

SUKKAH DESIGN & ASSEMBLY GUIDE

WHEREVER THERE IS OPEN SKY

DESIGNED IN ACCORDANCE WITH TORAH, HALACHA, AND SOUND ENGINEERING PRINCIPLES

RESPONSIVE. TECHNICAL. RESULTS-DRIVEN.

Nohmis is a South Florida Design and Engineering Firm Providing Architectural, Structural & MEP Engineering, Seawall Design, and Inspection Services.

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PRINCIPLES

GENERAL NOTES

HALACHIC REQUIREMENTS

- THE SUKKAH SHALL BE CONSTRUCTED AND USED IN ACCORDANCE WITH APPLICABLE HALACHIC REQUIREMENTS. THESE PLANS PROVIDE STRUCTURAL AND GENERAL SAFETY GUIDANCE AND ARE NOT A SUBSTITUTE FOR RABINIC GUIDANCE.
- LOCATE THE SUKKAH WITH THE REQUIRED OPENNESS TO THE SKY AND CONSIDER ROOFS, OVERHANGS, TREES, BALCONIES, OR OTHER OBSTRUCTIONS ABOVE THE S'CHACH.
- INSTALL WALLS AND KOSHER S'CHACH IN ACCORDANCE WITH APPLICABLE HALACHIC REQUIREMENTS AND THE CONFIGURATION SHOWN ON THE PLANS.
- S'CHACH SHALL BE PROPERLY SUPPORTED, DISTRIBUTED, AND SECURED AGAINST DISPLACEMENT BY NORMAL WIND USING A HALACHICALLY ACCEPTABLE METHOD.
- CONSULT YOUR RABBI REGARDING QUESTIONS INVOLVING S'CHACH MATERIALS, SUPPORTS, ATTACHMENT METHODS, WALL CONFIGURATION, OR WORK DURING SHABBAT OR YOM TOV.

"YOU SHALL DWELL IN SUKKAH FOR SEVEN DAYS." — VAYIKRA 23:42
GENERAL CONSTRUCTION

- ALL WORK SHALL CONFORM TO THE PLANS, DETAILS, DIMENSIONS, AND NOTES PROVIDED. VERIFY FIELD CONDITIONS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS.
- INSTALL THE SUKKAH ON A REASONABLY LEVEL AND STABLE SURFACE, CLEAR OF OVERHEAD HAZARDS, POWER LINES, UNSTABLE TREES, OR OTHER UNSAFE CONDITIONS.
- INSTALL ALL FRAMING, BRACING, CONNECTIONS, FASTENERS, AND ANCHORAGE AS SHOWN ON THE PLANS. DO NOT OMIT OR MODIFY REQUIRED STRUCTURAL COMPONENTS WITHOUT APPROPRIATE REVIEW.
- ALL MEMBERS SHALL BE SECURE, REASONABLY PLUMB, LEVEL, AND SQUARE. CORRECT LOOSE CONNECTIONS, SHARP EDGES, PROTRUDING FASTENERS, OR OTHER UNSAFE CONDITIONS PRIOR TO USE.
- THE SUKKAH IS A TEMPORARY OUTDOOR STRUCTURE AND SHALL BE PERIODICALLY INSPECTED FOR MOVEMENT, DAMAGE, LOOSE CONNECTIONS, OR OTHER UNSAFE CONDITIONS.
- TEMPORARY DOES NOT MEAN UNSTABLE. GRAVITY AND WIND REMAIN FULLY OPERATIONAL THROUGHOUT THE HOLIDAY.

WOOD

- WOOD DESIGN SHALL CONFORM TO NDS 2018 WITH NOMINAL MEMBER SIZES AS SHOWN ON THE PLANS.
- ALL WOOD MEMBERS SHALL BE SOUTHERN PINE NO. 2 OR BETTER, UNLESS NOTED OTHERWISE.
- WOOD MEMBERS SHALL BE SOUND AND FREE OF SIGNIFICANT SPLITS, CHECKS, EXCESSIVE KNOTS, ROT, INSECT DAMAGE, OR OTHER DEFECTS AFFECTING STRUCTURAL PERFORMANCE.
- WOOD EXPOSED TO EXTERIOR CONDITIONS MAY BE SUBJECT TO DECAY, ROT, INSECTS, AND WARPING. USE MATERIAL SUITABLE FOR THE INTENDED EXPOSURE.
- INSTALL SIMPSON STRONG-TIE CONNECTORS AND COMPATIBLE FASTENERS AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

WIND AND SEVERE WEATHER

- THE SUKKAH SHALL BE CONSTRUCTED USING THE FRAMING, BRACING, CONNECTIONS, AND ANCHORAGE SHOWN ON THE PLANS.
- THE SUKKAH SHALL NOT BE OCCUPIED DURING HIGH WINDS, SEVERE THUNDERSTORMS, TROPICAL STORMS, HURRICANES, OR OTHER HAZARDOUS WEATHER CONDITIONS.
- PRIOR TO HIGH WINDS, INSPECT THE STRUCTURE AND REMOVE OR SECURE ITEMS THAT MAY BECOME WIND-BORNE DEBRIS, INCLUDING S'CHACH, FURNITURE, DECORATIONS, LIGHTING, FANS, AND OTHER ACCESSORIES.
- WHERE SEVERE WEATHER IS FORECAST, S'CHACH SHOULD BE REMOVED OR ADDITIONALLY RESTRAINED AS APPROPRIATE BEFORE CONDITIONS DETERIORATE.
- FOLLOWING SIGNIFICANT WIND OR STORM CONDITIONS, REINSPECT THE SUKKAH PRIOR TO USE AND REPAIR OR REPLACE DAMAGED OR DISPLACED COMPONENTS.
- LIFE SAFETY SHALL TAKE PRIORITY. KEEP PEOPLE CLEAR OF THE SUKKAH IF THE STRUCTURE OR ANY COMPONENT APPEARS UNSTABLE OR HAZARDOUS.

WALLS AND S'CHACH

- INSTALL WALLS AND S'CHACH SUPPORTS IN THE LOCATIONS AND CONFIGURATION SHOWN ON THE PLANS.
- WALL MATERIALS SHALL BE ADEQUATELY ATTACHED AND RESTRAINED TO LIMIT EXCESSIVE MOVEMENT OR DETACHMENT.
- DISTRIBUTE S'CHACH AS EVENLY AS PRACTICAL AND AVOID EXCESSIVE CONCENTRATIONS OF MATERIAL ON INDIVIDUAL SUPPORT MEMBERS.
- RESECURE OR REPOSITION S'CHACH THAT BECOMES LOOSE, DISPLACED, OR DAMAGED.

ELECTRICAL AND LIGHTING

- USE OUTDOOR-RATED EXTENSION CORDS IN GOOD CONDITION AND CONNECT THEM TO GFCI-PROTECTED RECEPTACLES.
- DO NOT USE CORDS WITH DAMAGED INSULATION, EXPOSED CONDUCTORS, BROKEN GROUNDING PINS, LOOSE PLUGS, OR OTHER DEFECTS. NEW OR RECENTLY PURCHASED OUTDOOR-RATED CORDS ARE PREFERRED.
- DO NOT OVERLOAD EXTENSION CORDS, RECEPTACLES, SPLITTERS, OR CIRCUITS. USE APPROPRIATELY RATED EXTERIOR SPLITTERS AND DISTRIBUTION DEVICES.
- FANS AND OTHER HIGHER-LOAD ELECTRICAL EQUIPMENT SHOULD USE A SEPARATE EXTENSION CORD AND, WHERE PRACTICAL, A DIFFERENT RECEPTACLE OR CIRCUIT FROM DECORATIVE LIGHTING.
- KEEP ALL ELECTRICAL CONNECTIONS PROTECTED FROM RAIN, IRRIGATION, ROOF RUNOFF, AND STANDING WATER. ELEVATE CONNECTIONS WHERE PRACTICAL AND USE WEATHER-RESISTANT CONNECTION COVERS.
- STANDARD COMPUTER-STYLE SURGE PROTECTOR OR INDOOR POWER STRIPS SHALL NOT BE USED OUTDOORS UNLESS SPECIFICALLY RATED BY THE MANUFACTURER FOR EXTERIOR USE.
- ROUTE AND SECURE CORDS TO MINIMIZE TRIP HAZARDS AND PROTECT THEM FROM PHYSICAL DAMAGE.

FIRE AND LIFE SAFETY

- WOOD FRAMING, S'CHACH, FABRIC, PAPER DECORATIONS, AND OTHER COMMON SUKKAH MATERIALS MAY BE COMBUSTIBLE.
- MAINTAIN SAFE SEPARATION BETWEEN COMBUSTIBLE MATERIALS AND CANDLES, OPEN FLAMES, HEATERS, COOKING EQUIPMENT, HOT LIGHTING, OR OTHER HEAT SOURCES.
- OPEN FLAMES SHALL NOT BE LEFT UNATTENDED AND SHALL BE PLACED ON STABLE, NONCOMBUSTIBLE SURFACES.
- MAINTAIN A CLEAR AND UNOBSTRUCTED PATH INTO AND OUT OF THE SUKKAH. FURNITURE, DECORATIONS, AND CORDS SHALL NOT BLOCK ACCESS OR EXIT.

FINAL INSPECTION

- PRIOR TO OCCUPANCY, VERIFY THAT FRAMING, CONNECTIONS, BRACING, ANCHORAGE, WALLS, AND S'CHACH ARE SECURE AND PROPERLY INSTALLED.
- VERIFY ELECTRICAL CORDS AND EQUIPMENT ARE IN GOOD CONDITION, PROTECTED FROM WEATHER, AND NOT OVERLOADED.
- VERIFY WALKWAYS ARE CLEAR, COMBUSTIBLE MATERIALS ARE SEPARATED FROM IGNITION SOURCES, AND NO LOOSE, DAMAGED, WET, SHARP, OVERHEATED, OR OTHERWISE UNSAFE CONDITIONS ARE PRESENT.
- REINSPECT THE SUKKAH FOLLOWING RAIN, HIGH WINDS, OR OTHER CONDITIONS THAT MAY AFFECT ITS SAFETY.

"YOU SHALL REJOICE IN YOUR FESTIVAL." — DEVARIM 16:14

SCOPE OF WORK - SUKKAH ASSEMBLY

- PREPARE THE INSTALLATION AREA AND LAY OUT THE SUKKAH IN ACCORDANCE WITH THE DIMENSIONS SHOWN ON THE PLAN.
- ASSEMBLE THE STRUCTURAL FRAMING, INCLUDING POSTS, BEAMS, RAILS, BRACING, CONNECTORS, AND ANCHORS, AS INDICATED ON THE PLANS AND DETAILS.
- INSTALL THE SUKKAH WALLS AND SECURELY ATTACH THEM.
- INSTALL THE S'CHACH SUPPORT SYSTEM IN ACCORDANCE WITH THE PLANS.
- INSTALL AND SECURE THE KOSHER S'CHACH OVER THE COMPLETED SUPPORT SYSTEM.
- INSTALL LIGHTING, FURNISHINGS, FANS, AND OTHER ACCESSORIES AS DESIRED, SUBJECT TO THE GENERAL NOTES.
- PERFORM A FINAL INSPECTION OF THE COMPLETED SUKKAH PRIOR TO OCCUPANCY.
- DECORATE THE COMPLETED SUKKAH WITH GREENERY FRUITS, ARTWORK, FAMILY DECORATIONS, CHILDREN'S PROJECTS AND OTHER TRADITIONAL ELEMENTS.
- UPON COMPLETION, PLACE THE SUKKAH INTO SERVICE FOR ITS INTENDED PURPOSE: GATHER, EAT, WELCOME GUESTS, SHAKE THE LULAV AND ETROG, SING, GIVE THANKS, SPEND TIME WITH FAMILY AND FRIENDS, AND REJOICE.

"YOU SHALL REJOICE IN YOUR FESTIVAL." — DEVARIM 16:14

WHAT IS SUKKOT?

SUKKOT IS A JEWISH HOLIDAY WHERE WE BUILD A TEMPORARY OUTDOOR STRUCTURE CALLED "SUKKAH" THAT REPRESENT THE FRAGILE AND TEMPORARY SHELTERS OUR JEWISH ANCESTORS BUILT IN THEIR 40-YEAR JOURNEY THROUGH THE DESERT AFTER ESCAPING EGYPT.

DESIGN CRITERIA

- TORAH / HALACHA REQUIREMENTS
PARASHAT EMOR - VAYIKRA 23:42-43
- FLORIDA BUILDING CODE (FBC)
APPLICABLE PROVISIONS FOR STRUCTURAL AND LIFE SAFETY REQUIREMENTS.
- ASCE 7-22
MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES.
- NDS 2018
NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
- MANUFACTURE REQUIREMENTS.

GRAVITY LOAD PARAMETERS:

ROOF DEAD LOAD:

MAX. 8 PSF

WIND LOAD PARAMETERS

RISK CATEGORY:

WIND SPEED: 70 MPH

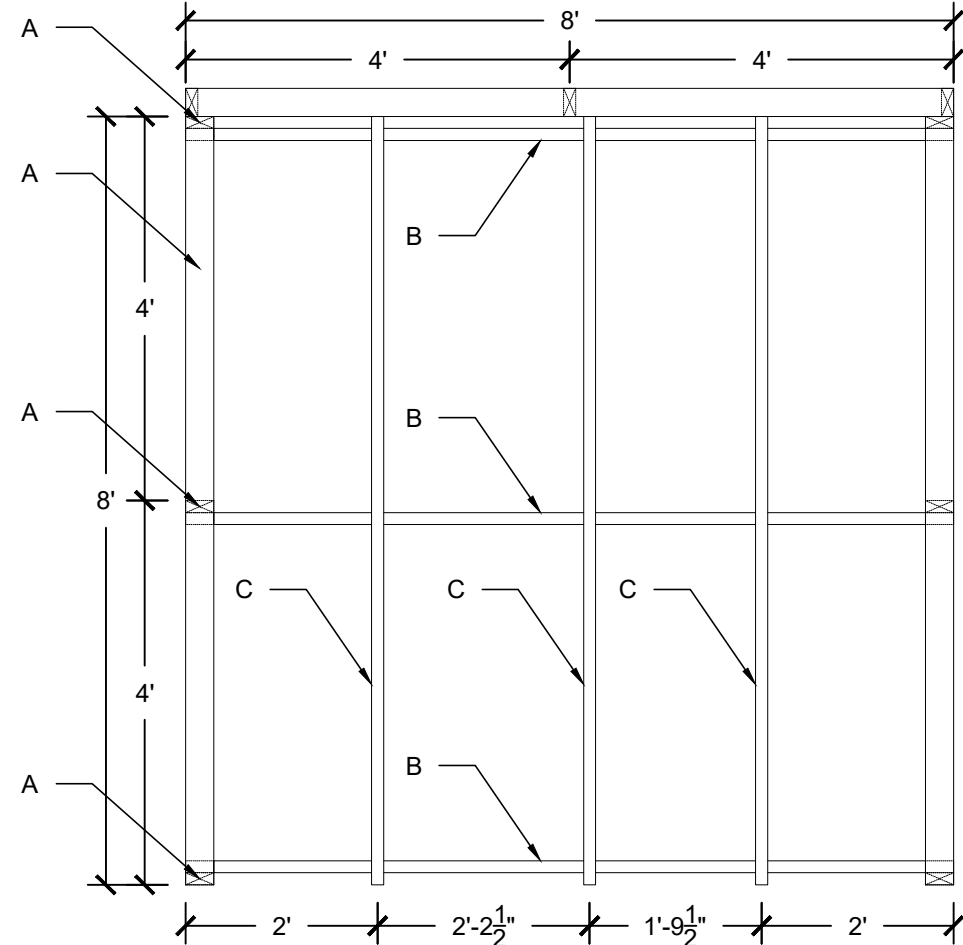
EXPOSURE CATEGORY: D

MEAN ROOF HEIGHT: 8 FT

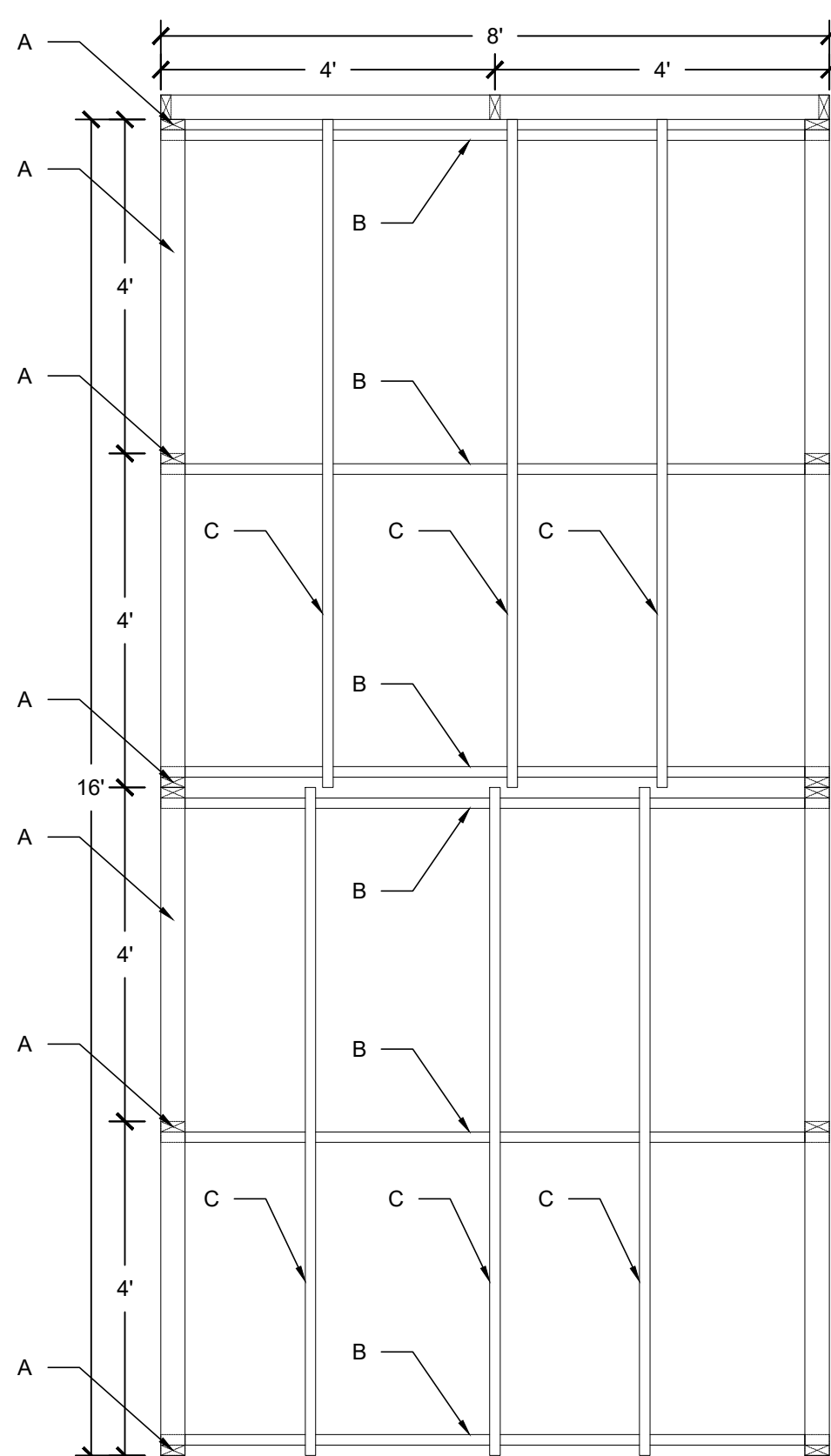
ENCLOSURE CLASSIFICATION: OPEN

IF FORECAST WIND SPEEDS ARE EXPECTED TO EXCEED 70 MPH, OR A NAMED TROPICAL STORM OR HURRICANE IS APPROACHING, THE SUKKAH SHALL BE COMPLETELY DISASSEMBLED PRIOR TO THE ARRIVAL OF THE STORM. LOOSE FRAMING, S'CHACH, WALL PANELS, DECORATIONS, AND OTHER COMPONENTS MAY BECOME WIND-BORNE DEBRIS AND CAN CREATE A SERIOUS HAZARD.

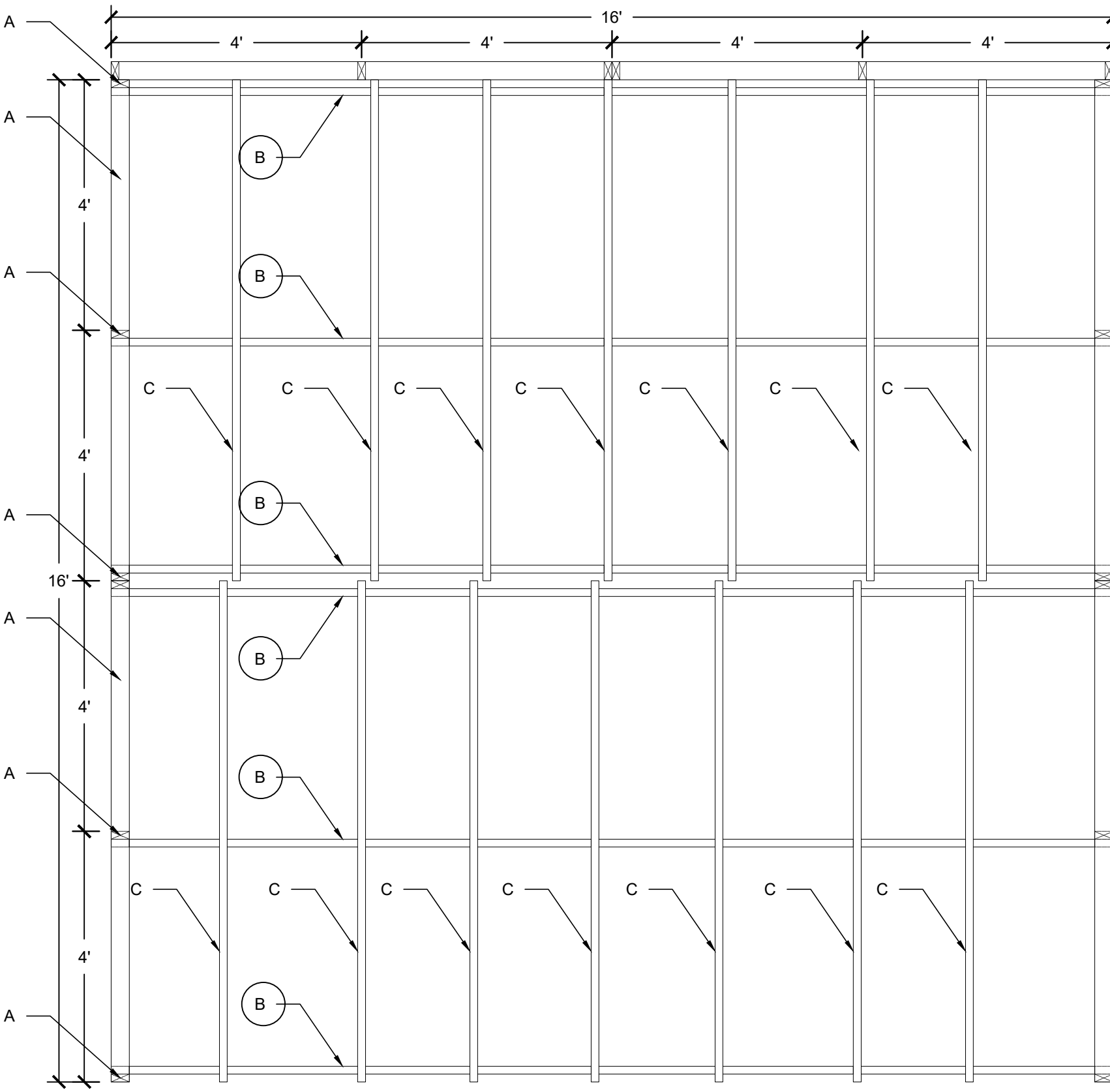
DO NOT LEAVE THE STRUCTURE IN PLACE TO "SEE HOW IT DOES" — THAT MAY RESULT IN AN UNPLANNED TEST OF YOUR IMPACT WINDOWS.



8'x8' SUKKAH



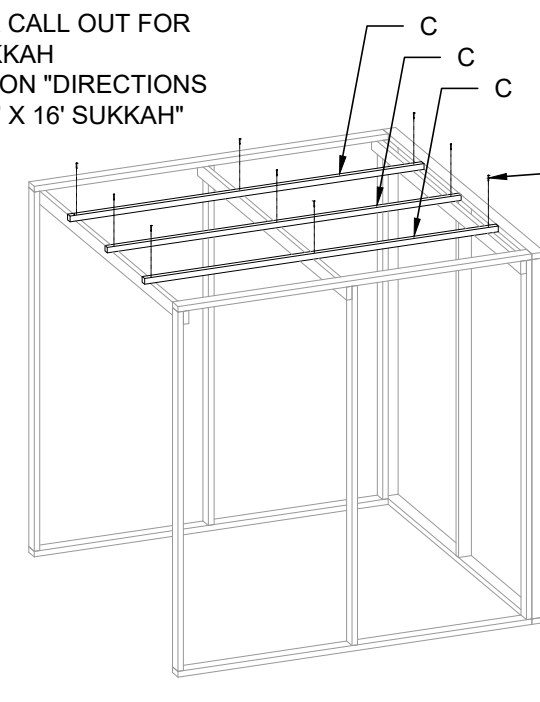
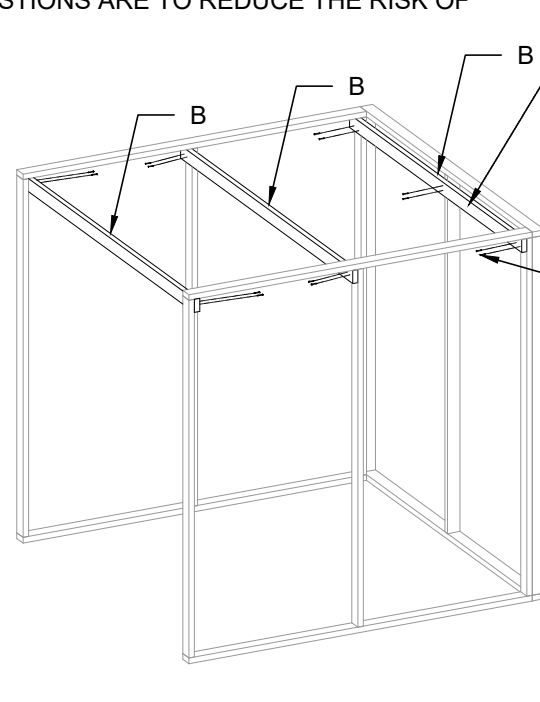
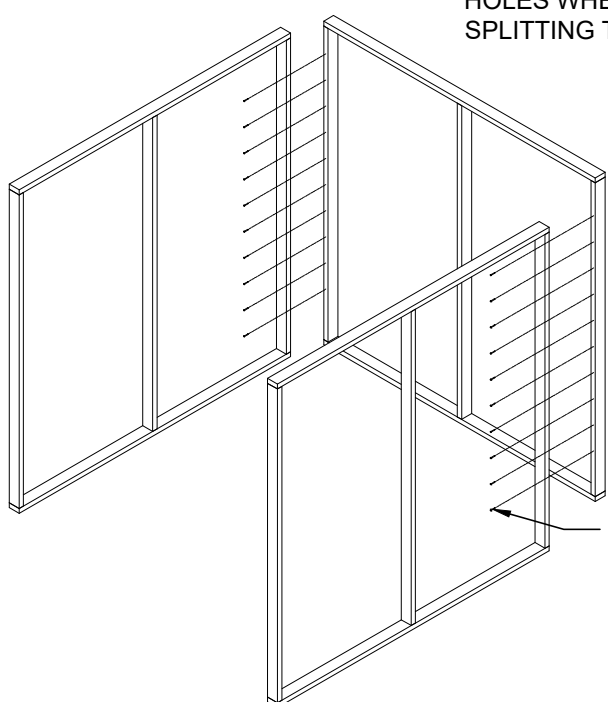
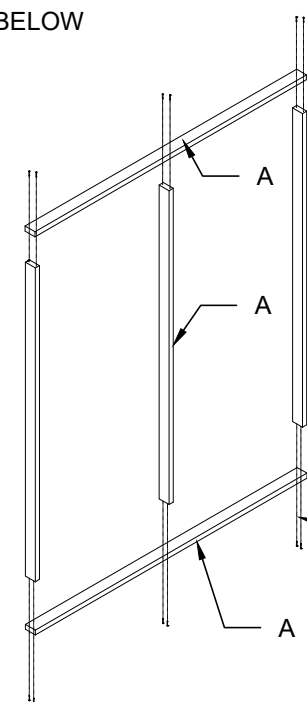
8'x16' SUKKAH



16'x16' SUKKAH

DIRECTIONS FOR AN 8' X 8' SUKKAH

- FOLLOW THE STEPS 1 THROUGH 5 AS SHOWN BELOW



THIS WALL ACTS AS A CUTAWAY AND SHOULD ALSO HAVE A COVER

NOTE: ILLUSTRATION IS CONCEPTUAL ONLY. REFER TO PLANS FOR ACTUAL FRAMING AND CONNECTIONS. S'CHACH AND DECORATIONS MAY VARY.

ADD THE S'CHACH AND WALL COVERS. HAPPY SUKKOT!

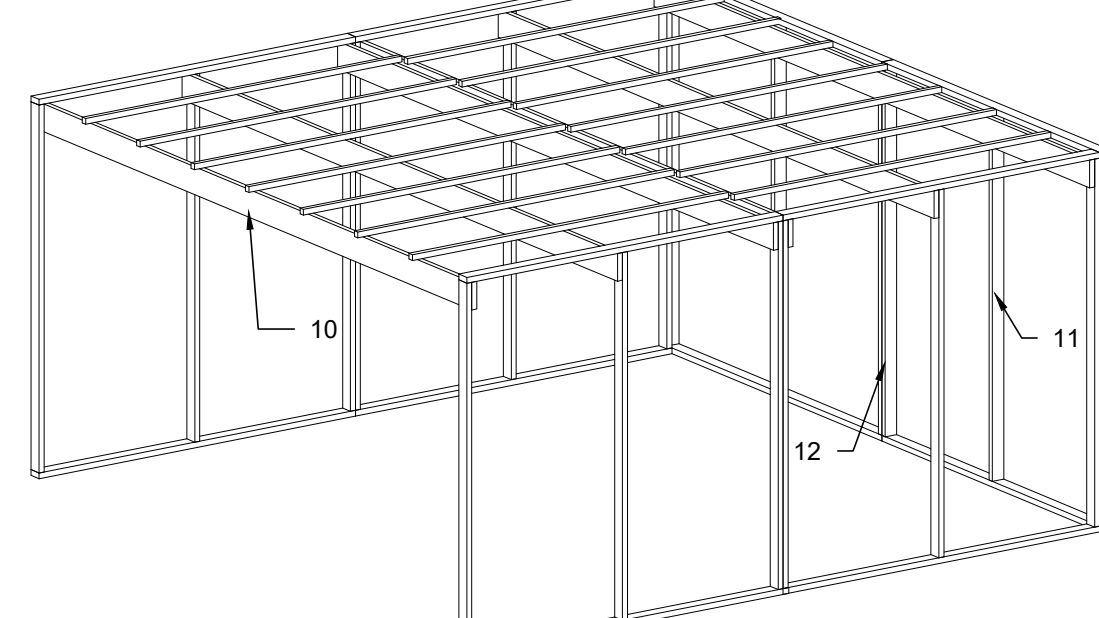
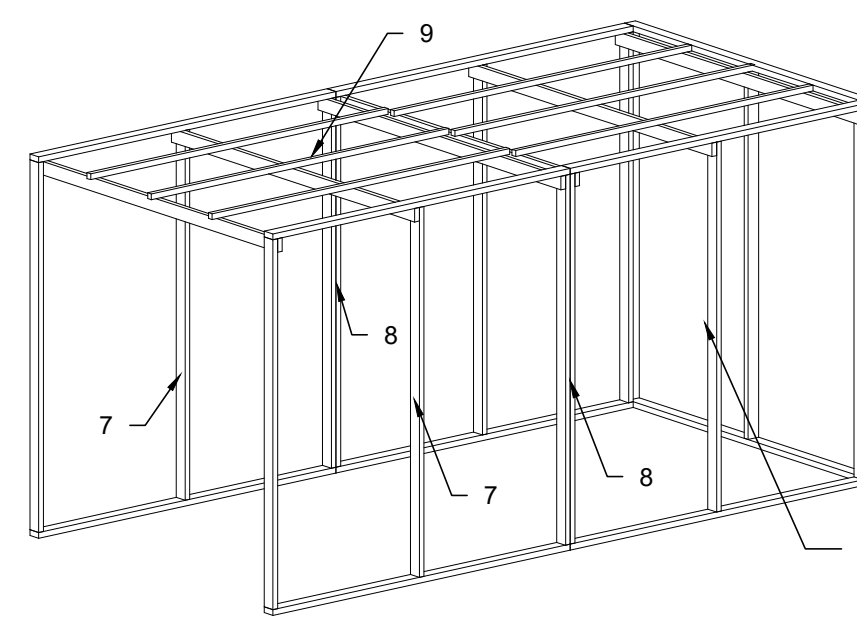
DIRECTIONS FOR AN 8' X 16' SUKKAH

- CONSTRUCT ONE 8' X 8' SUKKAH IN ACCORDANCE WITH THE STEPS SHOWN.
- RETURN TO STEP 1 AND CONSTRUCT TWO ADDITIONAL WALL/FRAME SECTIONS.
- ATTACH THE TWO NEW SECTIONS TO THE FRONT OF THE COMPLETED 8' X 8' SUKKAH USING THE SAME CONNECTION METHOD SHOWN IN STEP 2.
- COMPLETE THE 8' X 16' ROOF FRAMING IN ACCORDANCE WITH STEPS 3 AND 4.

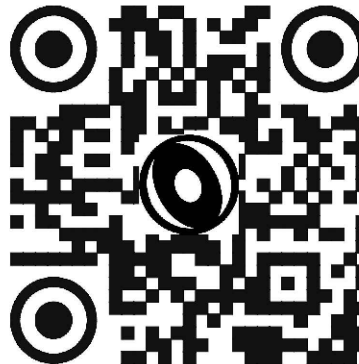
DIRECTIONS FOR AN 16' X 16' SUKKAH

- FOLLOW THE DIRECTIONS FOR THE 8' X 16' SUKKAH USING 2"X8"X16' BEAMS AND FASTENERS USING 3 IN PLACE OF THE 2"X4"X8' BEAMS AND FASTENERS AT ALL APPLICABLE LOCATIONS. SEE STEP 3 FOR CALL OUT.
- WHILE CONSTRUCTING THE INITIAL 8' X 8' SECTION, RETURN TO STEP 1 AND CONSTRUCT ONE ADDITIONAL WALL/FRAME SECTION.
- ATTACH TO THE REAR WALL USING THE SAME CONNECTION METHOD SHOWN IN STEP 2.

NOTE: THAT THE 16' X 16' CONFIGURATION REQUIRES A GREATER QUANTITY OF 2X2 ROOF JOISTS. REFER TO THE MATERIAL LIST FOR REQUIRED QUANTITIES.



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- Selected Based On Verified Performance
- Committed To Code Compliance And Quality
- Supporting Project Success From Concept To Completion

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