

Manufacturer:
Florida & Shutters, Inc
 1271 LAQUINTA DRIVE, SUITE #5
 ORLANDO, FL 32809
 TEL: (407) 830-9998
 FAX: (407) 836-0977

Product:
ADVANCED ROLL SYSTEM ROLLING SHUTTER

Engineering:
EngCo Inc.
 CA 8116
 6971 W. Sunrise Blvd. 104
 Plantation, FL 33313
 Tel: (954) 585-0304
 Fax: (954) 585-0305

EngCo

AUG 04 2006
 Engineer: Saad
 Pacho De Figueroa
 PE 52609

DRAFTING:
PK DRAFTING & MORE

Date: 05/04/06
 Scale: NA
 Design by: PPMF

Drawing Number
06-231

Sheet
1 of 4

TYPICAL ELEVATION

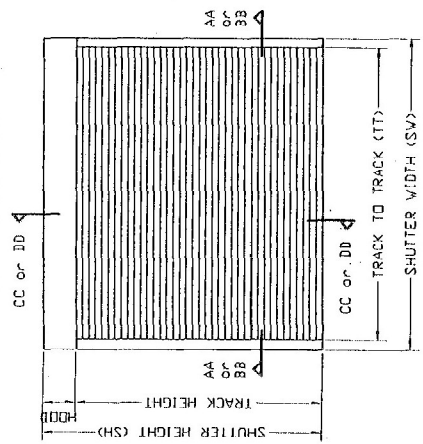
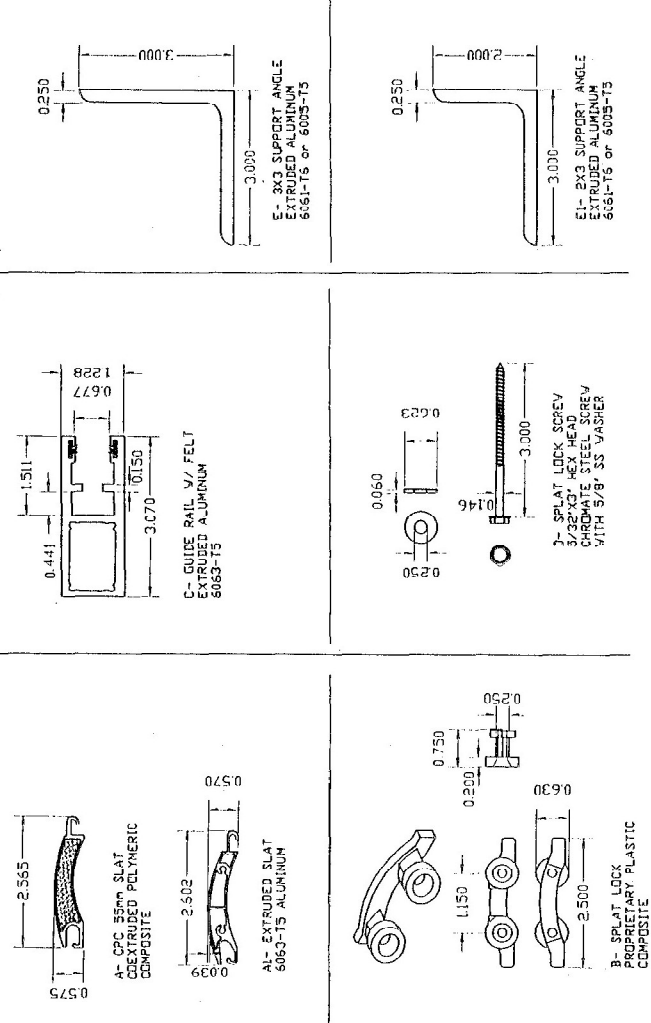


TABLE 1 - ALLOWABLE DESIGNED PRESSURE

TYPE	ALLOWABLE WIND PRESSURES	
	POSITIVE	NEGATIVE
1	+ 81.0	- 81.0
2	+ 83.2	- 83.2

NOTES:
 1- SHUTTER TYPE 1: SHUTTER MADE WITH SLATS A AND A1. DESIGNED PRESSURES MUST NOT EXCEED 81 PSF.
 2- SHUTTER TYPE 2: SHUTTER MADE WITH SLATS A1 ONLY. DESIGNED PRESSURES MUST NOT EXCEED 83.2 PSF.
 3- SHUTTER SIZE (TT) MUST NOT EXCEED 265 5/8"

SHUTTER COMPONENTS



- GENERAL NOTES:**
- DEFINITION: THIS PRODUCT IS A ROLLING TYPE SHUTTER, DESIGNED, CONSTRUCTED AND ERECTED TO EASILY ENCLOSE AN AREA, PROVIDING PROTECTION FROM HURRICANE FORCE WINDS WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL.
 - CODE: THIS PRODUCT HAS BEEN TESTED UNDER THE ASTM E1886 & 1996 (MISSILE LEVEL D) AND ASTM E330, AND HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 2004 EDITION (NOT APPLICABLE FOR USE WITHIN THE HIGH VELOCITY HURRICANE ZONES - BROWARD AND DADE COUNTIES).
 - POSTING: A PERMANENT LEGIBLE DECAL SHALL BE PLACED AT A READILY VISIBLE LOCATION STATING THE FOLLOWING:
 'FLORIDA BLINDS & SHUTTERS, INC.
 ORLANDO FLORIDA
 MISSILE LEVEL D IMPACT RESISTANT SHUTTER
 ADVANCED ROLL SYSTEM SHUTTER'
 - LOADS: THE DESIGNED LOAD MUST BE CALCULATED BY A PROFESSIONAL ARCHITECT OR ENGINEER AS PER ASCE 7. THE CALCULATED DESIGN PRESSURE MUST NOT EXCEED THE ALLOWABLE PRESSURES FOR EACH SHUTTER COMPONENT TO BE USED.
 - MATERIAL: ALL EXTRUDED ALUMINUM SHAPES SHALL BE MADE OF 5063-T5 OR AS NOTED.
 - FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL.
 - USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:
 7.1- THE STABILITY OF THE STRUCTURE WHERE THE SHUTTER IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
 7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, WIND LOADS, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
 7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.
 - DISCLAIMER: ENGCO INC. HAS NO CONTROL IN THE MANUFACTURING AND/OR PERFORMANCE OF THIS PRODUCT. THESE GENERIC PLANS WERE ENGINEERED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES AND TEST DATA PROVIDED BY THE MANUFACTURER.
 - ANCHORS: INCREASE IN ALLOWABLE LOADS HAVE NOT BEEN USED IN THE DESIGN OF THE ANCHORS FOR THIS PRODUCT APPROVAL, HOWEVER, VOID ANCHORS WITH 1.5 INCREASE FOR WIND LOAD DURATION HAVE BEEN USED.

TABLES SCHEDULE

COMPONENT	TABLE	SHEET
SLAT ALLOWABLE PRESSURE	1	1
TRACK ANCHORAGE	2, 3, 4	2

NOTES:
 1- ALLOWABLE DESIGNED PRESSURE ARE FUNCTION OF THE LOWEST ALLOWABLE DESIGNED LOAD FOR THE SLATS AND ANCHORAGE.
 2- THIS PRODUCT IS CONSIDERED 'NON POROUS', THEREFORE SLAT TO GLASS SEPARATION DUE TO WIND OR IMPACT DEFLECTION HAS NOT CONSIDERED IN EVALUATING THIS PRODUCT.