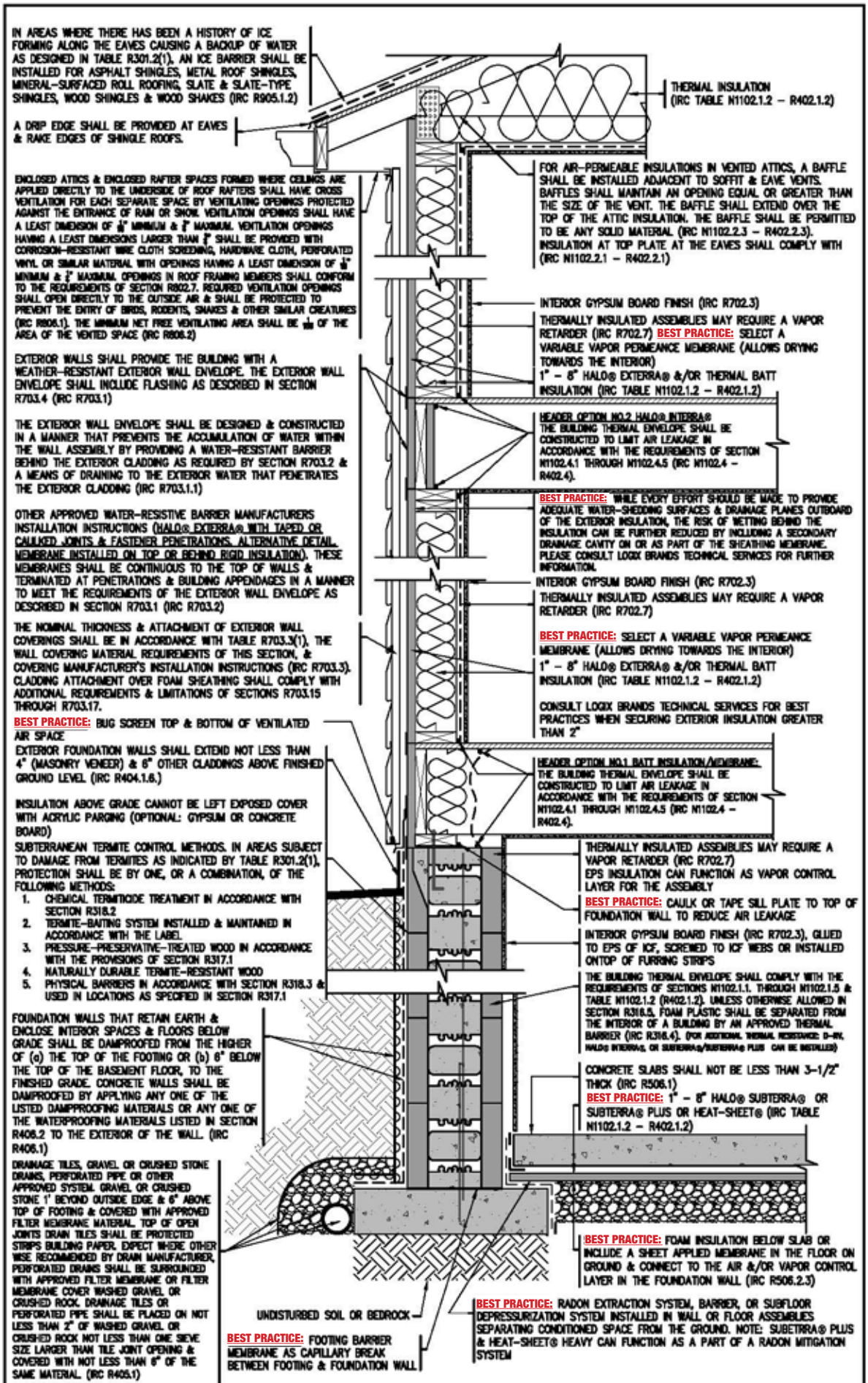

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Drawing:	Date:	Pg:
1-24	MAY/2024	1

Title: HALO® EXTERRA® ABOVE GRADE WALL ASSEMBLY & ICF BELOW GRADE ASSEMBLY

IN AREAS WHERE THERE HAS BEEN A HISTORY OF ICE FORMING ALONG THE EAVES CAUSING A BACKUP OF WATER AS DESIGNED IN TABLE R301.2(1), AN ICE BARRIER SHALL BE INSTALLED FOR ASPHALT SHINGLES, METAL ROOF SHINGLES, MINERAL-SURFACED ROLL ROOFING, SLATE & SLATE-TYPE SHINGLES, WOOD SHINGLES & WOOD SHAKES (IRC R905.1.2)

A DRIP EDGE SHALL BE PROVIDED AT EAVES & RAKE EDGES OF SHINGLE ROOFS.

ENCLOSED ATTICS & ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATION OPENINGS SHALL HAVE A LEAST DIMENSION OF 1/16" MINIMUM AND 1/4" MAXIMUM. VENTILATION OPENINGS HAVING A LEAST DIMENSIONS LARGER THAN 1/4" SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF 1/16" MINIMUM & 1/4" MAXIMUM. OPENINGS IN ROOF FRAMING MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF SECTION R802.7. REQUIRED VENTILATION OPENINGS SHALL OPEN DIRECTLY TO THE OUTSIDE AIR & SHALL BE PROTECTED TO PREVENT THE ENTRY OF BIRDS, RODENTS, SNAKES & OTHER SIMILAR CREATURES (IRC R806.1). THE MINIMUM NET FREE VENTILATING AREA SHALL BE 1/150 OF THE AREA OF THE VENTED SPACE (IRC R806.2)

EXTERIOR WALLS SHALL PROVIDE THE BUILDING WITH A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLUDE FLASHING AS DESCRIBED IN SECTION R703.4 (IRC R703.1)

THE EXTERIOR WALL ENVELOPE SHALL BE DESIGNED & CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMULATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING A WATER-RESISTANT BARRIER BEHIND THE EXTERIOR CLADDING AS REQUIRED BY SECTION R703.2 & A MEANS OF DRAINING TO THE EXTERIOR WATER THAT PENETRATES THE EXTERIOR CLADDING (IRC R703.1.1)

OTHER APPROVED WATER-RESISTIVE BARRIER MANUFACTURERS INSTALLATION INSTRUCTIONS (MECHNICALLY FASTENED, SELF-ADHERED, OR LIQUID APPLIED MEMBRANE (VAPOR PERMEABLE) APPLIED ON TOP OF EXTERIOR SHEATHING)). THESE MEMBRANES SHALL BE CONTINUOUS TO THE TOP OF WALLS & TERMINATED AT PENETRATIONS & BUILDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE AS DESCRIBED IN SECTION R703.1 (IRC R703.2)

THE NOMINAL THICKNESS & ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE IN ACCORDANCE WITH TABLE R703.3(1), THE WALL COVERING MATERIAL REQUIREMENTS OF THIS SECTION, & COVERING MANUFACTURER'S INSTALLATION INSTRUCTIONS (IRC R703.3). CLADDING ATTACHMENT OVER FOAM SHEATHING SHALL COMPLY WITH ADDITIONAL REQUIREMENTS & LIMITATIONS OF SECTIONS R703.15 THROUGH R703.17.

BEST PRACTICE: BUG SCREEN TOP & BOTTOM OF VENTILATED AIR SPACE

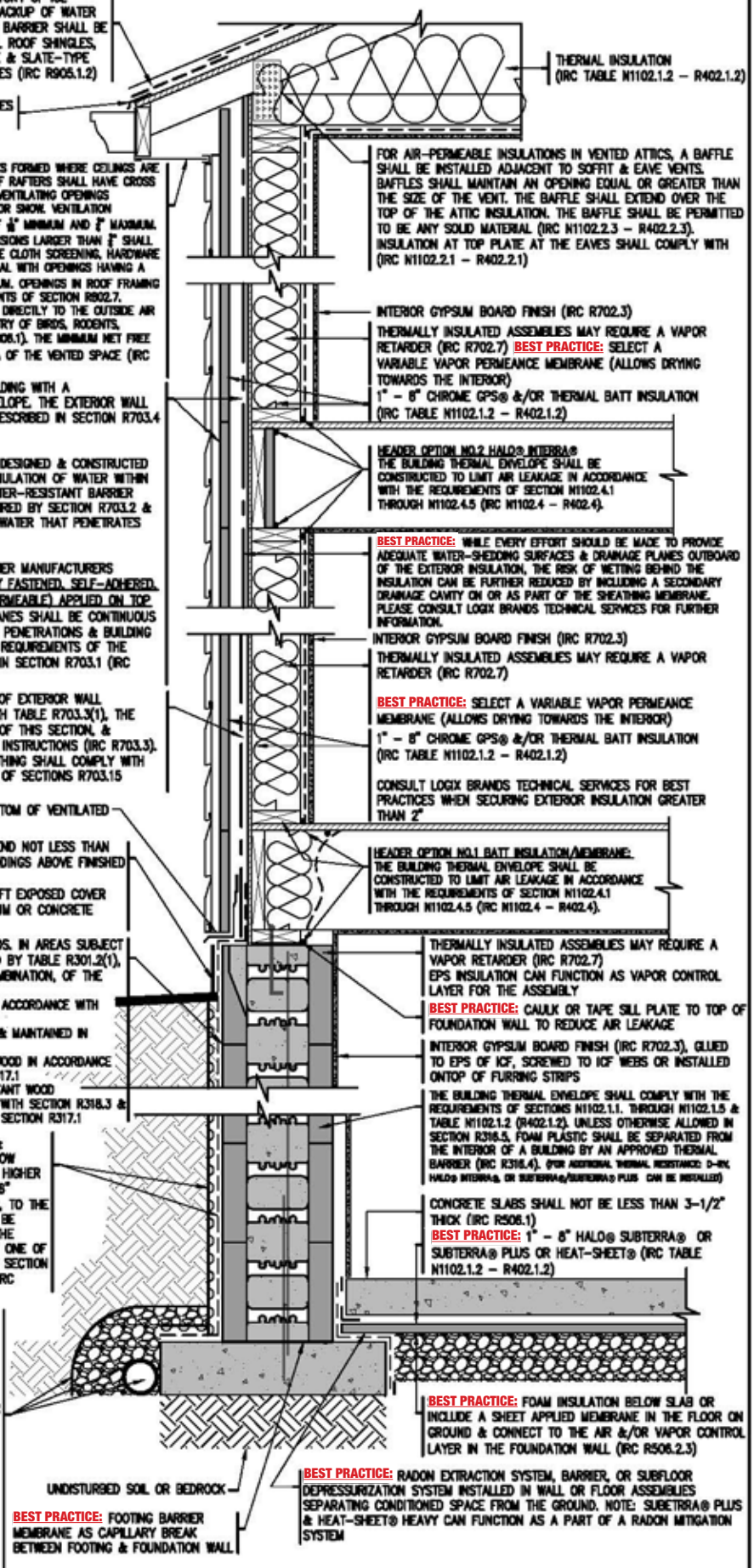
EXTERIOR FOUNDATION WALLS SHALL EXTEND NOT LESS THAN 4" (MASONRY VENEER) & 6" OTHER CLADDINGS ABOVE FINISHED GROUND LEVEL (IRC R404.1.8)
INSULATION ABOVE GRADE CANNOT BE LEFT EXPOSED COVER WITH ACRYLIC PARGING (OPTIONAL: GYPSUM OR CONCRETE BOARD)

SUBTERRANEAN TERMITE CONTROL METHODS. IN AREAS SUBJECT TO DAMAGE FROM TERMITES AS INDICATED BY TABLE R301.2(1), PROTECTION SHALL BE BY ONE, OR A COMBINATION, OF THE FOLLOWING METHODS:

1. CHEMICAL TERMITICIDE TREATMENT IN ACCORDANCE WITH SECTION R318.2
2. TERMITE-BAITING SYSTEM INSTALLED & MAINTAINED IN ACCORDANCE WITH THE LABEL
3. PRESSURE-PRESERVATIVE-TREATED WOOD IN ACCORDANCE WITH THE PROVISIONS OF SECTION R317.1
4. NATURALLY DURABLE TERMITE-RESISTANT WOOD
5. PHYSICAL BARRIERS IN ACCORDANCE WITH SECTION R318.3 & USED IN LOCATIONS AS SPECIFIED IN SECTION R317.1

FOUNDATION WALLS THAT RETAIN EARTH & ENCLOSE INTERIOR SPACES & FLOORS BELOW GRADE SHALL BE DAMPROOFED FROM THE HIGHER OF (a) THE TOP OF THE FOOTING OR (b) 6" BELOW THE TOP OF THE BASEMENT FLOOR, TO THE FINISHED GRADE. CONCRETE WALLS SHALL BE DAMPROOFED BY APPLYING ANY ONE OF THE LISTED DAMPPROOFING MATERIALS OR ANY ONE OF THE WATERPROOFING MATERIALS LISTED IN SECTION R406.2 TO THE EXTERIOR OF THE WALL. (IRC R406.1)

DRAINAGE TILES, GRAVEL OR CRUSHED STONE DRAINS, PERFORATED PIPE OR OTHER APPROVED SYSTEM. GRAVEL OR CRUSHED STONE 1' BEYOND OUTSIDE EDGE & 6" ABOVE TOP OF FOOTING & COVERED WITH APPROVED FILTER MEMBRANE MATERIAL. TOP OF OPEN JOINTS DRAIN TILES SHALL BE PROTECTED STRIPS BUILDING PAPER, EXPECT WHERE OTHER WISE RECOMMENDED BY DRAIN MANUFACTURER. PERFORATED DRAINS SHALL BE SURROUNDED WITH APPROVED FILTER MEMBRANE OR FILTER MEMBRANE COVER WASHED GRAVEL OR CRUSHED ROCK. DRAINAGE TILES OR PERFORATED PIPE SHALL BE PLACED ON NOT LESS THAN 2" OF WASHED GRAVEL OR CRUSHED ROCK NOT LESS THAN ONE SIEVE SIZE LARGER THAN TILE JOINT OPENING & COVERED WITH NOT LESS THAN 6" OF THE SAME MATERIAL. (IRC R405.1)



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Drawing:	Date:	Pg:
2-24	MAY/2024	2

Title: CHROME GPS® ABOVE GRADE WALL ASSEMBLY & ICF BELOW GRADE ASSEMBLY

IN AREAS WHERE THERE HAS BEEN A HISTORY OF ICE FORMING ALONG THE EAVES CAUSING A BACKUP OF WATER AS DESIGNED IN TABLE R301.2(1), AN ICE BARRIER SHALL BE INSTALLED FOR ASPHALT SHINGLES, METAL ROOF SHINGLES, MINERAL-SURFACED ROLL ROOFING, SLATE & SLATE-TYPE SHINGLES, WOOD SHINGLES & WOOD SHAKES (IRC R905.1.2)

A DRIP EDGE SHALL BE PROVIDED AT EAVES & RAKE EDGES OF SHINGLE ROOFS.

BEST PRACTICE: STRUCTURAL FOAM BOARD INSULATION ON TOP OF ICF WALL TO MINIMIZE THERMAL BRIDGE

ENCLOSED ATTICS & ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATION OPENINGS SHALL HAVE A LEAST DIMENSION OF 1/16" MINIMUM AND 1/4" MAXIMUM. VENTILATION OPENINGS HAVING A LEAST DIMENSIONS LARGER THAN 1/4" SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF 1/16" MINIMUM & 1/4" MAXIMUM. OPENINGS IN ROOF FRAMING MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF SECTION R802.7. REQUIRED VENTILATION OPENINGS SHALL OPEN DIRECTLY TO THE OUTSIDE AIR & SHALL BE PROTECTED TO PREVENT THE ENTRY OF BIRDS, RODENTS, SNAKES & OTHER SIMILAR CREATURES (IRC R806.1). THE MINIMUM NET FREE VENTILATING AREA SHALL BE 1/150 OF THE AREA OF THE VENTED SPACE (IRC R806.2)

EXTERIOR WALLS SHALL PROVIDE THE BUILDING WITH A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLUDE FLASHING AS DESCRIBED IN SECTION R703.4 (IRC R703.1.)

THE EXTERIOR WALL ENVELOPE SHALL BE DESIGNED & CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMULATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING A WATER-RESISTANT BARRIER BEHIND THE EXTERIOR CLADDING AS REQUIRED BY SECTION R703.2 & A MEANS OF DRAINING TO THE EXTERIOR WATER THAT PENETRATES THE EXTERIOR CLADDING (IRC R703.1.1)

OTHER APPROVED WATER-RESISTIVE BARRIER MANUFACTURERS INSTALLATION INSTRUCTIONS (FRONT FACE OF ICF FUNCTIONS AS WATER CONTROL LAYER. ALTERNATIVE DETAIL – MECH. FASTENED, PEEL & STICK, OR LIQUID APPLIED MEMBRANE APPLIED TO FRONT FACE OF ICF BLOCK). THESE MEMBRANES SHALL BE CONTINUOUS TO THE TOP OF WALLS & TERMINATED AT PENETRATIONS & BUILDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE AS DESCRIBED IN SECTION R703.1 (IRC R703.2)

FLASHING SEALED TO FRONT FACE OF ICF W/TAPE OR CAULKING

BEST PRACTICE: BUG SCREEN TOP & BOTTOM OF VENTILATED AIR SPACE

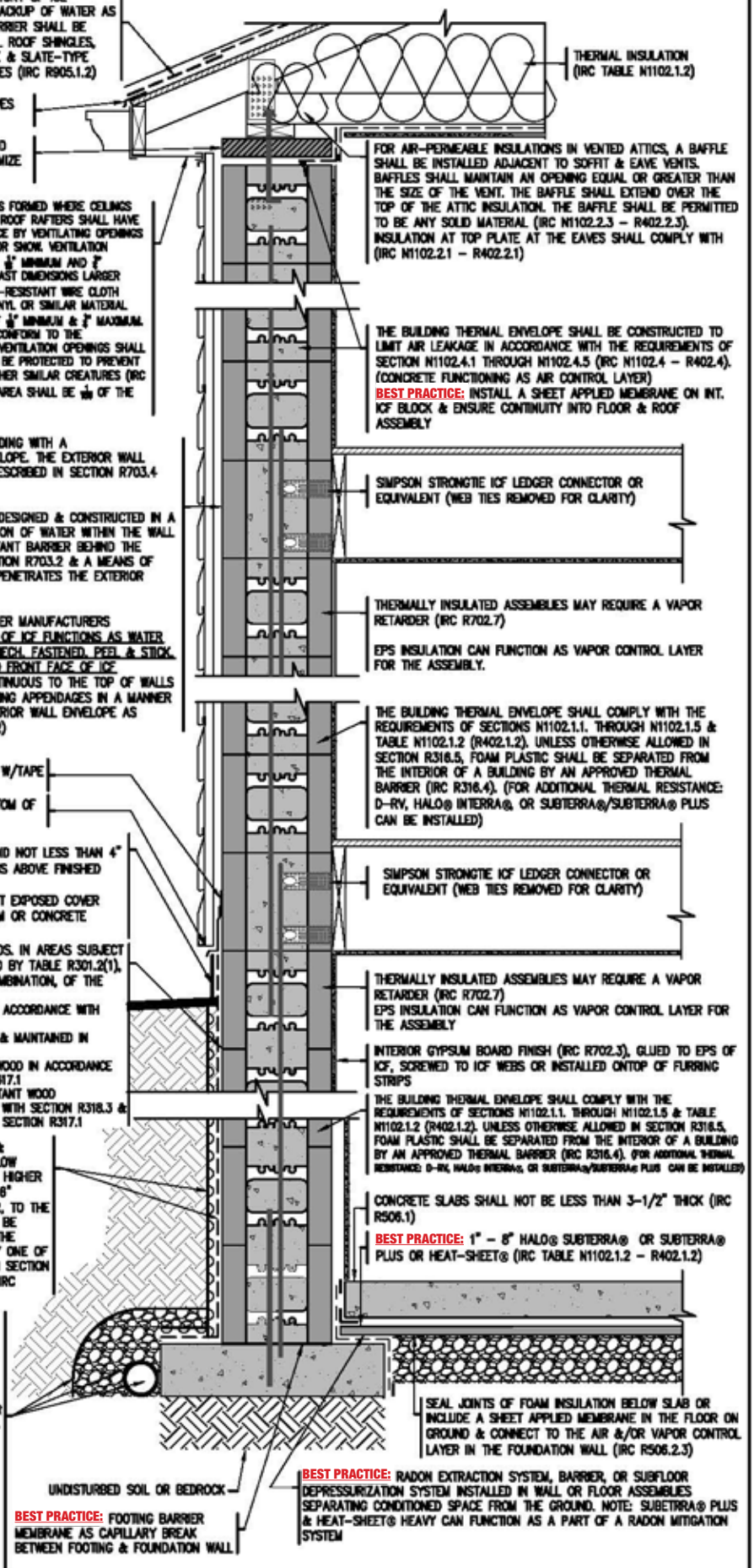
EXTERIOR FOUNDATION WALLS SHALL EXTEND NOT LESS THAN 4" (MASONRY VENEER) & 6" OTHER CLADDINGS ABOVE FINISHED GROUND LEVEL (IRC R404.1.8.)
INSULATION ABOVE GRADE CANNOT BE LEFT EXPOSED COVER WITH ACRYLIC PARGING (OPTIONAL: GYPSUM OR CONCRETE BOARD)

SUBTERRANEAN TERMITE CONTROL METHODS. IN AREAS SUBJECT TO DAMAGE FROM TERMITES AS INDICATED BY TABLE R301.2(1), PROTECTION SHALL BE BY ONE, OR A COMBINATION, OF THE FOLLOWING METHODS:

1. CHEMICAL TERMITICIDE TREATMENT IN ACCORDANCE WITH SECTION R318.2
2. TERMITE-BAITING SYSTEM INSTALLED & MAINTAINED IN ACCORDANCE WITH THE LABEL
3. PRESSURE-PRESERVATIVE-TREATED WOOD IN ACCORDANCE WITH THE PROVISIONS OF SECTION R317.1
4. NATURALLY DURABLE TERMITE-RESISTANT WOOD
5. PHYSICAL BARRIERS IN ACCORDANCE WITH SECTION R318.3 & USED IN LOCATIONS AS SPECIFIED IN SECTION R317.1

FOUNDATION WALLS THAT RETAIN EARTH & ENCLOSE INTERIOR SPACES & FLOORS BELOW GRADE SHALL BE DAMPROOFED FROM THE HIGHER OF (a) THE TOP OF THE FOOTING OR (b) 6" BELOW THE TOP OF THE BASEMENT FLOOR, TO THE FINISHED GRADE. CONCRETE WALLS SHALL BE DAMPROOFED BY APPLYING ANY ONE OF THE LISTED DAMPPROOFING MATERIALS OR ANY ONE OF THE WATERPROOFING MATERIALS LISTED IN SECTION R406.2 TO THE EXTERIOR OF THE WALL. (IRC R406.1)

DRAINAGE TILES, GRAVEL OR CRUSHED STONE DRAINS, PERFORATED PIPE OR OTHER APPROVED SYSTEM. GRAVEL OR CRUSHED STONE 1' BEYOND OUTSIDE EDGE & 6" ABOVE TOP OF FOOTING & COVERED WITH APPROVED FILTER MEMBRANE MATERIAL. TOP OF OPEN JOINTS DRAIN TILES SHALL BE PROTECTED STRIPS BUILDING PAPER, EXPECT WHERE OTHER WISE RECOMMENDED BY DRAIN MANUFACTURER, PERFORATED DRAINS SHALL BE SURROUNDED WITH APPROVED FILTER MEMBRANE OR FILTER MEMBRANE COVER WASHED GRAVEL OR CRUSHED ROCK. DRAINAGE TILES OR PERFORATED PIPE SHALL BE PLACED ON NOT LESS THAN 2" OF WASHED GRAVEL OR CRUSHED ROCK NOT LESS THAN ONE SIEVE SIZE LARGER THAN TILE JOINT OPENING & COVERED WITH NOT LESS THAN 6" OF THE SAME MATERIAL. (IRC R405.1)



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Drawing:	Date:	Pg:
3-24	MAY/2024	3

Title: ICF ABOVE GRADE WALL ASSEMBLY & ICF BELOW GRADE ASSEMBLY

IN AREAS WHERE THERE HAS BEEN A HISTORY OF ICE FORMING ALONG THE EAVES CAUSING A BACKUP OF WATER AS DESIGNED IN TABLE R301.2(1), AN ICE BARRIER SHALL BE INSTALLED FOR ASPHALT SHINGLES, METAL ROOF SHINGLES, MINERAL-SURFACED ROLL ROOFING, SLATE & SLATE-TYPE SHINGLES, WOOD SHINGLES & WOOD SHAKES (IRC R905.1.2)

A DRIP EDGE SHALL BE PROVIDED AT EAVES & RAKE EDGES OF SHINGLE ROOFS.

ENCLOSED ATTICS & ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATION OPENINGS SHALL HAVE A LEAST DIMENSION OF 1/16" MINIMUM AND 1/4" MAXIMUM. VENTILATION OPENINGS HAVING A LEAST DIMENSIONS LARGER THAN 1/4" SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF 1/16" MINIMUM & 1/4" MAXIMUM. OPENINGS IN ROOF FRAMING MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF SECTION R802.7. REQUIRED VENTILATION OPENINGS SHALL OPEN DIRECTLY TO THE OUTSIDE AIR & SHALL BE PROTECTED TO PREVENT THE ENTRY OF BIRDS, RODENTS, SNAKES & OTHER SIMILAR CREATURES (IRC R806.1). THE MINIMUM NET FREE VENTILATING AREA SHALL BE 1/150 OF THE AREA OF THE VENTED SPACE (IRC R806.2)

EXTERIOR WALLS SHALL PROVIDE THE BUILDING WITH A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLUDE FLASHING AS DESCRIBED IN SECTION R703.4 (IRC R703.1)

THE EXTERIOR WALL ENVELOPE SHALL BE DESIGNED & CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMULATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING A WATER-RESISTANT BARRIER BEHIND THE EXTERIOR CLADDING AS REQUIRED BY SECTION R703.2 & A MEANS OF DRAINING TO THE EXTERIOR WATER THAT PENETRATES THE EXTERIOR CLADDING (IRC R703.1.1)

OTHER APPROVED WATER-RESISTIVE BARRIER MANUFACTURERS INSTALLATION INSTRUCTIONS (HALO® EXTERRA® WITH TAPED OR CAULKED JOINTS & FASTENER PENETRATIONS. ALTERNATIVE DETAIL. MEMBRANE INSTALLED ON TOP OR BEHIND RIGID INSULATION). THESE MEMBRANES SHALL BE CONTINUOUS TO THE TOP OF WALLS & TERMINATED AT PENETRATIONS & BUILDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE AS DESCRIBED IN SECTION R703.1 (IRC R703.2)

THE NOMINAL THICKNESS & ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE IN ACCORDANCE WITH TABLE R703.3(1), THE WALL COVERING MATERIAL REQUIREMENTS OF THIS SECTION, & COVERING MANUFACTURER'S INSTALLATION INSTRUCTIONS (IRC R703.3). CLADDING ATTACHMENT OVER FOAM SHEATHING SHALL COMPLY WITH ADDITIONAL REQUIREMENTS & LIMITATIONS OF SECTIONS R703.15 THROUGH R703.17.

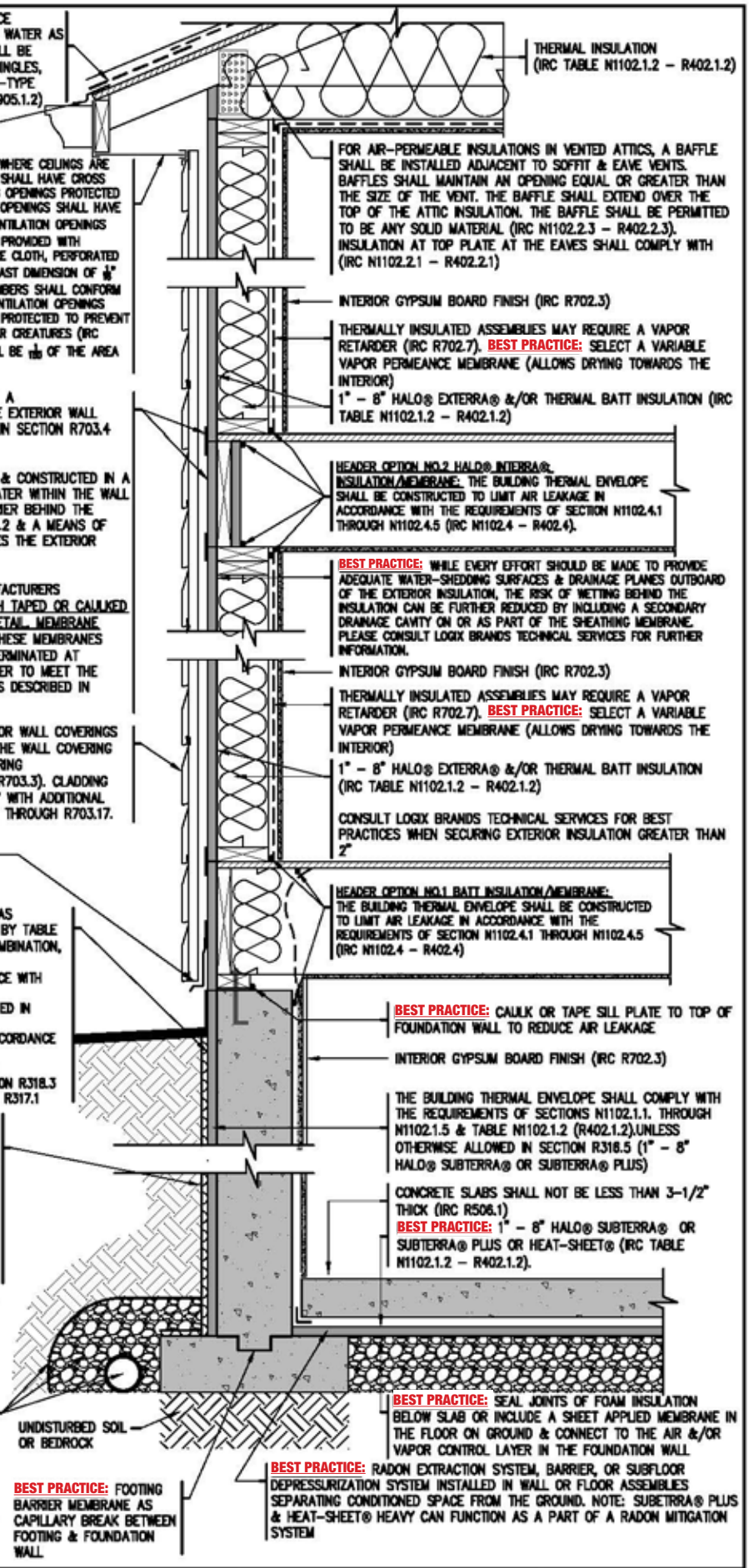
BEST PRACTICE: BUG SCREEN TOP & BOTTOM OF VENTILATED AIR SPACE

SUBTERRANEAN TERMITE CONTROL METHODS. IN AREAS SUBJECT TO DAMAGE FROM TERMITES AS INDICATED BY TABLE R301.2(1), PROTECTION SHALL BE BY ONE, OR A COMBINATION, OF THE FOLLOWING METHODS:

1. CHEMICAL TERMITICIDE TREATMENT IN ACCORDANCE WITH SECTION R318.2
2. TERMITE-BAITING SYSTEM INSTALLED & MAINTAINED IN ACCORDANCE WITH THE LABEL
3. PRESSURE-PRESERVATIVE-TREATED WOOD IN ACCORDANCE WITH THE PROVISIONS OF SECTION R317.1
4. NATURALLY DURABLE TERMITE-RESISTANT WOOD
5. PHYSICAL BARRIERS IN ACCORDANCE WITH SECTION R318.3 & USED IN LOCATIONS AS SPECIFIED IN SECTION R317.1

FOUNDATION WALLS THAT RETAIN EARTH & ENCLOSE INTERIOR SPACES & FLOORS BELOW GRADE SHALL BE DAMPROOFED FROM THE HIGHER OF (a) THE TOP OF THE FOOTING OR (b) 6" BELOW THE TOP OF THE BASEMENT FLOOR, TO THE FINISHED GRADE. CONCRETE WALLS SHALL BE DAMPROOFED BY APPLYING ANY ONE OF THE LISTED DAMPPROOFING MATERIALS OR ANY ONE OF THE WATERPROOFING MATERIALS LISTED IN SECTION R406.2 TO THE EXTERIOR OF THE WALL. (IRC R406.1)

DRAINAGE TILES, GRAVEL OR CRUSHED STONE DRAINS, PERFORATED PIPE OR OTHER APPROVED SYSTEM. GRAVEL OR CRUSHED STONE 1' BEYOND OUTSIDE EDGE & 6" ABOVE TOP OF FOOTING & COVERED WITH APPROVED FILTER MEMBRANE MATERIAL. TOP OF OPEN JOINTS DRAIN TILES SHALL BE PROTECTED STRIPS BUILDING PAPER. EXPECT WHERE OTHER WISE RECOMMENDED BY DRAIN MANUFACTURER, PERFORATED DRAINS SHALL BE SURROUNDED WITH APPROVED FILTER MEMBRANE OR FILTER MEMBRANE COVER WASHED GRAVEL OR CRUSHED ROCK. DRAINAGE TILES OR PERFORATED PIPE SHALL BE PLACED ON NOT LESS THAN 2" OF WASHED GRAVEL OR CRUSHED ROCK NOT LESS THAN ONE SIEVE SIZE LARGER THAN TILE JOINT OPENING & COVERED WITH NOT LESS THAN 6" OF THE SAME MATERIAL. (IRC R405.1)



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Drawing:	Date:	Pg:
4-24	MAY/2024	4

Title: HALO® EXTERRA® ABOVE GRADE WALL ASSEMBLY & HALO® SUBTERRA® OR SUBTERRA® PLUS BELOW GRADE ASSEMBLY

IN AREAS WHERE THERE HAS BEEN A HISTORY OF ICE FORMING ALONG THE EAVES CAUSING A BACKUP OF WATER AS DESIGNED IN TABLE R301.2(1), AN ICE BARRIER SHALL BE INSTALLED FOR ASPHALT SHINGLES, METAL ROOF SHINGLES, MINERAL-SURFACED ROLL ROOFING, SLATE & SLATE-TYPE SHINGLES, WOOD SHINGLES & WOOD SHAKES (IRC R905.1.2)

A DRIP EDGE SHALL BE PROVIDED AT EAVES & RAKE EDGES OF SHINGLE ROOFS.

ENCLOSED ATTICS & ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATION OPENINGS SHALL HAVE A LEAST DIMENSION OF 1/16" MINIMUM AND 1/4" MAXIMUM. VENTILATION OPENINGS HAVING A LEAST DIMENSIONS LARGER THAN 1/4" SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF 1/16" MINIMUM & 1/4" MAXIMUM. OPENINGS IN ROOF FRAMING MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF SECTION R802.7. REQUIRED VENTILATION OPENINGS SHALL OPEN DIRECTLY TO THE OUTSIDE AIR & SHALL BE PROTECTED TO PREVENT THE ENTRY OF BIRDS, RODENTS, SNAKES & OTHER SIMILAR CREATURES (IRC R806.1). THE MINIMUM NET FREE VENTILATING AREA SHALL BE 1/150 OF THE AREA OF THE VENTED SPACE (IRC R806.2)

EXTERIOR WALLS SHALL PROVIDE THE BUILDING WITH A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLUDE FLASHING AS DESCRIBED IN SECTION R703.4 (IRC R703.1)

THE EXTERIOR WALL ENVELOPE SHALL BE DESIGNED & CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMULATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING A WATER-RESISTANT BARRIER BEHIND THE EXTERIOR CLADDING AS REQUIRED BY SECTION R703.2 & A MEANS OF DRAINING TO THE EXTERIOR WATER THAT PENETRATES THE EXTERIOR CLADDING (IRC R703.1.1)

OTHER APPROVED WATER-RESISTIVE BARRIER MANUFACTURERS INSTALLATION INSTRUCTIONS (MECHANICALLY FASTENED, SELF-ADHERED, OR LIQUID APPLIED MEMBRANE (VAPOR PERMEABLE) APPLIED ON TOP OF EXTERIOR SHEATHING). THESE MEMBRANES SHALL BE CONTINUOUS TO THE TOP OF WALLS & TERMINATED AT PENETRATIONS & BUILDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE AS DESCRIBED IN SECTION R703.1 (IRC R703.2)

THE NOMINAL THICKNESS & ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE IN ACCORDANCE WITH TABLE R703.3(1), THE WALL COVERING MATERIAL REQUIREMENTS OF THIS SECTION, & COVERING MANUFACTURER'S INSTALLATION INSTRUCTIONS (IRC R703.3). CLADDING ATTACHMENT OVER FOAM SHEATHING SHALL COMPLY WITH ADDITIONAL REQUIREMENTS & LIMITATIONS OF SECTIONS R703.15 THROUGH R703.17.

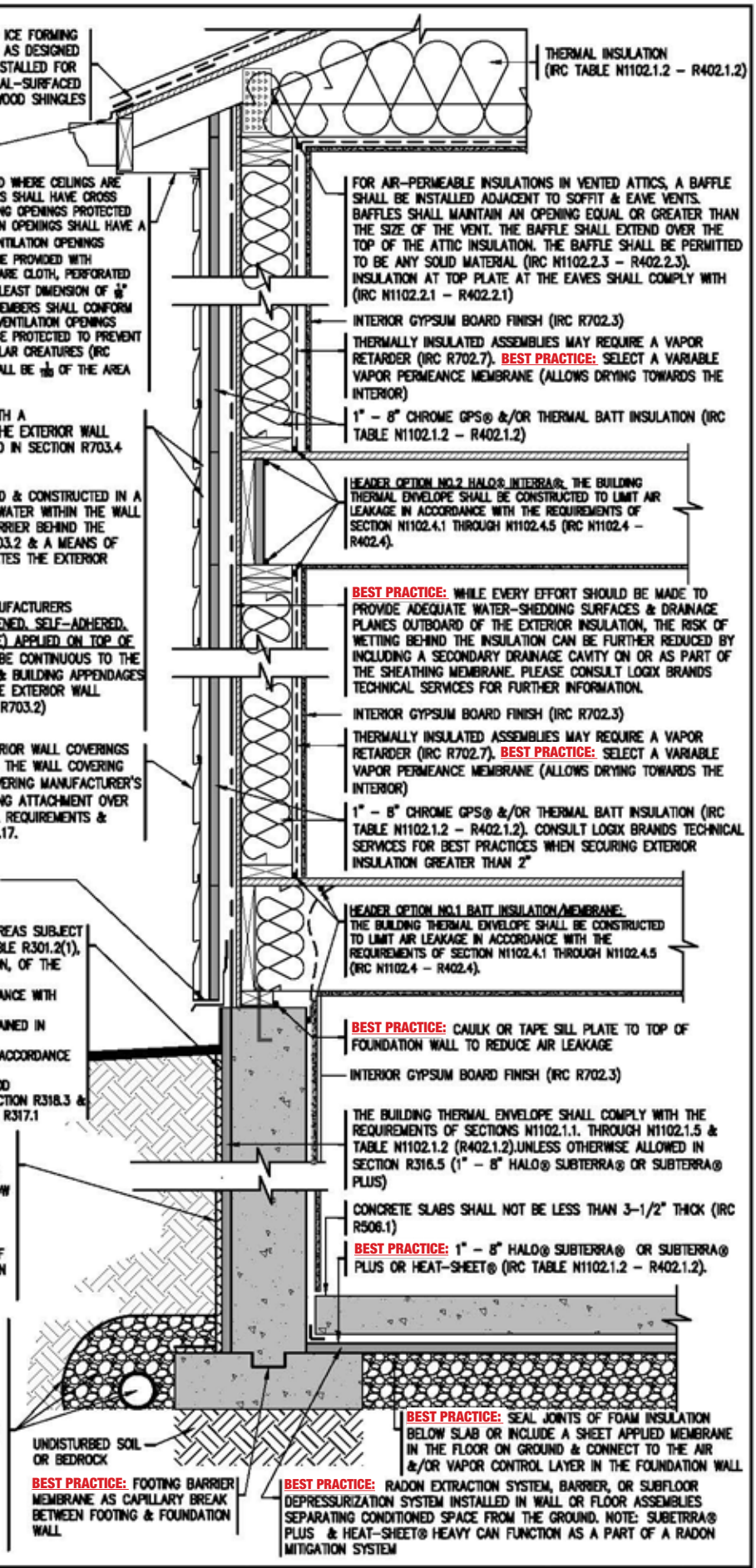
BEST PRACTICE: BUG SCREEN TOP & BOTTOM OF VENTILATED AIR SPACE

SUBTERRANEAN TERMITE CONTROL METHODS. IN AREAS SUBJECT TO DAMAGE FROM TERMITES AS INDICATED BY TABLE R301.2(1), PROTECTION SHALL BE BY ONE, OR A COMBINATION, OF THE FOLLOWING METHODS:

1. CHEMICAL TERMITICIDE TREATMENT IN ACCORDANCE WITH SECTION R318.2
2. TERMITE-BAITING SYSTEM INSTALLED & MAINTAINED IN ACCORDANCE WITH THE LABEL
3. PRESSURE-PRESERVATIVE-TREATED WOOD IN ACCORDANCE WITH THE PROVISIONS OF SECTION R317.1
4. NATURALLY DURABLE TERMITE-RESISTANT WOOD
5. PHYSICAL BARRIERS IN ACCORDANCE WITH SECTION R318.3 & USED IN LOCATIONS AS SPECIFIED IN SECTION R317.1

FOUNDATION WALLS THAT RETAIN EARTH & ENCLOSE INTERIOR SPACES & FLOORS BELOW GRADE SHALL BE DAMPROOFED FROM THE HIGHER OF (a) THE TOP OF THE FOOTING OR (b) 6" BELOW THE TOP OF THE BASEMENT FLOOR, TO THE FINISHED GRADE. CONCRETE WALLS SHALL BE DAMPROOFED BY APPLYING ANY ONE OF THE LISTED DAMPPROOFING MATERIALS OR ANY ONE OF THE WATERPROOFING MATERIALS LISTED IN SECTION R406.2 TO THE EXTERIOR OF THE WALL. (IRC R406.1)

DRAINAGE TILES, GRAVEL OR CRUSHED STONE DRAINS, PERFORATED PIPE OR OTHER APPROVED SYSTEM. GRAVEL OR CRUSHED STONE 1' BEYOND OUTSIDE EDGE & 6" ABOVE TOP OF FOOTING & COVERED WITH APPROVED FILTER MEMBRANE MATERIAL. TOP OF OPEN JOINTS DRAIN TILES SHALL BE PROTECTED STRIPS BUILDING PAPER, EXPECT WHERE OTHER WISE RECOMMENDED BY DRAIN MANUFACTURER, PERFORATED DRAINS SHALL BE SURROUNDED WITH APPROVED FILTER MEMBRANE OR FILTER MEMBRANE COVER WASHED GRAVEL OR CRUSHED ROCK. DRAINAGE TILES OR PERFORATED PIPE SHALL BE PLACED ON NOT LESS THAN 2" OF WASHED GRAVEL OR CRUSHED ROCK NOT LESS THAN ONE SIEVE SIZE LARGER THAN TILE JOINT OPENING & COVERED WITH NOT LESS THAN 6" OF THE SAME MATERIAL. (IRC R405.1)



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Title: CHROME GPS® ABOVE GRADE WALL ASSEMBLY & HALO® SUBTERRA® OR SUBTERRA® PLUS BELOW GRADE ASSEMBLY

IN AREAS WHERE THERE HAS BEEN A HISTORY OF ICE FORMING ALONG THE EAVES CAUSING A BACKUP OF WATER AS DESIGNED IN TABLE R301.2(1), AN ICE BARRIER SHALL BE INSTALLED FOR ASPHALT SHINGLES, METAL ROOF SHINGLES, MINERAL-SURFACED ROLL ROOFING, SLATE & SLATE-TYPE SHINGLES, WOOD SHINGLES & WOOD SHAKES (IRC R905.1.2)

A DRIP EDGE SHALL BE PROVIDED AT EAVES & RAKE EDGES OF SHINGLE ROOFS.

ENCLOSED ATTICS & ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATION OPENINGS SHALL HAVE A LEAST DIMENSION OF 1/16" MINIMUM AND 1/4" MAXIMUM. VENTILATION OPENINGS HAVING A LEAST DIMENSIONS LARGER THAN 1/4" SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF 1/16" MINIMUM & 1/4" MAXIMUM. OPENINGS IN ROOF FRAMING MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF SECTION R802.7. REQUIRED VENTILATION OPENINGS SHALL OPEN DIRECTLY TO THE OUTSIDE AIR & SHALL BE PROTECTED TO PREVENT THE ENTRY OF BIRDS, RODENTS, SNAKES & OTHER SIMILAR CREATURES (IRC R806.1). THE MINIMUM NET FREE VENTILATING AREA SHALL BE 1/150 OF THE AREA OF THE VENTED SPACE (IRC R806.2)

EXTERIOR WALLS SHALL PROVIDE THE BUILDING WITH A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLUDE FLASHING AS DESCRIBED IN SECTION R703.4 (IRC R703.1)

THE EXTERIOR WALL ENVELOPE SHALL BE DESIGNED & CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMULATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING A WATER-RESISTANT BARRIER BEHIND THE EXTERIOR CLADDING AS REQUIRED BY SECTION R703.2 & A MEANS OF DRAINING TO THE EXTERIOR WATER THAT PENETRATES THE EXTERIOR CLADDING (IRC R703.1.1)

OTHER APPROVED WATER-RESISTIVE BARRIER MANUFACTURERS INSTALLATION INSTRUCTIONS (HALO® EXTERRA® WITH TAPED OR CAULKED JOINTS & FASTENER PENETRATIONS. ALTERNATIVE DETAIL. MEMBRANE INSTALLED ON TOP OR BEHIND RIGID INSULATION). THESE MEMBRANES SHALL BE CONTINUOUS TO THE TOP OF WALLS & TERMINATED AT PENETRATIONS & BUILDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE AS DESCRIBED IN SECTION R703.1 (IRC R703.2)

THE NOMINAL THICKNESS & ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE IN ACCORDANCE WITH TABLE R703.3(1), THE WALL COVERING MATERIAL REQUIREMENTS OF THIS SECTION, & COVERING MANUFACTURER'S INSTALLATION INSTRUCTIONS (IRC R703.3). CLADDING ATTACHMENT OVER FOAM SHEATHING SHALL COMPLY WITH ADDITIONAL REQUIREMENTS & LIMITATIONS OF SECTIONS R703.15 THROUGH R703.17

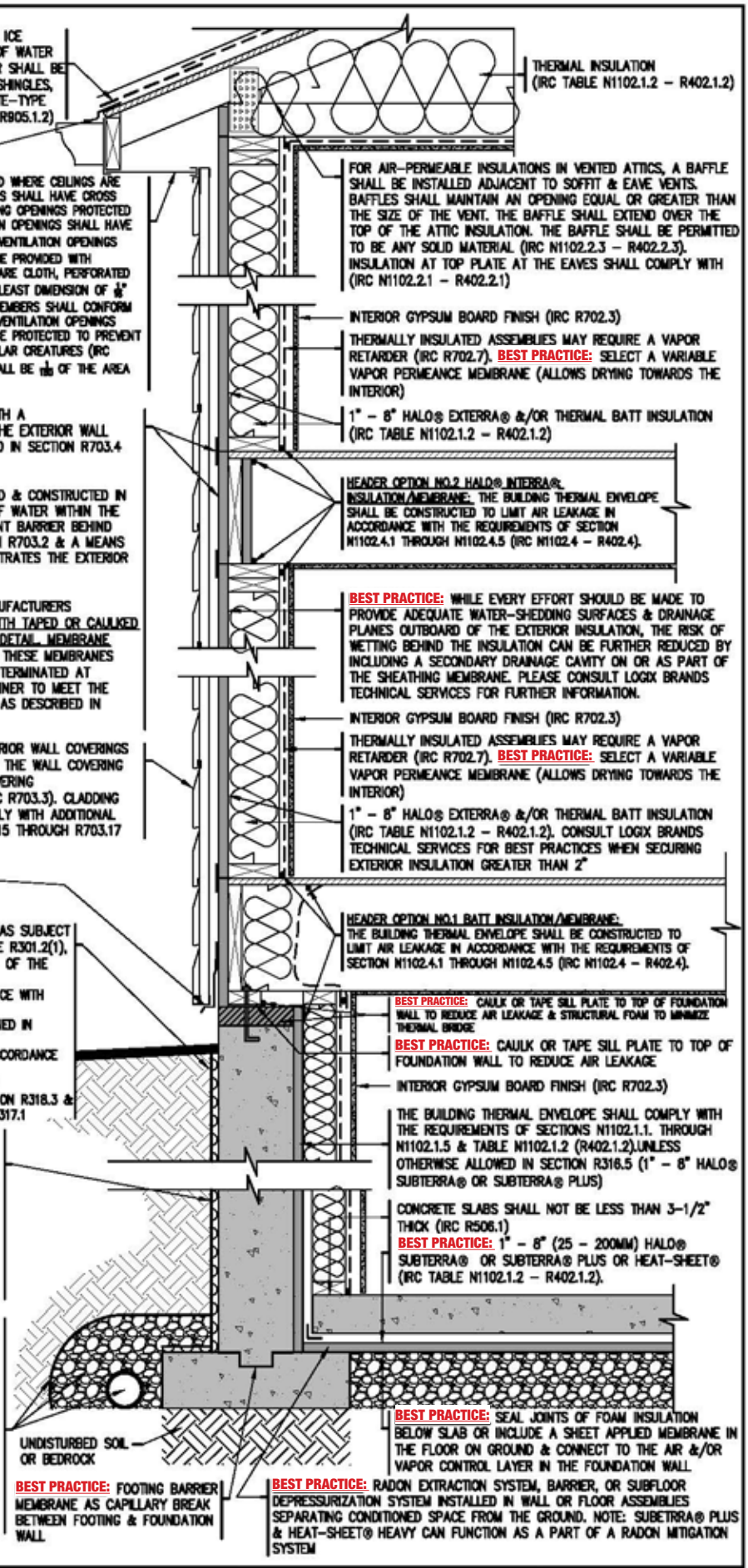
BEST PRACTICE: BUG SCREEN TOP & BOTTOM OF VENTILATED AIR SPACE

SUBTERRANEAN TERMITE CONTROL METHODS. IN AREAS SUBJECT TO DAMAGE FROM TERMITES AS INDICATED BY TABLE R301.2(1), PROTECTION SHALL BE BY ONE, OR A COMBINATION, OF THE FOLLOWING METHODS:

1. CHEMICAL TERMITICIDE TREATMENT IN ACCORDANCE WITH SECTION R318.2
2. TERMITE-BAITING SYSTEM INSTALLED & MAINTAINED IN ACCORDANCE WITH THE LABEL
3. PRESSURE-PRESERVATIVE-TREATED WOOD IN ACCORDANCE WITH THE PROVISIONS OF SECTION R317.1
4. NATURALLY DURABLE TERMITE-RESISTANT WOOD
5. PHYSICAL BARRIERS IN ACCORDANCE WITH SECTION R318.3 & USED IN LOCATIONS AS SPECIFIED IN SECTION R317.1

FOUNDATION WALLS THAT RETAIN EARTH & ENCLOSE INTERIOR SPACES & FLOORS BELOW GRADE SHALL BE DAMPROOFED FROM THE HIGHER OF (a) THE TOP OF THE FOOTING OR (b) 6" BELOW THE TOP OF THE BASEMENT FLOOR, TO THE FINISHED GRADE. CONCRETE WALLS SHALL BE DAMPROOFED BY APPLYING ANY ONE OF THE LISTED DAMPPROOFING MATERIALS OR ANY ONE OF THE WATERPROOFING MATERIALS LISTED IN SECTION R406.2 TO THE EXTERIOR OF THE WALL. (IRC R406.1)

DRAINAGE TILES, GRAVEL OR CRUSHED STONE DRAINS, PERFORATED PIPE OR OTHER APPROVED SYSTEM. GRAVEL OR CRUSHED STONE 1' BEYOND OUTSIDE EDGE & 6" ABOVE TOP OF FOOTING & COVERED WITH APPROVED FILTER MEMBRANE MATERIAL. TOP OF OPEN JOINTS DRAIN TILES SHALL BE PROTECTED STRIPS BUILDING PAPER. EXPECT WHERE OTHER WISE RECOMMENDED BY DRAIN MANUFACTURER, PERFORATED DRAINS SHALL BE SURROUNDED WITH APPROVED FILTER MEMBRANE OR FILTER MEMBRANE COVER WASHED GRAVEL OR CRUSHED ROCK. DRAINAGE TILES OR PERFORATED PIPE SHALL BE PLACED ON NOT LESS THAN 2" OF WASHED GRAVEL OR CRUSHED ROCK NOT LESS THAN ONE SIEVE SIZE LARGER THAN TILE JOINT OPENING & COVERED WITH NOT LESS THAN 6" OF THE SAME MATERIAL. (IRC R405.1)



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Title: HALO® EXTERRA® ABOVE GRADE WALL ASSEMBLY & HALO® INTERRA® & HALO® SUBTERRA® OR SUBTERRA® PLUS BELOW GRADE ASSEMBLY

IN AREAS WHERE THERE HAS BEEN A HISTORY OF ICE FORMING ALONG THE EAVES CAUSING A BACKUP OF WATER AS DESIGNED IN TABLE R301.2(1), AN ICE BARRIER SHALL BE INSTALLED FOR ASPHALT SHINGLES, METAL ROOF SHINGLES, MINERAL-SURFACED ROLL ROOFING, SLATE & SLATE-TYPE SHINGLES, WOOD SHINGLES & WOOD SHAKES (IRC R905.1.2)

A DRIP EDGE SHALL BE PROVIDED AT EAVES & RAKE EDGES OF SHINGLE ROOFS.

ENCLOSED ATTICS & ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS SHALL HAVE CROSS VENTILATION FOR EACH SEPARATE SPACE BY VENTILATING OPENINGS PROTECTED AGAINST THE ENTRANCE OF RAIN OR SNOW. VENTILATION OPENINGS SHALL HAVE A LEAST DIMENSION OF 1/16" MINIMUM AND 1/4" MAXIMUM. VENTILATION OPENINGS HAVING A LEAST DIMENSIONS LARGER THAN 1/4" SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF 1/16" MINIMUM & 1/4" MAXIMUM. OPENINGS IN ROOF FRAMING MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF SECTION R802.7. REQUIRED VENTILATION OPENINGS SHALL OPEN DIRECTLY TO THE OUTSIDE AIR & SHALL BE PROTECTED TO PREVENT THE ENTRY OF BIRDS, RODENTS, SNAKES & OTHER SIMILAR CREATURES (IRC R806.1). THE MINIMUM NET FREE VENTILATING AREA SHALL BE 1/150 OF THE AREA OF THE VENTED SPACE (IRC R806.2)

EXTERIOR WALLS SHALL PROVIDE THE BUILDING WITH A WEATHER-RESISTANT EXTERIOR WALL ENVELOPE. THE EXTERIOR WALL ENVELOPE SHALL INCLUDE FLASHING AS DESCRIBED IN SECTION R703.4 (IRC R703.1)

THE EXTERIOR WALL ENVELOPE SHALL BE DESIGNED & CONSTRUCTED IN A MANNER THAT PREVENTS THE ACCUMULATION OF WATER WITHIN THE WALL ASSEMBLY BY PROVIDING A WATER-RESISTANT BARRIER BEHIND THE EXTERIOR CLADDING AS REQUIRED BY SECTION R703.2 & A MEANS OF DRAINING TO THE EXTERIOR WATER THAT PENETRATES THE EXTERIOR CLADDING (IRC R703.1.1)

OTHER APPROVED WATER-RESISTIVE BARRIER MANUFACTURERS INSTALLATION INSTRUCTIONS (MECHANICALLY FASTENED, SELF-ADHERED, OR LIQUID APPLIED MEMBRANE (VAPOR PERMEABLE) APPLIED ON TOP OF EXTERIOR SHEATHING), THESE MEMBRANES SHALL BE CONTINUOUS TO THE TOP OF WALLS & TERMINATED AT PENETRATIONS & BUILDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE AS DESCRIBED IN SECTION R703.1 (IRC R703.2)

THE NOMINAL THICKNESS & ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE IN ACCORDANCE WITH TABLE R703.3(1), THE WALL COVERING MATERIAL REQUIREMENTS OF THIS SECTION, & COVERING MANUFACTURER'S INSTALLATION INSTRUCTIONS (IRC R703.3). CLADDING ATTACHMENT OVER FOAM SHEATHING SHALL COMPLY WITH ADDITIONAL REQUIREMENTS & LIMITATIONS OF SECTIONS R703.15 THROUGH R703.17

BEST PRACTICE: BUG SCREEN TOP & BOTTOM OF VENTILATED AIR SPACE

SUBTERRANEAN TERMITE CONTROL METHODS. IN AREAS SUBJECT TO DAMAGE FROM TERMITES AS INDICATED BY TABLE R301.2(1), PROTECTION SHALL BE BY ONE, OR A COMBINATION, OF THE FOLLOWING METHODS:

1. CHEMICAL TERMITICIDE TREATMENT IN ACCORDANCE WITH SECTION R318.2
2. TERMITE-BAITING SYSTEM INSTALLED & MAINTAINED IN ACCORDANCE WITH THE LABEL
3. PRESSURE-PRESERVATIVE-TREATED WOOD IN ACCORDANCE WITH THE PROVISIONS OF SECTION R317.1
4. NATURALLY DURABLE TERMITE-RESISTANT WOOD
5. PHYSICAL BARRIERS IN ACCORDANCE WITH SECTION R318.3 & USED IN LOCATIONS AS SPECIFIED IN SECTION R317.1

FOUNDATION WALLS THAT RETAIN EARTH & ENCLOSE INTERIOR SPACES & FLOORS BELOW GRADE SHALL BE DAMPROOFED FROM THE HIGHER OF (a) THE TOP OF THE FOOTING OR (b) 6" BELOW THE TOP OF THE BASEMENT FLOOR, TO THE FINISHED GRADE. CONCRETE WALLS SHALL BE DAMPROOFED BY APPLYING ANY ONE OF THE LISTED DAMPPROOFING MATERIALS OR ANY ONE OF THE WATERPROOFING MATERIALS LISTED IN SECTION R406.2 TO THE EXTERIOR OF THE WALL. (IRC R406.1)

DRAINAGE TILES, GRAVEL OR CRUSHED STONE DRAINS, PERFORATED PIPE OR OTHER APPROVED SYSTEM. GRAVEL OR CRUSHED STONE 1' BEYOND OUTSIDE EDGE & 6" ABOVE TOP OF FOOTING & COVERED WITH APPROVED FILTER MEMBRANE MATERIAL. TOP OF OPEN JOINTS DRAIN TILES SHALL BE PROTECTED STRIPS BUILDING PAPER. EXPECT WHERE OTHER WISE RECOMMENDED BY DRAIN MANUFACTURER, PERFORATED DRAINS SHALL BE SURROUNDED WITH APPROVED FILTER MEMBRANE OR FILTER MEMBRANE COVER WASHED GRAVEL OR CRUSHED ROCK. DRAINAGE TILES OR PERFORATED PIPE SHALL BE PLACED ON NOT LESS THAN 2" OF WASHED GRAVEL OR CRUSHED ROCK NOT LESS THAN ONE SIEVE SIZE LARGER THAN TILE JOINT OPENING & COVERED WITH NOT LESS THAN 6" OF THE SAME MATERIAL. (IRC R405.1.)

THERMAL INSULATION (IRC TABLE N1102.1.2 – R402.1.2)

FOR AIR-PERMEABLE INSULATIONS IN VENTED ATTICS, A BAFFLE SHALL BE INSTALLED ADJACENT TO SOFFIT & EAVE VENTS. BAFFLES SHALL MAINTAIN AN OPENING EQUAL OR GREATER THAN THE SIZE OF THE VENT. THE BAFFLE SHALL EXTEND OVER THE TOP OF THE ATTIC INSULATION. THE BAFFLE SHALL BE PERMITTED TO BE ANY SOLID MATERIAL (IRC N1102.2.3 – R402.2.3). INSULATION AT TOP PLATE AT THE EAVES SHALL COMPLY WITH (IRC N1102.2.1 – R402.2.1)

INTERIOR GYPSUM BOARD FINISH (IRC R702.3)

THERMALLY INSULATED ASSEMBLIES MAY REQUIRE A VAPOR RETARDER (IRC R702.7). **BEST PRACTICE:** SELECT A VARIABLE VAPOR PERMEANCE MEMBRANE (ALLOWS DRYING TOWARDS THE INTERIOR)

1" – 8" CHROME GPS® &/OR THERMAL BATT INSULATION (IRC TABLE N1102.1.2 – R402.1.2)

HEADER OPTION NO.2 HALO® INTERRA®
THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION N1102.4.1 THROUGH N1102.4.5 (IRC N1102.4 – R402.4).

BEST PRACTICE: WHILE EVERY EFFORT SHOULD BE MADE TO PROVIDE ADEQUATE WATER-SHEDDING SURFACES & DRAINAGE PLANES OUTBOARD OF THE EXTERIOR INSULATION, THE RISK OF WETTING BEHIND THE INSULATION CAN BE FURTHER REDUCED BY INCLUDING A SECONDARY DRAINAGE CAVITY ON OR AS PART OF THE SHEATHING MEMBRANE. PLEASE CONSULT LOGIX BRANDS TECHNICAL SERVICES FOR FURTHER INFORMATION.

INTERIOR GYPSUM BOARD FINISH (IRC R702.3)

THERMALLY INSULATED ASSEMBLIES MAY REQUIRE A VAPOR RETARDER (IRC R702.7). **BEST PRACTICE:** SELECT A VARIABLE VAPOR PERMEANCE MEMBRANE (ALLOWS DRYING TOWARDS THE INTERIOR)

1" – 8" CHROME GPS® &/OR THERMAL BATT INSULATION (IRC TABLE N1102.1.2 – R402.1.2). CONSULT LOGIX BRANDS TECHNICAL SERVICES FOR BEST PRACTICES WHEN SECURING EXTERIOR INSULATION GREATER THAN 2" (50MM)

HEADER OPTION NO.1 BATT INSULATION/MEMBRANE: THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION N1102.4.1 THROUGH N1102.4.5 (IRC N1102.4 – R402.4).

BEST PRACTICE: CAULK OR TAPE SILL PLATE TO TOP OF FOUNDATION WALL TO REDUCE AIR LEAKAGE

INTERIOR GYPSUM BOARD FINISH (IRC R702.3)

THE BUILDING THERMAL ENVELOPE SHALL COMPLY WITH THE REQUIREMENTS OF SECTIONS N1102.1.1. THROUGH N1102.1.5 & TABLE N1102.1.2 (R402.1.2).UNLESS OTHERWISE ALLOWED IN SECTION R316.5 (1" – 8" HALO® SUBTERRA® OR SUBTERRA® PLUS)

CONCRETE SLABS SHALL NOT BE LESS THAN 3-1/2" THICK (IRC R506.1)
BEST PRACTICE: 1" – 8" HALO® SUBTERRA® OR SUBTERRA® PLUS OR HEAT-SHEET® (IRC TABLE N1102.1.2 – R402.1.2).

BEST PRACTICE: SEAL JOINTS OF FOAM INSULATION BELOW SLAB OR INCLUDE A SHEET APPLIED MEMBRANE IN THE FLOOR ON GROUND & CONNECT TO THE AIR &/OR VAPOR CONTROL LAYER IN THE FOUNDATION WALL

UNDISTURBED SOIL OR BEDROCK

BEST PRACTICE: FOOTING BARRIER MEMBRANE AS CAPILLARY BREAK BETWEEN FOOTING & FOUNDATION WALL

BEST PRACTICE: RADON EXTRACTION SYSTEM, BARRIER, OR SUBFLOOR DEPRESSURIZATION SYSTEM INSTALLED IN WALL OR FLOOR ASSEMBLIES SEPARATING CONDITIONED SPACE FROM THE GROUND. NOTE: SUBETRRA® PLUS & HEAT-SHEET® HEAVY CAN FUNCTION AS A PART OF A RADON MITIGATION SYSTEM

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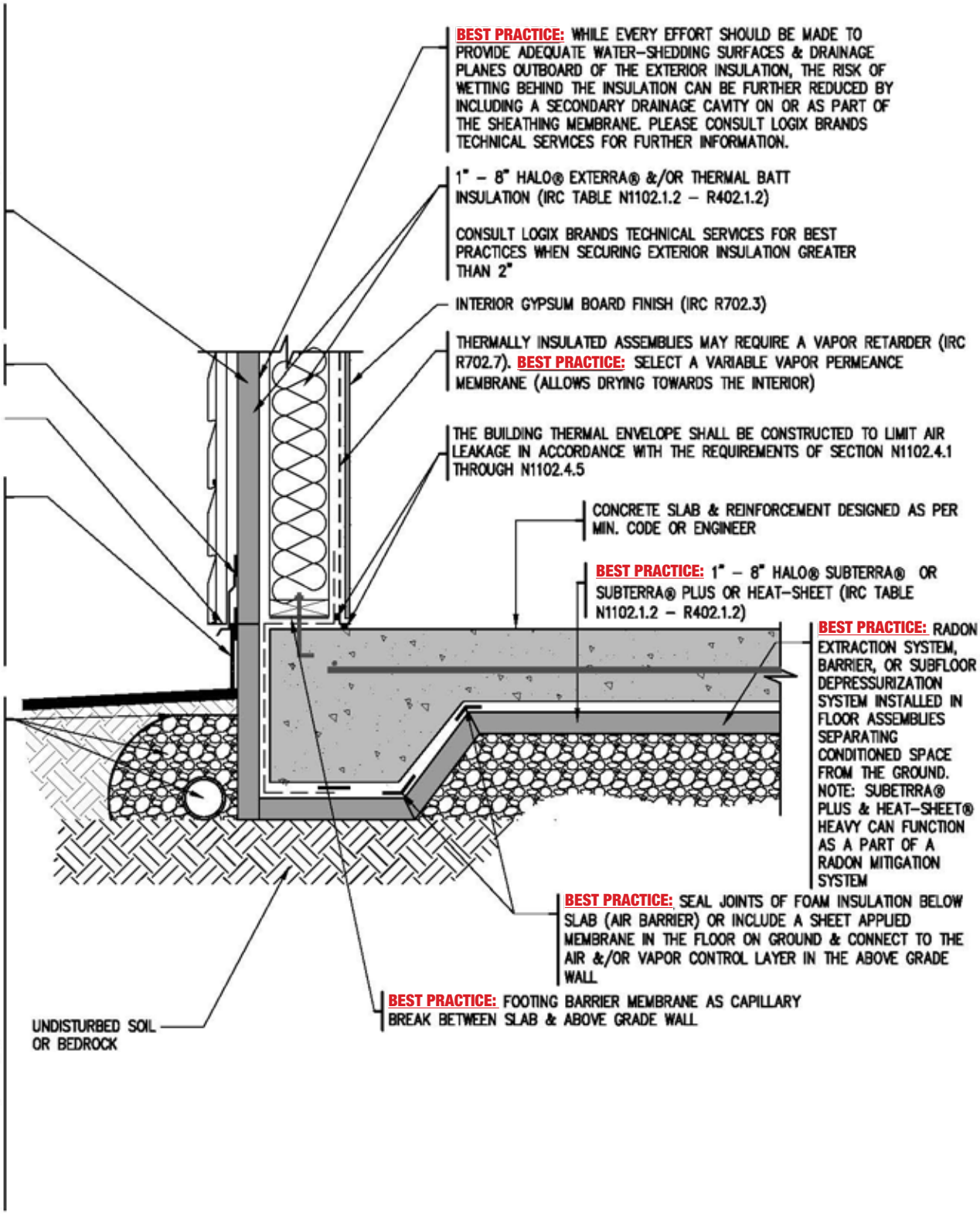
Title: CHROME GPS® ABOVE GRADE WALL ASSEMBLY & HALO® INTERRA® & HALO® SUBTERRA® OR SUBTERRA® PLUS BELOW GRADE ASSEMBLY



4 BUILDING SCIENCE CONTROL LAYERS

- WATER: FRONT FACE HALO® EXTERRA®
  - NOTE: ALTERNATIVE DETAIL; MECHANICALLY FASTENED, PEEL & STICK, OR LIQUID APPLIED MEMBRANE APPLIED TO FRONT FACE OR INBEHIND HALO® EXTERRA®
- AIR: INTERIOR MEMBRANE CONNECTED TO CONCRETE FLOOR
  - NOTE: BEST PRACTICE APPLY SHEET APPLIED MEMBRANE IN FLOOR SLAB & CONNECT TO INTERIOR WALL MEMBRANE
- THERMAL: HALO® SUBTERRA® OR SUBTERRA® PLUS OR HEAT-SHEET® BELOW SLAB & HALO® EXTERRA® & INSULATION BETWEEN STUDS
- VAPOR: INSULATION BELOW SLAB & INTERIOR MEMBRANE ABOVE GRADE WALL
  - NOTE: BEST PRACTICE SELECT VARIABLE VAPOR PERMEABLE MEMBRANE FOR ABOVE GRADE WALL ASSEMBLY (ALLOWS DRYING TOWARDS INTERIOR)

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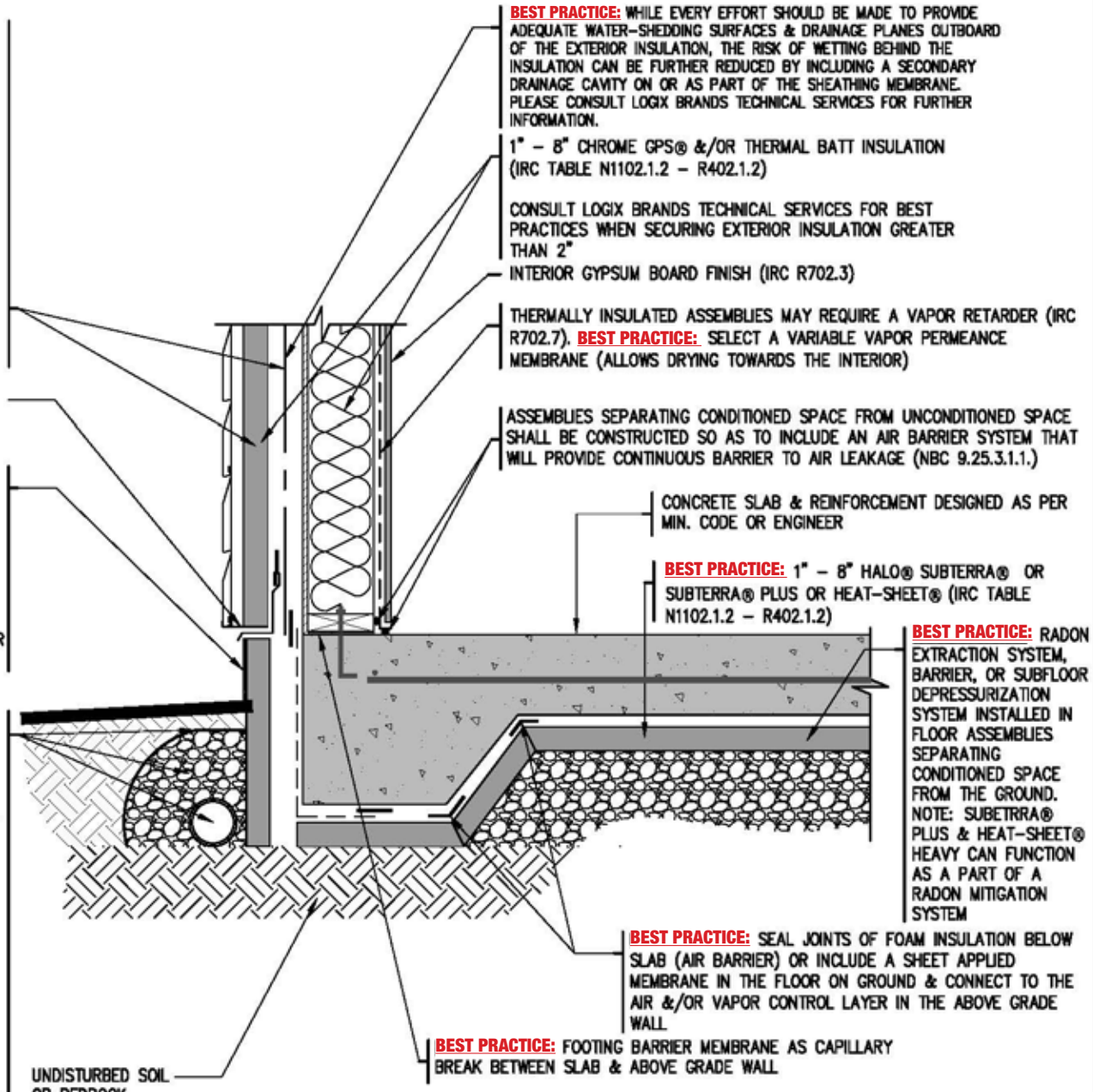
Title: HALO® EXTERRA® ABOVE GRADE WALL ASSEMBLY & HALO® SUBTERRA® OR SUBTERRA® PLUS SLAB-ON-GRADE DETAIL



4 BUILDING SCIENCE CONTROL LAYERS

- WATER: MECHANICALLY FASTENED, PEEL & STICK, OR LIQUID APPLIED MEMBRANE ON TOP OF EXTERIOR SHEATHING
  - NOTE: MEMBRANE COULD FUNCTION AS AIR CONTROL LAYER & INTERIOR MEMBRANE AS THE AIR CONTROL LAYER COULD BE OMITTED (STILL REQUIRED VAPOR CONTROL LAYER ON WARM SIDE OF ASSEMBLY)
- AIR: INTERIOR MEMBRANE CONNECTED TO CONCRETE FLOOR
  - NOTE: BEST PRACTICE APPLY SHEET APPLIED MEMBRANE IN FLOOR SLAB & CONNECT TO INTERIOR WALL MEMBRANE
- THERMAL: HALO® SUBTERRA® OR SUBTERRA® PLUS OR HEAT-SHEET® BELOW SLAB & CHROME GPS® & INSULATION BETWEEN STUDS
- VAPOR: INSULATION BELOW SLAB & INTERIOR BELOW GRADE WALL MEMBRANE OR IF INTERIOR MEMBRANE OMITTED WHEN AIR CONTROL LAYER IS PLACED ON THE EXTERIOR OF THE BUILDING ENCLOSURE A VAPOR RETARDING PAINT CAN BE APPLIED TO THE GYPSUM BOARD
  - NOTE: BEST PRACTICE SELECT VARIABLE VAPOR PERMEABLE MEMBRANE FOR ABOVE GRADE WALL ASSEMBLY (ALLOWS TOWARDS INTERIOR)

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Title: CHROME GPS® ABOVE GRADE WALL ASSEMBLY & HALO® SUBTERRA® OR SUBTERRA® PLUS SLAB-ON-GRADE DETAIL

OTHER APPROVED WATER-RESISTIVE BARRIER MANUFACTURERS INSTALLATION INSTRUCTIONS (FRONT FACE OF ICF FUNCTIONS AS THE WATER CONTROL LAYER. ALTERNATIVE DETAIL – MECH. FASTENED, PEEL & STICK, OR LIQUID APPLIED MEMBRANE APPLIED TO FRONT FACE OF ICF BLOCK). THESE MEMBRANES SHALL BE CONTINUOUS TO THE TOP OF WALLS & TERMINATED AT PENETRATIONS & BUILDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE AS DESCRIBED IN SECTION R703.1 (IRC R703.2)

FLASHING TAPED OR CAULKED TO FRONT FACE OF FOAM INSULATION

BEST PRACTICE: BUG SCREEN TOP & BOTTOM OF VENTILATED AIR SPACE

EXTERIOR FOUNDATION WALLS SHALL EXTEND NOT LESS THAN 4" (MASONRY VENEER) & 6" OTHER CLADDINGS ABOVE FINISHED GROUND LEVEL (IRC R404.1.6.) INSULATION ABOVE GRADE CANNOT BE LEFT EXPOSED COVER WITH ACRYLIC PARGING (OPTIONAL: GYPSUM OR CONCRETE BOARD)

DRAINAGE TILES, GRAVEL OR CRUSHED STONE DRAINS, PERFORATED PIPE OR OTHER APPROVED SYSTEM. GRAVEL OR CRUSHED STONE 1' BEYOND OUTSIDE EDGE & 6" ABOVE TOP OF FOOTING & COVERED WITH APPROVED FILTER MEMBRANE MATERIAL. TOP OF OPEN JOINTS DRAIN TILES SHALL BE PROTECTED STRIPS BUILDING PAPER. EXPECT WHERE OTHER WISE RECOMMENDED BY DRAIN MANUFACTURER, PERFORATED DRAINS SHALL BE SURROUNDED WITH APPROVED FILTER MEMBRANE OR FILTER MEMBRANE COVER WASHED GRAVEL OR CRUSHED ROCK. DRAINAGE TILES OR PERFORATED PIPE SHALL BE PLACED ON NOT LESS THAN 2" OF WASHED GRAVEL OR CRUSHED ROCK NOT LESS THAN ONE SIEVE SIZE LARGER THAN TILE JOINT OPENING & COVERED WITH NOT LESS THAN 6" OF THE SAME MATERIAL. (IRC R405.1.)

THERMALLY INSULATED ASSEMBLIES MAY REQUIRE A VAPOR RETARDER (IRC R702.7)
EPS INSULATION FUNCTIONS AS VAPOR CONTROL LAYER FOR THE ASSEMBLY, **BEST PRACTICE:** SELECT A VARIABLE VAPOR PERMEANCE MEMBRANE (ALLOWS DRYING TOWARDS THE INTERIOR)

INTERIOR GYPSUM BOARD FINISH (IRC R702.3), GLUED TO EPS OF ICF, SCREWED TO ICF WEBS OR INSTALLED ONTOP OF FURRING STRIPS

ICF (IRC TABLE N1102.1.2 – R402.1.2), FOR ADDITIONAL THERMAL RESISTANCE: D-RV, HALO® INTERRA®, OR SUBTERRA®/SUBTERRA® PLUS CAN BE INSTALLED

CONCRETE SLAB & REINFORCEMENT DESIGNED AS PER MIN. BUILDING CODE OR ENGINEER

BEST PRACTICE: 1" – 8" HALO® SUBTERRA® OR SUBTERRA® PLUS OR HEAT-SHEET® (IRC TABLE N1102.1.2 – R402.1.2)

BEST PRACTICE: RADON EXTRACTION SYSTEM, BARRIER, OR SUBFLOOR DEPRESSURIZATION SYSTEM INSTALLED IN FLOOR ASSEMBLIES SEPARATING CONDITIONED SPACE FROM THE GROUND. NOTE: SUBETRRA® PLUS & HEAT-SHEET® HEAVY CAN FUNCTION AS A PART OF A RADON MITIGATION SYSTEM

BEST PRACTICE: SEAL JOINTS OF FOAM INSULATION BELOW SLAB (AIR BARRIER) OR INCLUDE A SHEET APPLIED MEMBRANE IN THE FLOOR ON GROUND & CONNECT TO THE AIR &/OR VAPOR CONTROL LAYER IN THE ABOVE GRADE WALL

BEST PRACTICE: FOOTING BARRIER MEMBRANE AS CAPILLARY BREAK BETWEEN SLAB & ABOVE GRADE WALL

UNDISTURBED SOIL OR BEDROCK

4 BUILDING SCIENCE CONTROL LAYERS

- WATER: FRONT FACE OF ICF BLOCK
  - NOTE: ALTERNATIVE DETAIL; MECHANICALLY FASTENED, PEEL & STICK, OR LIQUID APPLIED MEMBRANE APPLIED TO FRONT FACE OF ICF BLOCK
- AIR: CONCRETE IN ICF TO CONCRETE IN FLOOR SLAB
  - NOTE: BEST PRACTICE TAPE JOINTS OF INSULATION BELOW SLAB & CONNECT TO CONCRETE IN ICF BLOCK WITH SHEET APPLIED MEMBRANE

THERMAL: HALO® SUBTERRA® OR SUBTERRA® PLUS OR HEAT-SHEET® BELOW SLAB & INTERIOR & EXTERIOR EPS INSULATION OF ICF BLOCK

- VAPOR: INSULATION BELOW SLAB & INTERIOR EPS INSULATION OF ICF BLOCK

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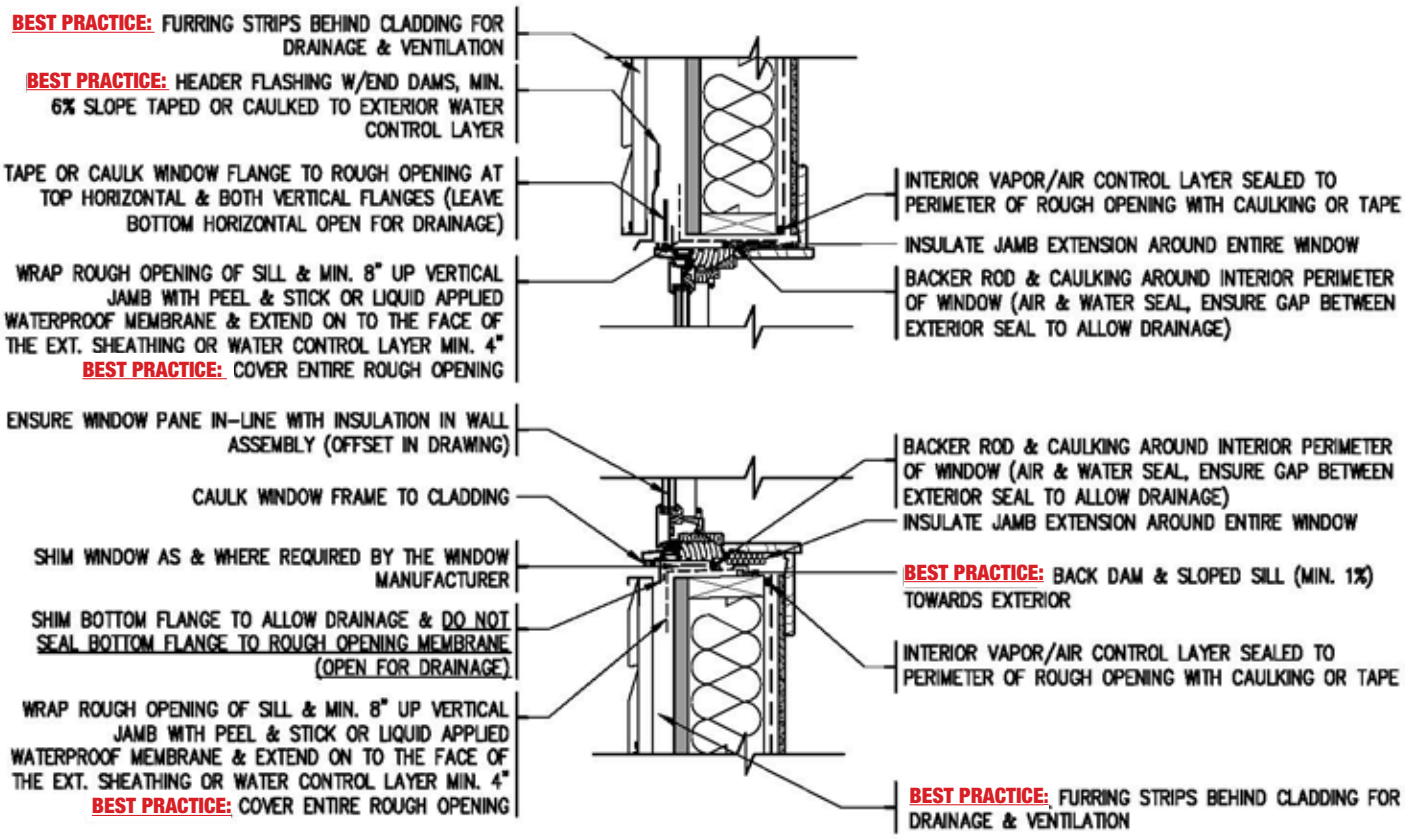
Title: ICF ABOVE GRADE WALL ASSEMBLY & HALO® SUBTERRA® OR SUBTERRA® PLUS SLAB-ON-GRADE DETAIL



4 BUILDING SCIENCE CONTROL LAYERS

- WATER: FRONT FACE HALO® EXTERRA®
  - NOTE: ALTERNATIVE DETAIL; MECHANICALLY FASTENED, PEEL & STICK, OR LIQUID APPLIED MEMBRANE APPLIED TO FRONT FACE OR INBEHIND HALO® EXTERRA®
- AIR: INTERIOR MEMBRANE CONNECTED TO WINDOW VIA MEMBRANE APPLIED TO ROUGH OPENING TO BACKER ROD & CAULKING (INTERIOR AIR SEAL)
  - NOTE: WINDOW MUST CONNECT TO INTERIOR AIR CONTROL LAYER IN ORDER TO MAINTAIN CONTINUOUS AIR BARRIER
- THERMAL: HALO® EXTERRA® & INSULATION BETWEEN STUDS
- VAPOR: INTERIOR MEMBRANE

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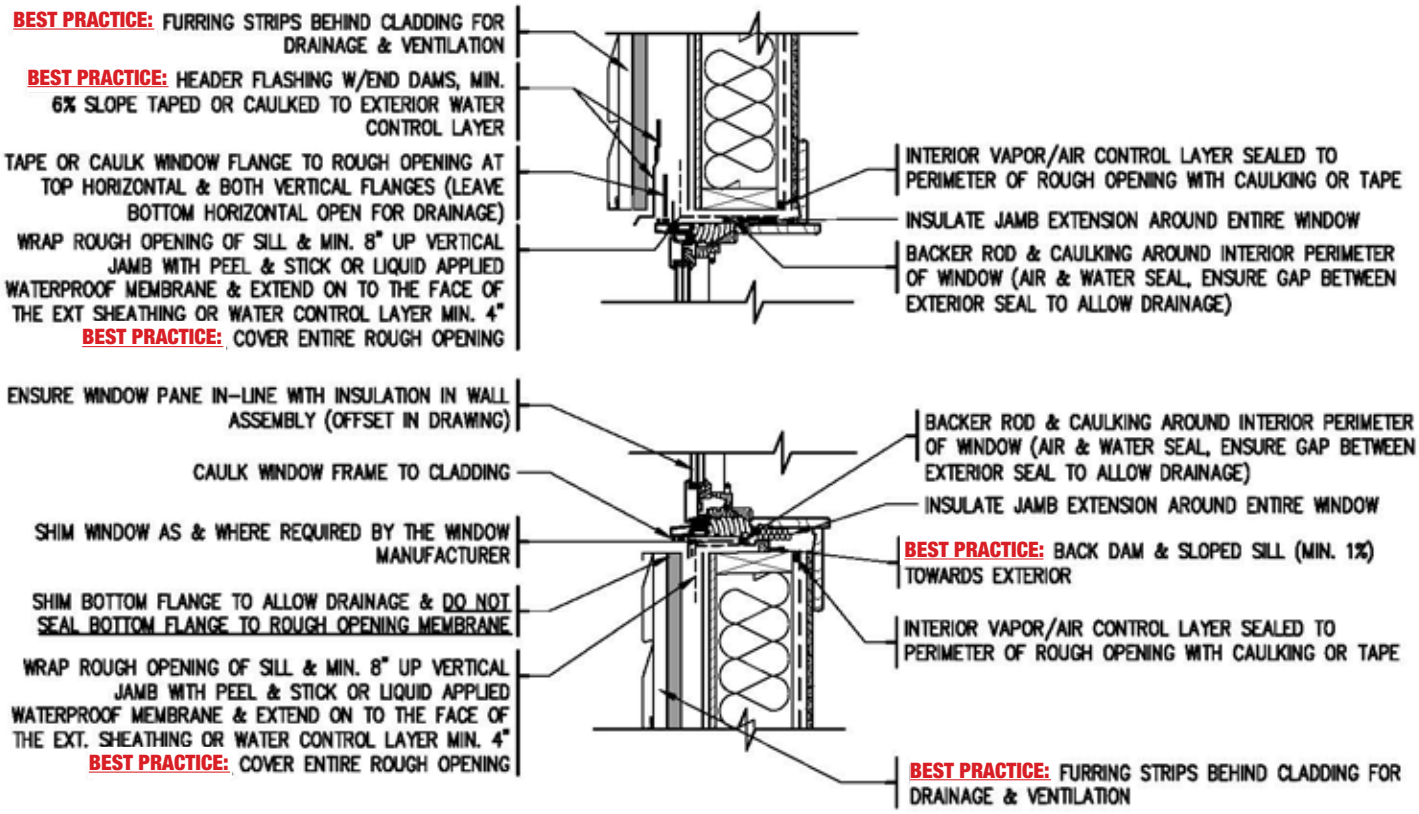
Drawing:	Date:	Pg:
11-24	MAY/2024	11

Title: HALO® EXTERRA® WINDOW DETAIL



4 BUILDING SCIENCE CONTROL LAYERS

- WATER: MEMBRANE APPLIED TO EXTERIOR SHEATHING
- AIR: INTERIOR MEMBRANE CONNECTED TO WINDOW VIA MEMBRANE APPLIED TO ROUGH OPENING TO BACKER ROD & CAULKING (INTERIOR AIR SEAL)
  - NOTE: WINDOW MUST CONNECT TO INTERIOR AIR CONTROL LAYER IN ORDER TO MAINTAIN CONTINUOUS AIR BARRIER
- THERMAL: CHROME GPS® & INSULATION BETWEEN STUDS
- VAPOR: INTERIOR MEMBRANE

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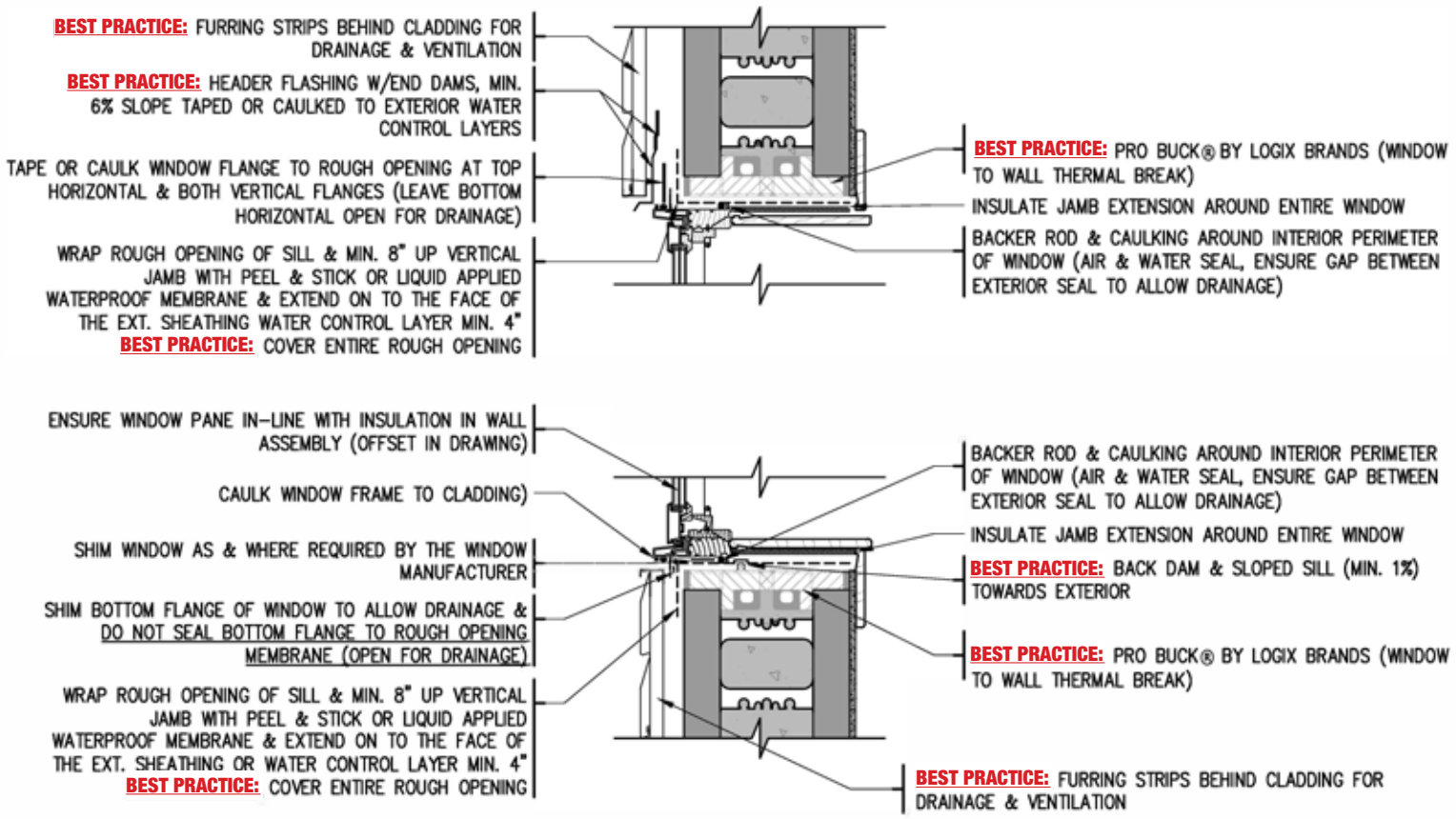
Drawing:	Date:	Pg:
12-24	MAY/2024	12

Title: CHROME GPS® WINDOW DETAIL



4 BUILDING SCIENCE CONTROL LAYERS

- WATER: FRONT FACE OF ICF BLOCK
  - NOTE: ALTERNATIVE DETAIL; MECHANICALLY FASTENED, PEEL & STICK, OR LIQUID APPLIED MEMBRANE APPLIED TO FRONT FACE OF ICF BLOCK
- AIR: CONCRETE IN ICF CONNECTED TO WINDOW VIA MEMBRANE APPLIED TO ROUGH OPENING TO BACKER ROD & CAULKING (INT. AIR SEAL)
  - NOTE: WINDOW MUST CONNECT TO CONCRETE IN ORDER TO MAINTAIN CONTINUOUS AIR BARRIER. ALTERNATIVE DETAIL AIR CONTROL LAYER; MECHANICALLY FASTENED, PEEL & STICK, OR LIQUID APPLIED MEMBRANE APPLIED TO INTERIOR OR EXTERIOR OF ICF BLOCK
- THERMAL: EXTERIOR & INTERIOR EPS INSULATION OF ICF BLOCK
- VAPOR: INTERIOR EPS INSULATION OF ICF BLOCK

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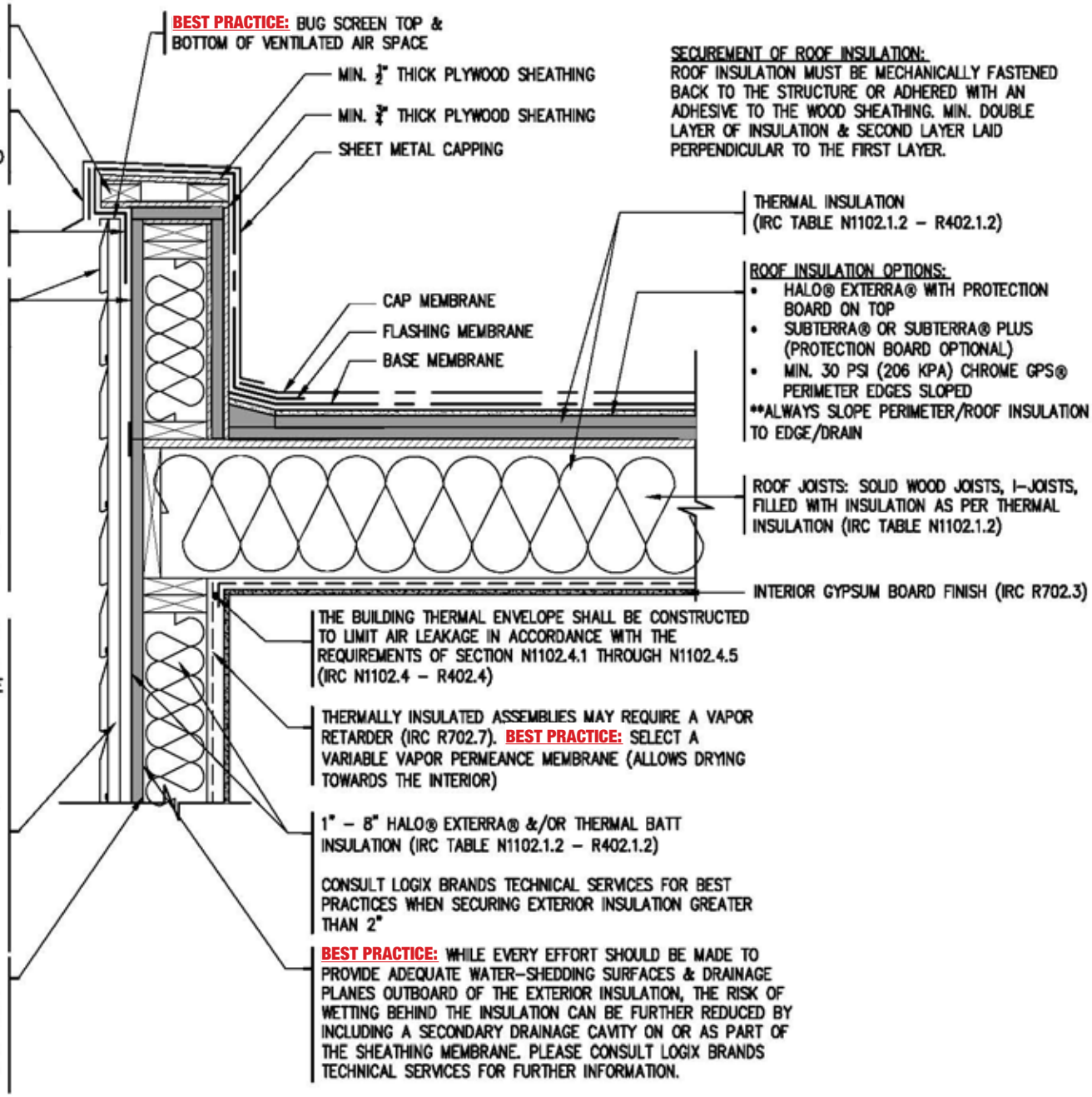
Drawing:	Date:	Pg:
13-24	MAY/2024	13

Title: ICF WINDOW DETAIL



4 BUILDING SCIENCE CONTROL LAYERS

- WATER: NON-VAPOR PERMEABLE ROOF MEMBRANE CONNECTING TO FRONT FACE OF HALO® EXTERRA®
- AIR: INTERIOR CEILING MEMBRANE CONNECTING TO INTERIOR ABOVE GRADE WALL MEMBRANE
- THERMAL: HALO® EXTERRA®, SUBTERRA® OR SUBTERRA® PLUS OR CHROME GPS® IN ROOF & HALO® EXTERRA® ON ABOVE GRADE WALL
- VAPOR: INTERIOR CEILING MEMBRANE & INTERIOR ABOVE GRADE WALL MEMBRANE

•• NOTE: BEST PRACTICE SELECT VARIABLE VAPOR PERMEANCE MEMBRANE IN CEILING ASSEMBLY (ALLOWS DRYING TOWARDS INTERIOR)

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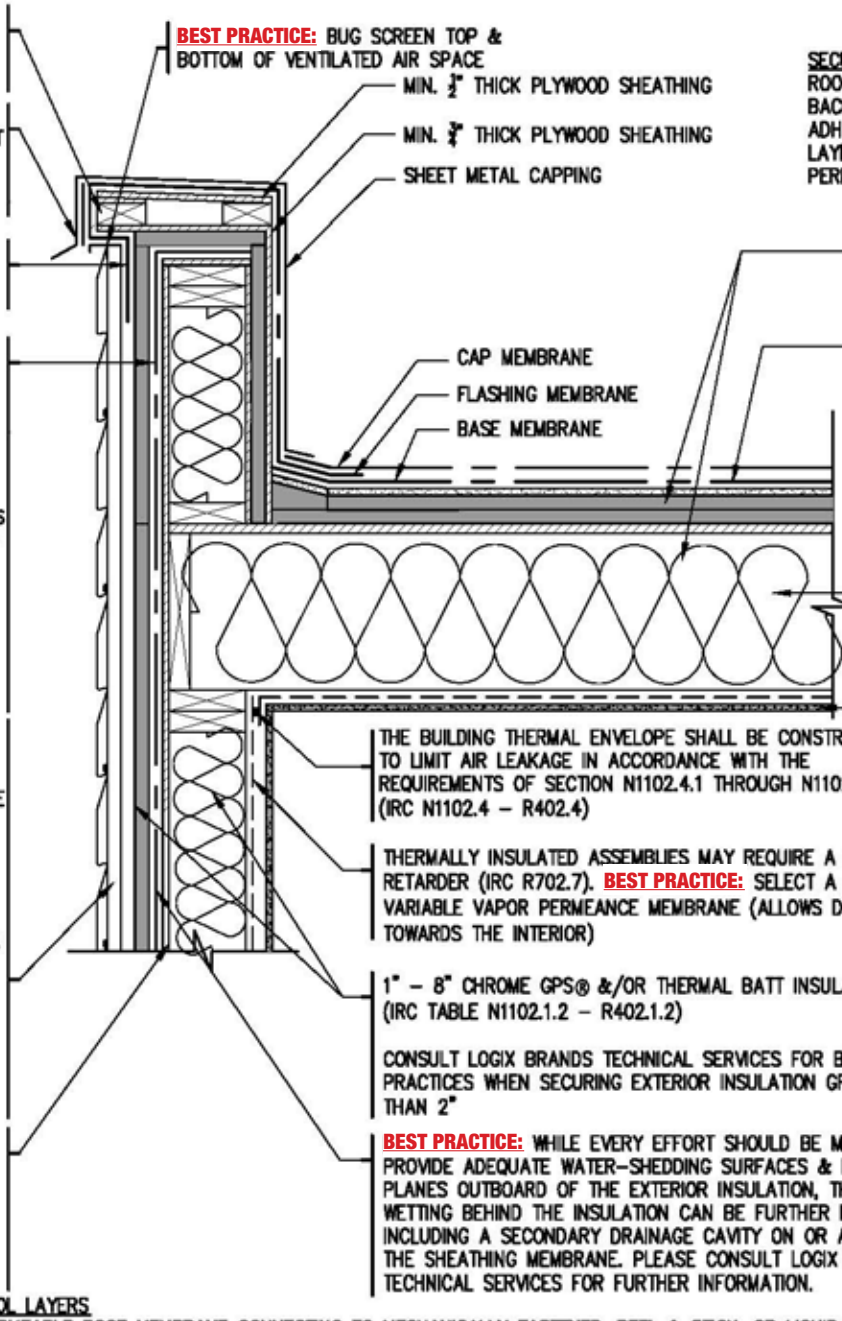
Drawing:	Date:	Pg:
14-24	MAY/2024	14

Title:
HALO® EXTERRA® ABOVE GRADE WALL ASSEMBLY & SELF-ADHERED FLAT ROOF ASSEMBLY



4 BUILDING SCIENCE CONTROL LAYERS

- WATER: NON-VAPOR PERMEABLE ROOF MEMBRANE CONNECTING TO MECHANICALLY FASTENED, PEEL & STICK, OR LIQUID APPLIED MEMBRANE ON EXTERIOR SHEATHING
  - •• NOTE: MEMBRANE COULD FUNCTION AS AIR CONTROL LAYER & INTERIOR MEMBRANE AS THE AIR CONTROL LAYER COULD BE OMITTED (STILL REQUIRES VAPOR CONTROL LAYER WARM SIDE OF WALL ASSEMBLY)
- AIR: INTERIOR CEILING MEMBRANE CONNECTING TO INTERIOR ABOVE GRADE WALL MEMBRANE
- THERMAL: HALO® EXTERRA®, SUBTERRA® OR SUBTERRA® PLUS OR CHROME GPS® IN ROOF & CHROME GPS® ON ABOVE GRADE WALL
- VAPOUR: INTERIOR CEILING MEMBRANE & INTERIOR ABOVE GRADE WALL MEMBRANE OR IF INTERIOR MEMBRANE OMITTED WHEN AIR CONTROL LAYER IS PLACED ON THE EXTERIOR OF THE BUILDING ENCLOSURE A VAPOR RETARDING PAINT CAN BE APPLIED TO THE GYPSUM BOARD
  - •• NOTE: BEST PRACTICE SELECT VARIABLE VAPOR PERMEANCE MEMBRANE IN CEILING ASSEMBLY (ALLOWS DRYING TOWARDS INTERIOR)

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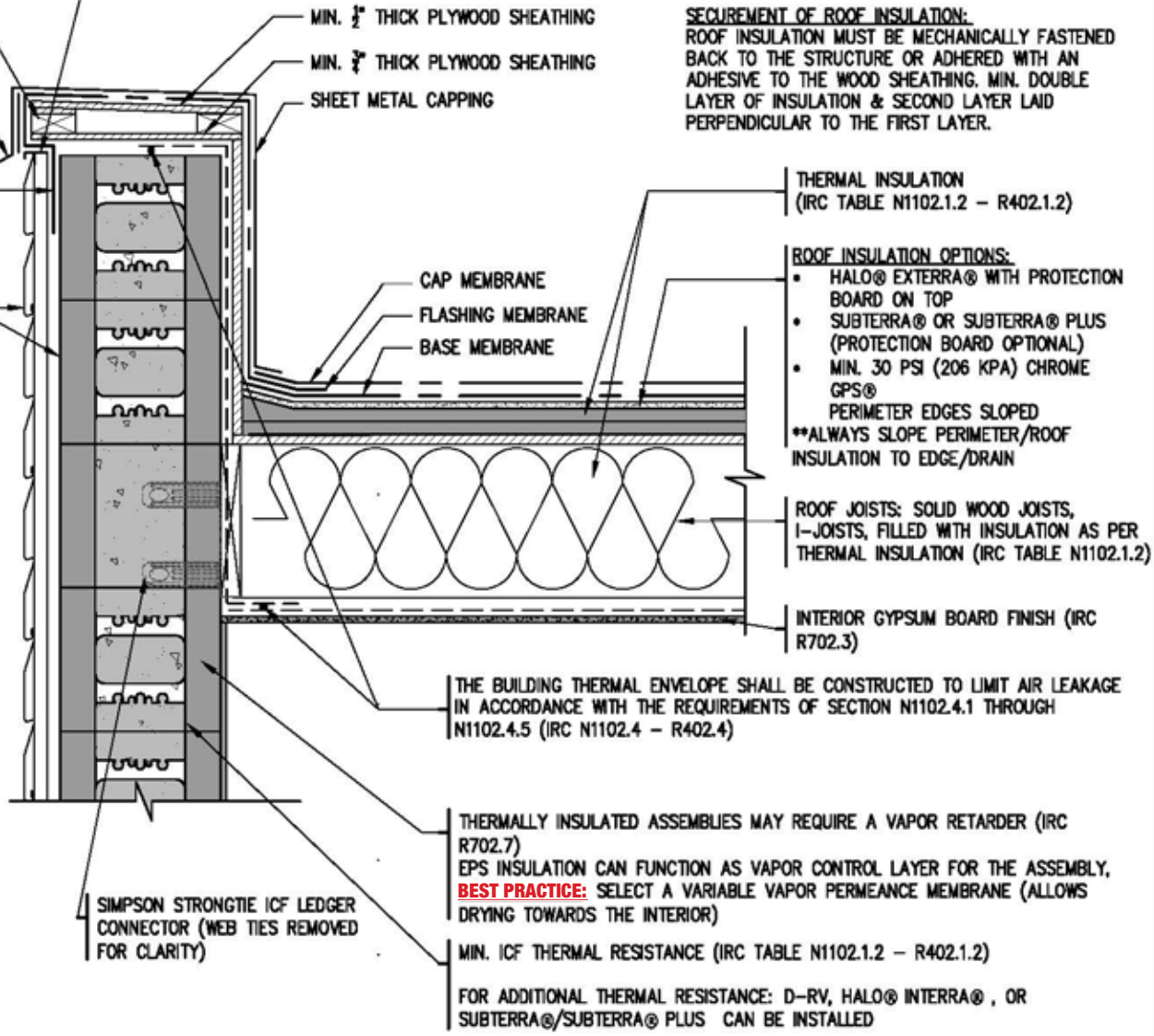
Drawing:	Date:	Pg:
15-24	MAY/2024	15

Title:

CHROME GPS® ABOVE GRADE WALL ASSEMBLY & SELF-ADHERED FLAT ROOF ASSEMBLY



4 BUILDING SCIENCE CONTROL LAYERS

- WATER: NON-VAPOR PERMEABLE ROOF MEMBRANE CONNECTING TO FRONT FACE OF ICF BLOCK
- AIR: INTERIOR CEILING MEMBRANE CONNECTING TO CONCRETE OF ICF BLOCK
- THERMAL: HALO® EXTERRA®, SUBTERRA® OR SUBTERRA® PLUS OR CHROME GPS® IN ROOF & INTERIOR & EXTERIOR INSULATION OF ICF BLOCK
- VAPOR: INTERIOR CEILING MEMBRANE & INTERIOR EPS INSULATION OF ICF BLOCK

** NOTE: BEST PRACTICE SELECT VARIABLE VAPOUR PERMEANCE MEMBRANE IN CEILING ASSEMBLY (ALLOWS DRYING TOWARDS INTERIOR)

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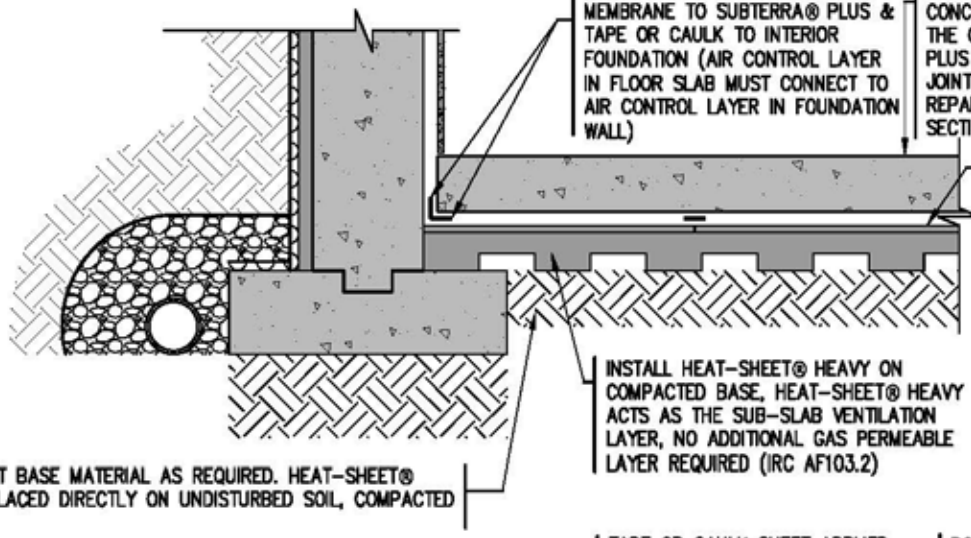
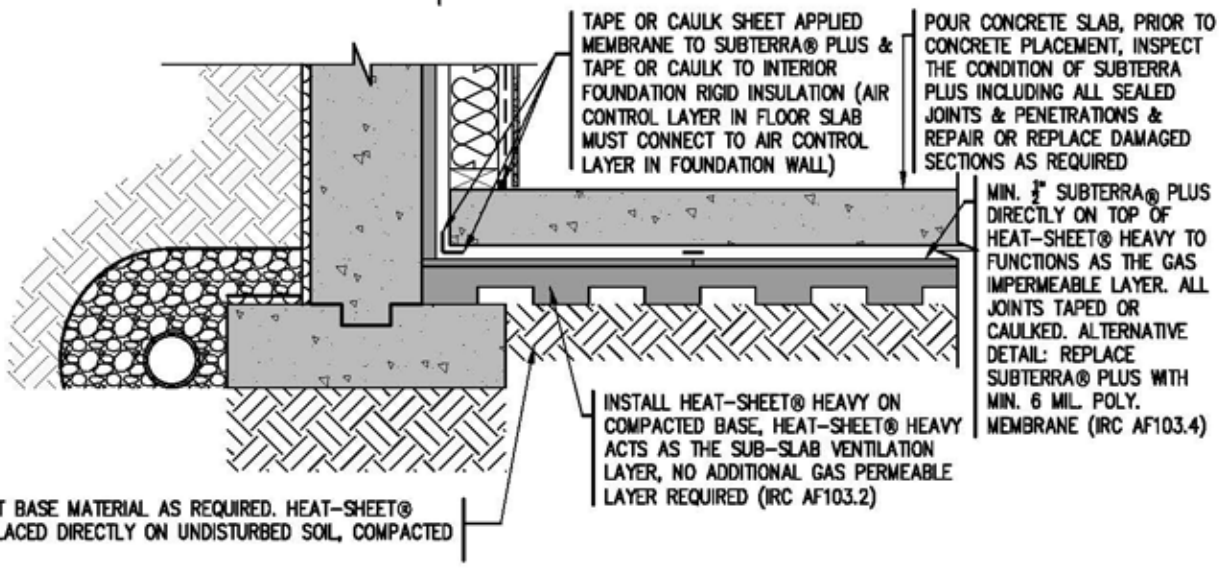
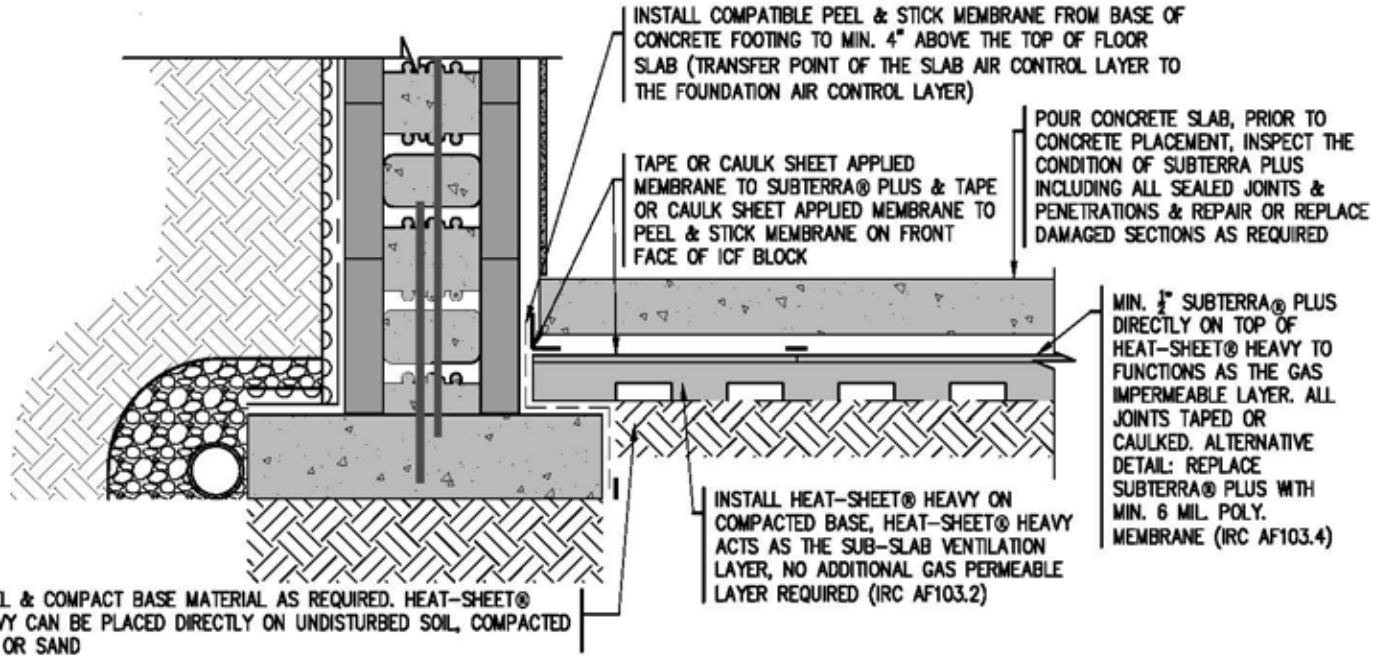
Drawing:	Date:	Pg:
16-24	MAY/2024	16

Title: ICF WALL ASSEMBLY & SELF-ADHERED FLAT ROOF ASSEMBLY







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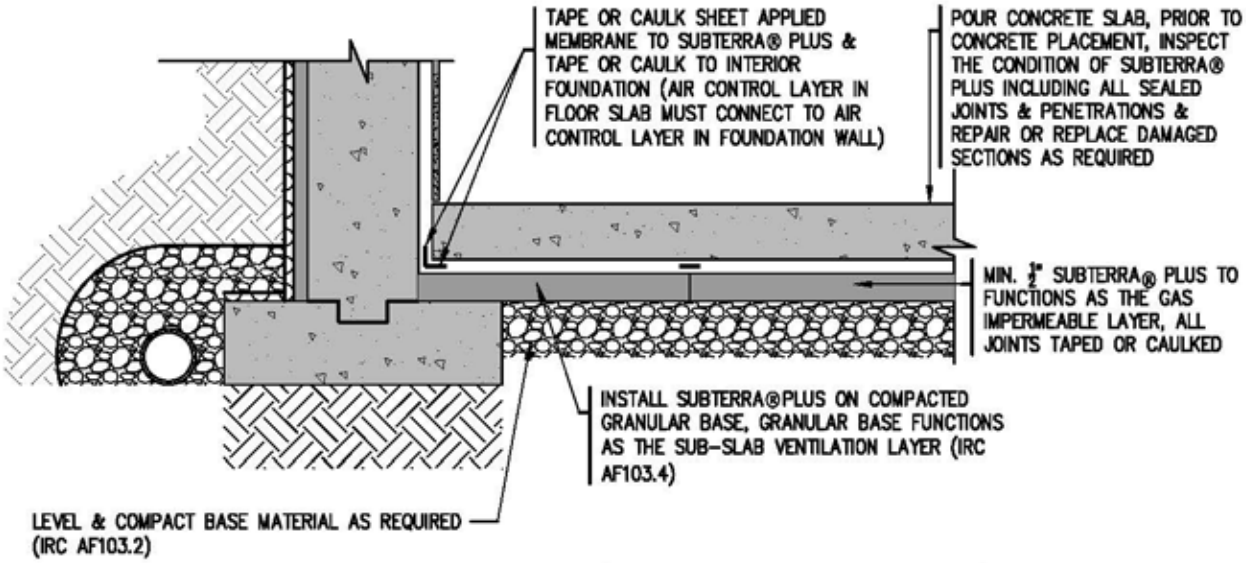
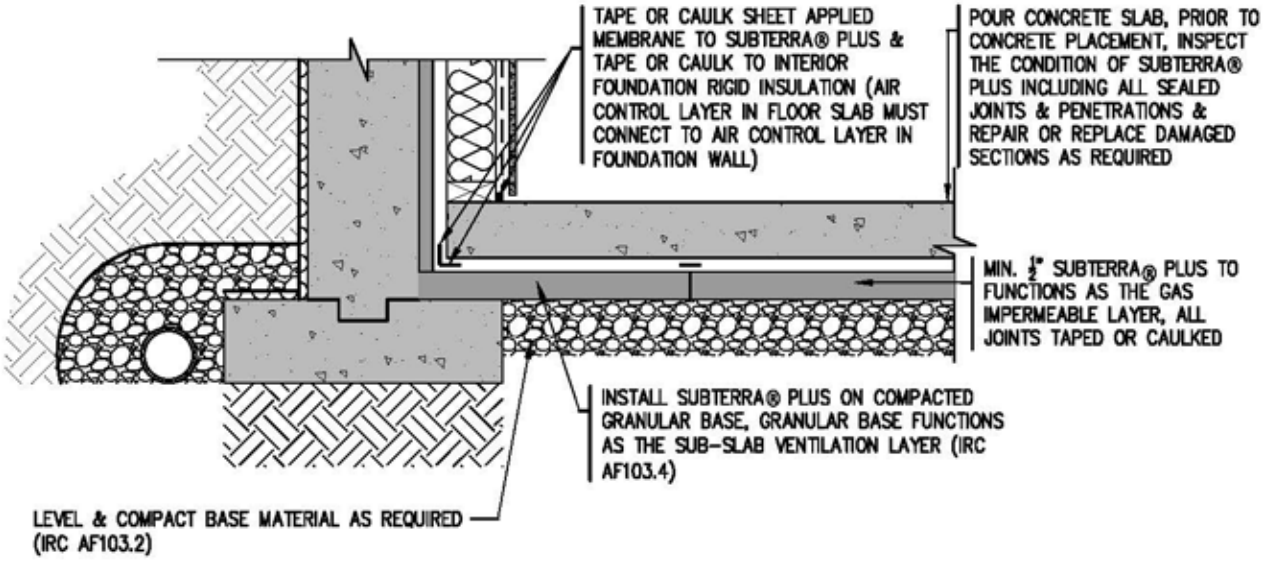
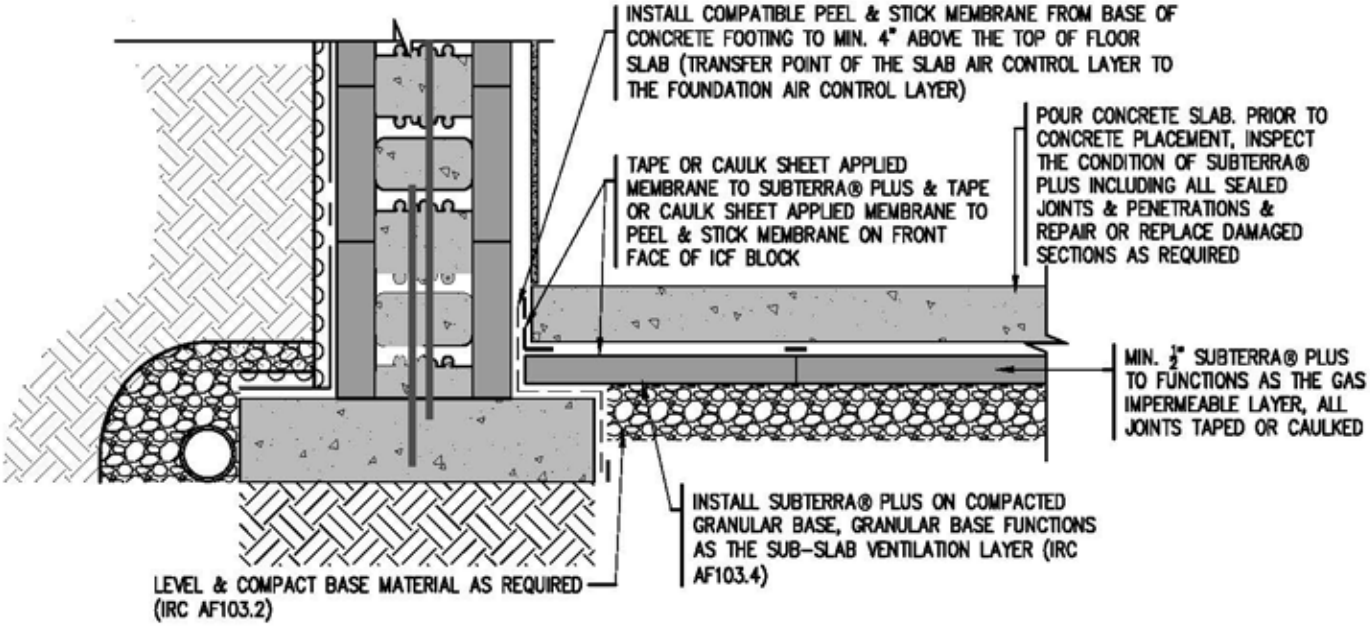
Drawing:	Date:	Pg:
17-24	MAY/2024	17

Title:

HEAT-SHEET® HEAVY & HALO® SUBTERRA® PLUS RADON MITIGATION SYSTEM







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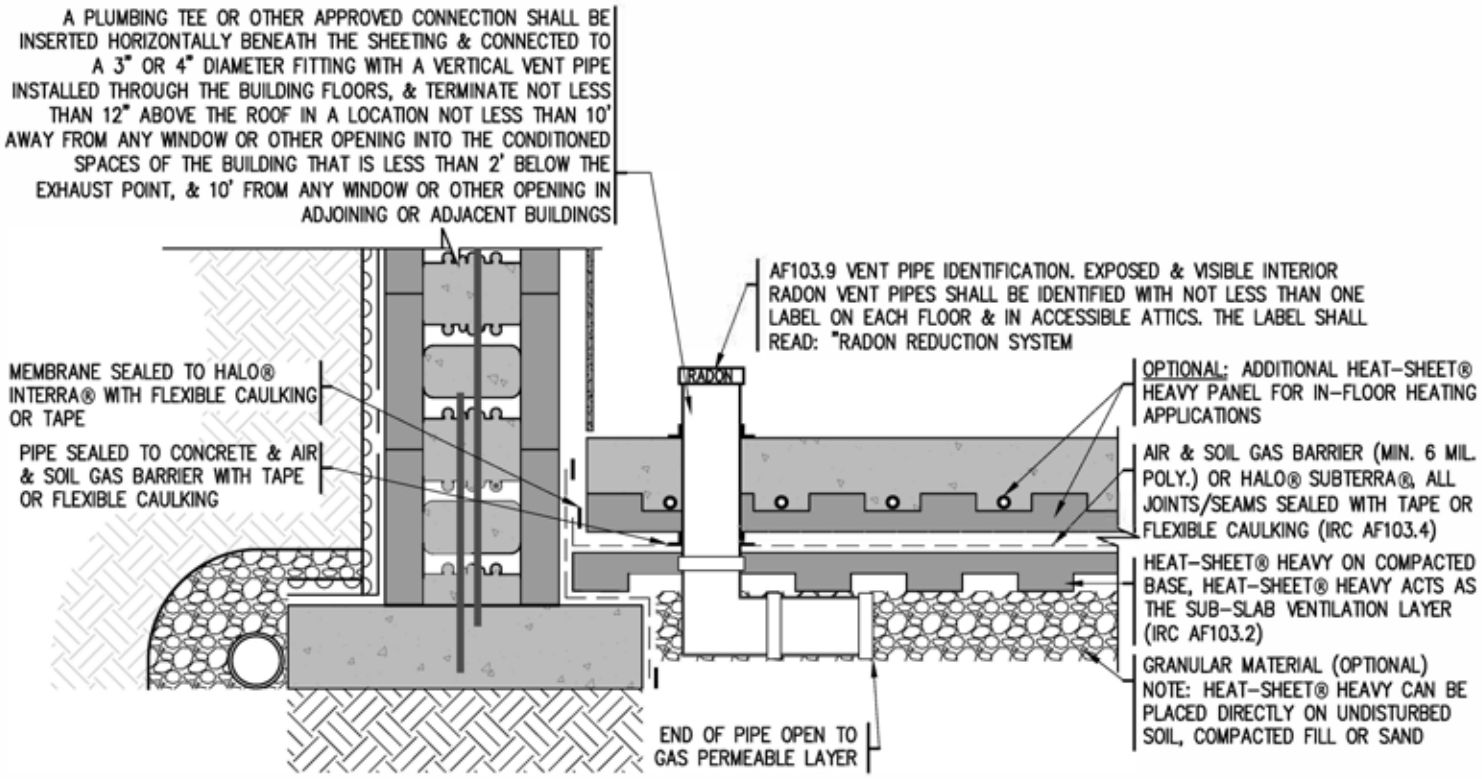
Drawing:	Date:	Pg:
18-24	MAY/2024	18

Title:
HALO® SUBTERRA® PLUS RADON MITIGATION SYSTEM



NOTES:

- AF103.4 ENTRY ROUTES. POTENTIAL RADON ENTRY ROUTES SHALL BE CLOSED IN ACCORDANCE WITH SECTIONS AF103.4.1 THROUGH AF103.4.10.
- AF103.4.1 FLOOR OPENINGS. OPENINGS AROUND BATHTUBS, SHOWERS, WATER CLOSETS, PIPES, WIRES OR OTHER OBJECTS THAT PENETRATE CONCRETE SLABS, OR OTHER FLOOR ASSEMBLIES, SHALL BE FILLED WITH A POLYURETHANE CAULK OR EQUIVALENT SEALANT APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- AF103.4.7 AIR-HANDLING UNITS. AIR-HANDLING UNITS IN CRAWL SPACES SHALL BE SEALED TO PREVENT AIR FROM BEING DRAWN INTO THE UNIT (EXCEPTION: UNITS WITH GASKETED SEAMS OR UNITS THAT ARE OTHERWISE SEALED BY THE MANUFACTURER TO PREVENT LEAKAGE.
- AF103.4.8 DUCTS. DUCTWORK PASSING THROUGH OR BENEATH A SLAB SHALL BE OF SEAMLESS MATERIAL UNLESS THE AIR-HANDLING SYSTEM IS DESIGNED TO MAINTAIN CONTINUOUS POSITIVE PRESSURE WITHIN SUCH DUCTING. JOINTS IN SUCH DUCTWORK SHALL BE SEALED TO PREVENT AIR LEAKAGE. DUCTWORK LOCATED IN CRAWL SPACES SHALL HAVE SEAMS & JOINTS SEALED BY CLOSURE SYSTEMS IN ACCORDANCE WITH SECTION M1601.4.1.
- AF103.4.9 CRAWL SPACE FLOORS. OPENINGS AROUND ALL PENETRATIONS THROUGH FLOORS ABOVE CRAWL SPACES SHALL BE CAULKED OR OTHERWISE FILLED TO PREVENT AIR LEAKAGE.
- AF103.4.10 CRAWL SPACE ACCESS. ACCESS DOORS & OTHER OPENINGS OR PENETRATIONS BETWEEN BASEMENTS & ADJOINING CRAWL SPACES SHALL BE CLOSED, GASKETED OR OTHERWISE FILLED TO PREVENT AIR LEAKAGE.
- AF103.5.2 SOIL-GAS-RETARDER. THE SOIL IN CRAWL SPACES SHALL BE COVERED WITH A CONTINUOUS LAYER OF MINIMUM 6 MIL. POLYETHYLENE SOIL-GAS-RETARDER.THE GROUND COVER SHALL BE LAPPED NOT LESS THAN 12" AT JOINTS & SHALL EXTEND TO ALL FOUNDATION WALLS ENCLOSING THE CRAW; SPACE AREA.
- AF103.8 VENT PIPE ACCESSIBILITY. RADON VENT PIPES SHALL BE ACCESSIBLE FOR FUTURE FAN INSTALLATION THROUGH AN ATTIC OR OTHER AREA OUTSIDE THE HABITABLE SPACE. EXCEPTION: THE RADON VENT PIPE NEED NOT BE ACCESSIBLE IN AN ATTIC SPACE WHERE AN APPROVED ROOF-TOP ELECTRICAL SUPPLY IS PROVIDED FOR FUTURE USE.
- AF103.12 POWER SOURCE. TO PROVIDE FOR FUTURE INSTALLATION OF AN ACTIVE SUBMEMBRANE OR SUBSLAB DEPRESSURIZATION SYSTEM, AN ELECTRICAL CIRCUIT TERMINATED IN AN APPROVED BOX SHALL BE INSTALLED DURING CONSTRUCTION IN THE ATTIC OR OTHER ANTICIPATED LOCATION OF VENT PIPE FANS. AN ELECTRICAL SUPPLY SHALL BE ACCESSIBLE IN ANTICIPATED LOCATIONS OF SYSTEM FAILURE ALARMS.

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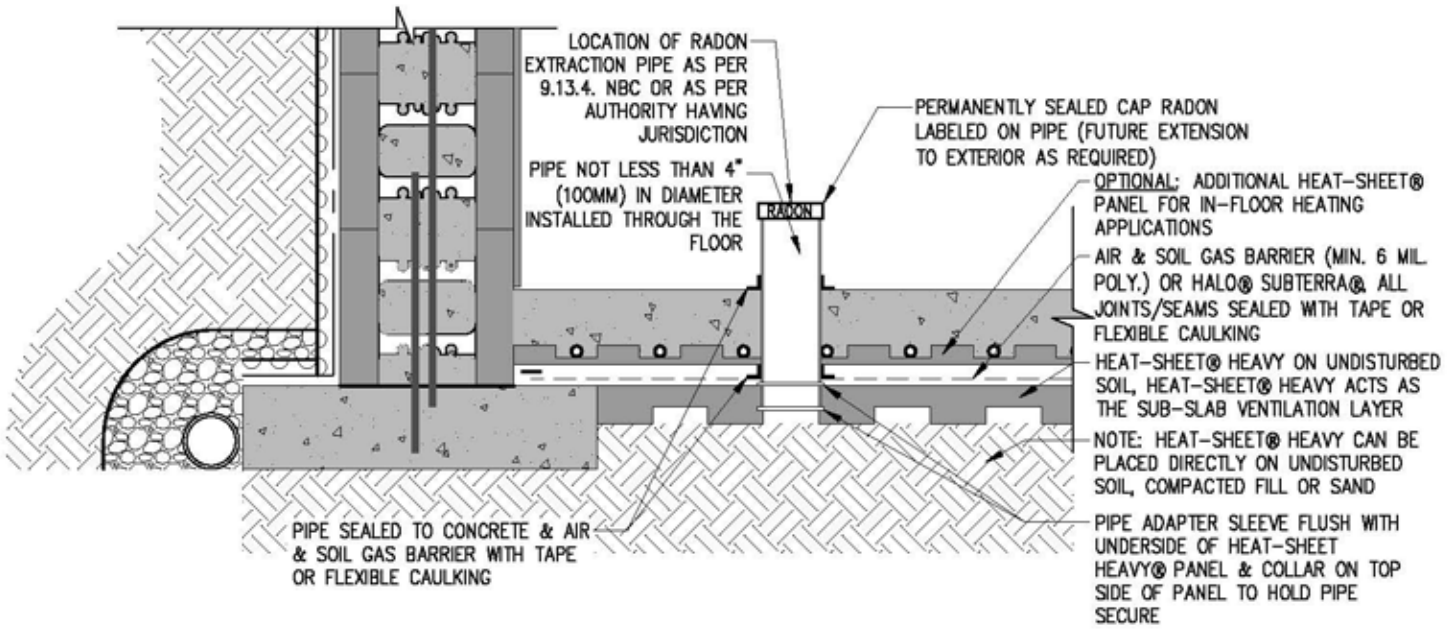
Drawing:	Date:	Pg:
19-24	MAY/2024	19

Title: HEAT-SHEET® HEAVY RADON MITIGATION SYSTEM (ICF FOUNDATION) - OPTION 1



NOTES:

- RADON PIPE CAN BE VENTED THROUGH CEILING/ROOF TO THE EXTERIOR OR THROUGH FOUNDATION WALL TO THE EXTERIOR. EXHAUST FAN MUST BE LOCATED NEAR THE OUTLET.
- THE FOLLOWING REQUIREMENTS ARE THE SUGGESTED MINIMUM SETBACKS/CLEARANCES FROM A PASSIVE RADON STACK TERMINATION CLEARANCE FOR ROOF TOP DISCHARGE:
  - VERTICAL CLEARANCE ABOVE THE ROOF AT THE POINT OF PENETRATION 1 FT. (0.3M)
  - VERTICAL CLEARANCE ABOVE WINDOWS OR DOORS 2 FT. 0.6 M
  - VERTICAL CLEARANCE ABOVE MECHANICAL AIR SUPPLY INLET (AIR INTAKE) 3 FT. (0.9M)
  - HORIZONTAL CLEARANCE FROM WINDOWS, DOORS, OR MECHINCAL AIR SUPPLY INLET 10 FT. (3.0M)
  - CLEARANCE HORIZONTALLY FROM A VERTICAL WALL THAT EXTENDS ABOVE THE ROOF PENETRATED 10 FT. (3.0M)
- THE FOLLOWING REQUIREMENTS ARE THE SUGGESTED MINIMUM SETBACKS/CLEARANCES FOR ACTIVE RADON REDUCTION SYSTEMS:
  - CLEARANCE TO A MECHANICAL AIR SUPPLY INLET MIN. 6-1/2 FT., SUGGESTED 10 FT. (2.0M, 3.0M)
  - CLEARANCE TO PERMANENTLY CLOSED WINDOW MIN. 2 FT, SUGGESTED 3-1/2 FT. (0.6M, 1.0M)
  - CLEARANCE TO A OPENABLE WINDOW MIN./SUGGESTED 6-1/2 FT. (2.0M)
  - CLEARANCE FROM A DOOR THAT MAY BE OPENED MIN. 3-1/2 FT., SUGGESTED 6-1/2 FT. (1.0M, 2.0M)
  - CLEARANCE TO OUTSIDE CORNER MIN./SUGGESTED 1 FT. (0.3M)
  - CLEARANCE TO INSIDE CORNER MIN./SUGGESTED 1 FT. (0.3M)
  - CLEARANCE ABOVE PAVED SIDEWALK OR PAVED DRIVEWAY LOCATED ON PUBLIC PROPERTY MIN./SUGGESTED 6-1/2 FT. (2.0M)
  - CLEARANCE ABOVE GRADE, VERANDA, PORCH, DECK, OR BALCONY MIN. 1 FT., SUGGESTED 3-1/2 FT. (0.3M, 1.0M)
  - VERTICAL CLEARANCE BELOW SOFFITS OR FROM ANY ATTIC VENTING COMPONENT MIN./SUGGESTED 3-1/2 FT. (1.0M)
  - HORIZONTAL CLEARANCE FROM AN AREA DIRECTLY BELOW THE DISCHARGE WHERE THERE IS A RISK OF INJURY FROM ICE FALL MIN. 3-1/2 FT., SUGGESTED 6-1/2 FT. (1.0M, 2.0M)
- THE COMPLETION OF A SUBFLOOR DEPRESSURIZATION SYSTEM MAY BE NECESSARY TO REDUCE THE RADON CONCENTRATION TO A LEVEL BELOW THE GUIDELINE SPECIFIED BY HEALTH CANADA.
- FURTHER INFORMATION ON PROTECTION FROM RADON INGRESS CAN BE FOUND IN THE FOLLOWING HEALTH CAANDA PUBLICATIONS:
  - RADON: A GUIDE FOR CANADIAN HOMEOWNERS (CMHC/HC), &
  - RADON: REDUCTION GUIDE FOR CANADIANS, &
  - GUIDE FOR RADON MEASUREMENTS IN RESIDENTIAL DWELLINGS (HOMES)

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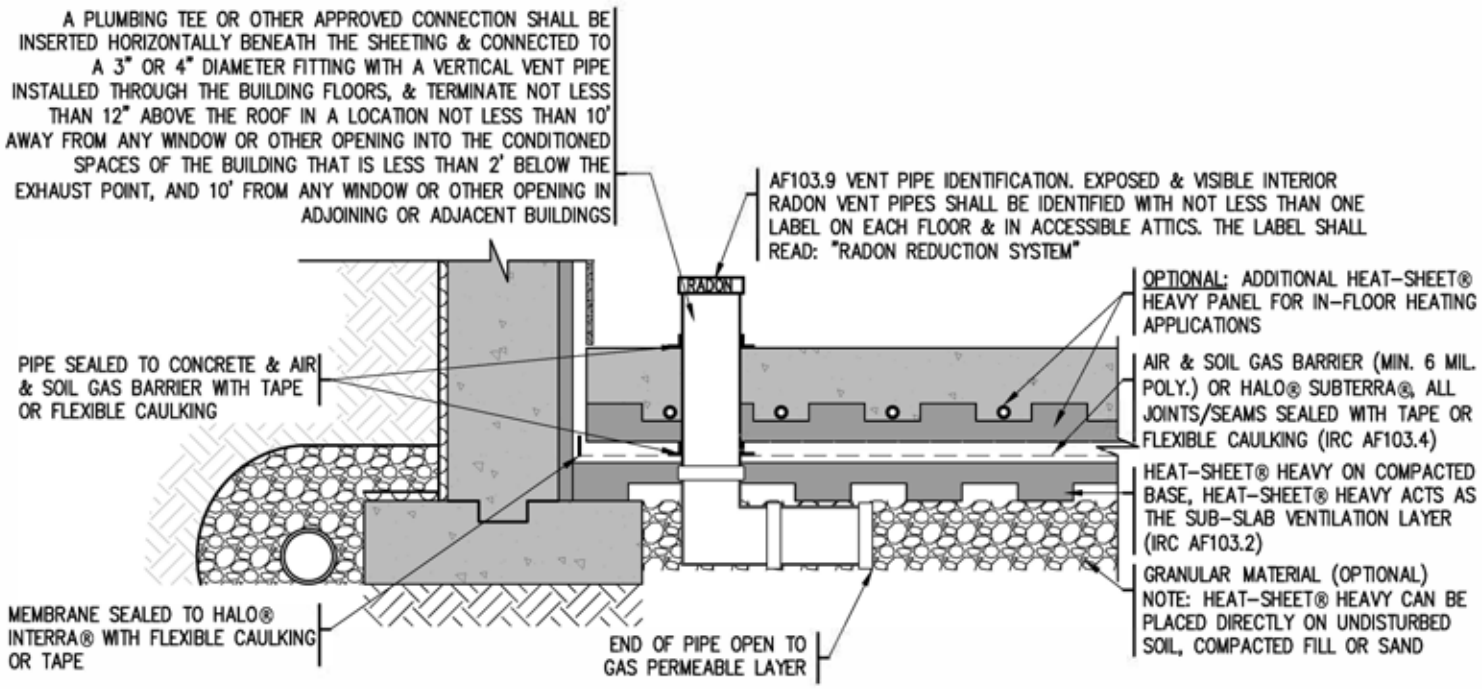
Drawing:	Date:	Pg:
20-24	MAY/2024	20

Title: HEAT-SHEET® HEAVY RADON MITIGATION SYSTEM (ICF FOUNDATION) - OPTION 2



NOTES:

- AF103.4 ENTRY ROUTES. POTENTIAL RADON ENTRY ROUTES SHALL BE CLOSED IN ACCORDANCE WITH SECTIONS AF103.4.1 THROUGH AF103.4.10.
- AF103.4.1 FLOOR OPENINGS. OPENINGS AROUND BATHTUBS, SHOWERS, WATER CLOSETS, PIPES, WIRES OR OTHER OBJECTS THAT PENETRATE CONCRETE SLABS, OR OTHER FLOOR ASSEMBLIES, SHALL BE FILLED WITH A POLYURETHANE CAULK OR EQUIVALENT SEALANT APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- AF103.4.7 AIR-HANDLING UNITS. AIR-HANDLING UNITS IN CRAWL SPACES SHALL BE SEALED TO PREVENT AIR FROM BEING DRAWN INTO THE UNIT (EXCEPTION: UNITS WITH GASKETED SEAMS OR UNITS THAT ARE OTHERWISE SEALED BY THE MANUFACTURER TO PREVENT LEAKAGE.
- AF103.4.8 DUCTS. DUCTWORK PASSING THROUGH OR BENEATH A SLAB SHALL BE OF SEAMLESS MATERIAL UNLESS THE AIR-HANDLING SYSTEM IS DESIGNED TO MAINTAIN CONTINUOUS POSITIVE PRESSURE WITHIN SUCH DUCTING. JOINTS IN SUCH DUCTWORK SHALL BE SEALED TO PREVENT AIR LEAKAGE. DUCTWORK LOCATED IN CRAWL SPACES SHALL HAVE SEAMS & JOINTS SEALED BY CLOSURE SYSTEMS IN ACCORDANCE WITH SECTION M1601.4.1.
- AF103.4.9 CRAWL SPACE FLOORS. OPENINGS AROUND ALL PENETRATIONS THROUGH FLOORS ABOVE CRAWL SPACES SHALL BE CAULKED OR OTHERWISE FILLED TO PREVENT AIR LEAKAGE.
- AF103.4.10 CRAWL SPACE ACCESS. ACCESS DOORS & OTHER OPENINGS OR PENETRATIONS BETWEEN BASEMENTS & ADJOINING CRAWL SPACES SHALL BE CLOSED, GASKETED OR OTHERWISE FILLED TO PREVENT AIR LEAKAGE.
- AF103.5.2 SOIL-GAS-RETARDER. THE SOIL IN CRAWL SPACES SHALL BE COVERED WITH A CONTINUOUS LAYER OF MINIMUM 6 MIL. POLYETHYLENE SOIL-GAS-RETARDER.THE GROUND COVER SHALL BE LAPPED NOT LESS THAN 12" AT JOINTS & SHALL EXTEND TO ALL FOUNDATION WALLS ENCLOSING THE CRAW; SPACE AREA.
- AF103.8 VENT PIPE ACCESSIBILITY. RADON VENT PIPES SHALL BE ACCESSIBLE FOR FUTURE FAN INSTALLATION THROUGH AN ATTIC OR OTHER AREA OUTSIDE THE HABITABLE SPACE. EXCEPTION: THE RADON VENT PIPE NEED NOT BE ACCESSIBLE IN AN ATTIC SPACE WHERE AN APPROVED ROOF-TOP ELECTRICAL SUPPLY IS PROVIDED FOR FUTURE USE.
- AF103.12 POWER SOURCE. TO PROVIDE FOR FUTURE INSTALLATION OF AN ACTIVE SUBMEMBRANE OR SUBSLAB DEPRESSURIZATION SYSTEM, AN ELECTRICAL CIRCUIT TERMINATED IN AN APPROVED BOX SHALL BE INSTALLED DURING CONSTRUCTION IN THE ATTIC OR OTHER ANTICIPATED LOCATION OF VENT PIPE FANS. AN ELECTRICAL SUPPLY SHALL BE ACCESSIBLE IN ANTICIPATED LOCATIONS OF SYSTEM FAILURE ALARMS.

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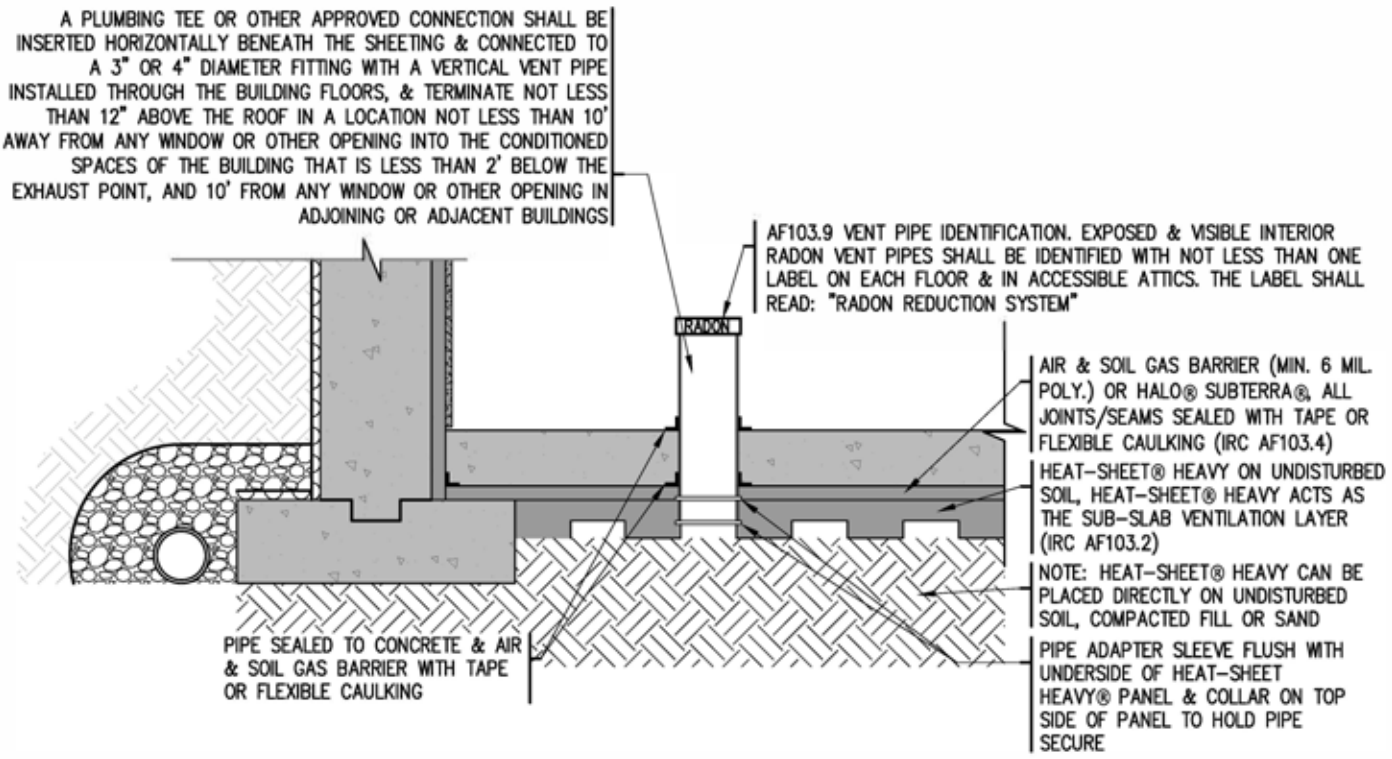
Drawing:	Date:	Pg:
21-24	MAY/2024	21

Title:
HEAT-SHEET® HEAVY RADON MITIGATION SYSTEM (INTERIOR FOUNDATION INSULATION) - OPTION 1



NOTES:

- AF103.4 ENTRY ROUTES. POTENTIAL RADON ENTRY ROUTES SHALL BE CLOSED IN ACCORDANCE WITH SECTIONS AF103.4.1 THROUGH AF103.4.10.
- AF103.4.1 FLOOR OPENINGS. OPENINGS AROUND BATHTUBS, SHOWERS, WATER CLOSETS, PIPES, WIRES OR OTHER OBJECTS THAT PENETRATE CONCRETE SLABS, OR OTHER FLOOR ASSEMBLIES, SHALL BE FILLED WITH A POLYURETHANE CAULK OR EQUIVALENT SEALANT APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- AF103.4.7 AIR-HANDLING UNITS. AIR-HANDLING UNITS IN CRAWL SPACES SHALL BE SEALED TO PREVENT AIR FROM BEING DRAWN INTO THE UNIT (EXCEPTION: UNITS WITH GASKETED SEAMS OR UNITS THAT ARE OTHERWISE SEALED BY THE MANUFACTURER TO PREVENT LEAKAGE.
- AF103.4.8 DUCTS. DUCTWORK PASSING THROUGH OR BENEATH A SLAB SHALL BE OF SEAMLESS MATERIAL UNLESS THE AIR-HANDLING SYSTEM IS DESIGNED TO MAINTAIN CONTINUOUS POSITIVE PRESSURE WITHIN SUCH DUCTING. JOINTS IN SUCH DUCTWORK SHALL BE SEALED TO PREVENT AIR LEAKAGE. DUCTWORK LOCATED IN CRAWL SPACES SHALL HAVE SEAMS & JOINTS SEALED BY CLOSURE SYSTEMS IN ACCORDANCE WITH SECTION M1601.4.1.
- AF103.4.9 CRAWL SPACE FLOORS. OPENINGS AROUND ALL PENETRATIONS THROUGH FLOORS ABOVE CRAWL SPACES SHALL BE CAULKED OR OTHERWISE FILLED TO PREVENT AIR LEAKAGE.
- AF103.4.10 CRAWL SPACE ACCESS. ACCESS DOORS & OTHER OPENINGS OR PENETRATIONS BETWEEN BASEMENTS & ADJOINING CRAWL SPACES SHALL BE CLOSED, GASKETED OR OTHERWISE FILLED TO PREVENT AIR LEAKAGE.
- AF103.5.2 SOIL-GAS-RETARDER. THE SOIL IN CRAWL SPACES SHALL BE COVERED WITH A CONTINUOUS LAYER OF MINIMUM 6 MIL. POLYETHYLENE SOIL-GAS-RETARDER.THE GROUND COVER SHALL BE LAPPED NOT LESS THAN 12" AT JOINTS & SHALL EXTEND TO ALL FOUNDATION WALLS ENCLOSING THE CRAW; SPACE AREA.
- AF103.8 VENT PIPE ACCESSIBILITY. RADON VENT PIPES SHALL BE ACCESSIBLE FOR FUTURE FAN INSTALLATION THROUGH AN ATTIC OR OTHER AREA OUTSIDE THE HABITABLE SPACE. EXCEPTION: THE RADON VENT PIPE NEED NOT BE ACCESSIBLE IN AN ATTIC SPACE WHERE AN APPROVED ROOF-TOP ELECTRICAL SUPPLY IS PROVIDED FOR FUTURE USE.
- AF103.12 POWER SOURCE. TO PROVIDE FOR FUTURE INSTALLATION OF AN ACTIVE SUBMEMBRANE OR SUBSLAB DEPRESSURIZATION SYSTEM, AN ELECTRICAL CIRCUIT TERMINATED IN AN APPROVED BOX SHALL BE INSTALLED DURING CONSTRUCTION IN THE ATTIC OR OTHER ANTICIPATED LOCATION OF VENT PIPE FANS. AN ELECTRICAL SUPPLY SHALL BE ACCESSIBLE IN ANTICIPATED LOCATIONS OF SYSTEM FAILURE ALARMS.

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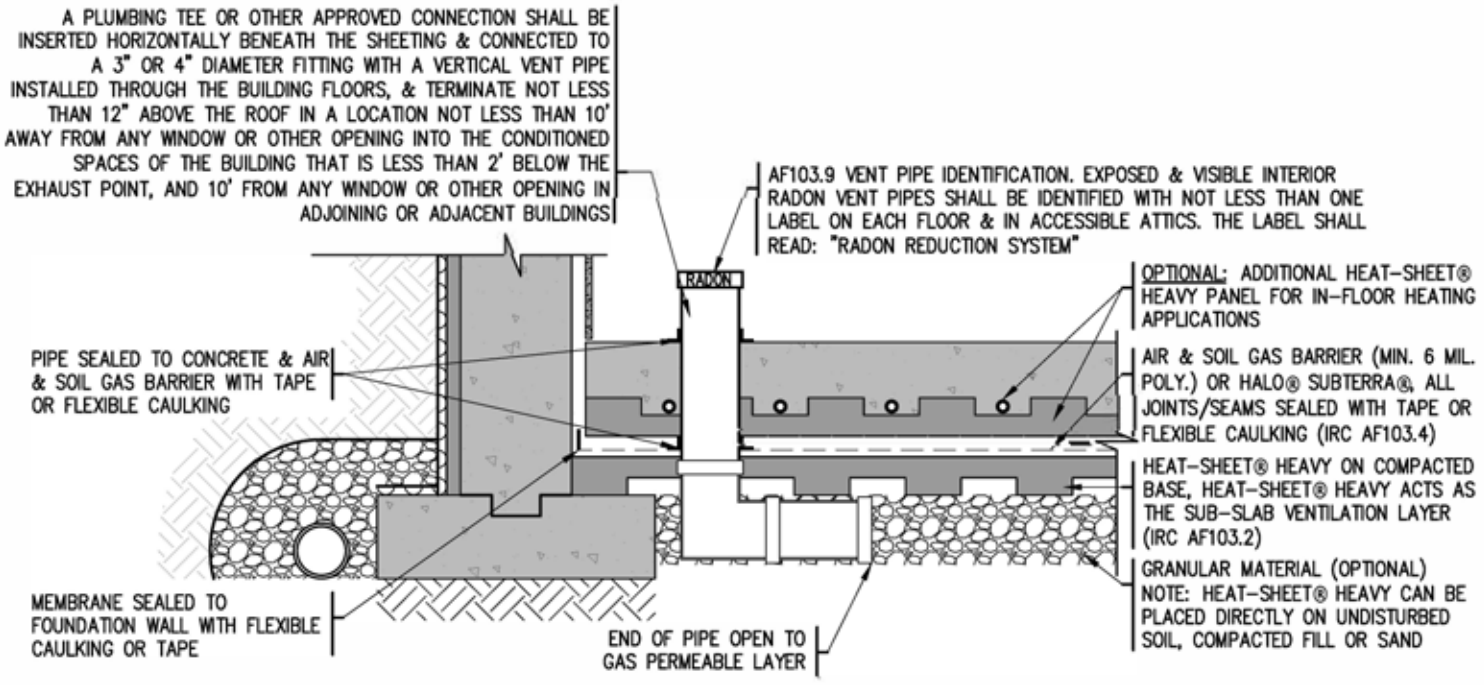
Drawing:	Date:	Pg:
22-24	MAY/2024	22

Title:
HEAT-SHEET® HEAVY RADON MITIGATION SYSTEM (INTERIOR FOUNDATION INSULATION) - OPTION 2



NOTES:

- AF103.4 ENTRY ROUTES. POTENTIAL RADON ENTRY ROUTES SHALL BE CLOSED IN ACCORDANCE WITH SECTIONS AF103.4.1 THROUGH AF103.4.10.
- AF103.4.1 FLOOR OPENINGS. OPENINGS AROUND BATHTUBS, SHOWERS, WATER CLOSETS, PIPES, WIRES OR OTHER OBJECTS THAT PENETRATE CONCRETE SLABS, OR OTHER FLOOR ASSEMBLIES, SHALL BE FILLED WITH A POLYURETHANE CAULK OR EQUIVALENT SEALANT APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- AF103.4.7 AIR-HANDLING UNITS. AIR-HANDLING UNITS IN CRAWL SPACES SHALL BE SEALED TO PREVENT AIR FROM BEING DRAWN INTO THE UNIT (EXCEPTION: UNITS WITH GASKETED SEAMS OR UNITS THAT ARE OTHERWISE SEALED BY THE MANUFACTURER TO PREVENT LEAKAGE.
- AF103.4.8 DUCTS. DUCTWORK PASSING THROUGH OR BENEATH A SLAB SHALL BE OF SEAMLESS MATERIAL UNLESS THE AIR-HANDLING SYSTEM IS DESIGNED TO MAINTAIN CONTINUOUS POSITIVE PRESSURE WITHIN SUCH DUCTING. JOINTS IN SUCH DUCTWORK SHALL BE SEALED TO PREVENT AIR LEAKAGE. DUCTWORK LOCATED IN CRAWL SPACES SHALL HAVE SEAMS & JOINTS SEALED BY CLOSURE SYSTEMS IN ACCORDANCE WITH SECTION M1601.4.1.
- AF103.4.9 CRAWL SPACE FLOORS. OPENINGS AROUND ALL PENETRATIONS THROUGH FLOORS ABOVE CRAWL SPACES SHALL BE CAULKED OR OTHERWISE FILLED TO PREVENT AIR LEAKAGE.
- AF103.4.10 CRAWL SPACE ACCESS. ACCESS DOORS & OTHER OPENINGS OR PENETRATIONS BETWEEN BASEMENTS & ADJOINING CRAWL SPACES SHALL BE CLOSED, GASKETED OR OTHERWISE FILLED TO PREVENT AIR LEAKAGE.
- AF103.5.2 SOIL-GAS-RETARDER. THE SOIL IN CRAWL SPACES SHALL BE COVERED WITH A CONTINUOUS LAYER OF MINIMUM 6 MIL. POLYETHYLENE SOIL-GAS-RETARDER.THE GROUND COVER SHALL BE LAPPED NOT LESS THAN 12" AT JOINTS & SHALL EXTEND TO ALL FOUNDATION WALLS ENCLOSING THE CRAW; SPACE AREA.
- AF103.8 VENT PIPE ACCESSIBILITY. RADON VENT PIPES SHALL BE ACCESSIBLE FOR FUTURE FAN INSTALLATION THROUGH AN ATTIC OR OTHER AREA OUTSIDE THE HABITABLE SPACE. EXCEPTION: THE RADON VENT PIPE NEED NOT BE ACCESSIBLE IN AN ATTIC SPACE WHERE AN APPROVED ROOF-TOP ELECTRICAL SUPPLY IS PROVIDED FOR FUTURE USE.
- AF103.12 POWER SOURCE. TO PROVIDE FOR FUTURE INSTALLATION OF AN ACTIVE SUBMEMBRANE OR SUBSLAB DEPRESSURIZATION SYSTEM, AN ELECTRICAL CIRCUIT TERMINATED IN AN APPROVED BOX SHALL BE INSTALLED DURING CONSTRUCTION IN THE ATTIC OR OTHER ANTICIPATED LOCATION OF VENT PIPE FANS. AN ELECTRICAL SUPPLY SHALL BE ACCESSIBLE IN ANTICIPATED LOCATIONS OF SYSTEM FAILURE ALARMS.

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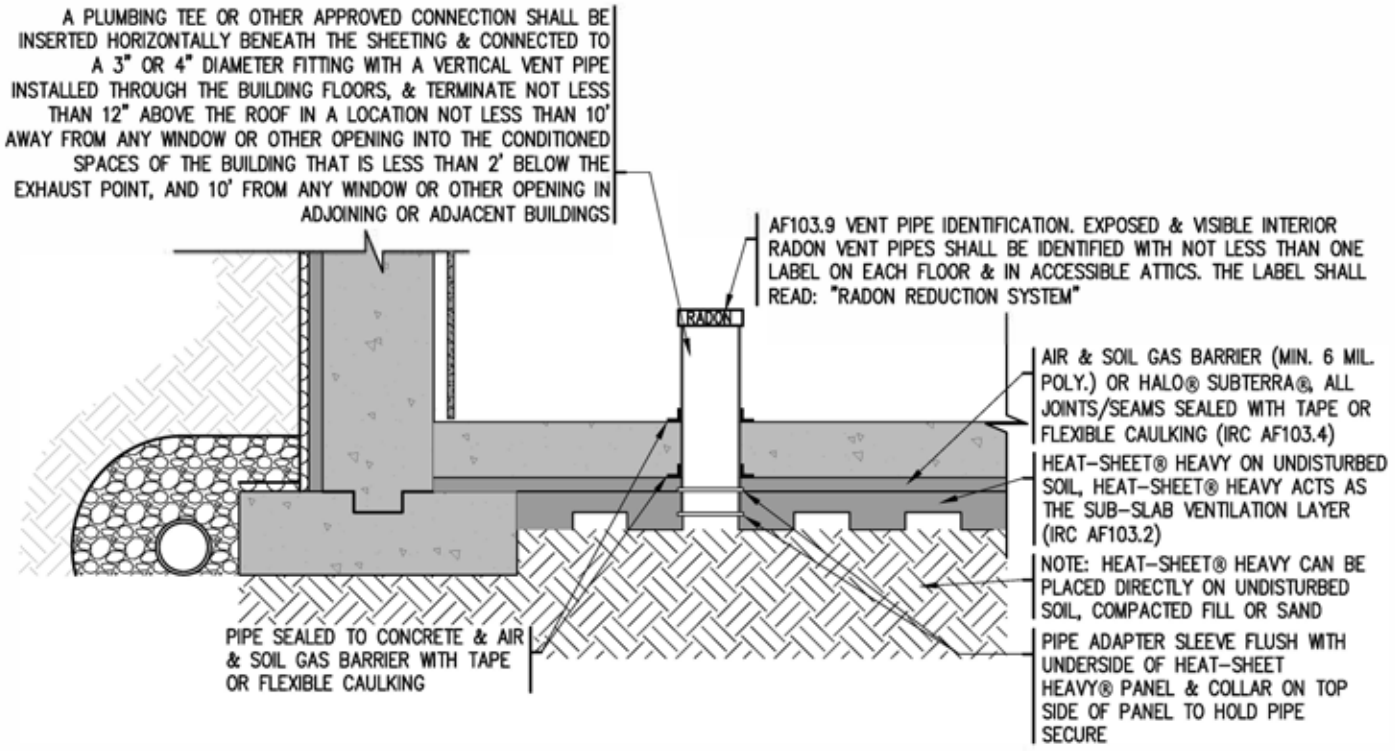
HEAT-SHEET® HEAVY RADON MITIGATION SYSTEM (EXTERIOR FOUNDATION INSULATION) - OPTION 1



NOTES:

- AF103.4 ENTRY ROUTES. POTENTIAL RADON ENTRY ROUTES SHALL BE CLOSED IN ACCORDANCE WITH SECTIONS AF103.4.1 THROUGH AF103.4.10.
- AF103.4.1 FLOOR OPENINGS. OPENINGS AROUND BATHTUBS, SHOWERS, WATER CLOSETS, PIPES, WIRES OR OTHER OBJECTS THAT PENETRATE CONCRETE SLABS, OR OTHER FLOOR ASSEMBLIES, SHALL BE FILLED WITH A POLYURETHANE CAULK OR EQUIVALENT SEALANT APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- AF103.4.7 AIR-HANDLING UNITS. AIR-HANDLING UNITS IN CRAWL SPACES SHALL BE SEALED TO PREVENT AIR FROM BEING DRAWN INTO THE UNIT (EXCEPTION: UNITS WITH GASKETED SEAMS OR UNITS THAT ARE OTHERWISE SEALED BY THE MANUFACTURER TO PREVENT LEAKAGE.
- AF103.4.8 DUCTS. DUCTWORK PASSING THROUGH OR BENEATH A SLAB SHALL BE OF SEAMLESS MATERIAL UNLESS THE AIR-HANDLING SYSTEM IS DESIGNED TO MAINTAIN CONTINUOUS POSITIVE PRESSURE WITHIN SUCH DUCTING. JOINTS IN SUCH DUCTWORK SHALL BE SEALED TO PREVENT AIR LEAKAGE. DUCTWORK LOCATED IN CRAWL SPACES SHALL HAVE SEAMS & JOINTS SEALED BY CLOSURE SYSTEMS IN ACCORDANCE WITH SECTION M1601.4.1.
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