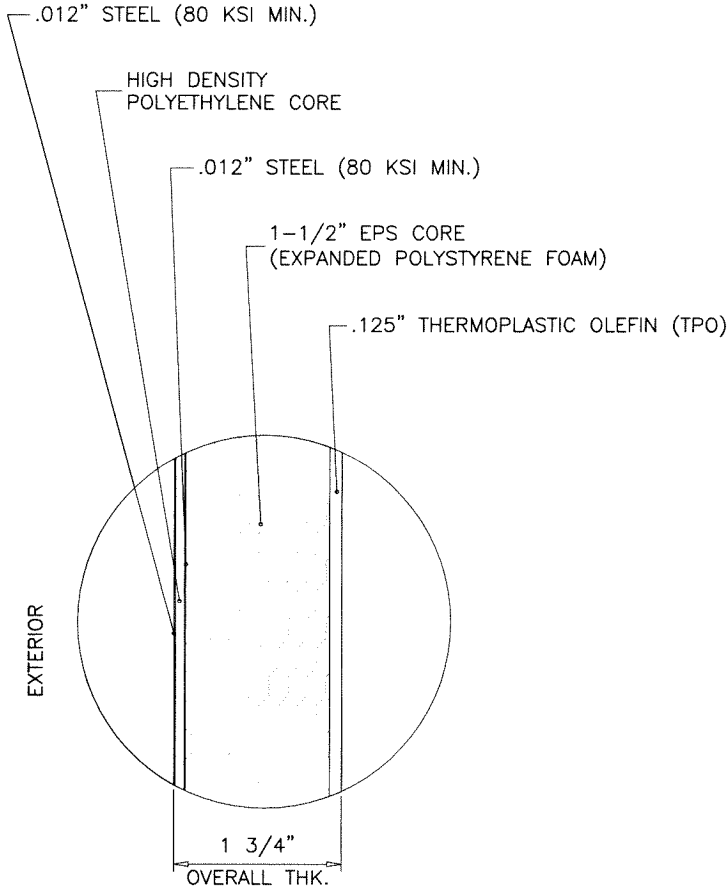


DOOR HEIGHT	NUMBER OF SECTIONS REQD.	
	21" SECTIONS	24" SECTIONS
5'-3"	3	0
7'-0"	4	0
7'-6"	2	2
8'-0"	0	4
8'-9"	5	0
9'-0"	4	1
10'-0"	0	5
11'-0"	4	2
12'-0"	0	6
13'-0"	4	3
14'-0"	0	7
7'-9"	1	3
9'-3"	3	2
9'-6"	2	3
10'-6"	6	0
10'-9"	5	1
11'-6"	2	4
11'-9"	1	5
12'-6"	6	1
12'-9"	5	2



COMPOSITE SECTION DETAIL
EXTERIOR FINISHES HIGH GLOSS POLYSTER PAINT

THESE DOORS ARE NOT RATED FOR IMPACT.

INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS.

INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA MUST MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

DOOR TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF FLORIDA BUILDING CODE, TAS-202, ASTM E330 AND ANSI/DASMA 108.

Series 'DuraFlex1' (12'-2")
Sectional Garage Door

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.

LABELING TO COMPLY WITH SECTION 1709.9.2.

Sealed: 10/17/2023 FL #36855

- A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

GARAGE\20-31F-DSC

DuraFlex1 12'-2" Sectional Garage Door (N.I.)

DuraServ Corp.
11431 Ferrell Drive, Suite 200
Farmers Branch, TX 75234
Tel: (800) 994-2361 Fax: (-)

revisions:	no	date	by	description
	A	10.12.23		UPDATED TO 2023 FBC
date:	03-13-20			
scale:	1/2" = 1"			
dr. by:	TARIQ			
chk. by:				
drawing no.	20-31F			
sheet	1 of 6			

TOP BRACKET
12 GA. STEEL
FASTENED TO
END STILE WITH
(4) #14 X 3/4"
SELF DRILLING SCREWS

5/16 X 3/4"
CARRIAGE BOLTS
& HEX FLANGE NUTS
(3) PER TOP ROLLER SLIDE

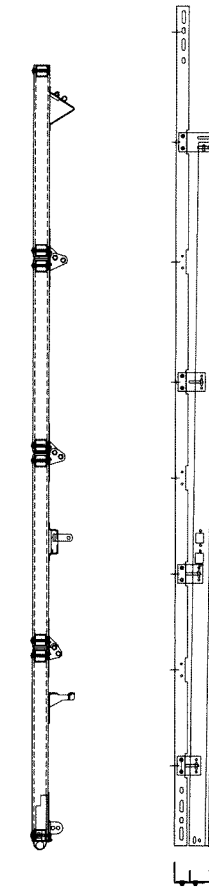
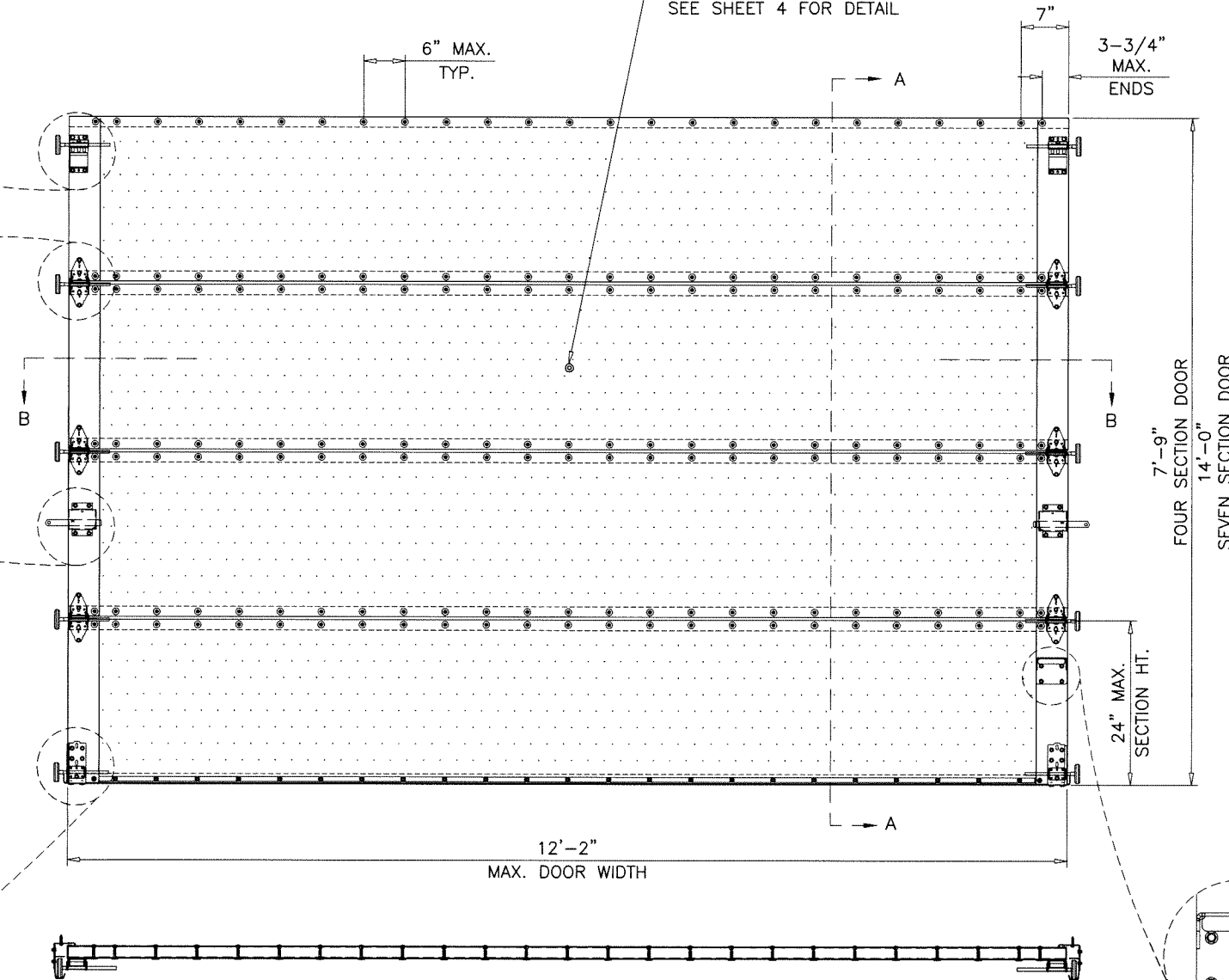
END ROLLER HINGE
11 GA. STEEL
FASTENED TO END STILE
WITH (6) #14 X 5/8"
SELF DRILLING SCREWS

3" Steel Roller
7 1/2" Stem Length
High Strength Stem

STANDARD LOCK
SPRING LOADED SLIDE BOLT (BOTH SIDES)
FASTENED W/ (4) #14 X 1/2" S.M.S.
5/8" MIN. LOCK ENGAGEMENT
CONFORMS TO SECTION 1008 REGARDING
GARAGE DOORS

BOTTOM BRACKET
12 GA. STEEL
FASTENED WITH
(5) #14 X 1/2" SELF DRILLING SCREWS

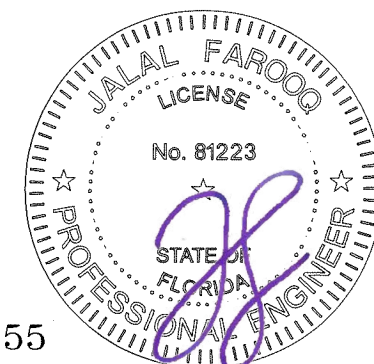
OPTIONAL DOOR VIEWER
SEE SHEET 4 FOR DETAIL



STEP PLATE/LIFT HANDLE
10 GA. STEEL
FASTENED WITH
(4) #14 SELF DRILLING SCREWS

INSIDE ELEVATION

MAXIMUM DESIGN LOAD RATING = + 46.7 PSF
(FOR DOOR SIZE SHOWN OR SMALLER) - 52.9 PSF



Sealed: 10/17/2023

FL #36855

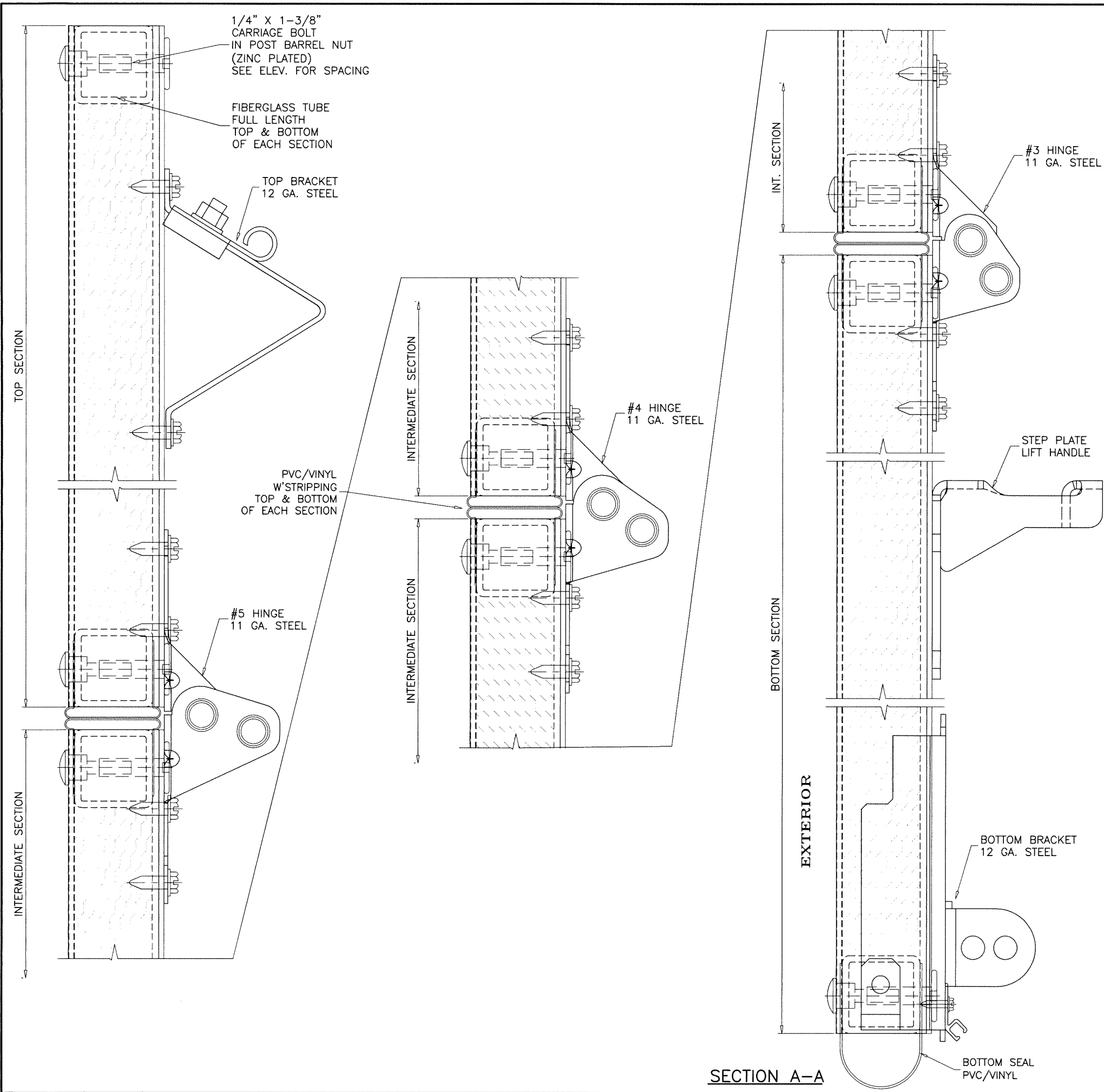
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (305) 262-6978
(C.A.N. 3538)

DuraFlex1 12'-2" Sectional Garage Door (N.I.)

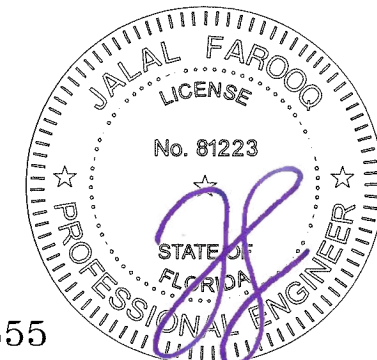
DuraServ Corp.
11431 Ferrell Drive, Suite 200
Farmers Branch, TX 75234
Tel: (800) 994-2361 Fax: (-)

revisions:		date:		scale:		dr. by:		chk. by:		drawing no.		sheet	
no	date	no	date	1/2"=1'-0"	1/2"=1'-0"	TARIQ				20-31F		2	of 6

GARAGE\20-31F-DSC



SECTION A-A



Sealed: 10/17/2023

FL #36855

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL: (305) 264-8100 FAX: (305) 262-6978

a f c

GARAGE\20-31F-DSC

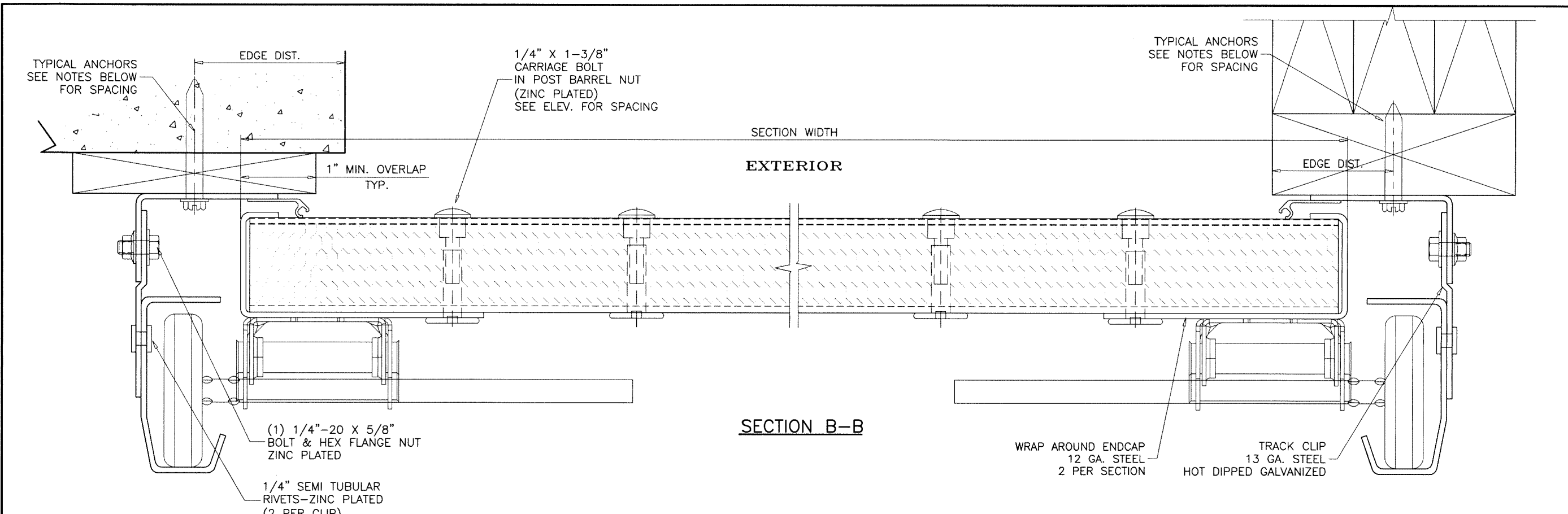
DuraFlex1 12'-2" Sectional Garage Door (N.I.)

DuraServ Corp.
11431 Ferrell Drive, Suite 200
Farmers Branch, TX 75234
Tel: (800) 994-2361 Fax: (-)

revisions:	
no	date by description

date: 03-13-20
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
20-31F
sheet 3 of 6



TYPICAL ANCHORS:

5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)

THRU 1BY OR 2BY BUCKS INTO CONCRETE
 1-3/4" MIN. EMBED INTO CONCRETE
 AT 4" FROM BOTTOM AND 6" O.C. MAX.

DIRECTLY INTO CONCRETE
 1-3/4" MIN. EMBED INTO CONCRETE
 AT 4" FROM BOTTOM AND 12" O.C. MAX.

3/8" DIA. KWIK BOLT-3 EXPANSION ANCHOR BY 'HILTI'

DIRECTLY INTO MASONRY
 2-1/2" MIN. EMBED INTO GROUT-FILLED BLOCKS
 AT 4" FROM BOTTOM AND 6" O.C. MAX.
 4" MIN. EDGE DISTANCE

5/16" DIA. DRIL-FLEX SELF DRILLING SCREWS BY 'DEWALT' (GRADE 5 CRS)

INTO METAL STRUCTURES
 AT 4" FROM BOTTOM AND 12" O.C. MAX.
 STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

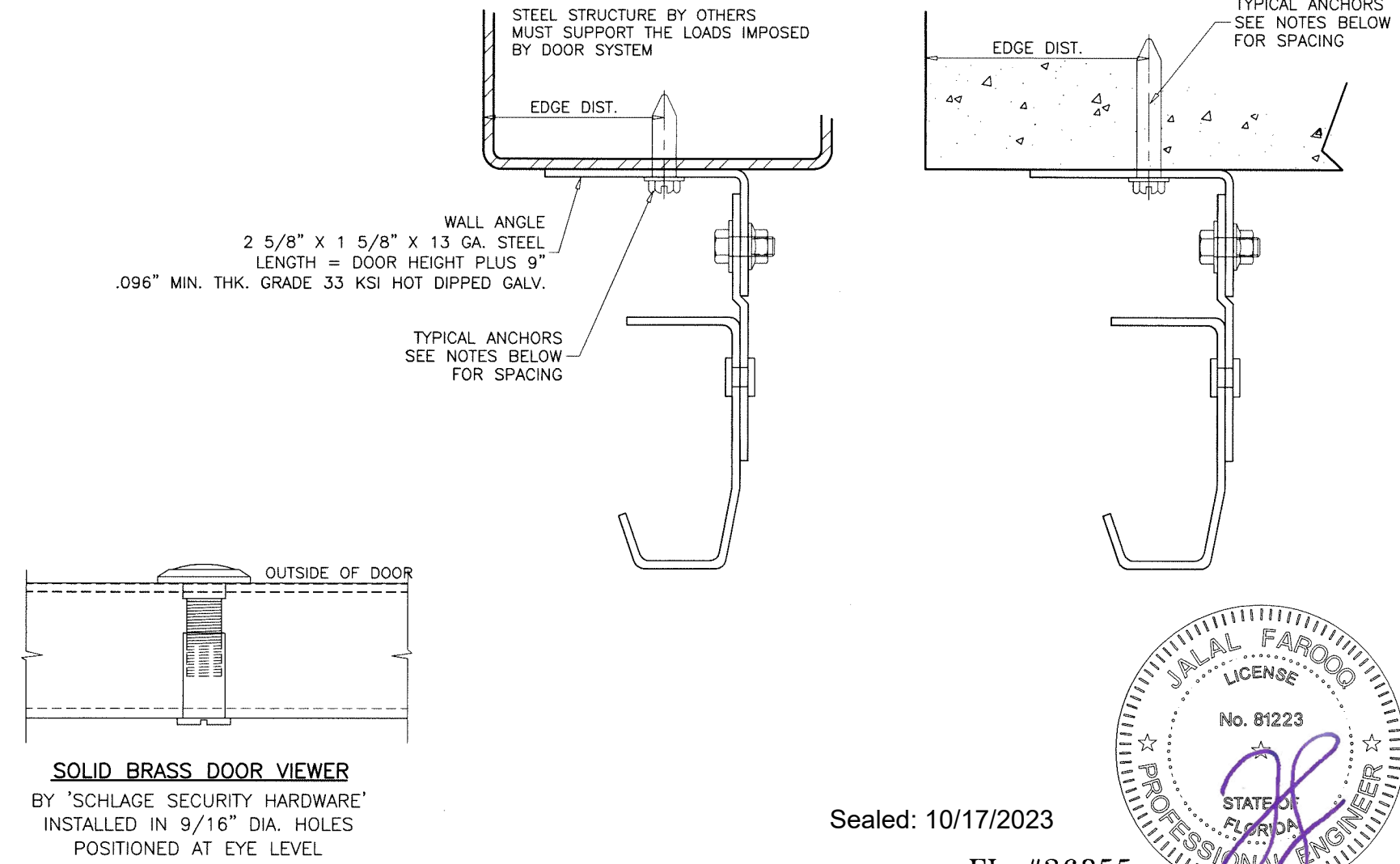
5/16" DIA. LAG SCREWS

INTO WOOD STRUCTURES
 2" MIN. PENETRATION INTO WOOD
 AT 4" FROM BOTTOM AND 6" O.C. MAX.

TYPICAL EDGE DISTANCE

INTO CONCRETE = 2-3/16" MIN.
 INTO FILLED BLOCKS = 4" MIN.
 INTO WOOD STRUCTURE = 1-1/2" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD SG = 0.55 MIN.
 CONCRETE f'_c = 3000 PSI MIN.
 C-90 GROUT FILLED BLOCK f'_m = 2000 PSI MIN.



AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 FAX. (305) 262-6978

af c

GARAGE 20-31F-DSC

DuraFlex 12'-2" Sectional Garage Door (N.I.)

DuraServ Corp.
 11431 Ferrell Drive, Suite 200
 Farmers Branch, TX 75234
 Tel: (800) 994-2361 Fax: (-)

Revisions:

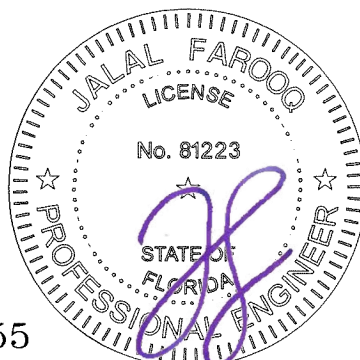
no	date	by	description

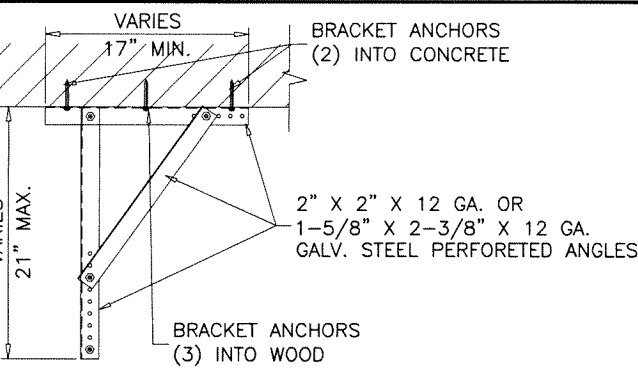
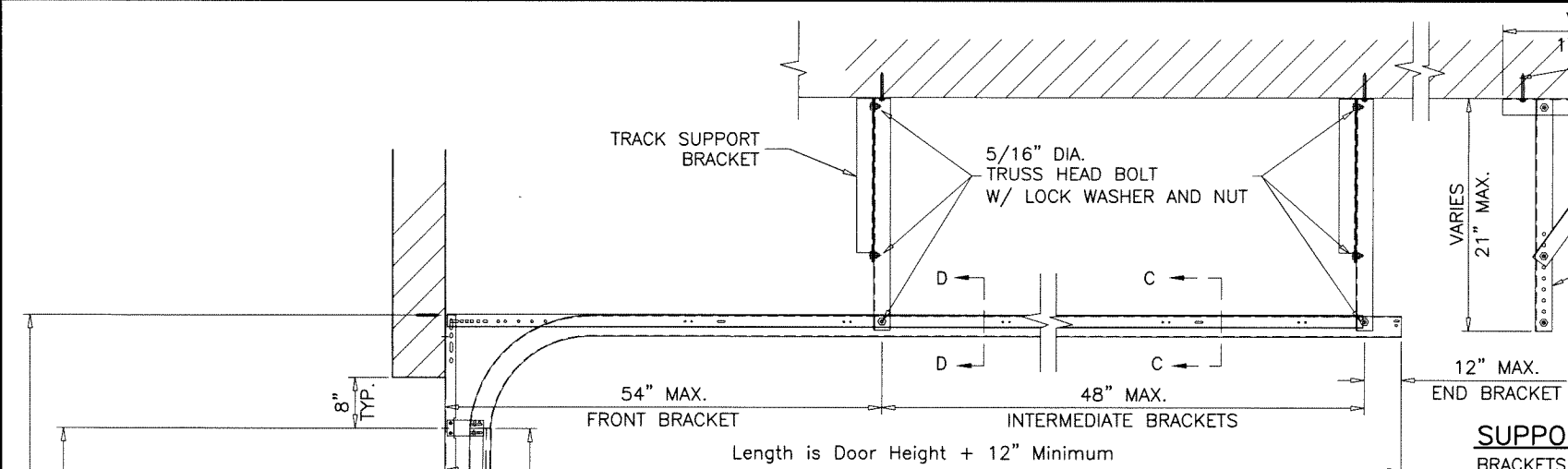
date: 03-13-20
 scale: 1/2" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
20-31F
 sheet 4 of 6

Sealed: 10/17/2023

FL #36855

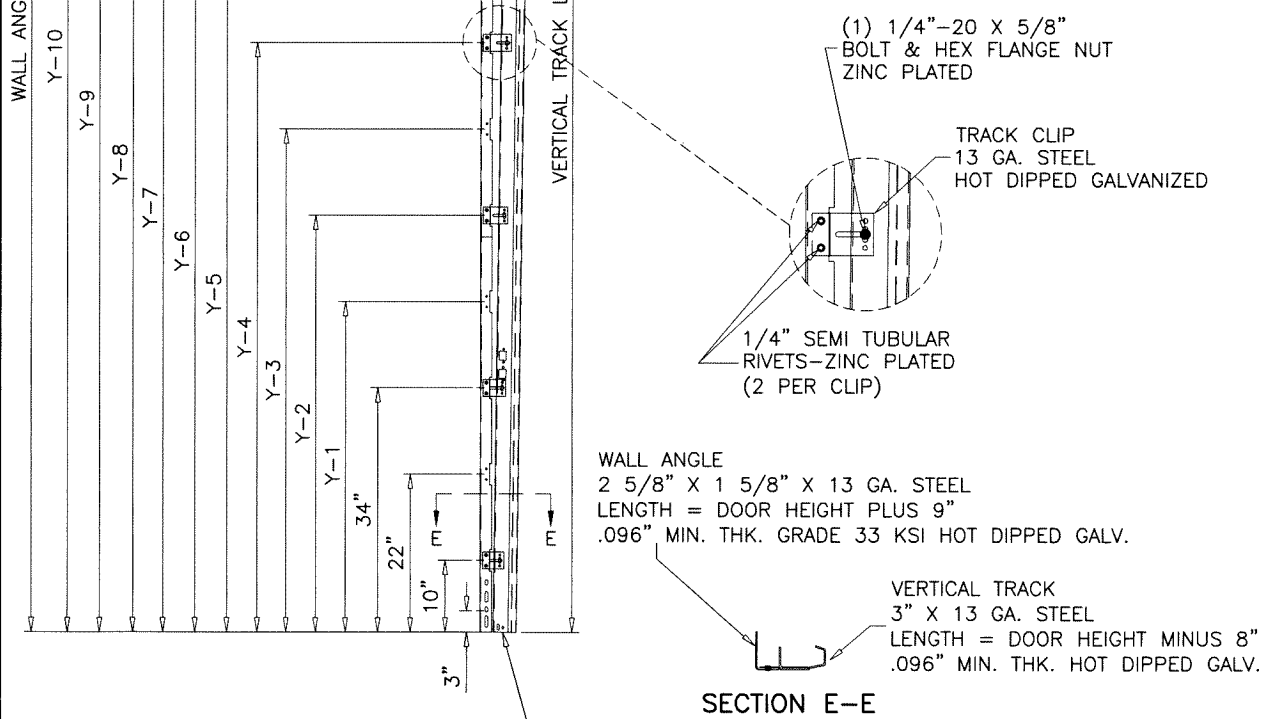
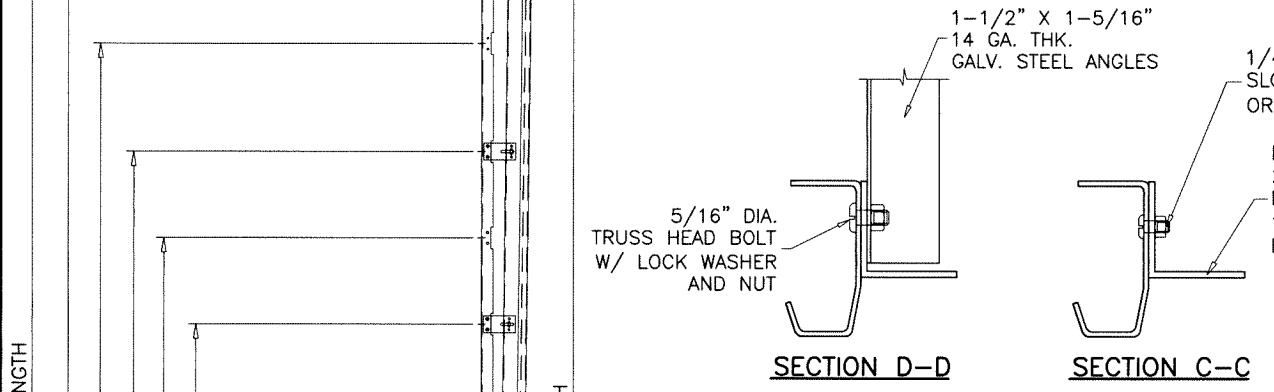




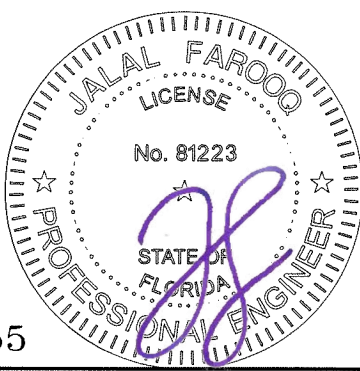
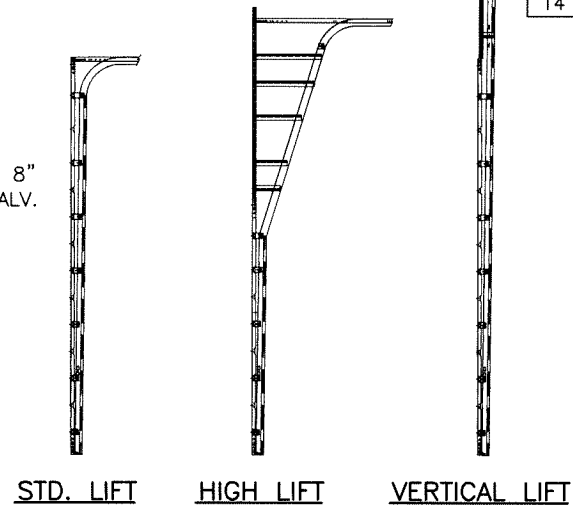
NOTE:
IT SHALL BE VERIFIED THAT THE CEILING STRUCTURE CAN SUSTAIN LOADS IMPOSED BY DOOR WHEN LEFT IN OPEN POSITION.
BRACES MAY BE MOVED IN ORDER TO ENGAGE THE CEILING STRUCTURE.
ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND ALL CEILING NON STRUCTURAL MATERIAL STUCCO OR CEILING DRESSING.

SUPPORT BRACKETS AT EACH TRACK
BRACKETS RUN PERPENDICULAR TO TRACKS
FRONT AND END BRACKETS TO BE SPACED AS SHOWN ABOVE.
ADDITIONAL INTERMEDIATE BRACKETS TO BE INSTALLED FOR SPACING MORE THAN 48" IN BETWEEN FRONT AND END BRACKETS.

BRACKET ANCHORS:
(3) 5/16" DIA. LAG SCREWS
INTO WOOD STRUCTURES, (S.G.=0.50)
1-1/2" MIN. PENETRATION
(2) 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO CONCRETE, 3000 PSI MIN.
1-3/4" MIN. EMBED
ANCHORING TO CEILING OTHER THAN WOOD OR CONCRETE TO BE REVIEWED SEPARATELY.



DOOR HEIGHT	VERTICAL TRACK LENGTH	WALL ANGLE LENGTH	TRACK CLIP & ANCHOR SPACING									
			Y-1	Y-2	Y-3	Y-4	Y-5	Y-6	Y-7	Y-8	Y-9	Y-10
5' 3"	55"	72"	44"	55"	70"	NA	NA	NA	NA	NA	NA	NA
7' 0"	76"	93"	46"	58"	67"	76"	NA	NA	NA	NA	NA	NA
7' 6"	82"	99"	46"	58"	70"	82"	NA	NA	NA	NA	NA	NA
8' 0"	88"	105"	46"	58"	73"	88"	NA	NA	NA	NA	NA	NA
8' 9"	97"	114"	46"	58"	70"	82"	97"	NA	NA	NA	NA	NA
9' 0"	100"	117"	46"	58"	70"	82"	91"	100"	NA	NA	NA	NA
10' 0"	112"	129"	46"	58"	70"	82"	97"	112"	NA	NA	NA	NA
11' 0"	124"	141"	46"	58"	70"	82"	94"	106"	151"	124"	NA	NA
12' 0"	136"	153"	46"	58"	70"	82"	94"	106"	121"	136"	NA	NA
13' 0"	148"	165"	46"	58"	70"	82"	94"	106"	118"	130"	139"	148"
14' 0"	160"	177"	46"	58"	70"	82"	94"	106"	118"	130"	145"	160"



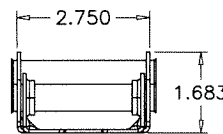
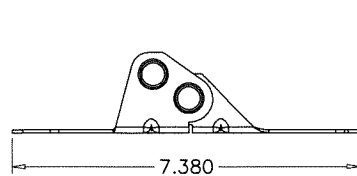
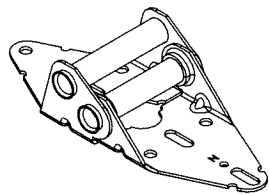
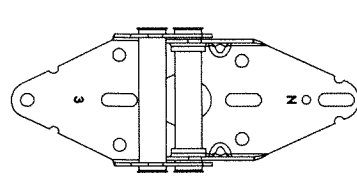
Sealed: 10/17/2023
FL #36855

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

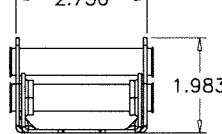
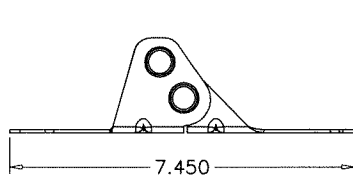
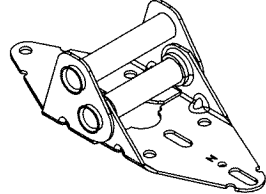
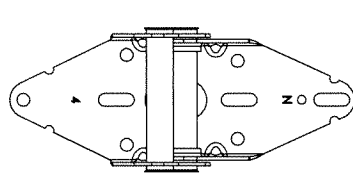
DuraServ Corp.
11431 Ferrell Drive, Suite 200
Farmers Branch, TX 75234
Tel: (800) 994-2361 Fax: (-)

date: 03-13-20
scale: -
dr. by: TARIQ
chk. by:

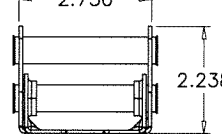
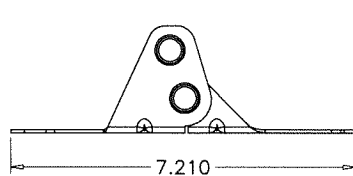
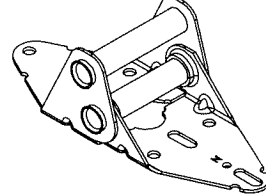
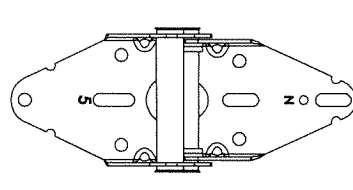
drawing no.
20-31F
sheet 5 of 6



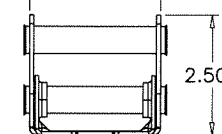
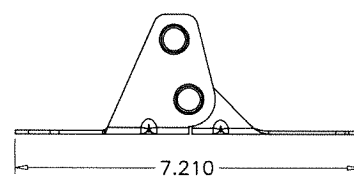
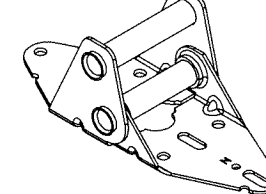
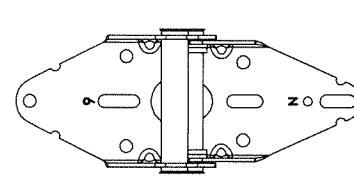
#3 HINGE (11 GA. STEEL)



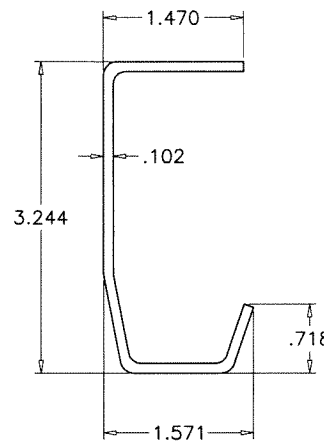
#4 HINGE (11 GA. STEEL)



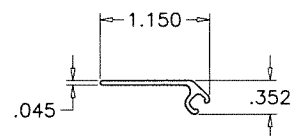
#5 HINGE (11 GA. STEEL)



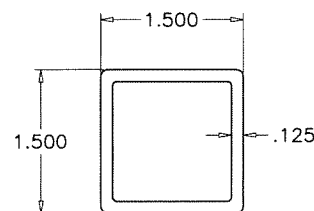
#6 HINGE (11 GA. STEEL)



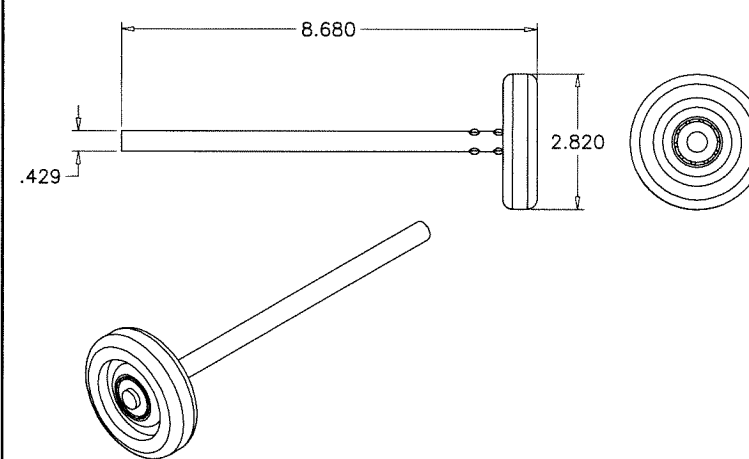
TRACK
13 GA. STEEL
SCALE 1/2" = 1"



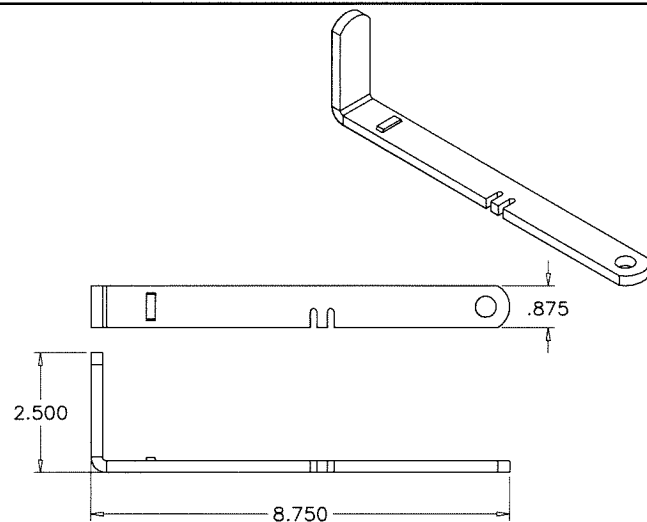
SEAL REATINER
6063-T6
SCALE 1/2" = 1"



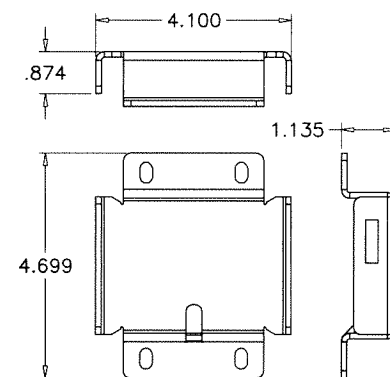
SECTION TOP/BOTTOM TUBE
PULTRUDED FIBERGLASS
SCALE 1/2" = 1"



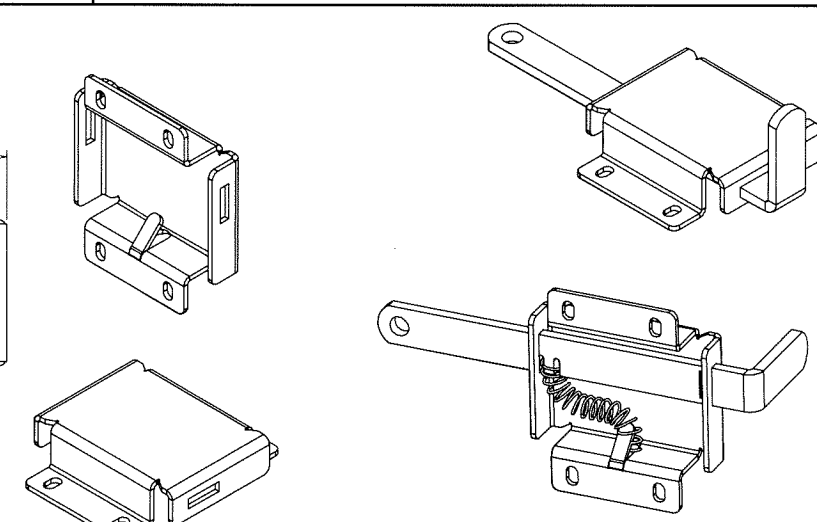
HURRICANE ROLLER-DF



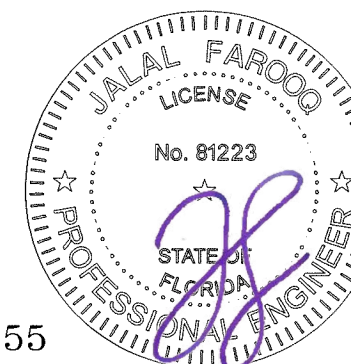
SLIDE LOCK HANDLE



SLIDE LOCK BOX



SLIDE LOCK ASSEMBLY



Sealed: 10/17/2023

FL #36855

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

DuraFlex 12'-2" Sectional Garage Door (N.I.)

DuraServ Corp.
11431 Ferrell Drive, Suite 200
Farmers Branch, TX 75234
Tel: (800) 994-2361 Fax: (-)

revisions:	no	date	by	description

date: 03-13-20
scale: 1/4" = 1"
dr. by: TARIQ
chk. by:

drawing no.
20-31F
sheet 6 of 6