

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ) & IS LARGE MISSILE IMPACT RATED.
5. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
6. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
7. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
8. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
9. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/QA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH THE FBC AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATIONS. THESE DRAWINGS SHOW ALL APPLICABLE ELEVATION, COMBINATION, INSTALLATION & COMPARATIVE ANALYSIS CONDITIONS AS DETERMINED THROUGH TESTING & ENGINEERING RATIONAL ANALYSIS. PRODUCT ASSEMBLY SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
10. CERTIFICATION OF THIS PRODUCT SHALL BE CONSIDERED VOID IF IT IS INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT OR IF IT IS INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH INSTALLATIONS OF THIS TYPE OF PRODUCT.
11. ALL WOOD MEMBERS OF THIS PRODUCT THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC REQUIREMENTS.

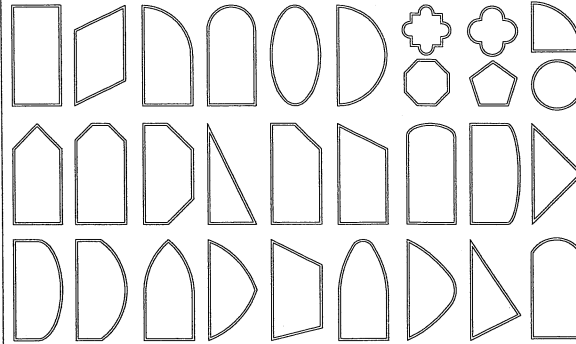
EVALUATION OF THIS PRODUCT IS BASED ON APPLICABLE STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING CODE VERSION CONSIDERED WITH THIS EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED ON THIS PRODUCT, PRIOR TO STATING CONFORMANCE WITH THE STATE, THE MANUFACTURER SHALL CONFORM WITH THE EVALUATION ENGINEER OF RECORD THAT EVERYTHING SPECIFIED HERE-IN IS CURRENT WITH ALL CURRENT TESTING, CODES AND APPLICABLE STANDARDS.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU OR 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
INSTALLATION CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 3/8"	1/2"
MIN. 18 GA. 33 KSI METAL STUD	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

- (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S. OR S.S.).

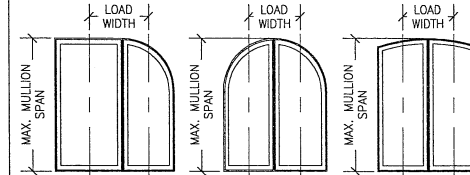
APPROVED SHAPES



NOTES:

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED IN THIS DRAWING.
2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.

EXAMPLES OF SIDE-BY-SIDE SHAPED MULLION CONDITIONS



NOTES:

1. INDIVIDUAL WINDOW SHAPES OTHER THAN THOSE SHOWN MAY APPLY PROVIDING THEY ARE APPLICABLE TO THOSE SHOWN IN THE "APPROVED SHAPES" TABLE ON THIS SHEET & THEIR MULLION CONDITIONS ARE CONSISTENT WITH THOSE SHOWN IN THE ELEVATION ON SHEET 2.
2. SHAPED FIXED WINDOWS MAY ALSO BE MULLIONED TO RECTANGULAR WINDOWS AS TRANSOMS UNDER THE SAME RESTRICTIONS AS SIDE BY SIDE CONDITION SHOWN IN THE MULTIPLE WINDOW ELEVATION ON SHEET 3.

CORNER CONSTRUCTION:

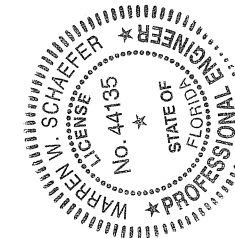
SQUARE CORNERS: FRAME MEMBERS ARE BUTTED IN SEALANT & SECURED WITH NO. 8 X 2 1/4" PFH SMS (2 PER CORNER). THE ALUMINUM CLADDING IS MITERED & JOINED WITH A POLYCARBONATE CORNER KEY AND 2 NO. 7 X 5/8" PFH SMS. JAMB EXTENSIONS ARE BUTTED AND JOINED WITH ONE(1) 7/16" X 1 1/4" 15 GAGE CROWN STAPLE.

EYEBROW, HALF ROUND & TRIANGLE CORNERS: FRAME MEMBERS ARE BUTT JOINED, SEALED, AND SECURED WITH ONE(1) 3" CROWN STAPLE AND 2 NO. 8 X 2 1/2" SCREWS PER CORNER. CLADDING IS MITERED, SEALED, & JOINED WITH CORNER KEY & 2 NO. 7 X 5/8" SCREWS PER CORNER.

SEGMENTAL WITH OVER 45 DEGREE ANGLE TO HORIZONTAL: FRAME MEMBERS ARE BUTT JOINED, SEALED, AND SECURED WITH ONE(1) 3" CROWN STAPLE AND 2 NO. 8 X 2 1/2" SCREWS PER CORNER. CLADDING IS MITERED, SEALED, & JOINED WITH CORNER KEY & 2 NO. 7 X 5/8" SCREWS PER CORNER.

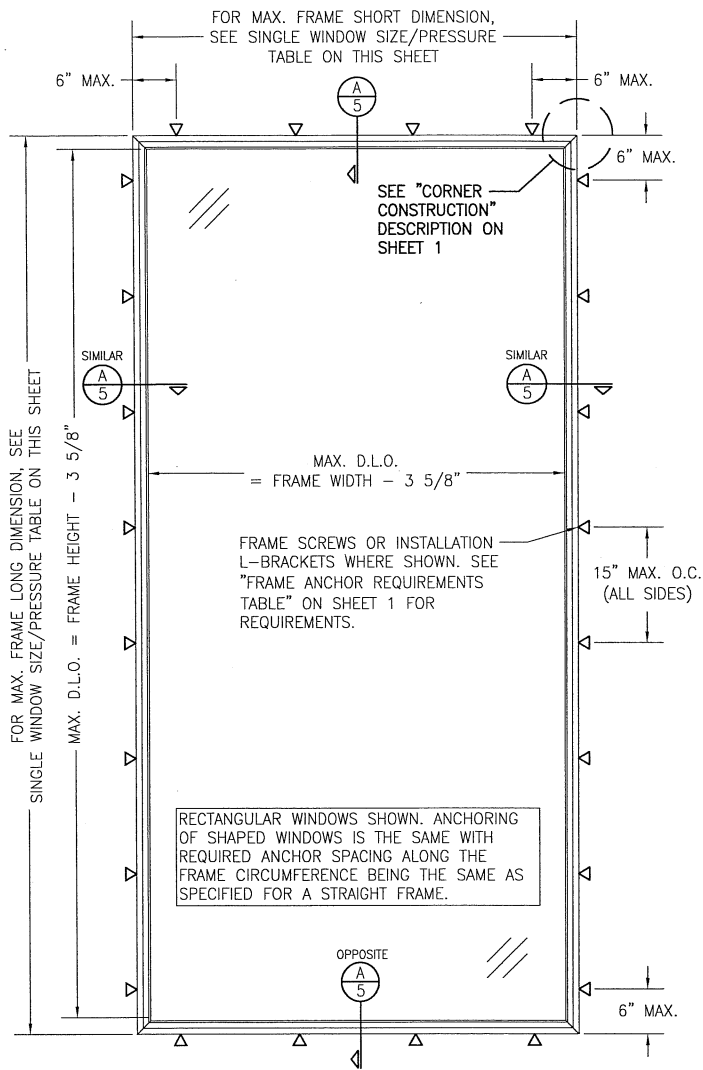
SEGMENTAL WITH 45 DEGREE OR LESS ANGLE TO HORIZONTAL: FRAME MEMBERS ARE MITERED, SEALED, AND SECURED WITH ONE(1) 3" CROWN STAPLE AND 2 NO. 8 X 2 1/2" SCREWS PER CORNER. CLADDING IS MITERED, SEALED, & JOINED WITH CORNER KEY & 2 NO. 7 X 5/8" SCREWS PER CORNER.

EXTENDED LEG HALF & QUARTER ROUND: FRAME MEMBERS ARE STRAIGHT CUT AND JOINED WITH KREGG FASTENING, SEALED, AND SECURED WITH ONE(1) 3" CROWN STAPLE AND 2 NO. 8 X 2 1/2" SCREWS PER CORNER. CLADDING IS BUTT JOINED AND SEALED WITH SILICONE.



THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 01/19/17	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: ULTRA SERIES BEVELED IMPACT DIRECT GLAZED WINDOWS MANUFACTURER: KOLBE & KOLBE MILLWORK CO., INC. 1323 SOUTH 11TH AVE. WAUSAU, WI 54401 715-842-5666 CONSULTANTS: W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, SUITE 33418 PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 CERTIFICATION: MAR 08 2017 WARREN W. SCHAEFFER, P.E. P.E. NO. 44135			
DRAWING NO. 1926		REV.	
SHEET NO. 1		OF 6	



**EXTERIOR ELEVATION:
SINGLE FIXED WINDOW**

SCALE: 3/4" = 1'-0"

(RECTANGULAR WINDOW SHOWN, SHAPED WINDOWS ALSO APPLY.
SEE "APPROVED SHAPES" TABLE ON SHEET 1)
(LONG DIMENSION MAY BE HORIZONTAL OR VERTICAL)

**ALLOWABLE SINGLE WINDOW SIZE/PRESSURE TABLE
(GLASS OPTION 1)**

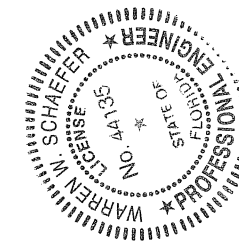
MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)		MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)	
		POS.	NEG.			POS.	NEG.
144	26	66.7	71.8	84	36	72.8	78.4
	24	72.2	77.8		30	83.5	90.0
	19	91.2	95.0		28	88.2	95.0
132	29	65.2	70.2	78	49	61.2	66.0
	24	78.8	84.8		48	61.9	66.7
	21	90.0	95.0		42	67.1	72.2
120	32	65.0	70.0	72	36	74.3	80.0
	30	69.3	74.7		30	84.9	91.5
	24	86.7	93.3		28	89.6	95.0
108	23	90.4	95.0	66	53	61.5	66.2
	35	66.0	71.1		48	64.3	69.3
	30	77.0	83.0		42	69.2	74.5
100	26	88.9	95.0	64	36	76.2	82.1
	38	65.7	70.7		30	86.7	93.3
	36	69.3	74.7		29	88.9	95.0
96	30	80.7	86.9	60	58	63.3	68.2
	26	91.0	95.0		54	64.5	69.5
	40	65.0	70.0		48	67.4	72.6
90	36	70.4	75.8	54	42	71.9	77.4
	30	81.3	87.6		36	78.6	84.7
	27	88.7	95.0		30	88.8	95.0
84	42	63.9	68.8	50	60	64.6	69.5
	36	71.5	77.0		54	65.9	71.0
	30	82.3	88.7		48	68.6	73.9
84	27	89.7	95.0	46	42	72.9	78.6
	45	62.5	67.3		36	79.5	85.7
84	42	65.3	70.4	42	30	89.6	95.0

SIZE/PRESSURE TABLE NOTES:

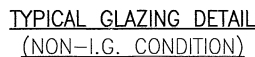
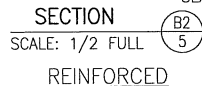
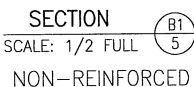
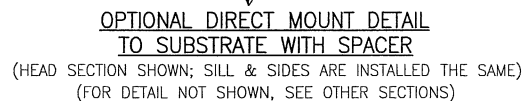
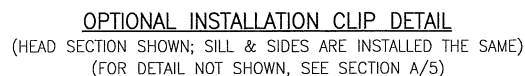
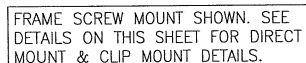
1. WINDOW SIZES SHOWN ARE MAXIMUM SIZES. SMALLER SIZES SHALL APPLY TO LOADS EQUAL TO THE NEAREST LARGER SIZE SHOWN IN TABLE.
2. LONG DIMENSION MAY BE HORIZONTAL OR VERTICAL.
3. SEE GLAZING DETAILS FOR GLASS OPTIONS.

**ALLOWABLE SINGLE WINDOW
SIZE/PRESSURE TABLE
(GLASS OPTION 2)**

MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)	
		POS.	NEG.
144	32	65.0	70.0
	30	65.0	74.7
	29	65.0	77.0
132	34	65.0	71.9
	31	65.0	77.0
	38	65.0	70.7
120	36	65.0	74.7
	34	65.0	77.0
	42	65.0	71.1
108	38	65.0	77.0
	46	65.0	70.1
	42	65.0	75.9
100	41	65.0	77.0
	48	65.0	70.0
	42	65.0	76.8
96	51	64.0	68.9
	48	65.0	71.6
	43	65.0	77.0
90	54	63.9	68.8
	48	65.0	73.5
	44	65.0	77.0
84	59	63.8	68.7
	54	65.0	71.4
	48	65.0	75.8
78	46	65.0	77.0
	60	65.0	72.0
	54	65.0	74.7
72	50	65.0	77.0
	60	65.0	77.0
	60	65.0	77.0

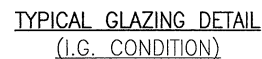


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PLOT: 1=16		DATE: 01/19/17	
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DRAWING TITLE: ULTRA SERIES BEVELED IMPACT DIRECT GLAZED WINDOWS CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, PALM BEACH, FL 33418 PHONE: 561-744-3424 MANUFACTURER: KOLBE & KOLBE MILLWORK CO., INC. 1323 SOUTH 11TH AVE., WAUSAU, WI 54401 715-842-5666			
CERTIFICATION		MAR 08 2017 WARREN W. SCHAEFER, P.E. P.E. NO. 47132	
DRAWING NO. 1926		SHEET NO. 2 OF 6	



GLASS OPTIONS (NON-I.G. GLASS):

OPTION 1: 3/8" LAMINATED GLASS (5/32" AN/0.09
KURARAY SG/5/32" AN)
OPTION 3: 9/16" LAMINATED GLASS (1/4" AN/0.09
KURARAY SG/1/4" AN)
OPTION 5: 9/16" LAMINATED GLASS (1/4" HT.
ST./0.09 KURARAY SG/1/4" HT. ST.)



GLASS OPTIONS (I.G. GLASS)

OPTION 2: 7/8" THICK I.G. GLASS (5/32" TEMP EXTERIOR; 5/16" SPACER; 5/32" AN/0.09 KURARAY SG/5/32" AN INTERIOR)

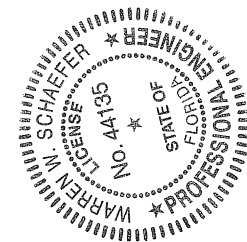
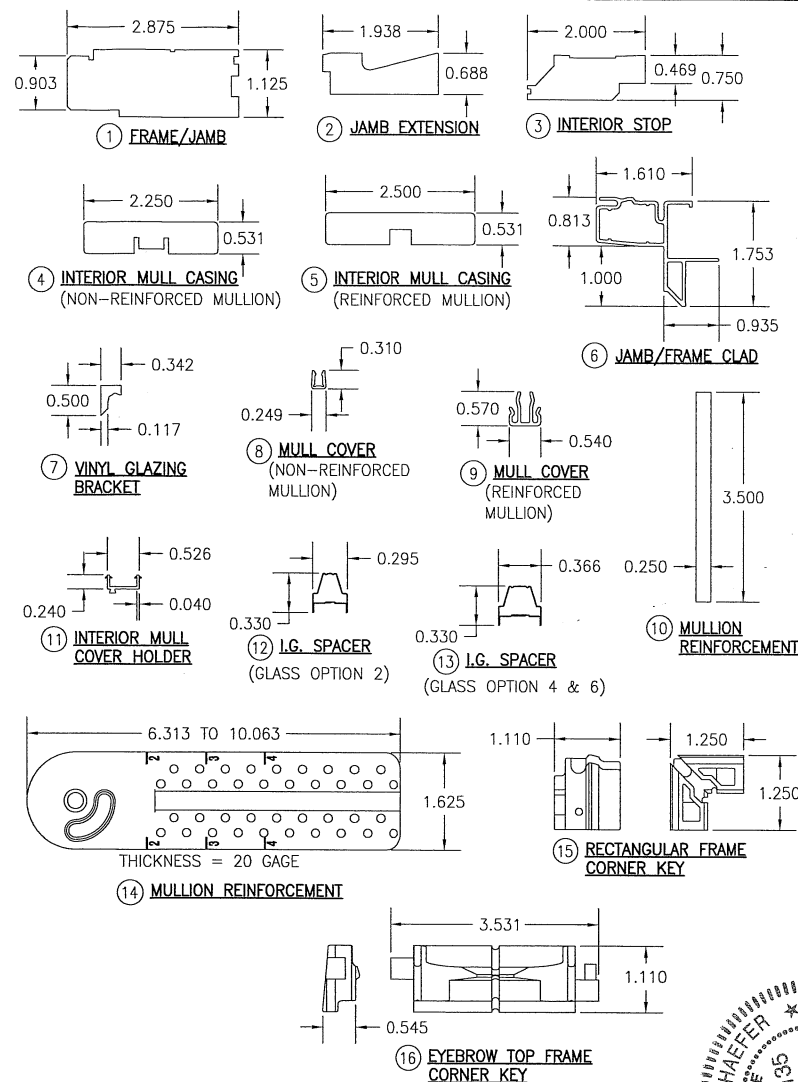
OPTION 4: 1 3/16" THICK I.G. GLASS (1/4" TEMP EXTERIOR; 3/8" SPACER; 1/4" AN/0.09 KURARAY SG/1/4" AN INTERIOR)

OPTION 6: 1 3/16" THICK I.G. GLASS (1/4" TEMP EXTERIOR; 3/8" SPACER; 1/4" HT. ST./0.09 KURARAY SG/1/4" HT. ST. INTERIOR)

DRAWING NO.		1926		SHEET NO.		5 OF 6	
DRAWING TITLE		ULTRA SERIES BEVELED IMPACT DIRECT GLAZED WINDOWS					
CONSULTANTS		W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PALM BEACH, FL 33418 (407) 851-1500 (407) 851-1501 (407) 851-1502 (407) 851-1503 (407) 851-1504 (407) 851-1505 (407) 851-1506 (407) 851-1507 (407) 851-1508 (407) 851-1509 (407) 851-1510 (407) 851-1511 (407) 851-1512 (407) 851-1513 (407) 851-1514 (407) 851-1515 (407) 851-1516 (407) 851-1517 (407) 851-1518 (407) 851-1519 (407) 851-1520 (407) 851-1521 (407) 851-1522 (407) 851-1523 (407) 851-1524 (407) 851-1525 (407) 851-1526 (407) 851-1527 (407) 851-1528 (407) 851-1529 (407) 851-1530 (407) 851-1531 (407) 851-1532 (407) 851-1533 (407) 851-1534 (407) 851-1535 (407) 851-1536 (407) 851-1537 (407) 851-1538 (407) 851-1539 (407) 851-1540 (407) 851-1541 (407) 851-1542 (407) 851-1543 (407) 851-1544 (407) 851-1545 (407) 851-1546 (407) 851-1547 (407) 851-1548 (407) 851-1549 (407) 851-1550 (407) 851-1551 (407) 851-1552 (407) 851-1553 (407) 851-1554 (407) 851-1555 (407) 851-1556 (407) 851-1557 (407) 851-1558 (407) 851-1559 (407) 851-1560 (407) 851-1561 (407) 851-1562 (407) 851-1563 (407) 851-1564 (407) 851-1565 (407) 851-1566 (407) 851-1567 (407) 851-1568 (407) 851-1569 (407) 851-1570 (407) 851-1571 (407) 851-1572 (407) 851-1573 (407) 851-1574 (407) 851-1575 (407) 851-1576 (407) 851-1577 (407) 851-1578 (407) 851-1579 (407) 851-1580 (407) 851-1581 (407) 851-1582 (407) 851-1583 (407) 851-1584 (407) 851-1585 (407) 851-1586 (407) 851-1587 (407) 851-1588 (407) 851-1589 (407) 851-1590 (407) 851-1591 (407) 851-1592 (407) 851-1593 (407) 851-1594 (407) 851-1595 (407) 851-1596 (407) 851-1597 (407) 851-1598 (407) 851-1599 (407) 851-1600 (407) 851-1601 (407) 851-1602 (407) 851-1603 (407) 851-1604 (407) 851-1605 (407) 851-1606 (407) 851-1607 (407) 851-1608 (407) 851-1609 (407) 851-1610 (407) 851-1611 (407) 851-1612 (407) 851-1613 (407) 851-1614 (407) 851-1615 (407) 851-1616 (407) 851-1617 (407) 851-1618 (407) 851-1619 (407) 851-1620 (407) 851-1621 (407) 851-1622 (407) 851-1623 (407) 851-1624 (407) 851-1625 (407) 851-1626 (407) 851-1627 (407) 851-1628 (407) 851-1629 (407) 851-1630 (407) 851-1631 (407) 851-1632 (407) 851-1633 (407) 851-1634 (407) 851-1635 (407) 851-1636 (407) 851-1637 (407) 851-1638 (407) 851-1639 (407) 851-1640 (407) 851-1641 (407) 851-1642 (407) 851-1643 (407) 851-1644 (407) 851-1645 (407) 851-1646 (407) 851-1647 (407) 851-1648 (407) 851-1649 (407) 851-1650 (407) 851-1651 (407) 851-1652 (407) 851-1653 (407) 851-1654 (407) 851-1655 (407) 851-1656 (407) 851-1657 (407) 851-1658 (407) 851-1659 (407) 851-1660 (407) 851-1661 (407) 851-1662 (407) 851-1663 (407) 851-1664 (407) 851-1665 (407) 851-1666 (407) 851-1667 (407) 851-1668 (407) 851-1669 (407) 851-1670 (407) 851-1671 (407) 851-1672 (407) 851-1673 (407) 851-1674 (407) 851-1675 (407) 851-1676 (407) 851-1677 (407) 851-1678 (407) 851-1679 (407) 851-1680 (407) 851-1681 (407) 851-1682 (407) 851-1683 (407) 851-1684 (407) 851-1685 (407) 851-1686 (407) 851-1687 (407) 851-1688 (407) 851-1689 (407) 851-1690 (407) 851-1691 (407) 851-1692 (407) 851-1693 (407) 851-1694 (407) 851-1695 (407) 851-1696 (407) 851-1697 (407) 851-1698 (407) 851-1699 (407) 851-1700 (407) 851-1701 (407) 851-1702 (407) 851-1703 (407) 851-1704 (407) 851-1705 (407) 851-1706 (407) 851-1707 (407) 851-1708 (407) 851-1709 (407) 851-1710 (407) 851-1711 (407) 851-1712 (407) 851-1713 (407) 851-1714 (407) 851-1715					

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	FRAME/JAMB	WOOD
2	JAMB EXTENSION	WOOD
3	INTERIOR STOP	WOOD
4	INTERIOR MULL CASING (NON-REINF. MULL)	WOOD
5	INTERIOR MULL CASING (REINF. MULL)	WOOD
6	JAMB/FRAME CLAD	6063-T5 ALUMINUM
7	VINYL GLAZING BRACKET	RIGID PVC
8	MULL COVER (NON-REINF. MULL)	6063-T5 ALUMINUM
9	MULL COVER (REINF. MULL)	6063-T5 ALUMINUM
10	MULLION REINFORCEMENT	MIN. 36 KSI STEEL
11	INTERIOR MULL COVER HOLDER	FLEXIBLE PVC
12	I.G. SPACER	0.005" THICK STAINLESS STEEL
13	I.G. SPACER	0.005" THICK STAINLESS STEEL
14	INSTALLATION CLIP	33 KSI GALV. STEEL
15	RECTANGULAR FRAME CORNER KEY	POLYCARBONATE
16	EYE-BROW TOP FRAME CORNER KEY	POLYCARBONATE
SEALS & SEALANTS		
20	3/32" X 1/2" X 1 1/2" RUBBER SHIM	4" TO 5" FROM EACH CORNER. ONE AT CENTER FOR ALL SIDES > 50"
21	GLAZING TAPE	K-GLAZE 1/16" X 1/4" DOUBLE SIDED
FASTENERS		
25	7/16" X 1 1/4" 16 GA. CROWN STAPLE	WITHIN 2" OF ENDS AND 8" TO 10" O.C.
26	3/16" X 1 1/8" 16 GA. CROWN STAPLE	WITHIN 2" OF ENDS AND 6" TO 8" O.C.
27	NO. 8 X 2" PFH SMS	WITHIN 3" OF ENDS AND 6" MAX. O.C.
28	NO. 8 X 2 1/4" PFH SMS	WITHIN 3" OF ENDS AND 6" MAX. O.C.
29	NO. 8 X 1" SMS	4" FROM ENDS AND 1 AT CENTER
30	18 GAGE X 1 1/4" BRAD NAILS	2" FROM ENDS AND 8" O.C. (2 ROWS)
31	NO. 6 X 1 1/4" PFH SMS	1" FROM ENDS AND 8" O.C.
32	NO. 6 X 3/4" PFH SMS	3/8" FROM EACH CORNER
33	16 GAGE X 3/4" BRAD NAILS	WITHIN 4" OF CORNERS & 6" TO 8" O.C.

NOTE: WOOD USED IN TESTING WAS PINE WITH A SPECIFIC GRAVITY OF $G = 0.43$ AND A MODULUS OF ELASTICITY OF $E = 1,200,000$ PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY KOLBE & KOLBE TO SELECT.



DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-16		DATE: 01/19/17	
DATE	BY	REVISION	DESCRIPTION
DRAWING TITLE: ULTRA SERIES BEVELED IMPACT DIRECT GLAZED WINDOWS			
MANUFACTURER: KOLBE & KOLBE MILLWORK CO., INC. 1323 SOUTH 11TH AVE. WAUSAU, WI 54401 715-842-5666			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH, FL 33418 PHONE: 561-744-3424			
CERTIFICATION	MAP 08 2017 WARREN W. SCHAEFER, P.E. LICENSE NO. 44133		
DRAWING NO. 1926	REV.		
SHEET NO. 6	OF	6	