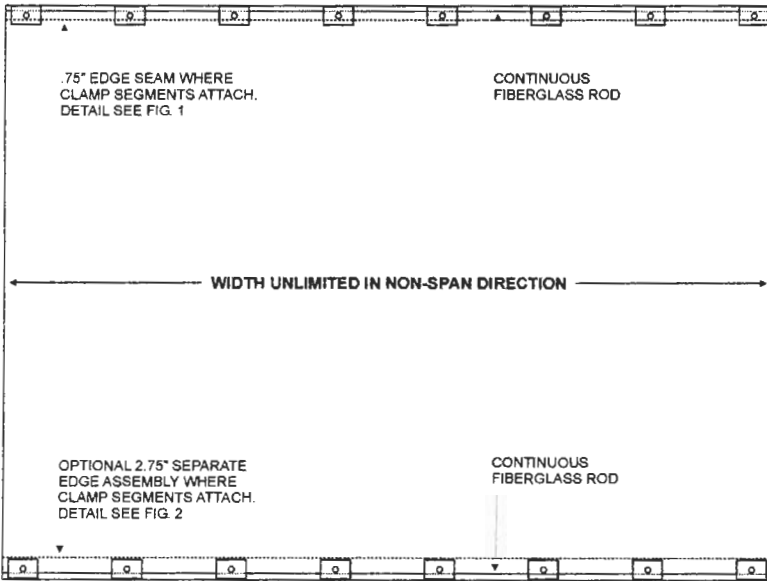
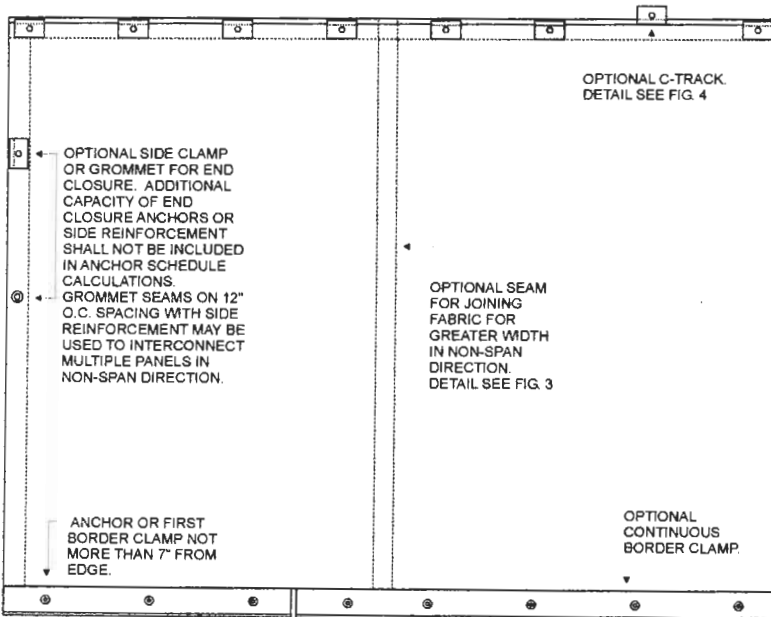


LARGE MISSILE IMPACT RESISTANT

TYPICAL PANEL FRONT VIEW



OPTIONAL PANEL CONFIGURATIONS



DESIGN PRESSURE
+66.1 PSF/ -66.1 PSF

MAXIMUM ANCHOR SPAN

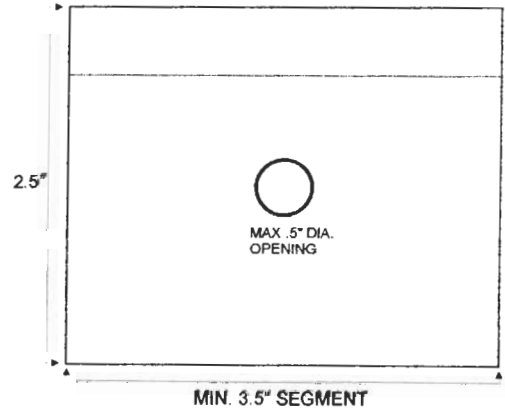
8'-6"

GENERAL NOTES:

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED AS A LARGE MISSILE IMPACT PROTECTIVE SYSTEM IN ACCORDANCE WITH THE 2007 FLORIDA BUILDING CODE, FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE PER TAS 201-94, TAS 202-94, TAS 203-94 AND IN ACCORDANCE WITH THE 2006 INTERNATIONAL BUILDING CODE ASTM E1886-05, E1996-05 AND ASTM E330-02 TEST STANDARDS.
2. THE SYSTEM DESCRIBED HEREIN IS DESIGNED FOR USE AS A PROTECTED OPENING IMPACT SCREEN DURING PERIODS OF HIGH WINDS. THE SCREEN IS TEMPORARY AND REMOVABLE AND NOT INTENDED TO BE A PERMANENT PART OF THE STRUCTURE.
3. THE SYSTEM DESCRIBED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT AS REQUIRED FOR INSTALLATIONS OUTSIDE BOUNDARIES AS SHOWN.
4. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS.
5. ALL BOLTS, WASHERS, FASTENERS SHALL BE GALVANIZED STEEL, NICKEL/ ZINC COATED STEEL, OR STAINLESS STEEL HAVING A MINIMUM TENSILE STRESS OF 60,000 PSI.
6. THE SCREEN DESCRIBED HEREIN SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SCREEN. LABEL INFORMATION SHALL CONTAIN THE MANUFACTURER'S NAME, INFORMATION DESCRIBING THE PRODUCT, INFORMATION DESCRIBING LIMITATIONS OF USE, AND THE FLORIDA PRODUCT APPROVAL NUMBER.

STORMWATCH BORDER CLAMP

PART NO. 1
 FRONT VIEW



SIDE VIEW

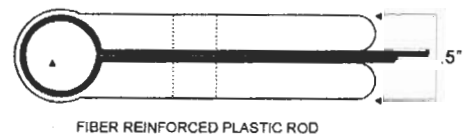


FIG. 1 75° MIN. THERMAL OR CHEMICAL WELD



FIG. 2 75° MIN. THERMAL OR CHEMICAL WELD



OPTIONAL SEPARATE EDGE ASSEMBLY

FIG. 3 75° MIN. THERMAL OR CHEMICAL WELD



CHEMICAL WELD NOTES:
 CHEMICAL WELDS MAY ONLY BE MADE WITH STORMWATCH LABELED ADHESIVES.
 CHEMICAL WELDS REQUIRE 48 HOURS TO CURE TO REACH DESIGN PRESSURE.

Daniel T. Koenig
 2/18/09



Installation Instructions

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 PROFESSIONAL ENGINEER
 FLORIDA LICENSE# 52999
 8531 LAKE CYPRESS ROAD
 LAKE WORTH FL 33467

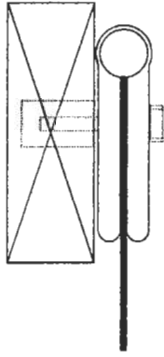
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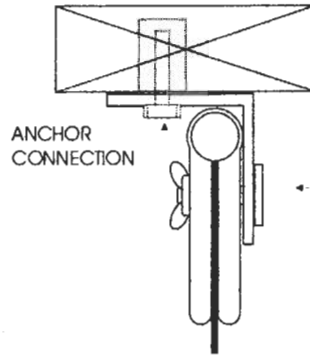
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TYPICAL MOUNT



GENERIC ANCHORS SHOWN ARE FOR ILLUSTRATION: ANCHOR TYPE AND SPACING PER ANCHOR SCHEDULE.

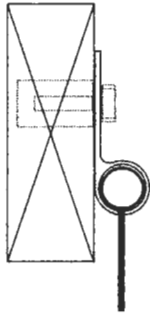
**OPTIONAL MOUNT
1/8" ALUMINUM ANGLE
FOR 12" ANCHOR SPACING**



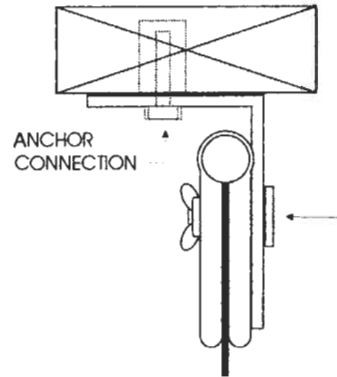
INTERMEDIARY CONNECTIONS:
1/4"-20 TRUSS HEAD BOLT W/WASHER WING NUT ON 12" OC

FIG. 4

**OPTIONAL MOUNT
ALUMINUM C-TRACK**



**OPTIONAL MOUNT
3/16" ALUMINUM ANGLE
MAX 24" ANCHOR SPACING**



BORDER CLAMP NOTES:

1. BORDER CLAMP MAY BE A MIN 3.5" SEGMENT OR CONTINUOUS. COMPLEMENTARY FIBERGLASS ROD IS ALWAYS CONTINUOUS BUT MAY BE MORE THAN ONE PIECE. INSTALLER MAY UTILIZE SEGMENTED AND CONTINUOUS BORDER SECTIONS IN THE SAME PANEL.
2. DIRECT MOUNT CONNECTIONS MAY USE TRUSS HEAD MACHINE SCREWS, WASHER WING NUTS OR BOLTS WITH WASHERS FOR A MIN. HEAD DIA. TWICE THE DIA. OF OPENING.

ALUMINUM COMPONENTS INSTALLATION NOTES:

1. MAX 2"x3" ALUMINUM ANGLE OR MAX 2"x.75" ALUMINUM C-TRACK WITH A MIN. 1/8" CROSS SECTION AND OF A CONTINUOUS OR SEGMENTED SECTION WITH A MIN. LENGTH OF 3.5" MAY BE USED WITH MAX 12" O.C. ANCHORS INTO SUBSTRATE PER ANCHOR SCHEDULE. INTERMEDIARY PANEL TO ANGLE CONNECTIONS ARE SPACED ON 12" CENTERS.
2. CONTINUOUS SECTIONS OF 2"x3" ALUMINUM ANGLE WITH A MIN 3/16" CROSS SECTION MAY BE USED WITH MAX 24" O.C. ANCHORS INTO SUBSTRATE TO MAX. SPAN PER ANCHOR SCHEDULE. INTERMEDIARY PANEL TO ANGLE CONNECTIONS ARE SPACED ON 12" CENTERS.
3. INTERMEDIARY CONNECTIONS MAY USE 1/4-20 TRUSS HEAD MACHINE SCREWS WITH WASHER WING NUT OR NUT WITH WASHER FOR A MIN. HEAD DIA. TWICE THE DIA. OF OPENING.

ANCHOR NOTES:

1. MINIMUM EDGE DISTANCE AND EMBEDMENT EXCLUDES ALL WALL FINISHES INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING (SEE FIG. 5). FIELD VERIFY THE THICKNESS OF FINISHES AND LOCATION OF STRUCTURAL FRAMING FOR PROPER ANCHOR EDGE DISTANCE AND EMBEDMENT.
2. WHERE STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT ANCHORS ARE PLACED INTO WOOD FRAMING AND NOT PLYWOOD AND THAT WOOD FRAMING IS NOT DETERIORATED.
3. SPAN IS MEASURED ANCHOR TO ANCHOR.
4. THE ANCHOR SCHEDULE REFERENCES THE INDICATED MANUFACTURER'S INSTALLATION INSTRUCTIONS AND TEST RESULTS. INSTALL ANCHORS PER MANUFACTURER'S DIRECTIONS.
5. ANCHOR CONNECTIONS SHALL BE MADE WITH CORRESPONDING MACHINE SCREWS HAVING A MINIMUM TENSILE STRESS OF 60,000 PSI. CONNECTIONS MAY USE WASHER WING NUTS OR BOLTS WITH WASHERS OF MIN. HEAD DIA. TWICE THE DIA. OF OPENING.

Daniel T. Koenig
2/18/09



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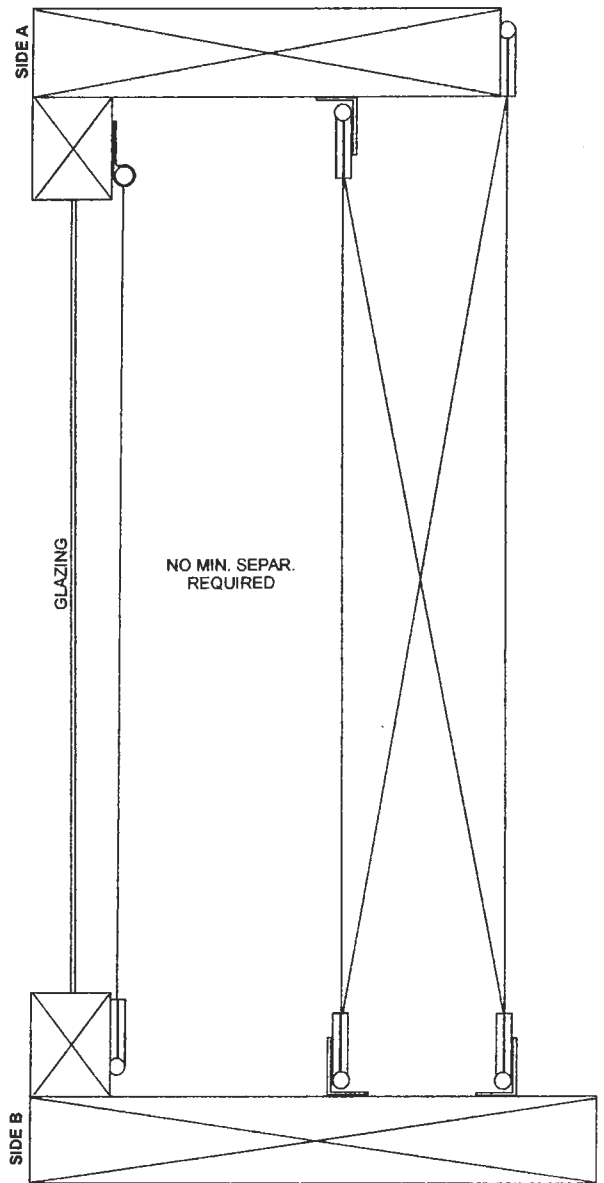
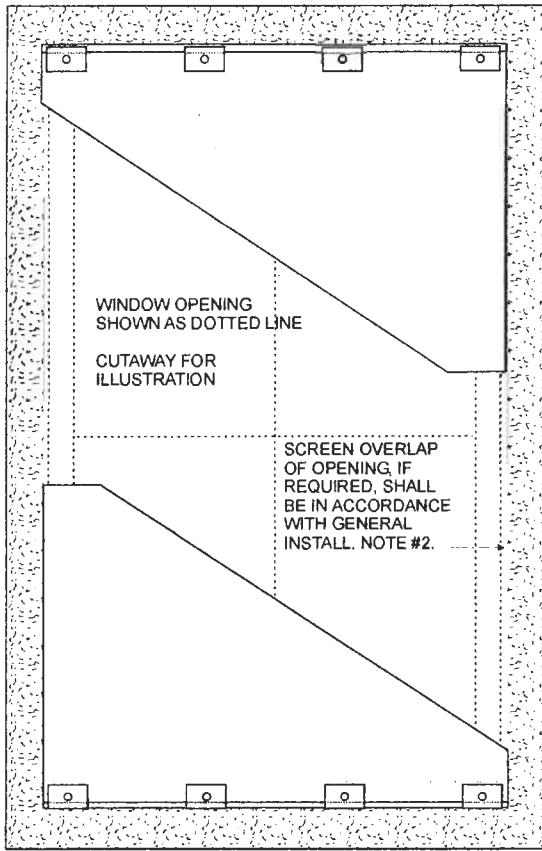
Installation Instructions

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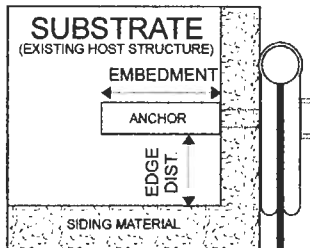
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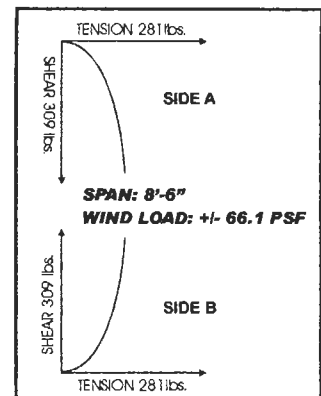
GENERAL INSTALLATION NOTES:

1. THIS SYSTEM DESCRIBED HEREIN MAY BE USED AS A NON-POROUS SHUTTER SYSTEM. NO MINIMUM SEPARATION FROM THE PROTECTED GLAZING IS REQUIRED.
2. SHUTTER SHALL BE INSTALLED IN A MANNER TO COMPLETELY COVER THE ENTIRE OPENING IN ALL DIRECTIONS. ON ANY SIDE OF AN OPENING, THE MAXIMUM SIDE CLEARANCE BETWEEN THE SCREEN AND A WALL OR INSET SURFACE SHALL BE 1/4". ANY DISTANCE IN EXCESS OF 1/4" SHALL REQUIRE END CLOSURE OR SCREEN OVERLAP OF A MINIMUM OF 1.5 TIMES THE SIDE CLEARANCE BETWEEN THE SCREEN AND WALL.
3. MULTIPLE UNITS MAY BE INSTALLED TO UNLIMITED NON-SPAN WIDTHS.
4. SCREEN MAY BE MOUNTED VERTICALLY OR HORIZONTALLY. DO NOT FORCE TENSION INTO SCREEN WHEN INSTALLING.

FIG. 5



MAXIMUM SUPERIMPOSED LOADS ON HOST STRUCTURE PER LINEAR FOOT AT INDICATED WIND LOAD AND SPAN



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ANCHOR SCHEDULE +/- 66.1PSF

ANCHOR		MIN EMBED	MIN EDGE DIST	SPANS TO: 5'-0"	SPANS TO: 6'-0"	SPANS TO: 7'-0"	SPANS TO: 8'-0"	SPANS TO: 8'-6"
WOOD SG=0.55	1/4"ELCO PANELMATE MALE OR FEMALE	1-7/8"	3/4"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4"ELCO PANELMATE MALE OR FEMALE	1-1/2"	2"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4" SAMMY SUPER SCREW SSW	1-1/2"	2"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4" LAG BOLT	3"	2"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	3/8" LAG BOLT	3"	3"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	3/8" HANGER BOLT	3"	3"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	3/8" LAG OR HANGER BOLT W/2"X3"X3/16" ALUM. ANGLE	3"	3"	24" O.C.	24" O.C.	24" O.C.	24" O.C.	24" O.C.
CONCRETE 3323psi	1/4"ELCO PANELMATE MALE	2"	2-1/2"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4"ELCO PANELMATE FEMALE	1-3/4"	2-1/2"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4" ELCO PANELMATE INSERT	1-5/8"	4"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4" SAMMY SUPER SCREW SSC	2-1/4"	1-1/4"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4" SAMMY SUPER SCREW SSC	2-1/4"	2-1/2"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4" POWERS DROP-IN	1"	3"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4-20 POWERS CALK-IN	7/8"	2"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4-20 POWERS CALK-IN	7/8"	3"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4" TAPCON SG	1-3/4"	2-1/2"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4" TAPCON	1-3/4"	2-1/2"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4" POWERS TAPPER	1-3/4"	3"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4" POWERS POWER BOLT	2-1/2"	3"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4" POWERS POWER STUD	1-1/2"	3"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4" POWERS WEDGE-BOLT	2"	2"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	5/16" TAPCON	2-1/4"	2-3/16"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	3/8-16 POWERS CALK-IN	1-1/4"	4"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	3/8 POWERS DROP-IN	1-9/16"	2-5/8"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	3/8" POWERS POWER BOLT	2-1/2"	4"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	3/8" POWERS POWER STUD	3"	4"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	3/8" POWERS WEDGE BOLT	2-1/2"	3"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
HOLLOW BLOCK 1500 psi	1/4"ELCO PANELMATE MALE	1-1/4"	3"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4"ELCO PANELMATE FEMALE	1-1/4"	3"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	10" O.C.
	1/4" ELCO PANELMATE INSERT	1-1/4"	1-3/4"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4" ELCO PANELMATE INSERT	1-1/4"	3-1/2"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4" TAPCON SG	1-1/4"	2-1/2"	12" O.C.	12" O.C.	12" O.C.	12" O.C.	12" O.C.
	1/4" TAPCON	1-1/4"	2-1/2"	12" O.C.	12" O.C.	9" O.C.	9" O.C.	8" O.C.
	1/4-20 POWERS CALK-IN	7/8"	3"	12" O.C.	12" O.C.	12" O.C.	9" O.C.	9" O.C.



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