NOTES:
1. PROVIDE ADEQUATE MOISTURE CONTROL AND USE GROUND COVER VAPOR RETARDER IN CRAWL SPACE. PANELS MUST BE DRY BEFORE APPLYING FINISH FLOOR.

2. FOR BUILDINGS WITH WOOD OR STEEL FRAMED WALLS, PROVIDE 3/4" TEMPORARY EXPANSION JOINTS WITH SEPARATE FLOOR FRAMING MEMBERS AND DISCONTINUOUS WALL PLATES OVER THE JOINTS, AT INTERVALS THAT LIMIT CONTINUOUS FLOOR AREAS TO 80 FEET MAXIMUM IN LENGTH OR WIDTH, TO ALLOW FOR ACCUMULATED EXPANSION DURING CONSTRUCTION IN WET WEATHER CONDITIONS.

APA GLUED FLOOR SYSTEM
1/8" SPACING IS RECOMMENDED
AT ALL EDGE AND END JOINTS
UNLESS OTHERWISE INDICATED BY
PANEL MANUFACTURER

APA RATED SHEATHING

PANEL CLIP OR TONGUE-AND-GROOVE
EDGES IF REQUIRED

STAGGER END JOINTS
(OPTIONAL)

STRENGTH AXIS

ASPHALT OR WOOD SHINGLES
OR SHAKES. FOLLOW
ROOFING MANUFACTURER’S
RECOMMENDATIONS FOR
ROOFING FELT.

PROTECT EDGES OF EXPOSURE 1
PANELS AGAINST EXPOSURE TO
WEATHER, OR USE EXTERIOR
PANEL STARTER STRIP

NOTES:
1. COVER SHEATHING AS SOON AS POSSIBLE WITH ROOFING FELT FOR EXTRA PROTECTION AGAINST EXCESSIVE
MOISTURE PRIOR TO ROOFING APPLICATION.
2. FOR PITCHED ROOFS, PLACE SCREENED SURFACE OR SIDE WITH SKID-RESISTANT COATING UP IF OSB PANELS
ARE USED. KEEP ROOF SURFACE FREE OF DIRT, SAWDUST AND DEBRIS, AND WEAR SKID-RESISTANT SHOES
WHEN INSTALLING ROOF SHEATHING.
3. FOR BUILDINGS WITH CONVENTIONALLY FRAMED ROOFS (TRUSSES OR RAFTERS), LIMIT THE LENGTH OF
CONTINUOUS SECTIONS OF ROOF AREA TO 80 FEET MAXIMUM DURING CONSTRUCTION TO ALLOW FOR
ACCUMULATED EXPANSION IN WET WEATHER CONDITIONS. OMIT ROOF SHEATHING PANELS IN EACH COURSE OF
SHEATHING BETWEEN SECTIONS AND INSTALL "FILL IN" PANELS LATER TO COMPLETE ROOF DECK INSTALLATION
PRIOR TO APPLYING ROOFING.

APA PANEL ROOF SHEATHING
APA PANEL STAIR TREADS

NOTE:
2. All 8d common nails shall be 0.131" x 2 1/2".

EWG-3

APA PANEL TREAD (STRENGTH AXIS EITHER DIRECTION)

FINISH FLOORING MATERIAL

19/32 MINIMUM PERFORMANCE CATEGORY APA PANEL RISER (ANY GRADE)

8d COMMON 12" O.C. ALONG LEADING EDGE ADD TWO NAILS AT EACH END.

DETAIL A (MAY BE USED FOR PLYWOOD TREADS AND 1-1/8 PERFORMANCE CATEGORY COMPOSITE PANEL OR OSB TREADS)

RISER

TREAD

3/8" MIN.

DETAIL B (PREFERRED)

RISER

TREAD

LUMBER BLOCK

EWG-3
1. PROVIDE ADEQUATE MOISTURE CONTROL AND USE GROUND COVER VAPOR RETARDER IN CRAWL SPACE. SUBFLOOR MUST BE DRY BEFORE APPLYING SUBSEQUENT FLOOR.

2. FOR BUILDINGS WITH WOOD OR STEEL FRAMED WALLS, PROVIDE 3/4" TEMPORARY EXPANSION JOINTS WITH SEPARATE FLOOR FRAMING MEMBERS AND DISCONTINUOUS WALL PLATES OVER THE JOINTS, AT INTERVALS THAT LIMIT CONTINUOUS FLOOR AREAS TO 80 FEET MAXIMUM IN LENGTH OR WIDTH, TO ALLOW FOR ACCUMULATED EXPANSION DURING CONSTRUCTION IN WET WEATHER CONDITIONS.
1/8" SPACING IS RECOMMENDED AT ALL EDGE AND END JOINTS UNLESS OTHERWISE INDICATED BY PANEL MANUFACTURER.

BUILDING PAPER OR OTHER CODE-RECOGNIZED WEATHER-RESISTIVE BARRIER

APA RATED SHEATHING APPLIED WITH STRENGTH AXIS ACROSS STUDS

APA RATED SHEATHING APPLIED WITH STRENGTH AXIS PARALLEL TO STUDS

FILLER STRIP IF REQUIRED

SIDING

6" MINIMUM CLEARANCE, SIDING TO GRADE

NOTE TO DESIGNER:
1. CHECK LOCAL BUILDING CODES FOR HORIZONTAL BLOCKING REQUIREMENTS BETWEEN STUDS FOR BRACED OR ENGINEERED SHEAR WALL SEGMENTS.

APA PANEL WALL SHEATHING
APA RATED SHEATHING SHALL MEET IRC REQUIREMENTS FOR WALL BRACING.

BUILDING PAPER OR OTHER CODE-RECOGNIZED WEATHER-RESISTIVE BARRIER REQUIRED.

APA RATED SIDING (LAP SIDING), MAXIMUM WIDTH 12". MINIMUM HEALD LAP 1".

6" MINIMUM CLEARANCE, SIDING TO GRADE.

SIDING JOINTS, IF STAGGERED, MAY OCCUR AWAY FROM STUDS WITH NAILABLE SHEATHING.

LEAVE 1/8" SPACING AND CAULK VERTICAL JOINTS, UNLESS OTHERWISE RECOMMENDED BY SIDING MANUFACTURER.

1-1/2"-WIDE STARTER STRIP, THICKNESS TO MATCH LAP SIDING.
BUILDING PAPER OR OTHER
CODE-RECOGNIZED
WEATHER-RESISTIVE
BARRIER REQUIRED

APA RATED SIDING PANELS
APPLIED OVER SHEATHING

6” MIN. CLEARANCE, SIDING
TO GRADE

1/8” SPACING IS RECOMMENDED
AT ALL EDGE AND END JOINTS
UNLESS OTHERWISE INDICATED BY
PANEL MANUFACTURER

PANEL SIDING OR APA RATED
SHEATHING MEETS CODE
REQUIREMENT FOR WALL BRACING

APA RATED PANEL SIDING OVER WSP
NOTES:
1. PROVIDE ADEQUATE MOISTURE CONTROL AND USE GROUND COVER VAPOR RETARDER IN CRAWL SPACE. PANELS MUST BE DRY BEFORE APPLYING FINISH FLOOR.
2. FOR BUILDING WITH WOOD OR STEEL FRAMED WALLS, PROVIDE ¾" TEMPORARY EXPANSION JOINTS WITH SEPARATE FLOOR FRAMING MEMBERS AND DISCONTINUOUS WALL PLATES OVER THE JOINTS, AT INTERVALS THAT LIMIT CONTINUOUS FLOOR AREAS TO 80 FEET MAXIMUM IN LENGTH OR WIDTH, TO ALLOW FOR ACCUMULATED EXPANSION DURING CONSTRUCTION IN WET WEATHER CONDITIONS.
NOTES:
1. PROVIDE ADEQUATE MOISTURE CONTROL AND USE GROUND COVER VAPOUR RETARDER IN CRAWL SPACE. PANELS MUST BE DRY BEFORE APPLYING FINISH FLOOR.
2. FOR BUILDINGS WITH WOOD OR STEEL FRAMED WALLS, PROVIDE 3/4" TEMPORARY EXPANSION JOINTS WITH SEPARATE FLOOR FRAMING MEMBERS AND DISCONTINUOUS WALL PLATES OVER THE JOINTS, AT INTERVALS THAT LIMIT CONTINUOUS FLOOR AREAS TO 80 FEET MAXIMUM IN LENGTH OR WIDTH, TO ALLOW FOR ACCUMULATED EXPANSION DURING CONSTRUCTION IN WET WEATHER CONDITIONS.
APA RATED
STURD-I-FLOOR 48 O.C.

TONGUE AND GROOVE JOINTS
(OR BLOCK EDGES)

4x GIRDER (OR DOUBLE 2x
CONNECTED TOGETHER)

4x4 POST

1/8" SPACING IS RECOMMENDED AT
ALL EDGE AND END JOINTS UNLESS
OTHERWISE INDICATED BY PANEL
MANUFACTURER

NOTES:
1. PROVIDE ADEQUATE MOISTURE CONTROL AND USE GROUND COVER VAPOR RATARDER IN CRAWL SPACE. PANELS
MUST BE DRY BEFORE APPLYING FINISH FLOOR.
2. FOR BUILDING WITH WOOD OR STEEL FRAMED WALLS, PROVIDE 3/4" TEMPORARY EXPANSION JOINTS WITH
SEPARATE FLOOR FRAMING MEMBERS AND DISCONTINUOUS WALL PLATES OVER THE JOINTS, AT INTERVALS THAT
LIMIT CONTINUOUS FLOOR AREAS TO 80 FEET MAXIMUM IN LENGTH OR WIDTH, TO ALLOW FOR ACCUMULATED
EXPANSION DURING CONSTRUCTION IN WET WEATHER CONDITIONS.

APA RATED SIF 48

EWG-10
BUILDING PAPER OR OTHER
CODE-RECOGNIZED
WEATHER-RESISTIVE BARRIER

MAXIMUM STUD SPACING
PER APA SPAN RATING

BATTENS AT 4" OR 8" O.C. TO
CONCEAL BUTT JOINTS AT
PANEL ENDS. NAILS THROUGH
BATTENS MUST PENE TRATE
STUDS AT LEAST 1".

PANEL SIDING SHALL MEET IRC
REQUIREMENTS FOR WALL BRACING

SEAL PANEL EDGES

2x4 BLOCKING AT
HORIZONTAL JOINTS

APA RATED SIDING PANELS
(NAILING AS REQUIRED FOR
VERTICAL INSTALLATION)

1/8" SPACING IS
RECOMMENDED AT ALL EDGE
AND END JOINTS UNLESS
OTHERWISE INDICATED BY
PANEL MANUFACTURER

6" MINIMUM CLEARANCE,
SIDING TO GRADE

APA STURD-I—WALL WITH H. PANEL SIDING
Building paper or code-recognized weather-resistive barrier required behind siding.

Apa rated siding panels, all edges supported by framing or blocking. Panel siding shall meet irc requirements for wall bracing.

1/8" spacing is recommended at all edge and end joints unless otherwise indicated by panel manufacturer.

6" minimum clearance, siding to grade.
BRICK VENEER OR MASONRY

BUILDING PAPER OR OTHER CODE-RECOGNIZED WEATHER-RESISTIVE BARRIER REQUIRED

"WEEP HOLES" IN BOTTOM COURSE EVERY 24"

1" AIR SPACE

EXTEND FLASHING UP BEHIND WEATHER-RESISTIVE BARRIER AT LEAST 6"

HOLD PANEL EDGE 1/2" ABOVE BASE FLASHING

APA RATED SHEATHING

EWG-14 BRICK VENEER OVER WSP
NOTE:
LEAVE 1/8" SPACE AT ALL PANEL END AND EDGE JOINTS. SUPPORT ALL PANEL EDGES.
APA RATED LAP SIDING OVER WOOD STRUCTURAL PANEL SHEATHING AND ADVANCED FRAMING

A

1/2" GYPSUM WALLBOARD
VAPOR RETARDER
CAVITY INSULATION
WOOD STUDS (2x6 AT 24"O.C.
WITH R19 OR R21 INSULATION)
APA RATED SHEATHING,
3/8 PERFORMANCE
CATEGORY OR GREATER
BUILDING PAPER OR OTHER
CODE-APPROVED
WEATHER-RESISTIVE BARRIER
APA RATED SIDING
(LAP SIDING), MAXIMUM
WIDTH 12", MINIMUM
HEADLAP 1"

OUTSIDE SURFACE (15 MPH WIND)  
APA RATED SHEATHING  
0.17  
0.43-0.78

INSULATION OPTION  AVERAGE U  MINIMUM EFFECTIVE R=1/U
A  0.061  16.27
B  0.060  16.70

APA RATED SIDING OVER RIGID FOAM INSULATION SHEATHING AND CONVENTIONAL FRAMING

B

1/2" GYPSUM WALLBOARD
VAPOR RETARDER
CAVITY INSULATION
WOOD STUDS (2x4 AT 16"O.C.)
RIGID FOAM INSULATION
(R4 MIN.) 1 INCH OR LESS
IN THICKNESS
APA RATED SIDING
(3/8 PERFORMANCE
CATEGORY OR GREATER). PANEL
SIDING SHALL MEET
IRC REQUIREMENTS
FOR WALL BRACING

OUTSIDE SURFACE (15 MPH WIND)  
APA RATED SIDING  
0.17  
0.43-0.78
RIGID FOAM INSULATION  
4.00 (MIN.)

CAVITY INSULATION:
OPTION C - R13  
13.00
OPTION D - R15  
15.00
OPTION E - R20  
20.00
OPTION F - R21  
21.00
1/2" GYPSUM WALLBOARD  
0.45
INSIDE SURFACE (STILL AIR)  
0.68

INSULATION OPTION  AVERAGE U  MINIMUM EFFECTIVE R=1/U
C  0.065  15.44
D  0.061  16.42
E  0.048  20.94
F  0.047  21.45

NOTE:
1. WHERE FOAM SHEATHING AND WOOD STRUCTURAL PANEL SIDING ARE USED AT COLD SIDE OF WALL, USE A 4-MIL POLYETHYLENE VAPOR RETARDER OR FOIL-BACKED GYPSUM WALLBOARD ON THE WARM SIDE OF WALL.
2. AVERAGE U VALUES INCLUDE ADJUSTMENT FOR 25% FRAMING AREA WITH STUDS SPACED 16"O.C. WHEN STUDS ARE SPACED 24"O.C. (22% FRAMING AREA), AVERAGE U VALUES ARE SLIGHTLY LOWER AND CORRESPONDING R-VALUES ARE HIGHER. AVERAGE U VALUE IS BASED ON R-VALUE AT FRAMING OF 4.38 FOR 2x4 WOOD STUDS AND 6.88 FOR 2x6 WOOD STUDS.
3. CONSULT RIGID FOAM MANUFACTURER FOR R-VALUE AND PANEL PERMEABILITY VALUES.

NOTES TO DESIGNER:
1. SEE APA TECHNICAL TOPICS: WOOD MOISTURE CONTENT AND THE IMPORTANCE OF DRYING IN WOOD BUILDING SYSTEMS, FORM TT-111
2. SEE APA TECHNICAL NOTE: APA RATED SIDING PANELS OVER RIGID FOAM INSULATION SHEATHING, FORM C465
HOT ASPHALT

ARMA ROOF COVERING (BUILT UP OF MODIFIED BITUMEN)

2" MIN. OVERLAP

3" PLATE FASTENERS AT 9" O.C. MAX THROUGH CENTER OF MIN. 2" WIDE BASE-SHEET LAPS

ARMA BASE SHEET

3 EVENLY SPACED ROWS OF 3" PLATE FASTENERS AT 9" O.C. BETWEEN BASE-SHEET LAPS

WOOD STRUCTURAL PANEL
ARMA ROOF COVERING (BUILT UP OR MODIFIED BITUMEN)

HOT ASPHALT

MIN. 1/2" FIBERBOARD COVER BOARD

FOAM INSULATION (12" MAX)

WOOD STRUCTURAL PANEL

3" PLATE FASTENERS SPACED 14" O.C. MAX. (1.45 SF/FASTENERS)
HOT ASPHALT

ARMA ROOF COVERING (BUILT UP OR MODIFIED BITUMEN)

3" PLATE FASTENERS SPACED 14" O.C. MAX (1.45 SF/FASTENERS)

FOAM INSULATION (1-1/2" MIN)

MIN 1/2" FIBERBOARD COVER BOARD

WOOD STRUCTURAL PANEL

EWG-20 FM CLASS 1-90
BUILT-UP ROOFING

STRUCTURAL GLUED LAMINATED TIMBER (GLULAM) OR SOLID TIMBER BEAMS (4x6 MINIMUM)

STRENGTH AXIS

PERFORMANCE CATEGORY 1-1/8 APA T&G WOOD STRUCTURAL PANELS (EXPOSURE 1)
APA RATED STURD-I-FLOOR 48” O.C. TYPICAL
NOTE TO DESIGNER:
1. FOR MULTISTORY BUILDINGS, WHEN CONVENTIONAL LUMBER FLOOR JOISTS AND RIM BOARDS ARE USED, MAKE PROVISIONS AT HORIZONTAL JOINTS FOR SHRINKAGE OF FRAMING, ESPECIALLY WHEN APPLYING SIDING DIRECT TO STUDS.

**Diagram Annotations:**
- FLOOR PLATE
- SIDING
- RIM BOARD
- DOUBLE TOP PLATE
- SIDING (4’x8’)
- ALUM. OR GALV. FLASHING
- UP TO 1/2" GAP WHEN USING CONVENTIONAL LUMBER FLOOR & RIM JOISTS
- 2x10 BAND BOARD
- FILLER
- SIDING (4’x8’)
- SIDING
- BAND BOARD TRIM
- GALV. "Z" FLASHING
- GALV. SPIKES OR BOLTS (COUNTERSINK)
- RIM BOARD
- DOUBLE TOP PLATE
- PLASTIC PIPE SPACER (2” TO 6” DIA.)

**Textual Notes:**
- JOG EXTERIOR STUD LINE
- BAND BOARD OVER PANEL FILLER
- BAND BOARD IN RELIEF

**Title:** HORIZTONAL BELTLINE JOINTS
**Horizontal Wall Joints**

1. **Butt & Flash**
   - Siding
   - Gap 1/8" min.
   - Blocking (flatwise or edgewise)
   - Flashing (galv. or aluminum)

2. **Lap**
   - Siding
   - Blocking (flatwise or edgewise)
   - Lap top panel over bottom panel

3. **Shiplap**
   - Siding
   - Blocking (flatwise or edgewise)
   - Shiplap joint
RESILIENT TILE OR SHEET FLOORING, CARPET OR NONSTRUCTURAL FLOORING

STAGGER END JOIST BY AT LEAST ONE JOIST SPACING IN UNDERLAYMENT PANELS (OPTIONAL UNDER CARPET AND PAD) FOR MAXIMUM STIFFNESS AND STRENGTH

MIN. 2" OFFSET FROM SUBFLOOR EDGE JOINTS

JOINT STAGGER OPTIONAL FOR SUBFLOOR PANELS

SUBFLOOR AND UNDERLAYMENT PANELS ORIENTED WITH STRENGTH (LONG) AXIS ACROSS SUPPORTS

SPACING OF 1/32" RECOMMENDED AT UNDERLAYMENT BUTT JOINTS

NO BLOCKING REQUIRED IF UNDERLAYMENT EDGE JOINTS ARE OFFSET FROM SUBFLOOR JOINTS OR IF TONGUE AND GROOVE (T&G) SUBFLOOR IS USED

APA RATED SHEATHING OR BOARD SUBFLOORING (SUBFLOORING MUST BE DRY BEFORE LAYING UNDERLAYMENT)

APA PLYWOOD UNDERLAYMENT MIN. C-C PLUGGED OR VENEER FACED STURD-I-FLOOR WITH SANDED FACE

INSTALLATION OF APA UNDERLAYMENT
NOTE TO DESIGNER:
3/8" APA RATED SHEATHING APPLIED
VERTICALLY WITH 6d COMMON NAILS
SPACED 6" O.C. AT EDGES, 12" O.C. OTHER
FRAMING. NAIL HEADS DIMPLED INTO
PANEL.

1/2" GYPSUM WALLBOARD APPLIED
VERTICALLY, JOINTS STAGGERED.
NAIL TO FRAMING WITH 8d NAILS
SPACED 12" O.C.; JOINTS TAPED.

2x4 STUDS SPACED 24" O.C.
STAGGERED

2x6 PLATE TOP
AND BOTTOM

PLAN VIEW

NOISE-RESISTANT WALLS
MIN. 23\(^{2}/32\)" T\&G
APA STURD-I-FLOOR

MIN. 23\(^{2}/32\)" T\&G
APA STURD-I-FLOOR

0.019" GALVANIZED STEEL
HAT-SHAPED FURRING
CHANNELS MAX. 24" O.C.

MIN. 1/2" TYPE C GYPSUM
WALLBOARD TAPED

MIN. 1"MINERAL FIBER BATTS (6 PCF)

MIN. 9-1/4" WOOD I-JOISTS SPACED
MAX. 24" O.C. WITH 1-1/2"x2-1/4"FLANGES

0.019" GALVANIZED STEEL
RESILIENT CHANNELS MAX. 16" O.C.
(24" O.C. WHEN JOISTS MAX. 16" O.C.)

MIN. 9-1/2"WOOD
I-JOISTS SPACED
MAX. 24" O.C. WITH
1-5/16"x1-1/2" FLANGES

INSULATION
WHERE
REQUIRED

NOTES:
1. FOR ADDITIONAL DETAILS, SEE AWC DCA 3, ASSEMBLY
   WIJ–1.4 (WWW.AWC.ORG)
2. CONSTRUCTION ADHESIVES SHALL CONFORM TO APA
   SPECIFICATION AFG–01 OR ASTM D3498.
3. FOR ADDITIONAL INFORMATION AND PROPRIETARY
   NAMES, SEE LATEST UNDERWRITERS LABORATORIES
   (U.L.) FIRE RESISTANCE DIRECTORY.

A ONE-HOUR FIRE-RESISTIVE/CEILING ASSEMBLY

B ONE-HOUR FIRE-RESISTIVE FLOOR/CEILING ASSEMBLY

ONE-HOUR COMB. FLOOR/CEIL I-JOISTS
ONE-HOUR COMB. FLOORCEIL LUMBER JOISTS

NOTES:
1. CONSTRUCTION ADHESIVES SHALL CONFORM TO APA SPECIFICATION AFG–01 OR ASTM D3498.
2. FOR ADDITIONAL INFORMATION AND PROPRIETARY NAMES, SEE LATEST UNDERWRITERS LABORATORIES (U.L.) FIRE RESISTANCE DIRECTORY.

NOTES TO DESIGNER:
1. SOME RATED ASSEMBLIES INCORPORATE PROPRIETARY PRODUCTS. WHEN DESIGNING AND SPECIFYING, CHECK THE UNDERWRITERS LABORATORIES INC. (U.L.) FIRE RESISTANCE DIRECTORY FOR COMPLETE DETAILS ON A PARTICULAR ASSEMBLY. A CHANGE IN DETAILS MAY AFFECT THE FIRE RESISTANCE OF THE ASSEMBLY.
4. SUBSTITUTION OF 1–1/8" APA RATED STURD—I–FLOOR 48"OC FOR THE COMBINATION OF SUBFLOOR, PAPER AND UNDERLAYMENT IS OFTEN ALLOWED. CHECK WITH LOCAL BUILDING OFFICIAL.
5. MOST BUILDING CODES DO NOT REQUIRE THE TOP LAYER OF TWO-LAYER RATED ASSEMBLIES WHEN USED FOR ROOFS.
6. TESTS HAVE SHOWN THAT SUBSTITUTION OF OSB OR COMPOSITE APA RATED SHEATHING SUBFLOOR AND APA RATED STURD—I–FLOOR UNDERLAYMENT FOR THE PLYWOOD PANELS IN RATED ASSEMBLIES WILL NOT JEOPARDIZE FIRE–RESISTANCE RATINGS. SUBSTITUTION IS BASED ON EQUIVALENT PANEL THICKNESS, EXCEPT THAT IN TWO–LAYER WOOD ASSEMBLIES, 7/16" OSB SUBFLOOR PANELS MAY BE USED IN PLACE OF 15/32" PLYWOOD SUBFLOOR PANELS.
2x4 STUDS ALL 16"
OR 24" O.C.
MINERAL OR GLASS FIBER
INSULATION (OPTIONAL)
5/8" TYPE X GYPSUM
WALLBOARD
5/8" TYPE X GYPSUM
SHEATHING
BUILDING PAPER OR
OTHER CODE-APPROVED
WEATHER-RESISTIVE
BARRIER
APA RATED SIDING 16" OR 24" O.C.
(OR PANEL SHEATHING).
PANEL SIDING SHALL MEET IRC
REQUIREMENTS FOR WALL BRACING

NOTES:
1. GENERIC, NON-PROPRIETARY ASSEMBLY BASED ON GA FILE NO. WP8105 LISTED IN GYPSUM
ASSOCIATION FIRE RESISTANCE DESIGN MANUAL, REFERENCED IN THE MODEL BUILDING CODES.
MINERAL OR GLASS FIBER BATT INSULATION (OPTIONAL).
2. EXTERIOR LAYER OF GYPSUM SHEATHING NOT REQUIRED UNDER THE INTERNATIONAL BUILDING
CODE, WHEN SEPARATION IS GREATER THAN TEN FEET. FOR ADDITIONAL INFORMATION, SEE
U.L. DESIGN NOS. U344 AND U356 IN U.L. FIRE RESISTANCE DIRECTORY.
SHIM AT EACH RAFTER FOR FLUSH JOINT, IF NECESSARY, AT CHANGE OF PANEL THICKNESS

PROTECT EDGES OF EXPOSURE 1 SHEATHING AGAINST WEATHER

STRENGTH AXIS

APA RATED SHEATHING OR ANY APPROPRIATE APA EXTERIOR OR EXPOSURE 1 PANEL GRADE AND THICKNESS FOR DESIRED APPEARANCE AND LOAD-CARRYING CAPACITY

OPEN SOFFIT
PREFRAMED ROOF PANEL PERP. TO SUPPORTS

MAIN SUPPORTING GLULAM MEMBER

METAL PURLIN HANGER

STRENGTH AXIS

METAL JOIST HANGER

PANEL CLIP OR OTHER EDGE SUPPORT IF REQUIRED, OR SINGLE LARGE-SIZED PANELS

STIFFENERS 16” OR 24”O.C.

GLULAM PURLIN OR STEEL BAR JOIST WITH WOOD NAILER

APA STRUCTURAL PANEL
NOTE TO DESIGNER:
SHEAR WALL OVERTURNING MOMENTS MAY BE TRANSFERRED BY A FABRICATED STEEL BRACKET SUCH AS THIS. REGULAR FOUNDATION BOLTS MAY BE ALL THAT IS REQUIRED IN SOME CASES DEPENDING ON ENGINEERING ANALYSIS.
NOTE:
INTERNATIONAL BUILDING CODE REQUIRES TWO LAYERS OF GRADE D PAPER FOR STUCCO OVER WOOD-BASED SHEATHING.
TYPICAL CONNECTIONS TO EWP FLAT ROOF
PANELS NAILED TO NAILABLE STEEL JOISTS

HARDENED SCREW-SHANK NAILS REQUIRED

APA PANEL DECK

NAILABLE STEEL JOIST

APA PANEL DECK

2x4 NAILER

NAIL TO JOIST

NAILABLE STEEL JOIST

NAILER ANCHORED WITH POWER DRIVEN FASTENERS

APA PANEL DECK

2x4 NAILER

DRIVE PINS (SIZE AND SPACING AS REQUIRED)

STEEL WIDE FLANGE BEAM

APLA PANEL DECK

ADHESIVE (OPTIONAL)

HARDENED SCREW-SHANK NAIL OR SELF-TAPPING FASTENER

METAL JOIST ("C" OR BOX SECTION)

PANELS ATTACHED DIRECTLY TO FORMED STEEL JOIST

TYPICAL PANEL-TO-METAL FRAMING SYSTEMS
NOTE:
NAILING OF BOTH PANEL EDGES ALONG SHIPLAP JOINT IS RECOMMENDED. THE "DOUBLE NAILING" IS REQUIRED WHEN WALL SEGMENT MUST MEET WALL BRACING OR ENGINEERED SHEAR WALL REQUIREMENTS.