

GLASS SYSTEMS: HURRICANE & BLAST RESISTANT

HURRICANE COMPLIANT DESIGN & TESTING

Super Sky has extensive experience in designing Hurricane Compliant skylights in all applicable areas of the United States, as well as throughout the world. Since 1999, Super Sky has passed the rigorous testing required by Dade County, Florida and has received product approvals for its tubular skylight systems for both large and small missile impact ratings. These tests include;

- * Air infiltration per ASTM E283 and TAS 202
- * Water infiltration by static pressure differential (18 psf) per ASTM E331 and TAS 202
- * Large and small missile impact testing per ASTM E1886/1996 and TAS 210
- * Static loading per ASTM E330 and TAS 202
- * Cyclic load testing per ASTM E1886/1996 and TAS 203

Large Missile:

$\frac{9}{16}$ " Laminated Glass w/ .090" Dupont SentryGlas Plus PVB Interlayer

$1\frac{5}{16}$ " Insulated Glass w/ Solutia .077" VS02 PVB Interlayer

$1\frac{5}{16}$ " Insulated Glass w/ .090" Dupont SentryGlas Plus PVB Interlayer

Small Missile:

$\frac{9}{16}$ " Laminated Glass w/ .060" Dupont Butacite PVB Interlayer

$1\frac{5}{16}$ " Insulated Glass w/ .060" Dupont Butacite PVB Interlayer

Note, current numbers are available on our website at www.supersky.com. All Super Sky Miami-Dade NOAs are current and are reviewed and renewed as required by the Miami-Dade Building Code Compliance Office.

The design criteria for all NOA rated systems are as follows:

1. Maximum Design Pressures: Large Missile = +80/-90 psf
Small Missile = +/-120 psf
2. Glass Types: As indicated above
3. Maximum Allowable Glass Lite Size: 30 sq. ft. (for both large and small missile)
4. The glass must be mechanically captured on all edges; structural silicone flush glazed joints are not allowed.
5. Pressure plate fasteners at a maximum spacing of 6" on center.



SUPER SKY PRODUCTS ENTERPRISES, LLC

www.supersky.com

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HBR-1

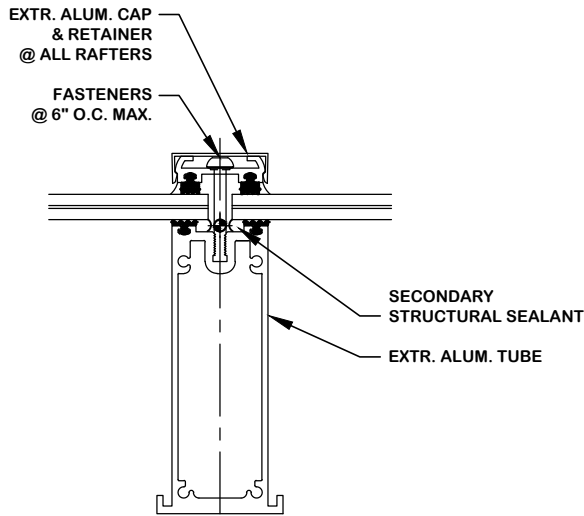
BLAST RESISTANT DESIGN

Super Sky's blast resistant skylights are primarily engineered and installed for government, military and defensive sectors. However, our blast resistant products are also frequently employed in public gathering places. Super Sky takes great pride in meeting and exceeding the blast resistant engineering requirements needed to effectively combat various threat levels. Our blast compliant systems consist of highly complex connections and framing for the support structure. Glass thickness is confirmed with level of threat and is fully capped with secondary structural sealants for outstanding protection.

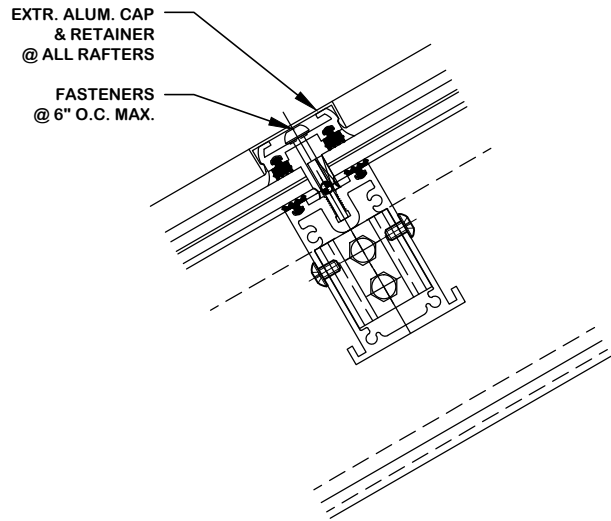
Super Sky has completed projects ranging from minimal threat levels to designs requiring fully dynamic glass and frame analysis. Our highly skilled engineers utilize current GSA controlled software to directly collaborate and communicate with our skylight design team for the most cohesive and efficient processes. Super Sky is the expert in accommodating all threat scenarios.



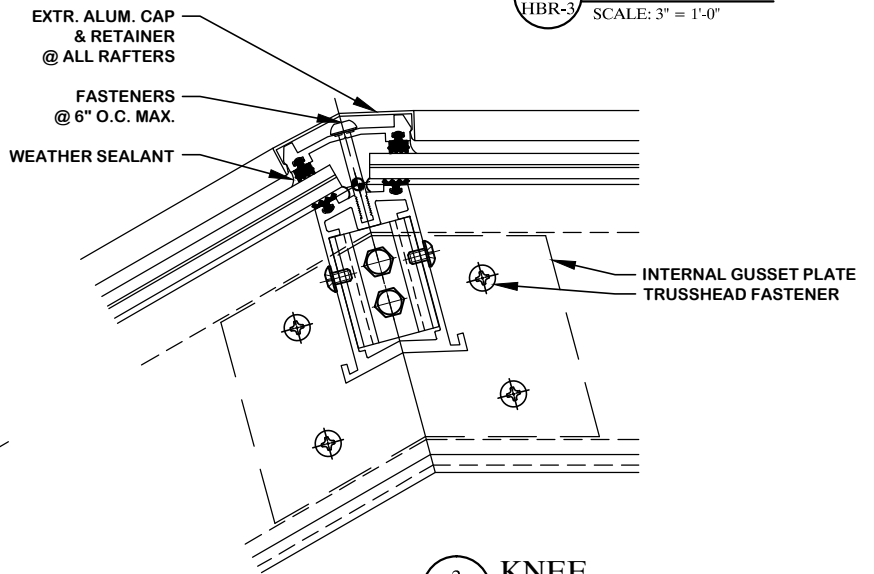
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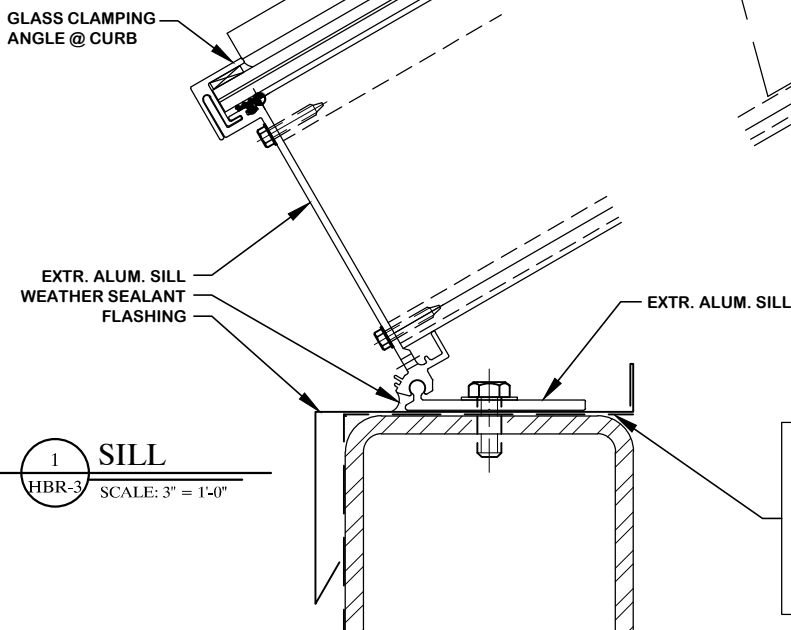
3 RAFTER
HBR-3 SCALE: 3" = 1'-0"



4 CROSSBAR
HBR-3 SCALE: 3" = 1'-0"



2 KNEE
HBR-3 SCALE: 3" = 1'-0"



1 SILL
HBR-3 SCALE: 3" = 1'-0"

ARCH. / G.C. NOTE:
SUPER SKY RECOMMENDS THAT ROOFING MEMBRANE BE EXTENDED UP AND OVER THE CURB AS SHOWN; TO PROVIDE SEPARATION BETWEEN THE DISSIMILAR MATERIALS AS WELL AS PROVIDING AN ADDITIONAL BARRIER AGAINST WATER PENETRATION.



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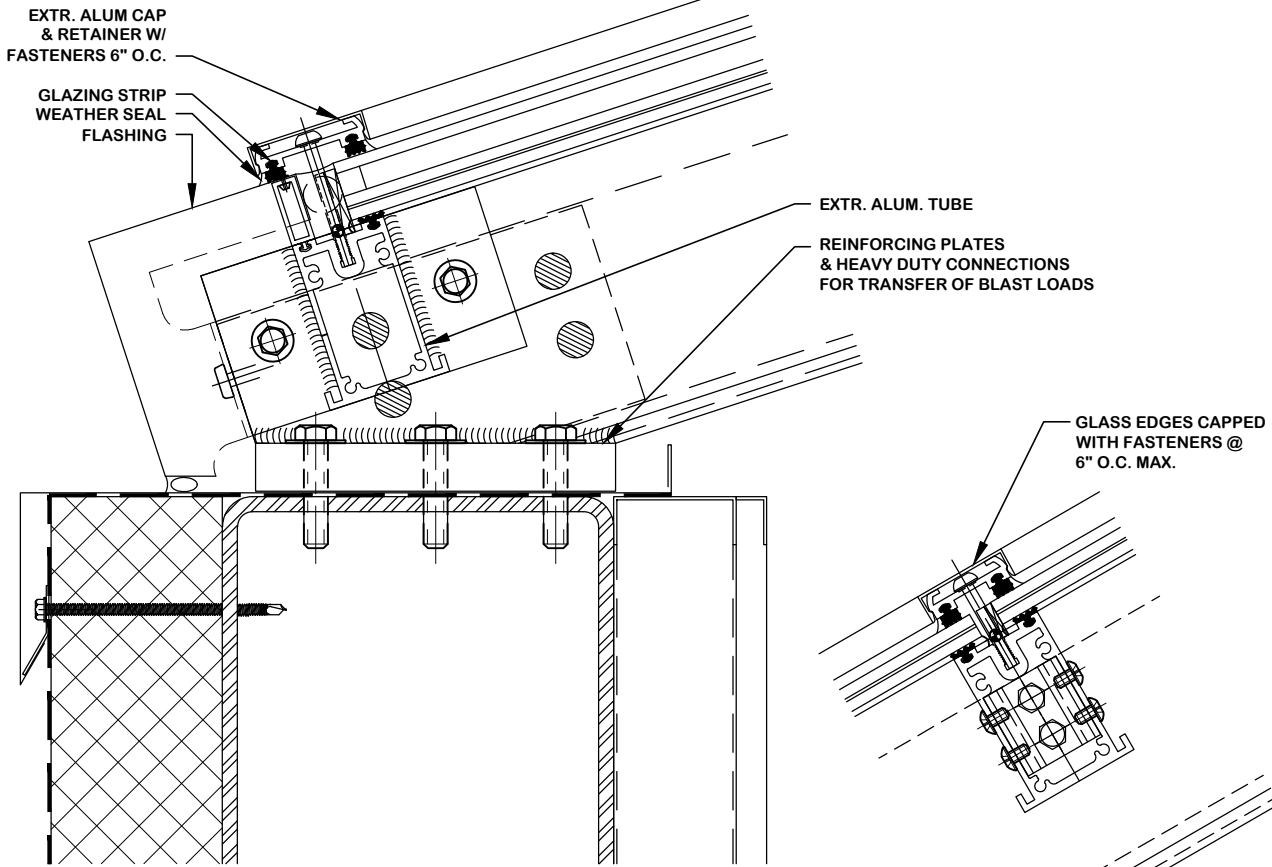
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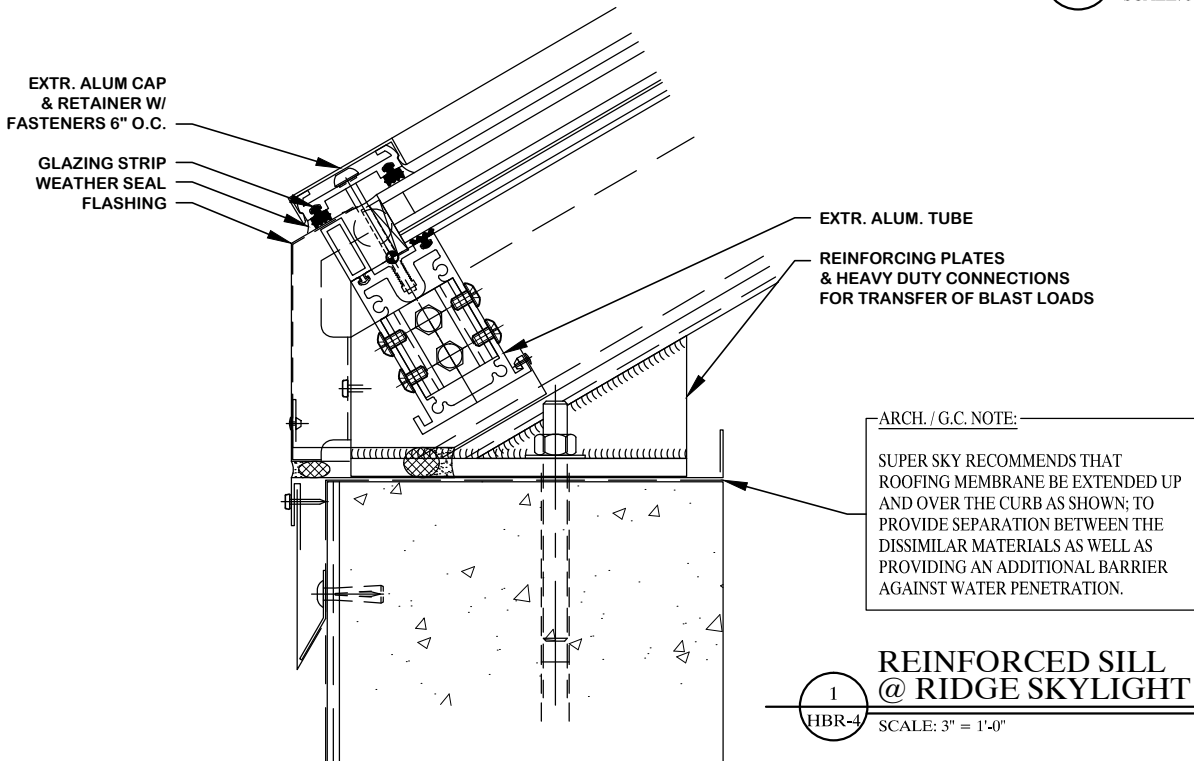
HBR-3

GLASS SYSTEMS: HURRICANE & BLAST RESISTANT



2
HBR-4
REINFORCED SILL @ DOME SKYLIGHT
SCALE: 3" = 1'-0"

3
HBR-4
CROSSBAR
SCALE: 3" = 1'-0"



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1
HBR-4
REINFORCED SILL @ RIDGE SKYLIGHT
SCALE: 3" = 1'-0"

