



LOGIX[®]
BRANDS
ENGINEERED INSULATION PRODUCTS

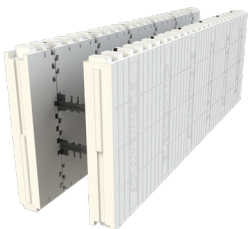
PATHWAY TO PERFORMANCE

(USA - NORTH)

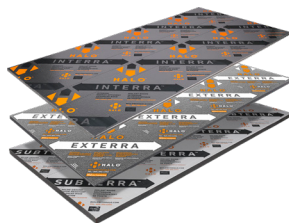
**A Building Science-Principled Plan
To Help Builders Profitably Construct Healthy
& Durable Code-Compliant Homes.**

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

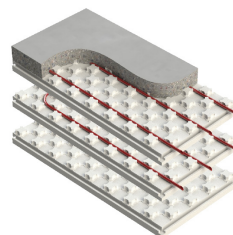
ELEMENTICF[®]
LOGIX BRANDS



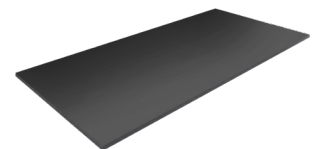
HALO[®]
ADVANCED GRAPHITE INSULATION SYSTEM



HEAT-SHEET[®]



CHROMEGRIPS
PROFESSIONAL GRADE GRAPHITE INSULATION



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Table of Contents

Typical Section Drawings

Halo® Exterra® Above Grade Wall Assembly & ICF Below Grade Assembly.....	1
Chrome GPS® Above Grade Wall Assembly & ICF Below Grade Assembly	2
ICF Above Grade Wall Assembly & ICF Below Grade Assembly.....	3
Halo® Exterra® Above Grade Wall Assembly & Halo® Subterra® or Subterra® Plus Below Grade Assembly	4
Chrome GPS® Above Grade Wall Assembly & Halo® Subterra® or Subterra® Plus Below Grade Assembly	5
Halo® Exterra® Above Grade Wall Assembly & Halo® Interra® & Halo® Subterra® or Subterra® Plus Below Grade Assembly	6
Chrome GPS® Above Grade Wall Assembly & Halo® Interra® & Halo® Subterra® or Subterra® Plus Below Grade Assembly	7
Halo® Exterra® Above Grade Wall Assembly Halo® Subterra® or Subterra® Plus Slab-On-Grade Detail.....	8
Chrome GPS® Above Grade Wall Assembly & Halo® Subterra® or Subterra® Plus Slab-On-Grade Detail.....	9
ICF Above Grade Wall Assembly & Halo® Subterra® or Subterra® Plus Slab-On-Grade Detail.....	10

Window Details

Halo® Exterra® Window Detail	11
Chrome GPS® Window Detail	12
ICF Window Detail	13

Flat Roof Drawings

Halo® Exterra® Above Grade Wall Assembly & Self-Adhered Flat Roof Assembly	14
Chrome GPS® Above Grade Wall Assembly & Self-Adhered Flat Roof Assembly.....	15
ICF Wall Assembly & Self-Adhered Flat Roof Assembly	16

Radon Mitigation Drawings

Heat-Sheet® Heavy & Halo® Subterra® Plus Radon Mitigation System	17
Halo® Subterra® Plus Radon Mitigation System	18
Heat-Sheet® Heavy Radon Mitigation System (ICF Foundation) Option 1	19
Heat-Sheet® Heavy Radon Mitigation System (ICF Foundation) Option 2	20
Heat-Sheet® Heavy Radon Mitigation System (Interior Foundation Insulation) Option 1	21
Heat-Sheet® Heavy Radon Mitigation System (Interior Foundation Insulation) Option 2	22
Heat-Sheet® Heavy Radon Mitigation System (Exterior Foundation Insulation) Option 1.....	23
Heat-Sheet® Heavy Radon Mitigation System (Exterior Foundation Insulation) Option 2.....	24

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 $\frac{1}{8}$ " MINIMUM & $\frac{1}{2}$ " MAXIMUM. VENTILATION OPENINGS HAVING A LEAST DIMENSIONS LARGER THAN $\frac{1}{2}$ " SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF $\frac{1}{8}$ " MINIMUM & $\frac{1}{2}$ " 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 $\frac{1}{60}$ 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: 3UG 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.)

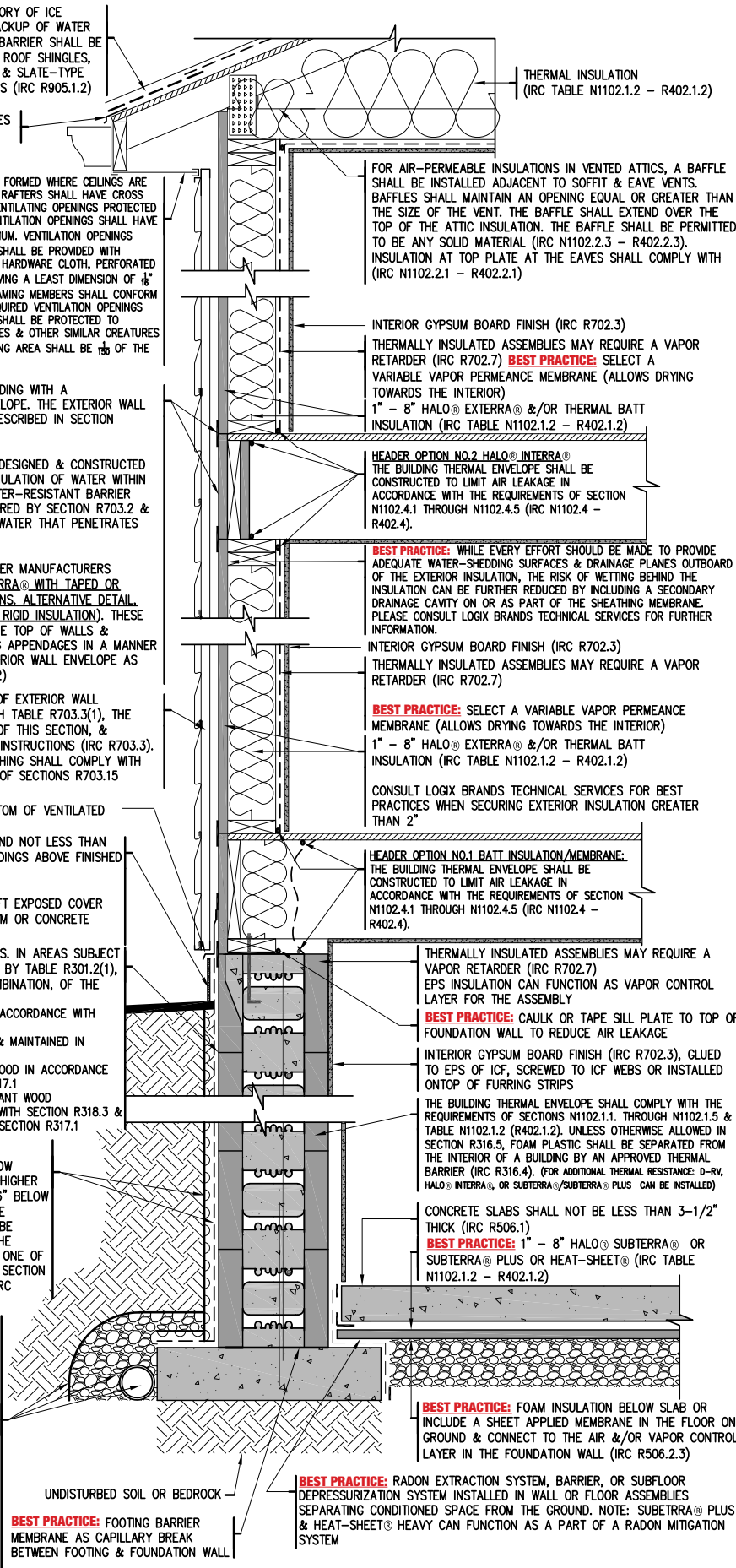
INSULATION ABOVE GRADE CANNOT BE LEFT EXPOSED COVER WITH ACRYLIC PARGING (OPTIONAL: GYPSUM OR CONCRETE BOARD)

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 DAMPROOFING 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" HALO® EXTERRA® &/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" HALO® EXTERRA® &/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"

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).

THERMALLY INSULATED ASSEMBLIES MAY REQUIRE A VAPOR RETARDER (IRC R702.7)
EPS INSULATION CAN FUNCTION AS VAPOR CONTROL LAYER FOR THE ASSEMBLY
BEST PRACTICE: CAULK OR TAPE SILL PLATE TO TOP OF FOUNDATION WALL TO REDUCE AIR LEAKAGE

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

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, FOAM PLASTIC SHALL BE SEPARATED FROM THE INTERIOR OF A BUILDING BY AN APPROVED THERMAL BARRIER (IRC R316.4). (FOR ADDITIONAL THERMAL RESISTANCE, D-RV, HALO® INTERRA®, OR SUBTERRA®/SUBTERRA® PLUS CAN BE INSTALLED)

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: 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 (IRC R506.2.3)

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

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

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. VENTILATING OPENINGS SHALL HAVE A LEAST DIMENSION OF $\frac{1}{8}$ " MINIMUM AND $\frac{1}{2}$ " MAXIMUM. VENTILATING OPENINGS HAVING A LEAST DIMENSIONS LARGER THAN $\frac{1}{2}$ " SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF $\frac{1}{8}$ " MINIMUM & $\frac{1}{2}$ " MAXIMUM. OPENINGS IN ROOF FRAMING MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF SECTION R802.7. REQUIRED VENTILATING 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 $\frac{1}{30}$ 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

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)

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:

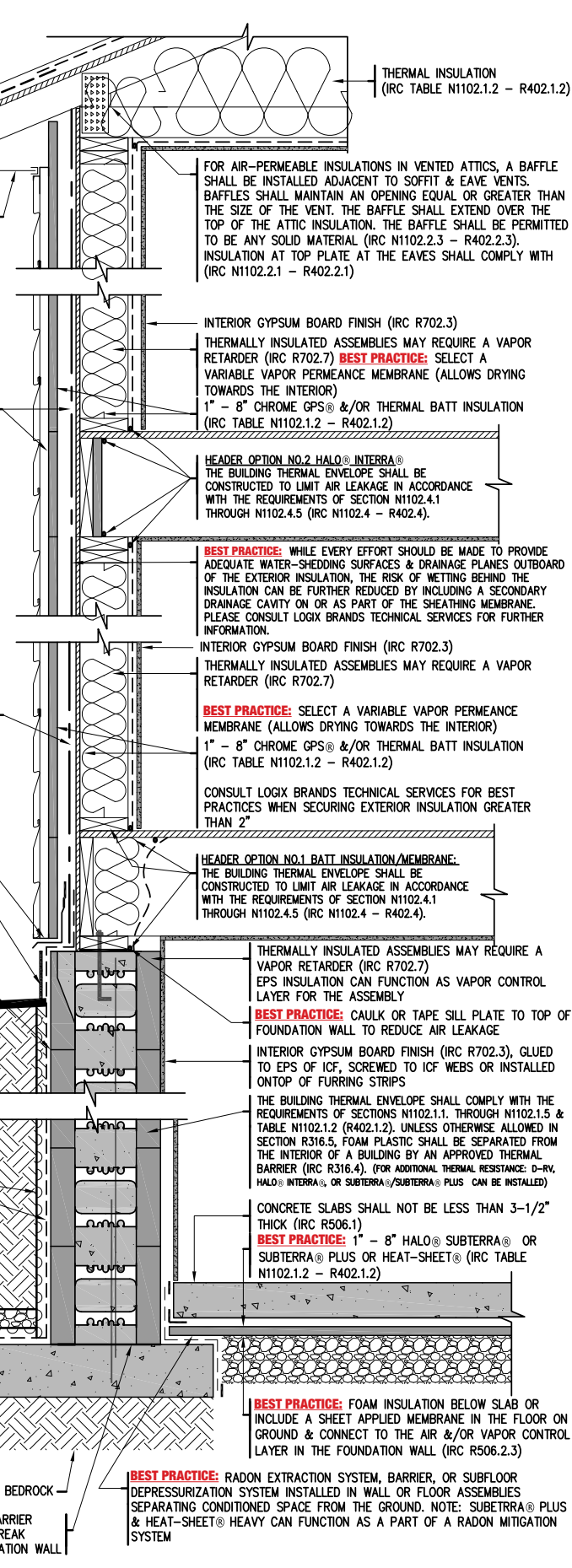
1. CHEMICAL TERMITICIDE TREATMENT IN ACCORDANCE WITH SECTION R318.2
2. TERMITE-BAITING SYSTEM INSTALLED & MAINTAINED IN ACCORDANCE WITH THE LABEL
3. PRESSURE-PRESERVATIVE-TREATED WOOD IN ACCORDANCE WITH THE PROVISIONS OF SECTION R317.1
4. NATURALLY DURABLE TERMITE-RESISTANT WOOD
5. PHYSICAL BARRIERS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

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

UNDISTURBED SOIL OR BEDROCK



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"

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).

THERMALLY INSULATED ASSEMBLIES MAY REQUIRE A VAPOR RETARDER (IRC R702.7)
EPS INSULATION CAN FUNCTION AS VAPOR CONTROL LAYER FOR THE ASSEMBLY
BEST PRACTICE: CAULK OR TAPE SILL PLATE TO TOP OF FOUNDATION WALL TO REDUCE AIR LEAKAGE

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

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, FOAM PLASTIC SHALL BE SEPARATED FROM THE INTERIOR OF A BUILDING BY AN APPROVED THERMAL BARRIER (IRC R316.4). (FOR ADDITIONAL THERMAL RESISTANCE: D-RV, HALO® INTERRA®, OR SUBTERRA®/SUBTERRA® PLUS CAN BE INSTALLED)

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: 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 (IRC R506.2.3)

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



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Drawing: 2-24	Date: MAY/2024	Pg: 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. VENTILATING OPENINGS SHALL HAVE A LEAST DIMENSION OF $\frac{1}{8}$ " MINIMUM AND $\frac{1}{2}$ " MAXIMUM. VENTILATING OPENINGS HAVING A LEAST DIMENSIONS LARGER THAN $\frac{1}{2}$ " SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF $\frac{1}{8}$ " MINIMUM & $\frac{1}{2}$ " MAXIMUM. OPENINGS IN ROOF FRAMING MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF SECTION R802.7. REQUIRED VENTILATING 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 $\frac{1}{50}$ 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 R404.1.6.)

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:

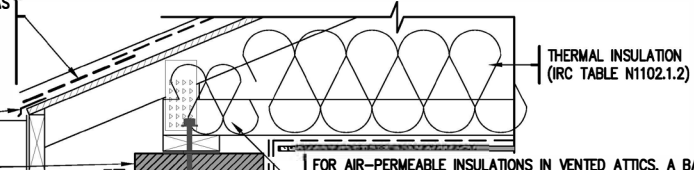
1. CHEMICAL TERMITICIDE TREATMENT IN ACCORDANCE WITH SECTION R318.2
2. TERMITE-BAITING SYSTEM INSTALLED & MAINTAINED IN ACCORDANCE WITH THE LABEL
3. PRESSURE-PRESERVATIVE-TREATED WOOD IN ACCORDANCE WITH THE PROVISIONS OF SECTION R317.1
4. NATURALLY DURABLE TERMITE-RESISTANT WOOD
5. PHYSICAL BARRIERS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

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

UNDISTURBED SOIL OR BEDROCK



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)

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). (CONCRETE FUNCTIONING AS AIR CONTROL LAYER)
BEST PRACTICE: INSTALL A SHEET APPLIED MEMBRANE ON INT. ICF BLOCK & ENSURE CONTINUITY INTO FLOOR & ROOF ASSEMBLY

SIMPSON STRONGTIE ICF LEDGER CONNECTOR OR EQUIVALENT (WEB TIES REMOVED FOR CLARITY)

THERMALLY INSULATED ASSEMBLIES MAY REQUIRE A VAPOR RETARDER (IRC R702.7)

EPS INSULATION CAN FUNCTION AS VAPOR CONTROL LAYER FOR THE ASSEMBLY.

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, FOAM PLASTIC SHALL BE SEPARATED FROM THE INTERIOR OF A BUILDING BY AN APPROVED THERMAL BARRIER (IRC R316.4). (FOR ADDITIONAL THERMAL RESISTANCE: D-RV, HALO@ INTERRA@, OR SUBTERRA@/SUBTERRA@ PLUS CAN BE INSTALLED)

SIMPSON STRONGTIE ICF LEDGER CONNECTOR OR EQUIVALENT (WEB TIES REMOVED FOR CLARITY)

THERMALLY INSULATED ASSEMBLIES MAY REQUIRE A VAPOR RETARDER (IRC R702.7)

EPS INSULATION CAN FUNCTION AS VAPOR CONTROL LAYER FOR THE ASSEMBLY

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

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, FOAM PLASTIC SHALL BE SEPARATED FROM THE INTERIOR OF A BUILDING BY AN APPROVED THERMAL BARRIER (IRC R316.4). (FOR ADDITIONAL THERMAL RESISTANCE: D-RV, HALO@ INTERRA@, OR SUBTERRA@/SUBTERRA@ PLUS CAN BE INSTALLED)

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)

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 (IRC R506.2.3)

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



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Drawing: 3-24	Date: MAY/2024	Pg: 3
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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. VENTILATING OPENINGS SHALL HAVE A LEAST DIMENSION OF 1/8" MINIMUM AND 3/4" MAXIMUM. VENTILATING OPENINGS HAVING A LEAST DIMENSIONS LARGER THAN 3/4" SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF 1/8" MINIMUM & 3/4" MAXIMUM. OPENINGS IN ROOF FRAMING MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF SECTION R802.7. REQUIRED VENTILATING 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 1/50 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.

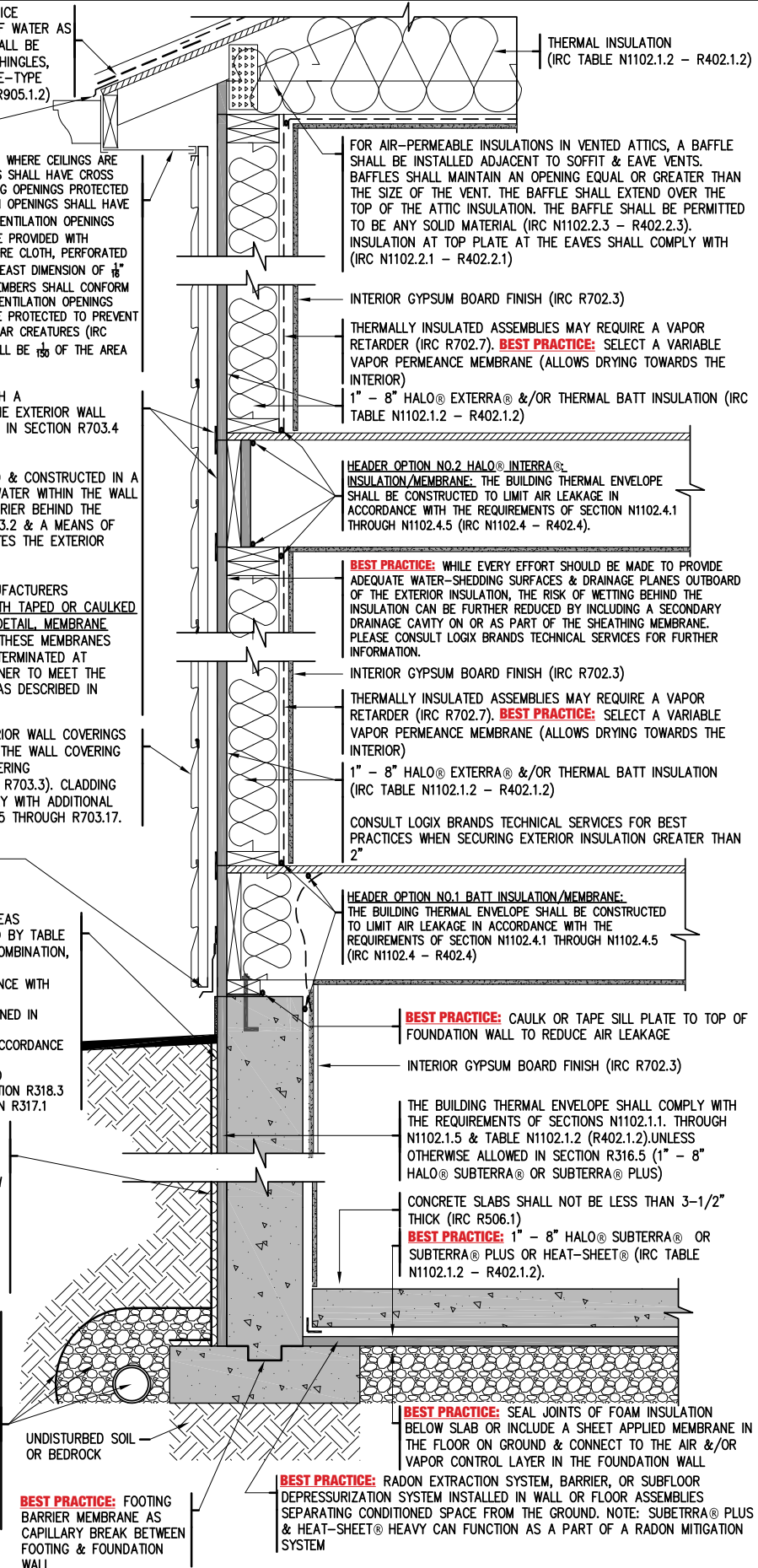
BEST PRACTICE: BUG SCREEN TOP & BOTTOM OF VENTILATED AIR SPACE

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 DAMPROOFING 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)



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)

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" HALO® EXTERRA® &/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.

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" HALO® EXTERRA® &/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"

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

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

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



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Drawing: 4-24	Date: MAY/2024	Pg: 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. VENTILATING OPENINGS SHALL HAVE A LEAST DIMENSION OF $\frac{1}{8}$ " MINIMUM AND $\frac{1}{2}$ " MAXIMUM. VENTILATING OPENINGS HAVING A LEAST DIMENSIONS LARGER THAN $\frac{1}{2}$ " SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF $\frac{1}{8}$ " MINIMUM & $\frac{1}{2}$ " MAXIMUM. OPENINGS IN ROOF FRAMING MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF SECTION R802.7. REQUIRED VENTILATING 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 $\frac{1}{100}$ 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 DAMPROOFING 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)

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: SUBTERRA® PLUS & HEAT-SHEET® HEAVY CAN FUNCTION AS A PART OF A RADON MITIGATION SYSTEM

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"

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



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Drawing: 5-24	Date: MAY/2024	Pg: 5
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 $\frac{1}{8}$ " MINIMUM AND $\frac{1}{2}$ " MAXIMUM. VENTILATION OPENINGS HAVING A LEAST DIMENSIONS LARGER THAN $\frac{1}{2}$ " SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF $\frac{1}{8}$ " MINIMUM & $\frac{1}{2}$ " 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 $\frac{1}{50}$ 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:

- CHEMICAL TERMITICIDE TREATMENT IN ACCORDANCE WITH SECTION R318.2
- TERMITE-BAITING SYSTEM INSTALLED & MAINTAINED IN ACCORDANCE WITH THE LABEL
- PRESSURE-PRESERVATIVE-TREATED WOOD IN ACCORDANCE WITH THE PROVISIONS OF SECTION R317.1
- NATURALLY DURABLE TERMITE-RESISTANT WOOD
- 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)

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

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" HALO® EXTERRA® &/OR THERMAL BATT INSULATION (IRC TABLE N1102.1.2 - R402.1.2)

HEADER OPTION NO.2 HALO® INTERRA® 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: 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" HALO® EXTERRA® &/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"

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 & STRUCTURAL FOAM TO MINIMIZE THERMAL BRIDGE

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" (25 - 200MM) 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

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



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Drawing: 6-24	Date: MAY/2024	Pg: 6
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. VENTILATING OPENINGS SHALL HAVE A LEAST DIMENSION OF $\frac{1}{8}$ " MINIMUM AND $\frac{1}{2}$ " MAXIMUM. VENTILATING OPENINGS HAVING A LEAST DIMENSIONS LARGER THAN $\frac{1}{2}$ " SHALL BE PROVIDED WITH CORROSION-RESISTANT WIRE CLOTH SCREENING, HARDWARE CLOTH, PERFORATED VINYL OR SIMILAR MATERIAL WITH OPENINGS HAVING A LEAST DIMENSION OF $\frac{1}{8}$ " MINIMUM & $\frac{1}{2}$ " MAXIMUM. OPENINGS IN ROOF FRAMING MEMBERS SHALL CONFORM TO THE REQUIREMENTS OF SECTION R802.7. REQUIRED VENTILATING 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 $\frac{1}{50}$ 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

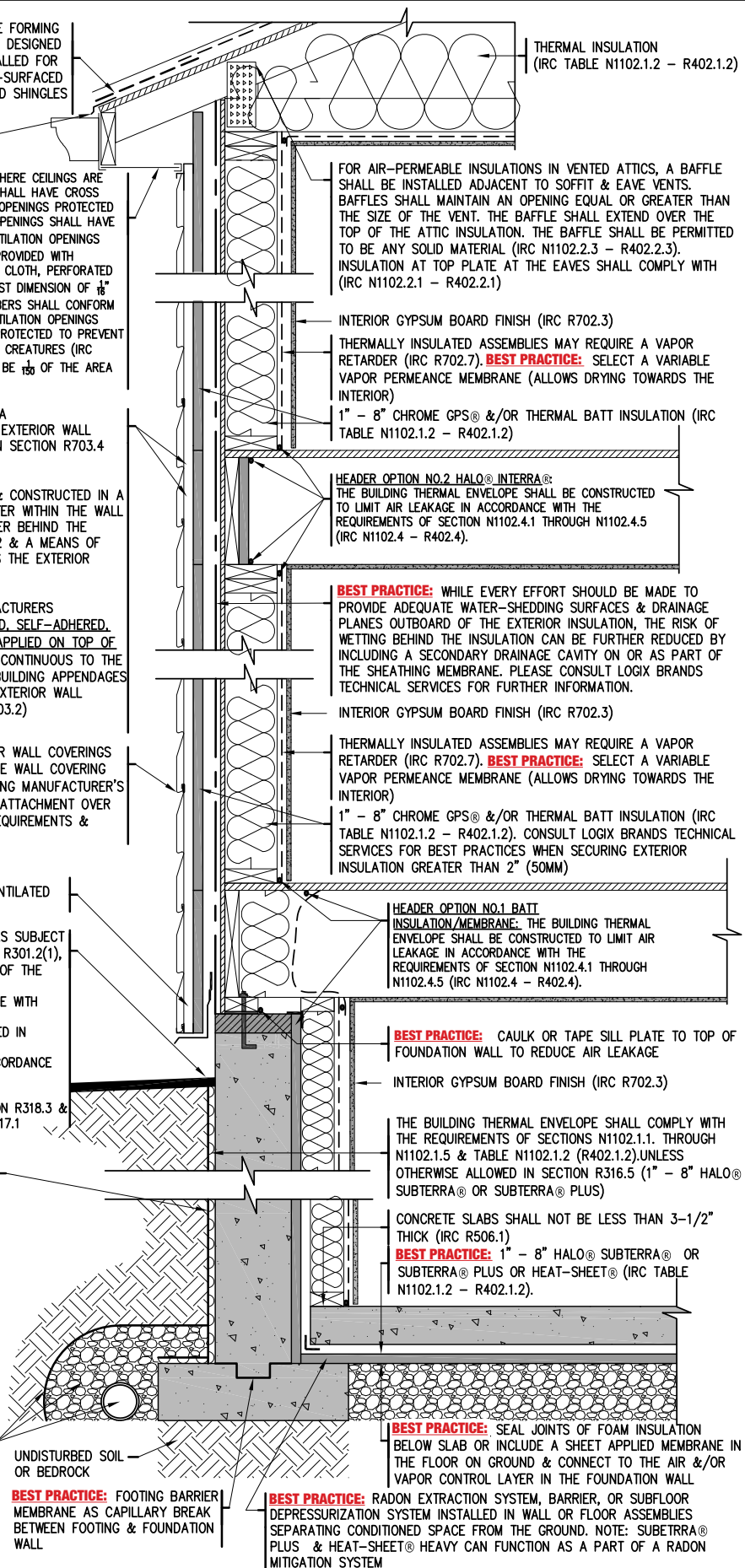
BEST PRACTICE: BUG SCREEN TOP & BOTTOM OF VENTILATED AIR SPACE

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 DAMPROOFING 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. EXCEPT 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: SUBTERRA® PLUS & HEAT-SHEET® HEAVY CAN FUNCTION AS A PART OF A RADON MITIGATION SYSTEM

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)

FLASHING TAPED OR CAULKED TO FRONT FACE OF FOAM INSULATION

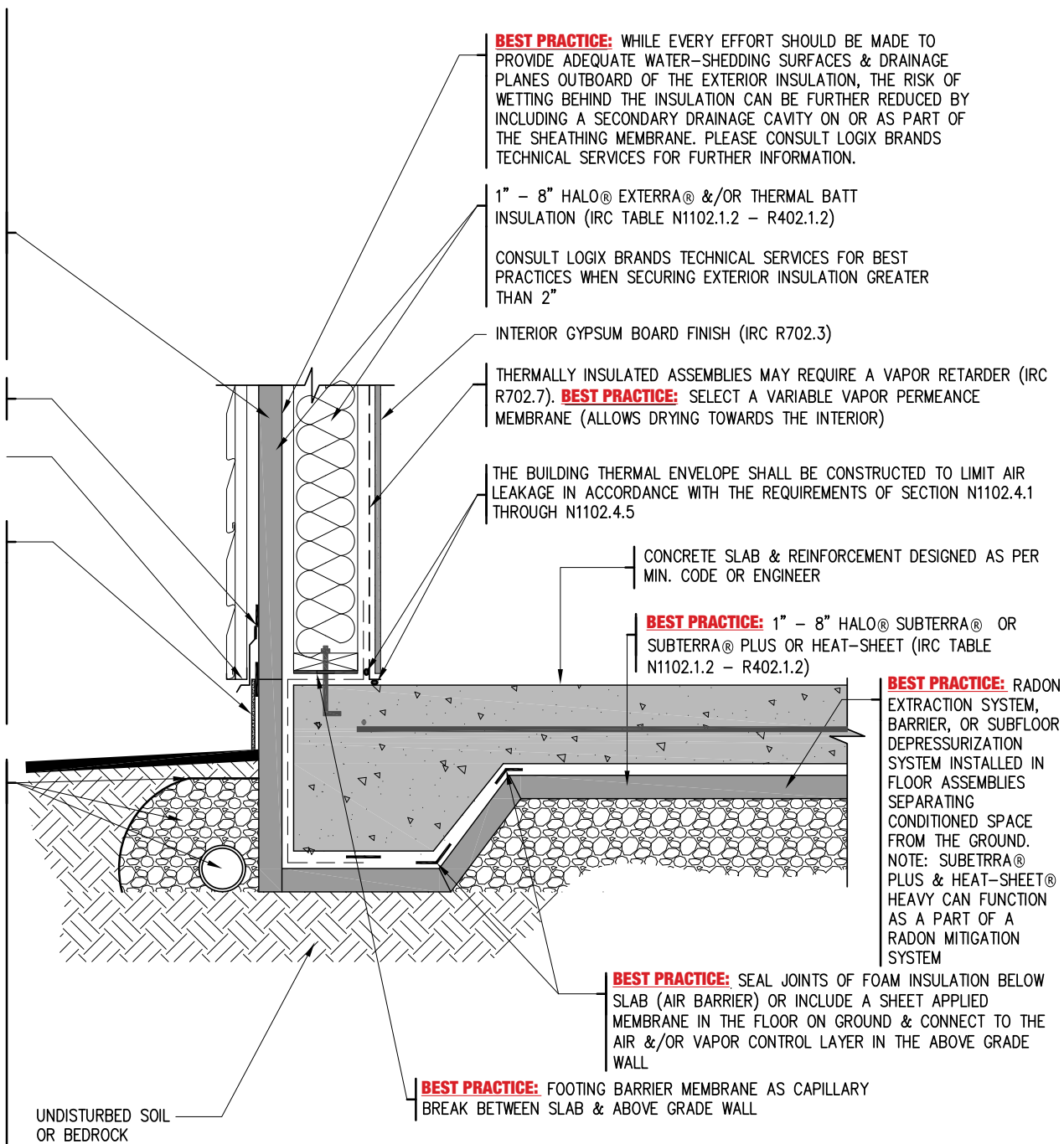
BEST PRACTICE: BUG SCREEN TOP & BOTTOM OF VENTILATED AIR SPACE

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.)

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)



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.

1" - 8" HALO® EXTERRA® &/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"

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)

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

CONCRETE SLAB & REINFORCEMENT DESIGNED AS PER MIN. 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: SUBTERRA® 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

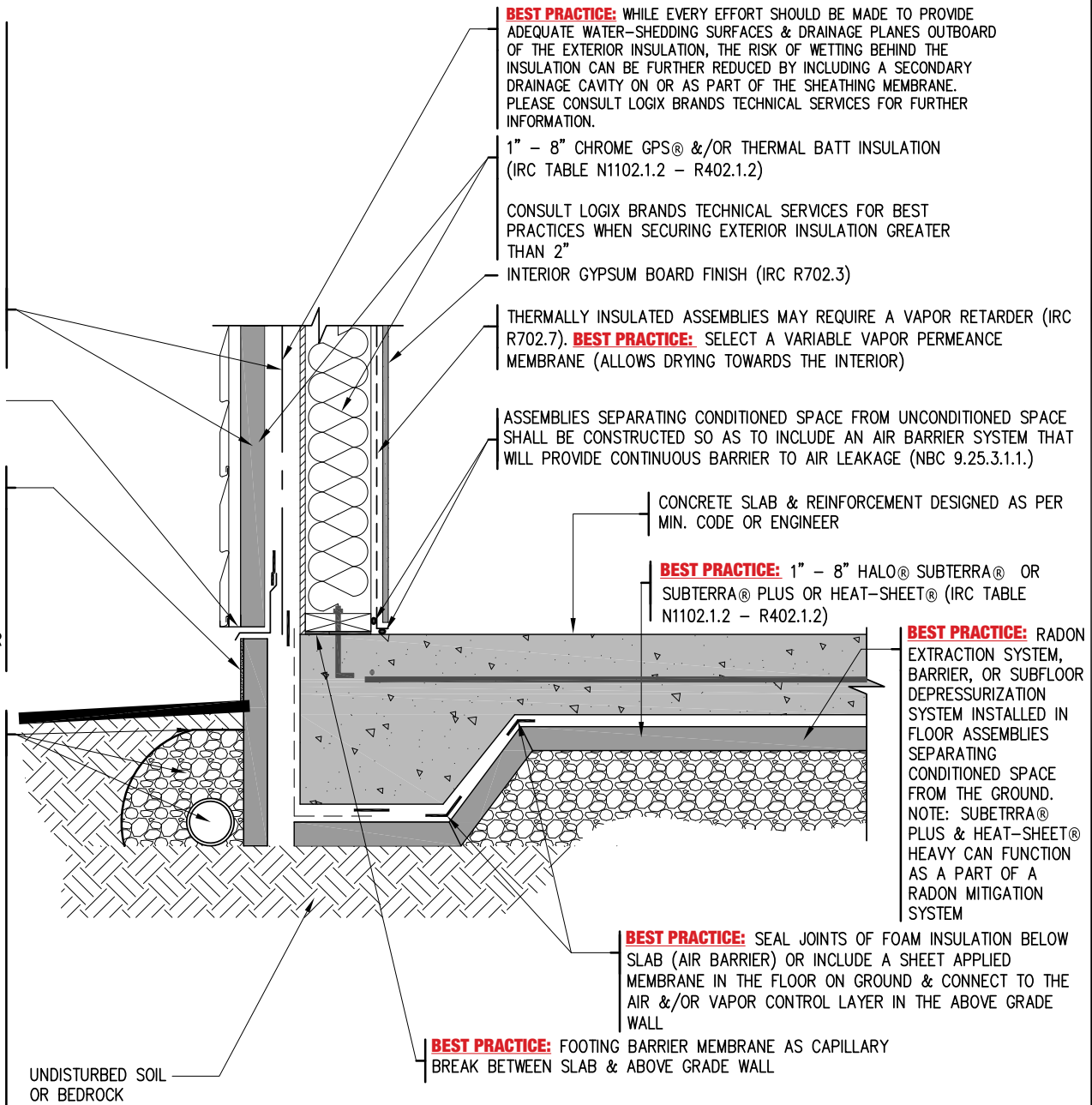
UNDISTURBED SOIL OR BEDROCK

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)

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.)



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.

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"

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)

ASSEMBLIES SEPARATING CONDITIONED SPACE FROM UNCONDITIONED SPACE SHALL BE CONSTRUCTED SO AS TO INCLUDE AN AIR BARRIER SYSTEM THAT WILL PROVIDE CONTINUOUS BARRIER TO AIR LEAKAGE (NBC 9.25.3.1.1.)

CONCRETE SLAB & REINFORCEMENT DESIGNED AS PER MIN. 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: SUBTERRA® 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: 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)

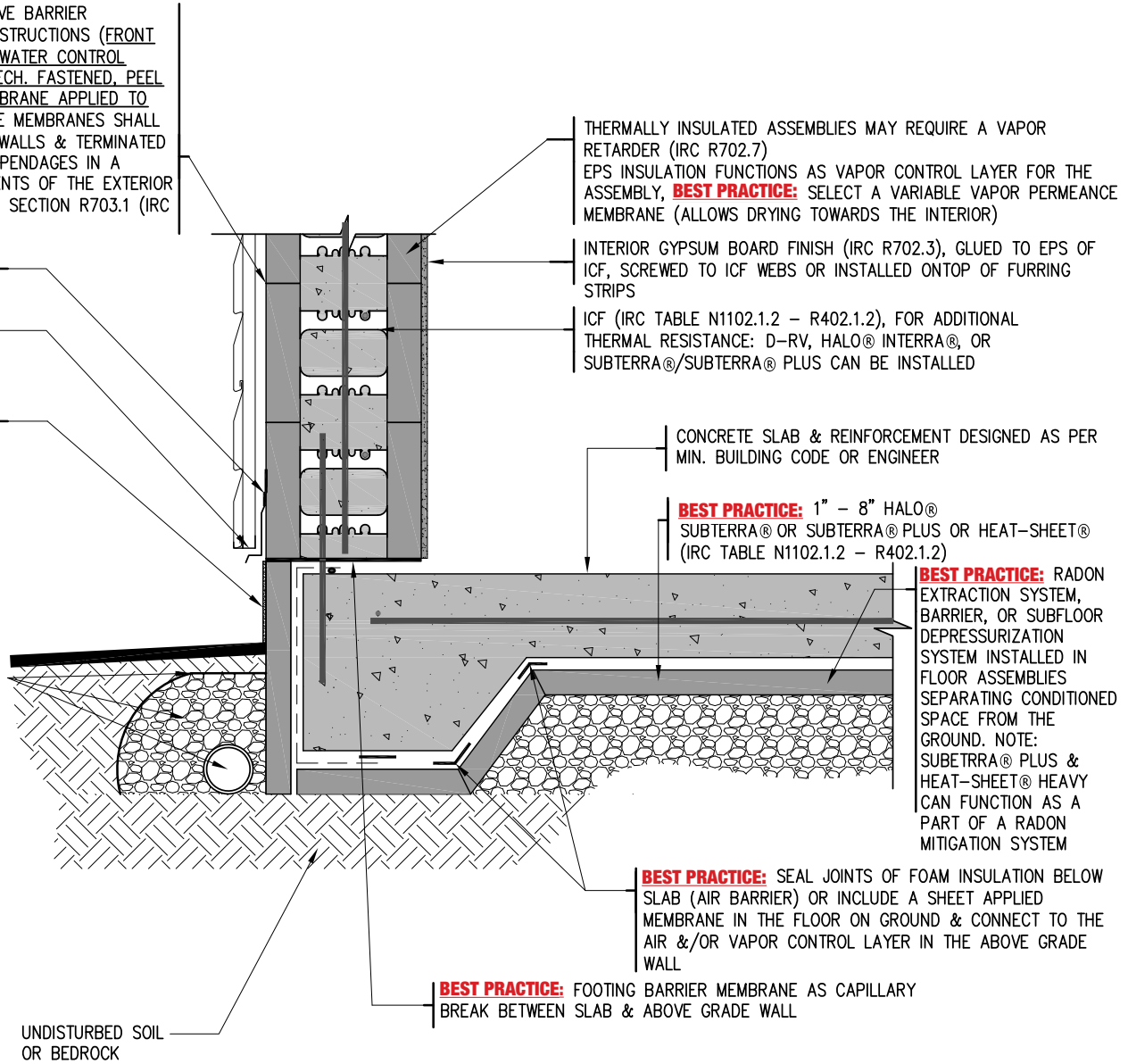
OTHER APPROVED WATER-RESISTIVE BARRIER
 MANUFACTURERS INSTALLATION INSTRUCTIONS (FRONT
 FACE OF ICF FUNCTIONS AS THE WATER CONTROL
 LAYER. ALTERNATIVE DETAIL – MECH. FASTENED, PEEL
 & STICK, OR LIQUID APPLIED MEMBRANE APPLIED TO
 FRONT FACE OF ICF BLOCK). THESE MEMBRANES SHALL
 BE CONTINUOUS TO THE TOP 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 ASSEMBLY
 SEPARATING CONDITIONED
 SPACE FROM THE
 GROUND. NOTE:
 SUBTERRA® 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

BEST PRACTICE: FURRING STRIPS BEHIND CLADDING FOR DRAINAGE & VENTILATION

BEST PRACTICE: HEADER FLASHING W/END DAMS, MIN. 6% SLOPE TAPED OR CAULKED TO EXTERIOR WATER CONTROL LAYER

TAPE OR CAULK WINDOW FLANGE TO ROUGH OPENING AT TOP HORIZONTAL & BOTH VERTICAL FLANGES (LEAVE BOTTOM HORIZONTAL OPEN FOR DRAINAGE)

WRAP ROUGH OPENING OF SILL & MIN. 8" UP VERTICAL JAMB WITH PEEL & STICK OR LIQUID APPLIED WATERPROOF MEMBRANE & EXTEND ON TO THE FACE OF THE EXT. SHEATHING OR WATER CONTROL LAYER MIN. 4"
BEST PRACTICE: COVER ENTIRE ROUGH OPENING

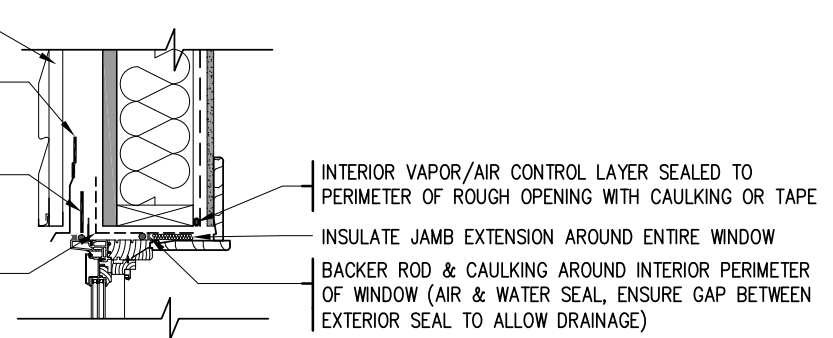
ENSURE WINDOW PANE IN-LINE WITH INSULATION IN WALL ASSEMBLY (OFFSET IN DRAWING)

CAULK WINDOW FRAME TO CLADDING

SHIM WINDOW AS & WHERE REQUIRED BY THE WINDOW MANUFACTURER

SHIM BOTTOM FLANGE TO ALLOW DRAINAGE & DO NOT SEAL BOTTOM FLANGE TO ROUGH OPENING MEMBRANE (OPEN FOR DRAINAGE)

WRAP ROUGH OPENING OF SILL & MIN. 8" UP VERTICAL JAMB WITH PEEL & STICK OR LIQUID APPLIED WATERPROOF MEMBRANE & EXTEND ON TO THE FACE OF THE EXT. SHEATHING OR WATER CONTROL LAYER MIN. 4"
BEST PRACTICE: COVER ENTIRE ROUGH OPENING



INTERIOR VAPOR/AIR CONTROL LAYER SEALED TO PERIMETER OF ROUGH OPENING WITH CAULKING OR TAPE

INSULATE JAMB EXTENSION AROUND ENTIRE WINDOW

BACKER ROD & CAULKING AROUND INTERIOR PERIMETER OF WINDOW (AIR & WATER SEAL, ENSURE GAP BETWEEN EXTERIOR SEAL TO ALLOW DRAINAGE)

BACKER ROD & CAULKING AROUND INTERIOR PERIMETER OF WINDOW (AIR & WATER SEAL, ENSURE GAP BETWEEN EXTERIOR SEAL TO ALLOW DRAINAGE)

INSULATE JAMB EXTENSION AROUND ENTIRE WINDOW

BEST PRACTICE: BACK DAM & SLOPED SILL (MIN. 1%) TOWARDS EXTERIOR

INTERIOR VAPOR/AIR CONTROL LAYER SEALED TO PERIMETER OF ROUGH OPENING WITH CAULKING OR TAPE

BEST PRACTICE: FURRING STRIPS BEHIND CLADDING FOR DRAINAGE & VENTILATION

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:
11-24

Date:
MAY/2024

Pg:
11

Title:
HALO® EXTERRA® WINDOW DETAIL

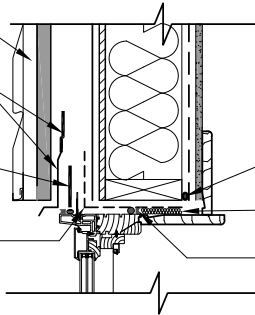
BEST PRACTICE: FURRING STRIPS BEHIND CLADDING FOR DRAINAGE & VENTILATION

BEST PRACTICE: HEADER FLASHING W/END DAMS, MIN. 6% SLOPE TAPED OR CAULKED TO EXTERIOR WATER CONTROL LAYER

TAPE OR CAULK WINDOW FLANGE TO ROUGH OPENING AT TOP HORIZONTAL & BOTH VERTICAL FLANGES (LEAVE BOTTOM HORIZONTAL OPEN FOR DRAINAGE)

WRAP ROUGH OPENING OF SILL & MIN. 8" UP VERTICAL JAMB WITH PEEL & STICK OR LIQUID APPLIED WATERPROOF MEMBRANE & EXTEND ON TO THE FACE OF THE EXT. SHEATHING OR WATER CONTROL LAYER MIN. 4"

BEST PRACTICE: COVER ENTIRE ROUGH OPENING



INTERIOR VAPOR/AIR CONTROL LAYER SEALED TO PERIMETER OF ROUGH OPENING WITH CAULKING OR TAPE

INSULATE JAMB EXTENSION AROUND ENTIRE WINDOW

BACKER ROD & CAULKING AROUND INTERIOR PERIMETER OF WINDOW (AIR & WATER SEAL, ENSURE GAP BETWEEN EXTERIOR SEAL TO ALLOW DRAINAGE)

ENSURE WINDOW PANE IN-LINE WITH INSULATION IN WALL ASSEMBLY (OFFSET IN DRAWING)

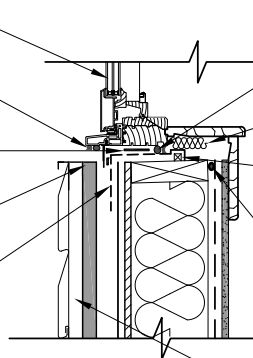
CAULK WINDOW FRAME TO CLADDING

SHIM WINDOW AS & WHERE REQUIRED BY THE WINDOW MANUFACTURER

SHIM BOTTOM FLANGE TO ALLOW DRAINAGE & DO NOT SEAL BOTTOM FLANGE TO ROUGH OPENING MEMBRANE

WRAP ROUGH OPENING OF SILL & MIN. 8" UP VERTICAL JAMB WITH PEEL & STICK OR LIQUID APPLIED WATERPROOF MEMBRANE & EXTEND ON TO THE FACE OF THE EXT. SHEATHING OR WATER CONTROL LAYER MIN. 4"

BEST PRACTICE: COVER ENTIRE ROUGH OPENING



BACKER ROD & CAULKING AROUND INTERIOR PERIMETER OF WINDOW (AIR & WATER SEAL, ENSURE GAP BETWEEN EXTERIOR SEAL TO ALLOW DRAINAGE)

INSULATE JAMB EXTENSION AROUND ENTIRE WINDOW

BEST PRACTICE: BACK DAM & SLOPED SILL (MIN. 1%) TOWARDS EXTERIOR

INTERIOR VAPOR/AIR CONTROL LAYER SEALED TO PERIMETER OF ROUGH OPENING WITH CAULKING OR TAPE

BEST PRACTICE: FURRING STRIPS BEHIND CLADDING FOR DRAINAGE & VENTILATION

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:
12-24

Date:
MAY/2024

Pg:
12

Title:
CHROME GPS® WINDOW DETAIL

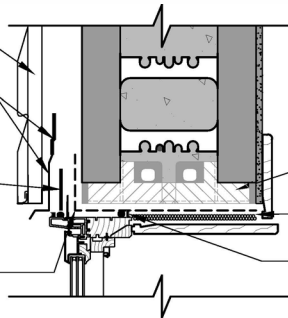
BEST PRACTICE: FURRING STRIPS BEHIND CLADDING FOR DRAINAGE & VENTILATION

BEST PRACTICE: HEADER FLASHING W/END DAMS, MIN. 6% SLOPE TAPED OR CAULKED TO EXTERIOR WATER CONTROL LAYERS

TAPE OR CAULK WINDOW FLANGE TO ROUGH OPENING AT TOP HORIZONTAL & BOTH VERTICAL FLANGES (LEAVE BOTTOM HORIZONTAL OPEN FOR DRAINAGE)

WRAP ROUGH OPENING OF SILL & MIN. 8" UP VERTICAL JAMB WITH PEEL & STICK OR LIQUID APPLIED WATERPROOF MEMBRANE & EXTEND ON TO THE FACE OF THE EXT. SHEATHING WATER CONTROL LAYER MIN. 4"

BEST PRACTICE: COVER ENTIRE ROUGH OPENING



BEST PRACTICE: PRO BUCK® BY LOGIX BRANDS (WINDOW TO WALL THERMAL BREAK)

INSULATE JAMB EXTENSION AROUND ENTIRE WINDOW

BACKER ROD & CAULKING AROUND INTERIOR PERIMETER OF WINDOW (AIR & WATER SEAL, ENSURE GAP BETWEEN EXTERIOR SEAL TO ALLOW DRAINAGE)

ENSURE WINDOW PANE IN-LINE WITH INSULATION IN WALL ASSEMBLY (OFFSET IN DRAWING)

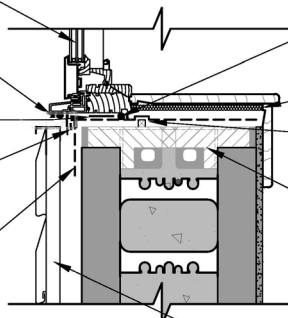
CAULK WINDOW FRAME TO CLADDING)

SHIM WINDOW AS & WHERE REQUIRED BY THE WINDOW MANUFACTURER

SHIM BOTTOM FLANGE OF WINDOW TO ALLOW DRAINAGE & DO NOT SEAL BOTTOM FLANGE TO ROUGH OPENING MEMBRANE (OPEN FOR DRAINAGE)

WRAP ROUGH OPENING OF SILL & MIN. 8" UP VERTICAL JAMB WITH PEEL & STICK OR LIQUID APPLIED WATERPROOF MEMBRANE & EXTEND ON TO THE FACE OF THE EXT. SHEATHING OR WATER CONTROL LAYER MIN. 4"

BEST PRACTICE: COVER ENTIRE ROUGH OPENING



BACKER ROD & CAULKING AROUND INTERIOR PERIMETER OF WINDOW (AIR & WATER SEAL, ENSURE GAP BETWEEN EXTERIOR SEAL TO ALLOW DRAINAGE)

INSULATE JAMB EXTENSION AROUND ENTIRE WINDOW

BEST PRACTICE: BACK DAM & SLOPED SILL (MIN. 1%) TOWARDS EXTERIOR

BEST PRACTICE: PRO BUCK® BY LOGIX BRANDS (WINDOW TO WALL THERMAL BREAK)

BEST PRACTICE: FURRING STRIPS BEHIND CLADDING FOR DRAINAGE & VENTILATION

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

WOOD CARPENTRY FRAME STRUCTURALLY SECURED INTO PARAPET DOUBLE TOP PLATE
SHEET METAL COPING AS REQUIRED ON EACH PROJECT & CONT. SHEET METAL CLEAT SECURED INTO STRUCTURAL WOOD

PARAPET MEMBRANE OVER LAPS RIGID FOAM INSULATION MIN. 6"

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. CONSULT LOCAL BUILDING CODE IF STRUCTURAL SHEATHING IS REQUIRED OR ALTERNATIVE METHODS ARE ACCEPTABLE (INT. GYPSUM, IN-LET BRACING, DIAGONAL WOOD BRACING...ETC.)

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

MIN. 1/2" THICK PLYWOOD SHEATHING

MIN. 3/4" THICK PLYWOOD SHEATHING

SHEET METAL CAPPING

SECUREMENT OF ROOF INSULATION:
ROOF INSULATION MUST BE MECHANICALLY FASTENED BACK TO THE STRUCTURE OR ADHERED WITH AN ADHESIVE TO THE WOOD SHEATHING. MIN. DOUBLE LAYER OF INSULATION & SECOND LAYER LAID PERPENDICULAR TO THE FIRST LAYER.

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

ROOF INSULATION OPTIONS:

- HALO® EXTERRA® WITH PROTECTION BOARD ON TOP
 - SUBTERRA® OR SUBTERRA® PLUS (PROTECTION BOARD OPTIONAL)
 - MIN. 30 PSI (206 KPA) CHROME GPS® PERIMETER EDGES SLOPED
- **ALWAYS SLOPE PERIMETER/ROOF INSULATION TO EDGE/DRAIN**

CAP MEMBRANE
FLASHING MEMBRANE
BASE MEMBRANE

ROOF JOISTS: SOLID WOOD JOISTS, I-JOISTS, FILLED WITH INSULATION AS PER THERMAL INSULATION (IRC TABLE N1102.1.2)

INTERIOR GYPSUM BOARD FINISH (IRC R702.3)

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)

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" HALO® EXTERRA® &/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"

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.

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)

WOOD CARPENTRY FRAME STRUCTURALLY SECURED INTO PARAPET DOUBLE TOP PLATE
SHEET METAL COPING AS REQUIRED ON EACH PROJECT & CONT. SHEET METAL CLEAT SECURED INTO STRUCTURAL WOOD

PARAPET MEMBRANE OVER LAPS RIGID FOAM INSULATION MIN. 6"

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. CONSULT LOCAL BUILDING CODE IF STRUCTURAL SHEATHING IS REQUIRED OR ALTERNATIVE METHODS ARE ACCEPTABLE (INT. GYPSUM, IN-LET BRACING, DIAGONAL WOOD BRACING...ETC.)

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)

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

MIN. 1/2" THICK PLYWOOD SHEATHING

MIN. 3/4" THICK PLYWOOD SHEATHING

SHEET METAL CAPPING

SECUREMENT OF ROOF INSULATION:
ROOF INSULATION MUST BE MECHANICALLY FASTENED BACK TO THE STRUCTURE OR ADHERED WITH AN ADHESIVE TO THE WOOD SHEATHING. MIN. DOUBLE LAYER OF INSULATION & SECOND LAYER LAID PERPENDICULAR TO THE FIRST LAYER.

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

ROOF INSULATION OPTIONS:

- HALO® EXTERRA® WITH PROTECTION BOARD ON TOP
- SUBTERRA® OR SUBTERRA® PLUS (PROTECTION BOARD OPTIONAL)
- MIN. 30 PSI (206 KPA) CHROME GPS® PERIMETER EDGES SLOPED

*ALWAYS SLOPE PERIMETER/ROOF INSULATION TO EDGE/DRAIN

CAP MEMBRANE

FLASHING MEMBRANE

BASE MEMBRANE

ROOF JOISTS: SOLID WOOD JOISTS, I-JOISTS, FILLED WITH INSULATION AS PER THERMAL INSULATION (IRC TABLE N1102.1.2)

INTERIOR GYPSUM BOARD FINISH (IRC R702.3)

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)

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"

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.

WOOD CARPENTRY FRAME STRUCTURALLY SECURED INTO ICF

SHEET METAL COPING AS REQUIRED ON EACH PROJECT & CONT. SHEET METAL CLEAT SECURED INTO STRUCTURAL WOOD

PARAPET MEMBRANE OVER LAPS RIGID FOAM INSULATION MIN. 6"

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)

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

MIN. 1/2" THICK PLYWOOD SHEATHING

MIN. 3/4" THICK PLYWOOD SHEATHING

SHEET METAL CAPPING

SECUREMENT OF ROOF INSULATION:
ROOF INSULATION MUST BE MECHANICALLY FASTENED BACK TO THE STRUCTURE OR ADHERED WITH AN ADHESIVE TO THE WOOD SHEATHING. MIN. DOUBLE LAYER OF INSULATION & SECOND LAYER LAID PERPENDICULAR TO THE FIRST LAYER.

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

ROOF INSULATION OPTIONS:

- HALO® EXTERRA® WITH PROTECTION BOARD ON TOP
- SUBTERRA® OR SUBTERRA® PLUS (PROTECTION BOARD OPTIONAL)
- MIN. 30 PSI (206 KPA) CHROME GPS® PERIMETER EDGES SLOPED

**ALWAYS SLOPE PERIMETER/ROOF INSULATION TO EDGE/DRAIN

CAP MEMBRANE
FLASHING MEMBRANE
BASE MEMBRANE

ROOF JOISTS: SOLID WOOD JOISTS, I-JOISTS, FILLED WITH INSULATION AS PER THERMAL INSULATION (IRC TABLE N1102.1.2)

INTERIOR GYPSUM BOARD FINISH (IRC R702.3)

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)

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

MIN. ICF THERMAL RESISTANCE (IRC TABLE N1102.1.2 - R402.1.2)

FOR ADDITIONAL THERMAL RESISTANCE: D-RV, HALO® INTERRA®, OR SUBTERRA®/SUBTERRA® PLUS CAN BE INSTALLED

SIMPSON STRONGTIE ICF LEDGER CONNECTOR (WEB TIES REMOVED FOR CLARITY)

4 BUILDING SCIENCE CONTROL LAYERS

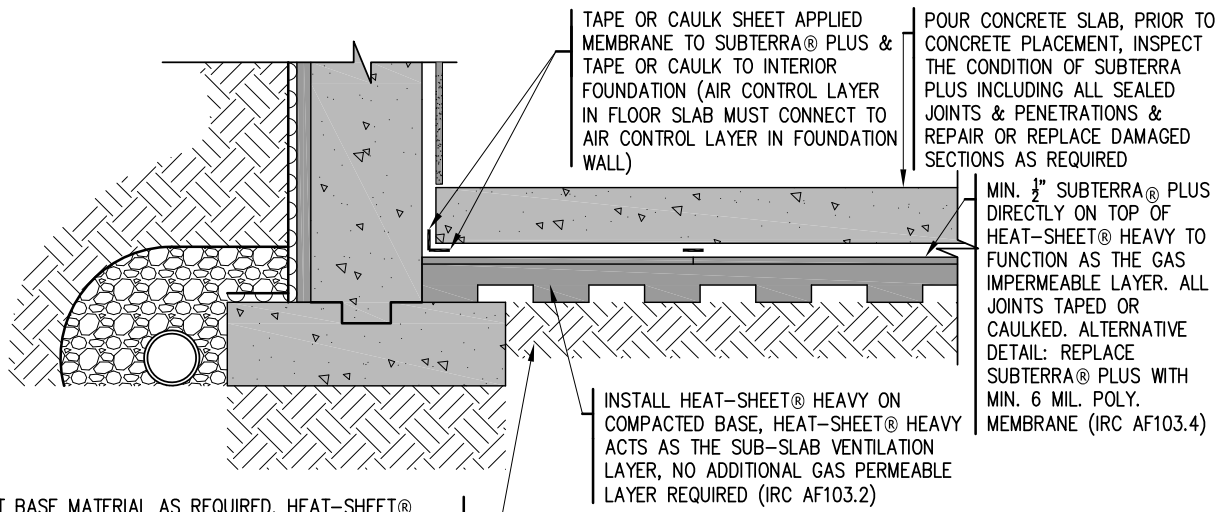
- WATER: NON-VAPOR PERMEABLE ROOF MEMBRANE CONNECTING TO FRONT FACE OF ICF BLOCK
 - AIR: INTERIOR CEILING MEMBRANE CONNECTING TO CONCRETE OF ICF BLOCK
 - THERMAL: HALO® EXTERRA®, SUBTERRA® OR SUBTERRA® PLUS OR CHROME GPS® IN ROOF & INTERIOR & EXTERIOR INSULATION OF ICF BLOCK
 - VAPOR: INTERIOR CEILING MEMBRANE & INTERIOR EPS INSULATION OF ICF BLOCK
- NOTE: BEST PRACTICE SELECT VARIABLE VAPOUR PERMEANCE MEMBRANE IN CEILING ASSEMBLY (ALLOWS DRYING TOWARDS INTERIOR)



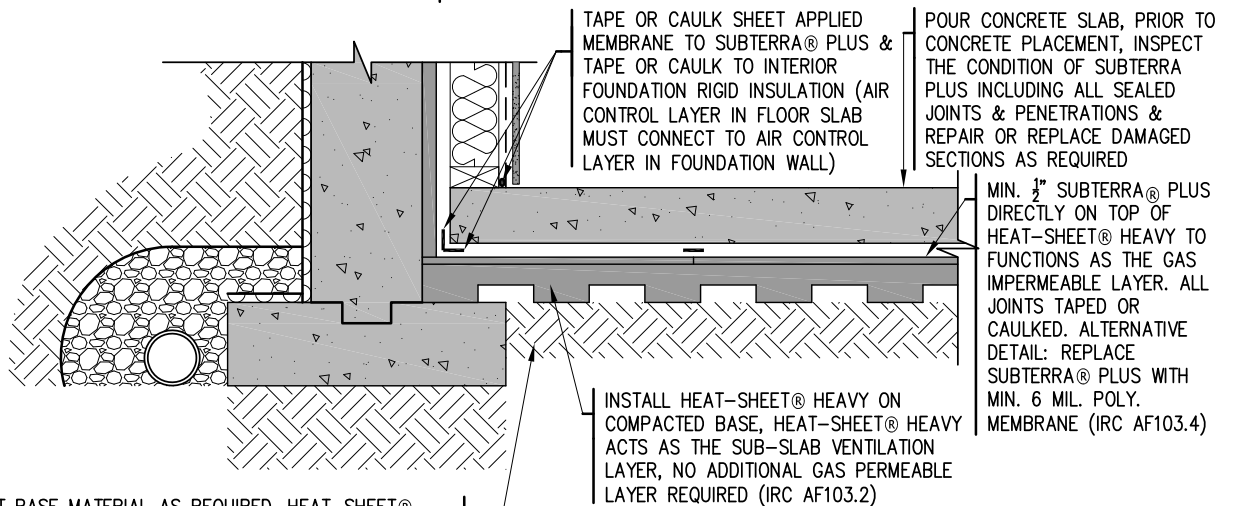
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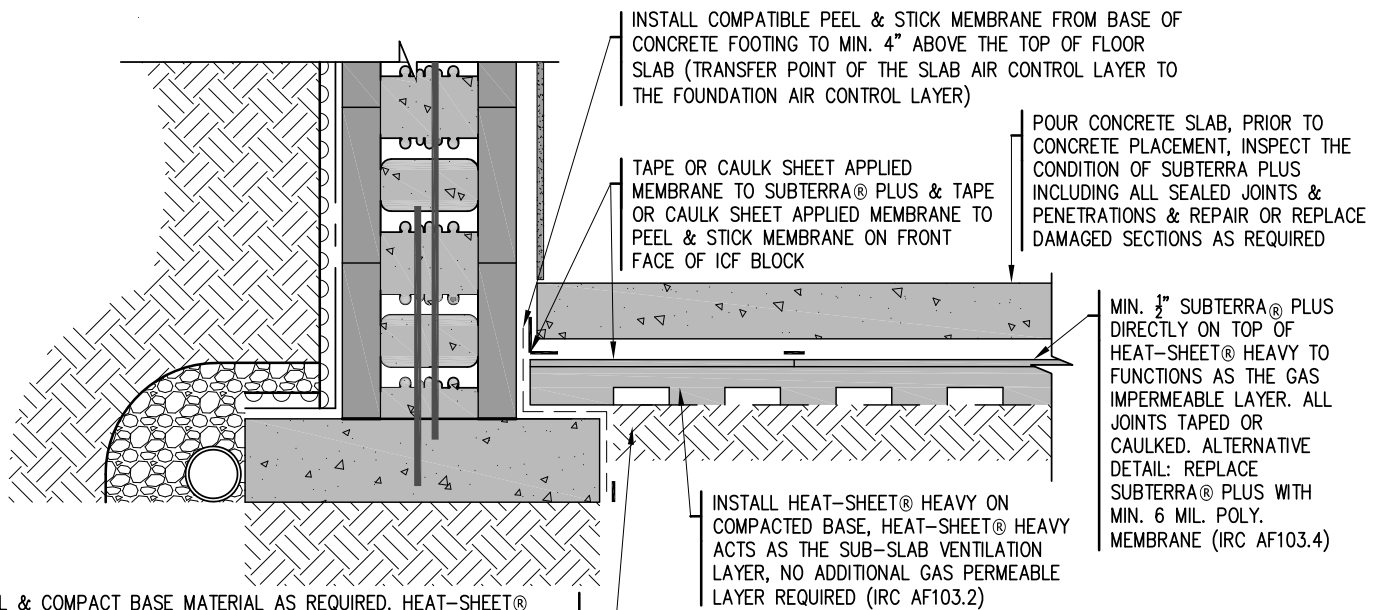
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ICF WALL ASSEMBLY & SELF-ADHERED FLAT ROOF ASSEMBLY



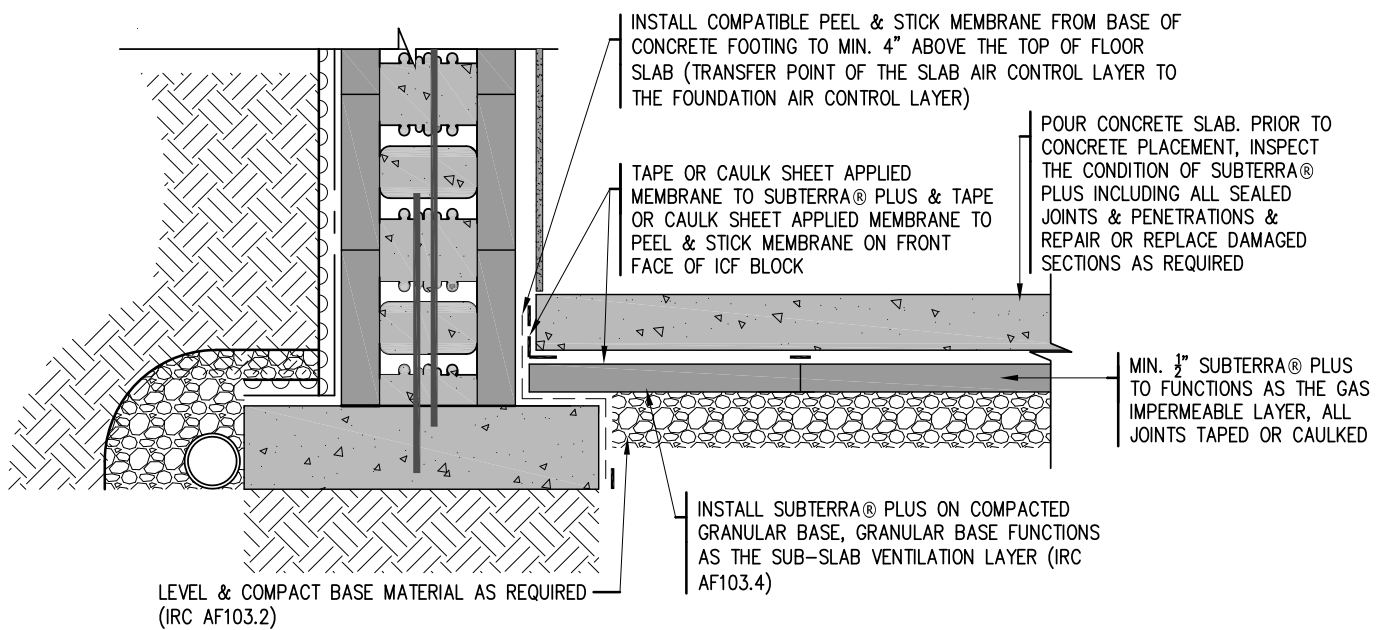
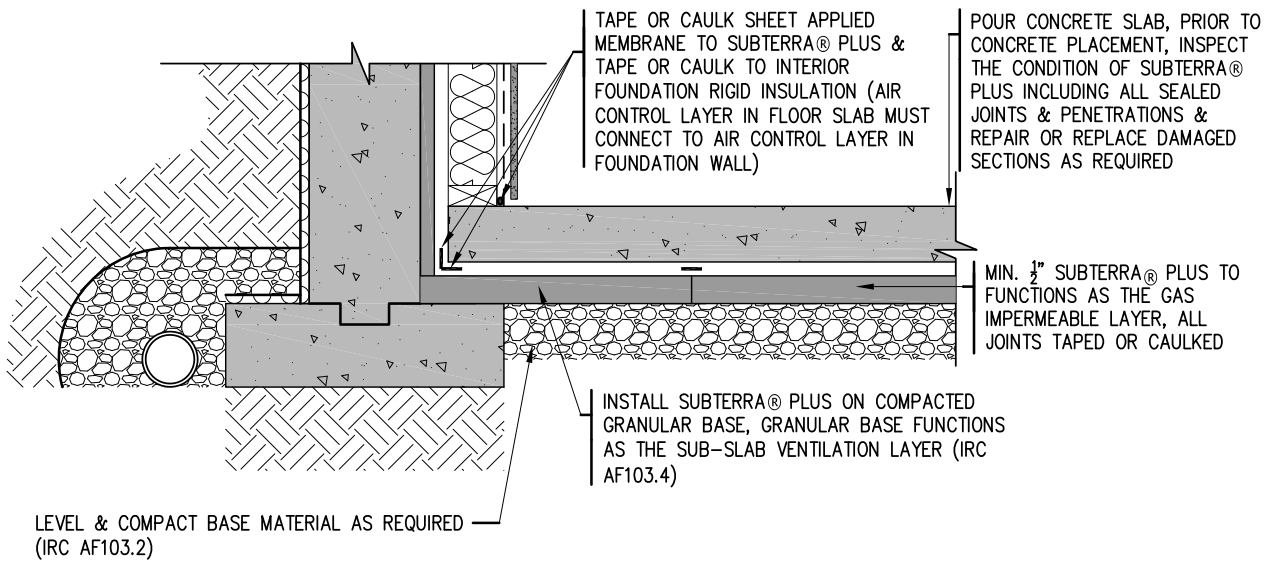
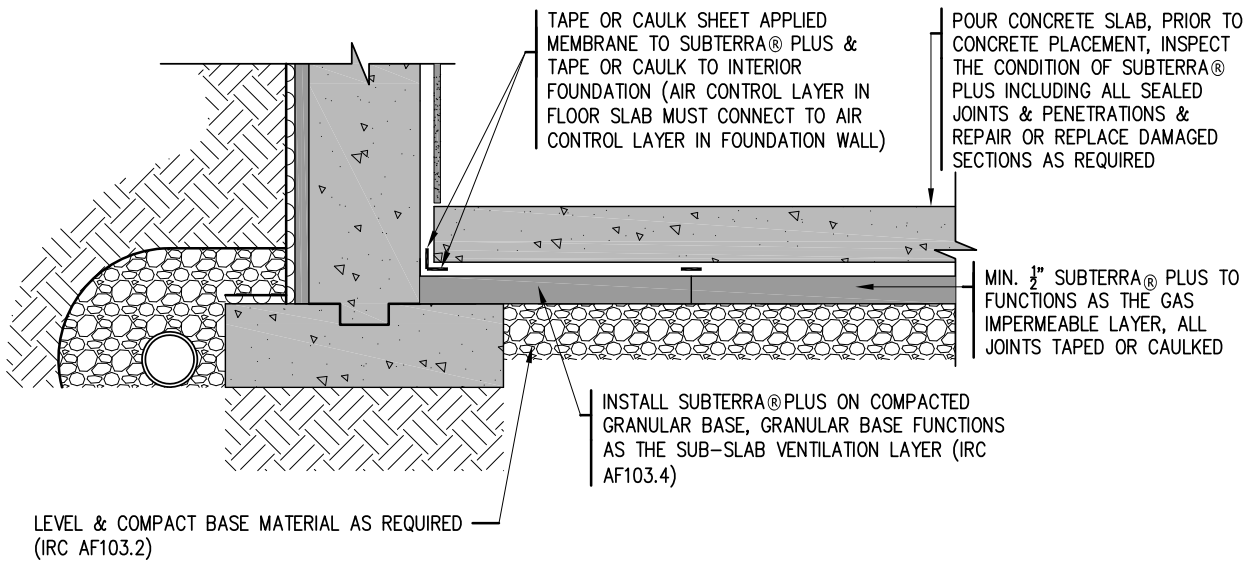
LEVEL & COMPACT BASE MATERIAL AS REQUIRED. HEAT-SHEET® HEAVY CAN BE PLACED DIRECTLY ON UNDISTURBED SOIL, COMPACTED FILL OR SAND



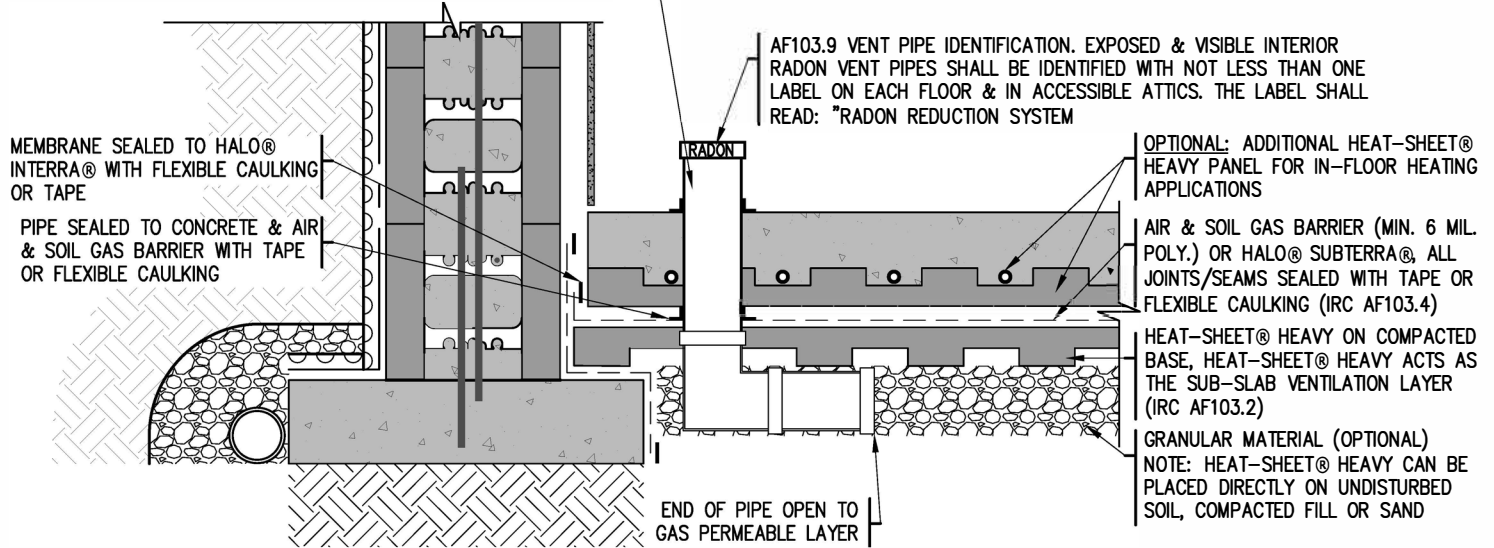
LEVEL & COMPACT BASE MATERIAL AS REQUIRED. HEAT-SHEET® HEAVY CAN BE PLACED DIRECTLY ON UNDISTURBED SOIL, COMPACTED FILL OR SAND



LEVEL & COMPACT BASE MATERIAL AS REQUIRED. HEAT-SHEET® HEAVY CAN BE PLACED DIRECTLY ON UNDISTURBED SOIL, COMPACTED FILL OR SAND



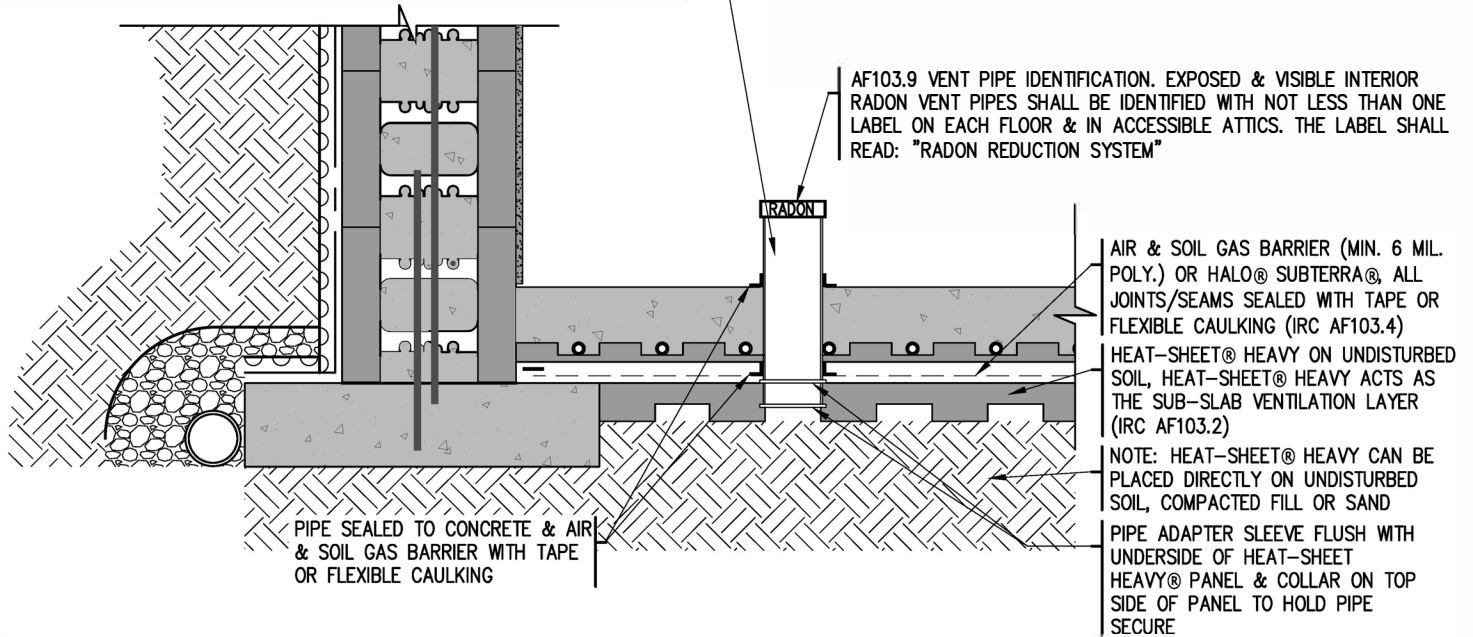
A PLUMBING TEE OR OTHER APPROVED CONNECTION SHALL BE INSERTED HORIZONTALLY BENEATH THE SHEETING & CONNECTED TO A 3" OR 4" DIAMETER FITTING WITH A VERTICAL VENT PIPE INSTALLED THROUGH THE BUILDING FLOORS, & TERMINATE NOT LESS THAN 12" ABOVE THE ROOF IN A LOCATION NOT LESS THAN 10' AWAY FROM ANY WINDOW OR OTHER OPENING INTO THE CONDITIONED SPACES OF THE BUILDING THAT IS LESS THAN 2' BELOW THE EXHAUST POINT, & 10' FROM ANY WINDOW OR OTHER OPENING IN ADJOINING OR ADJACENT BUILDINGS



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 ENCLING THE CRAWL 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.

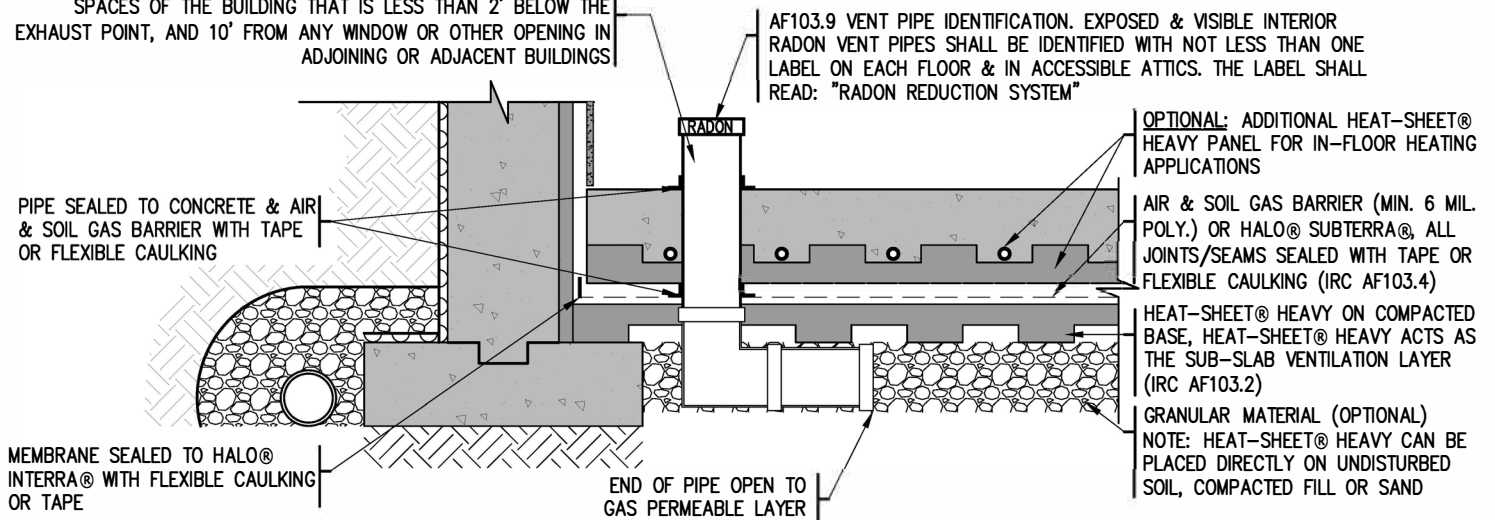
A PLUMBING TEE OR OTHER APPROVED CONNECTION SHALL BE INSERTED HORIZONTALLY BENEATH THE SHEETING & CONNECTED TO A 3" OR 4" DIAMETER FITTING WITH A VERTICAL VENT PIPE INSTALLED THROUGH THE BUILDING FLOORS, & TERMINATE NOT LESS THAN 12" ABOVE THE ROOF IN A LOCATION NOT LESS THAN 10' AWAY FROM ANY WINDOW OR OTHER OPENING INTO THE CONDITIONED SPACES OF THE BUILDING THAT IS LESS THAN 2' BELOW THE EXHAUST POINT, AND 10' FROM ANY WINDOW OR OTHER OPENING IN ADJOINING OR ADJACENT BUILDINGS



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 CRAWL 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.

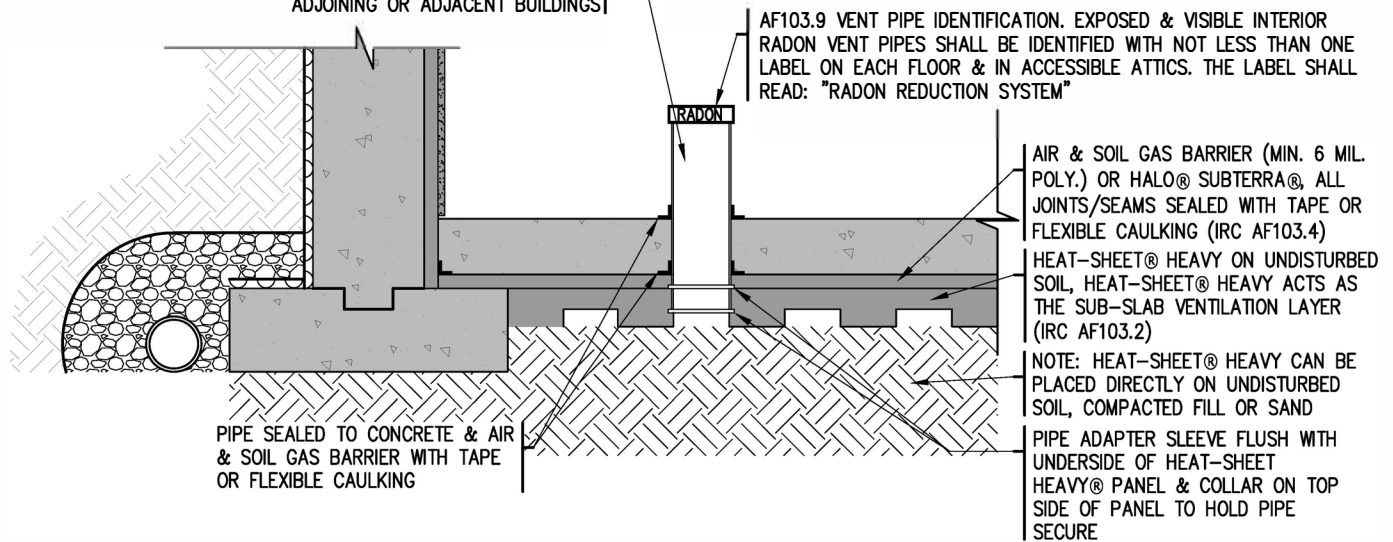
A PLUMBING TEE OR OTHER APPROVED CONNECTION SHALL BE INSERTED HORIZONTALLY BENEATH THE SHEETING & CONNECTED TO A 3" OR 4" DIAMETER FITTING WITH A VERTICAL VENT PIPE INSTALLED THROUGH THE BUILDING FLOORS, & TERMINATE NOT LESS THAN 12" ABOVE THE ROOF IN A LOCATION NOT LESS THAN 10' AWAY FROM ANY WINDOW OR OTHER OPENING INTO THE CONDITIONED SPACES OF THE BUILDING THAT IS LESS THAN 2' BELOW THE EXHAUST POINT, AND 10' FROM ANY WINDOW OR OTHER OPENING IN ADJOINING OR ADJACENT BUILDINGS



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 CRAWL 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.

A PLUMBING TEE OR OTHER APPROVED CONNECTION SHALL BE INSERTED HORIZONTALLY BENEATH THE SHEETING & CONNECTED TO A 3" OR 4" DIAMETER FITTING WITH A VERTICAL VENT PIPE INSTALLED THROUGH THE BUILDING FLOORS, & TERMINATE NOT LESS THAN 12" ABOVE THE ROOF IN A LOCATION NOT LESS THAN 10' AWAY FROM ANY WINDOW OR OTHER OPENING INTO THE CONDITIONED SPACES OF THE BUILDING THAT IS LESS THAN 2' BELOW THE EXHAUST POINT, AND 10' FROM ANY WINDOW OR OTHER OPENING IN ADJOINING OR ADJACENT BUILDINGS



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 CRAWL 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.

A PLUMBING TEE OR OTHER APPROVED CONNECTION SHALL BE INSERTED HORIZONTALLY BENEATH THE SHEETING & CONNECTED TO A 3" OR 4" DIAMETER FITTING WITH A VERTICAL VENT PIPE INSTALLED THROUGH THE BUILDING FLOORS, & TERMINATE NOT LESS THAN 12" ABOVE THE ROOF IN A LOCATION NOT LESS THAN 10' AWAY FROM ANY WINDOW OR OTHER OPENING INTO THE CONDITIONED SPACES OF THE BUILDING THAT IS LESS THAN 2' BELOW THE EXHAUST POINT, AND 10' FROM ANY WINDOW OR OTHER OPENING IN ADJOINING OR ADJACENT BUILDINGS

AF103.9 VENT PIPE IDENTIFICATION. EXPOSED & VISIBLE INTERIOR RADON VENT PIPES SHALL BE IDENTIFIED WITH NOT LESS THAN ONE LABEL ON EACH FLOOR & IN ACCESSIBLE ATTICS. THE LABEL SHALL READ: "RADON REDUCTION SYSTEM"

PIPE SEALED TO CONCRETE & AIR & SOIL GAS BARRIER WITH TAPE OR FLEXIBLE CAULKING

OPTIONAL: ADDITIONAL HEAT-SHEET® HEAVY PANEL FOR IN-FLOOR HEATING APPLICATIONS

AIR & SOIL GAS BARRIER (MIN. 6 MIL. POLY.) OR HALO® SUBTERRA®, ALL JOINTS/SEAMS SEALED WITH TAPE OR FLEXIBLE CAULKING (IRC AF103.4)

HEAT-SHEET® HEAVY ON COMPACTED BASE, HEAT-SHEET® HEAVY ACTS AS THE SUB-SLAB VENTILATION LAYER (IRC AF103.2)

MEMBRANE SEALED TO FOUNDATION WALL WITH FLEXIBLE CAULKING OR TAPE

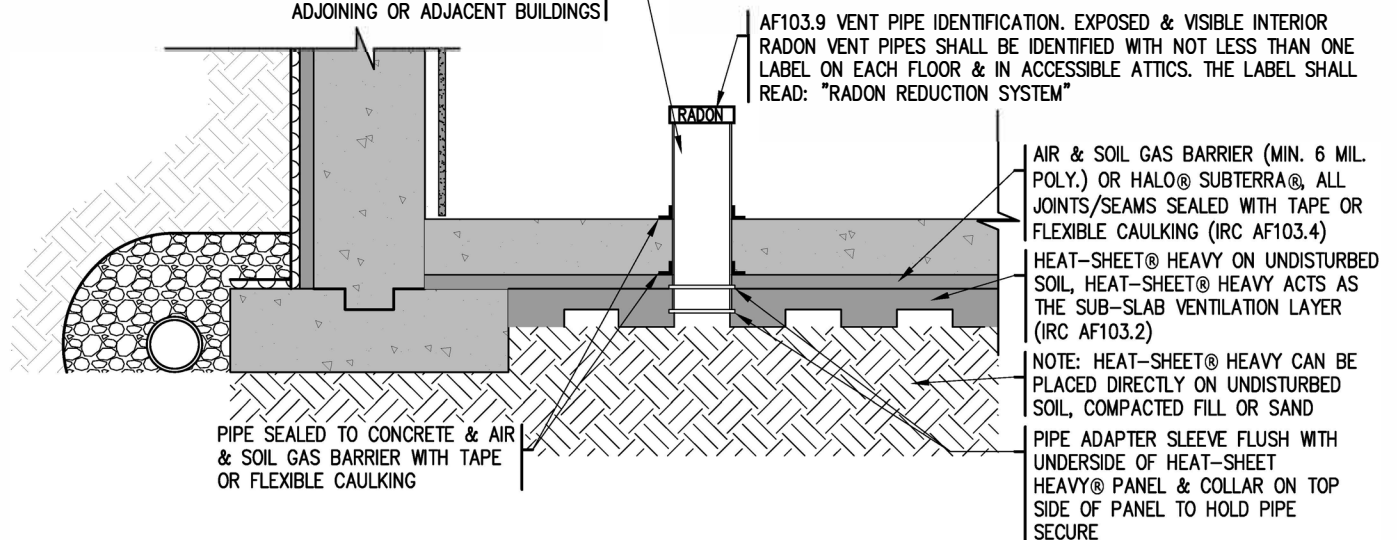
END OF PIPE OPEN TO GAS PERMEABLE LAYER

GRANULAR MATERIAL (OPTIONAL)
NOTE: HEAT-SHEET® HEAVY CAN BE PLACED DIRECTLY ON UNDISTURBED SOIL, COMPACTED FILL OR SAND

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 CRAWL SPACE AREA.
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