



STADIUM CHAIR MANUAL
GLOBAL DESIGN SERIES (GDS)

EFFECTIVE AUGUST 2013

JOB NUMBER: TGS- _____

JOB NAME: _____

LOCATION: _____

The information in this document was in effect at the time of printing. Products were designed & built in accordance with national building requirements. Interkal reserves the right to make updates, product improvements & changes in specifications or design, without notice & without incurring obligation. Contact Interkal & Dealer/Agent to confirm possible approved updates or revisions. Thank You for purchasing your seating system from Interkal!

***** WARNING *****

YOU are responsible for reading ALL instructions completely BEFORE starting work!

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MANDATORY INSTRUCTIONS

All manuals **MUST BE READ THOROUGHLY** by all trained/authorized personnel, installers & dealers/agents responsible for this product. Installation & operation of this product **MUST BE** performed only **AFTER** all approved plans, documents, & manuals are read. These plans, documents, & manuals contain useful information & directions to provide ease of installation & operation, as well as to ensure overall safety.

- Confirm **ALL** measurements, drawings/plans, documents & manuals **BEFORE** starting installation & operation.
- Follow **ALL** instructions & proper component staging, as parts are unloaded from truck, which will lead to substantial timesavings, cost savings, & less operational callback problems. See Staging Layout Below.
- Read miscellaneous documents, which may include approved Seating Plans, Elevations, & Materials Layout Work Sheets, etc. These documents have been approved by the Architect or the Owner & are job site/field checked by the dealer/agent who sold the product.
- If any issue such as deviations, modifications, corrective actions, unusual building conditions, manufacturing errors, part shortages arise or other problems occur, Interkal Service Department & Dealer/Agent **MUST BE** contacted **IMMEDIATELY** for approval **PRIOR** to making **ANY** revisions. See Below:

INTERKAL LLC
ATTENTION: PARTS & SERVICE DEPARTMENT
5981 E. Cork Street
P.O. Box 2107
Kalamazoo, MI 49003-2107
Email Customer Service: service@interkal.com
Visit our Website: <http://www.interkal.com>
Phone: (269) 349-1521 or Fax: (269) 349-6530

***** Interkal will NOT accept collect calls for any reason *****

Please have the following information with you when you place the call:

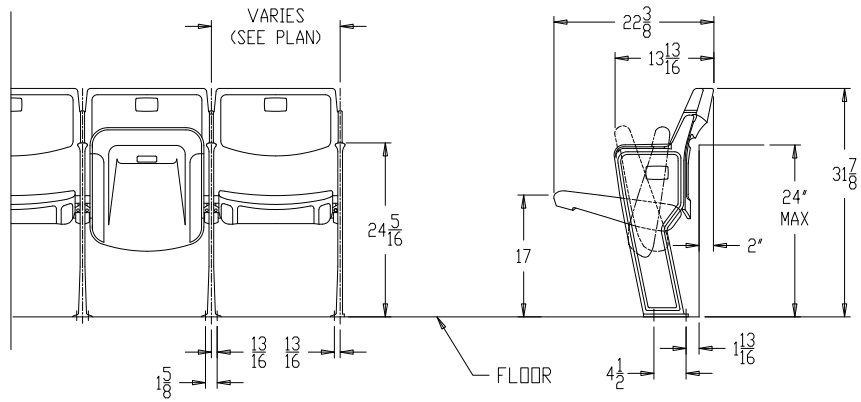
- Job Number: TGS - _ _ _ _ _
- Job Name: _____
- Part Number & Name: _____
- Quantity Received: _____
- Quantity Required: _____

***** WARNING *****

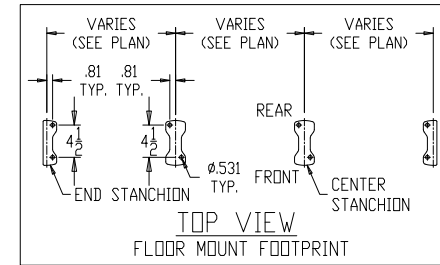
YOU are legally responsible for correctly installing the product in STRICT compliance with ALL Interkal approved plans, documents, & manuals. YOU are legally responsible for ANY **CHANGES not approved & not shown.**

If you are installing for the Dealer/Agent, they are responsible for this installation & the following conditions apply:

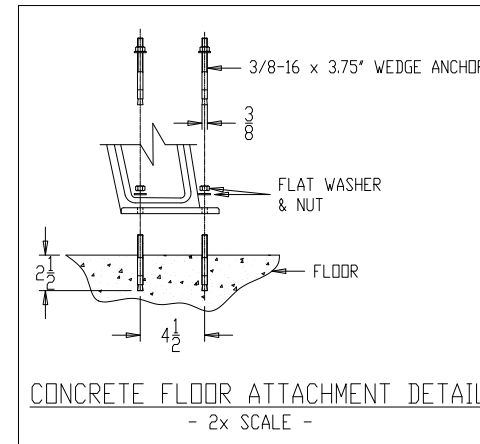
- It is understood that Dealer/Agent Installation personnel must be trained, qualified, & experienced in installing Interkal's products.
- If the Dealer requires/desires the field assistance of Interkal's personnel, they will be provided at Dealer's expense.
- The Dealer **MUST NOTIFY** Interkal & have a Backcharge Authorization Number before proceeding with any extra work for which reimbursement by Interkal is expected. (You may expect the same treatment in reverse.)
- Guarantee's covering defects in material & factory workmanship are in the Owner's manual. Upon request Interkal will issue signed guarantees. The Dealer/Agent will guarantee the installation workmanship.
- During the one (1) year warranty period, Interkal will provide replacement parts to correct product defects. This warranty does not cover product abuse or unauthorized modifications.
- Interkal will not be responsible for labor or travel costs involved in performing the replacement or corrective action.
- Interkal reserves the right to inspect installations. It is the responsibility of the Dealer/Agent to inspect Installations. If the product is not installed in accordance with Interkal's instructions & layout prints, Interkal will require the Dealer/Agent to re-install or re-work the bleachers at the Dealer's/Agent's expense.



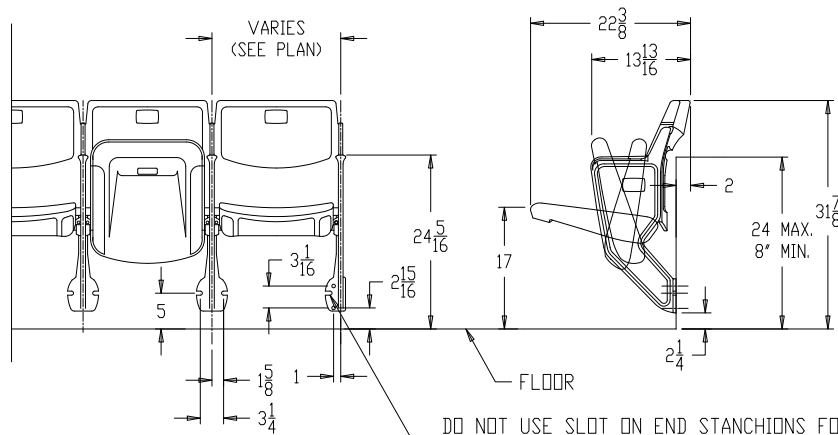
FLOOR MOUNTED STADIUM CHAIR



TOP VIEW
FLOOR MOUNT FOOTPRINT

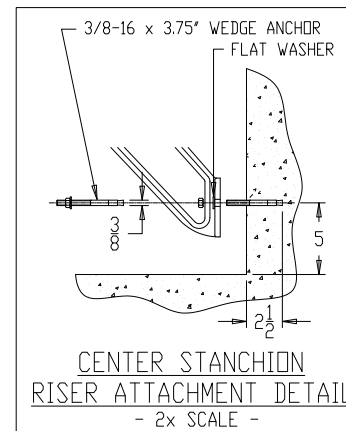


CONCRETE FLOOR ATTACHMENT DETAIL
- 2x SCALE -

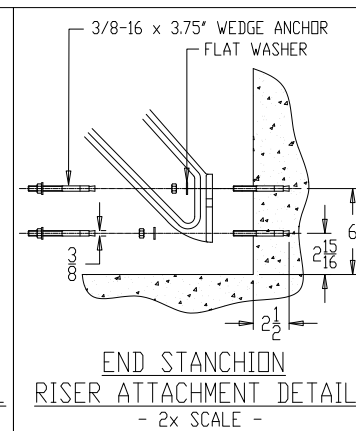


RISER MOUNTED STADIUM CHAIR

DO NOT USE SLOT ON END STANCHIONS FOR MOUNTING TO RISERS, UNLESS SPECIFICALLY SHOWN ON PRINTS, MUST CONSULT FACTORY OTHERWISE.



CENTER STANCHION
RISER ATTACHMENT DETAIL
- 2x SCALE -



END STANCHION
RISER ATTACHMENT DETAIL
- 2x SCALE -

GEN6735
(GEN6736/GEN6710)

REV.	DESCRIPTION	DRWN	CHKD	APVD	DATE
1	WAS STADIUM_CHAIRS.DWG - NEW MANUAL RELEASE	TSC			2/7/08

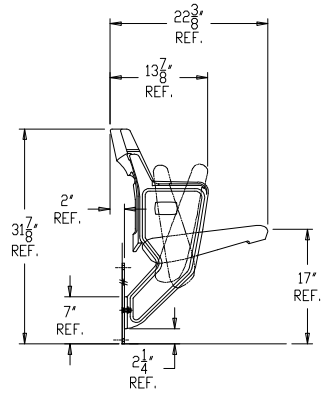
STADIUM CHAIR DETAILS
CONCRETE MOUNTED



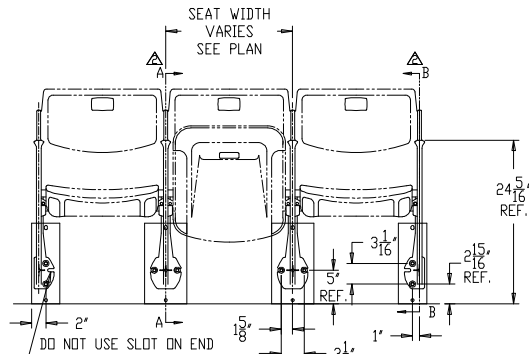
5981 EAST CORK STREET - KALAMAZOO, MICHIGAN 49048

DRWN	
CHKD	
APVD	
SCALE	1/2"=1'-0"
SHEET	1 OF 1
DRGNO	C-

DO NOT SCALE
 UNLESS OTHERWISE SPECIFIED, LIMITS ON DIMENSIONS ARE
 2 PLACE DECIMAL ± .03 FRACTIONAL ± 1/32
 3 PLACE DECIMAL ± .010 ANGULAR ± 1°

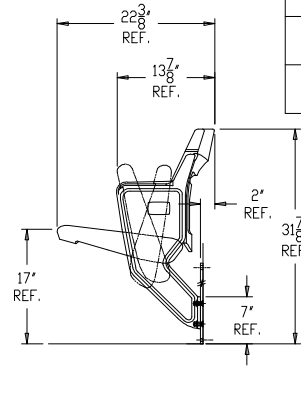


VIEW A-A



GRANDSTAND MOUNTED STADIUM CHAIRS W/PLATES

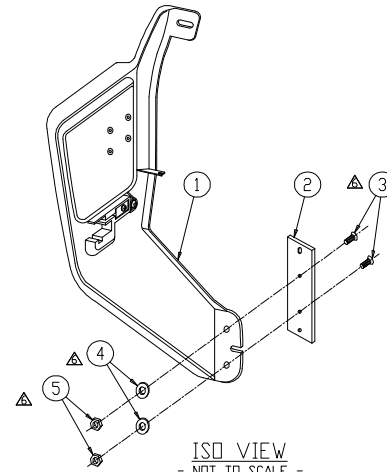
- SOME HARDWARE NOT SHOWN FOR CLARITY -



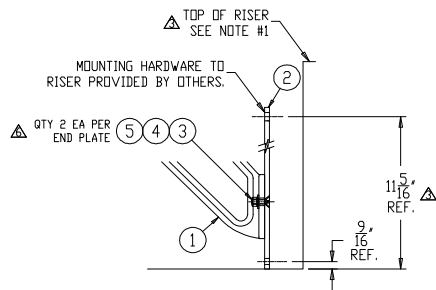
VIEW B-B

ITEM #1	ITEM #2
300189-XX CENTER STANCHION	104236-99 THRU 104240-99 ER= 900382 (LENGTH DEPENDENT) CENTER STANCHION PLATE QTY 1 PER STANCHION
300190-XX LH STANCHION	104241-99 THRU 104245-99 ER= 900383 (LENGTH DEPENDENT) END STANCHION PLATE QTY 1 PER STANCHION
300188-XX RH STANCHION	

-XX DESIGNATES FINISH.

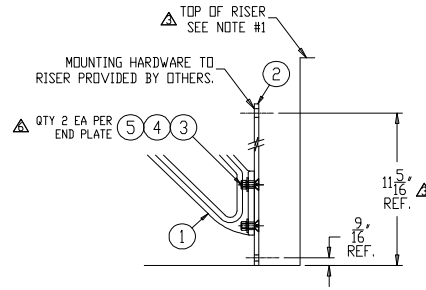


ISO VIEW
 - NOT TO SCALE -



RISER ATTACHMENT W/CENTER PLATE DETAIL

- 2x SCALE -



RISER ATTACHMENT W/END PLATE DETAIL

- 2x SCALE -

NOTES:
 1) TOP OF ITEM #2 SHOULD BE BELOW OR FLUSH WITH THE TOP OF THE RISER PER SALES.

5	614254	NOTED	3/8-16 KEPS NUT SS	
4	614236	NOTED	3/8 FLAT WASHER SS	
3	614253	NOTED	3/8-16 x 1.25" SCREW SS	
2	CHARTED	CHARTED	PLATE - END STANCHION	
1	CHARTED	1	STANCHION (END OR CENTER)	
ITEM	PPR	PART NUMBER	QTY	DESCRIPTION

Interkal

3981 EAST CORK STREET - KALAMAZOO, MICHIGAN 49008

TITLE		SCALE	
STADIUM CHAIR STANCHION ASSEMBLY W/PLATE RH, LH, & CNTR FOR OUTDOOR GRANDSTANDS		1"=1'-0"	
MATERIAL	FINISH	PPR NO.	SC-MASTER
DRAWN BY	CHECKED BY	APPROVED BY	PPR PART OR DRWG. NO.
K. CODY	10/11/07		C GEN6710

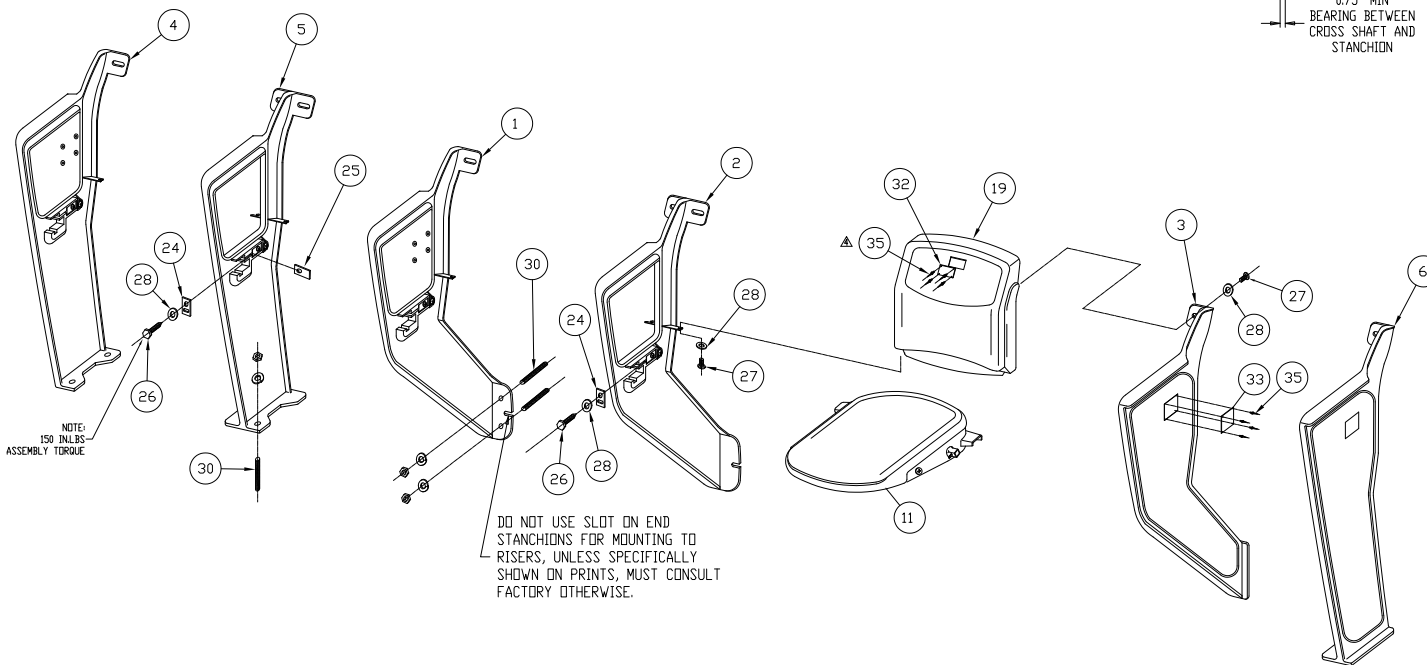
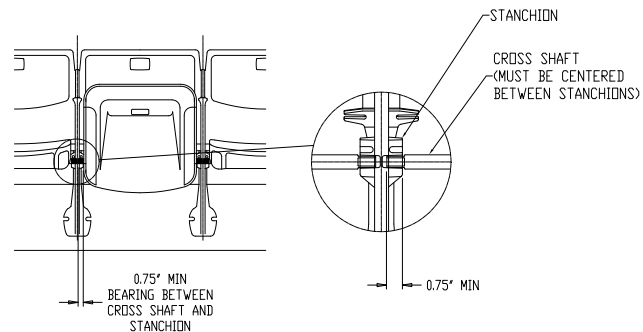
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DRAWING LOCATION - P:\GEN\GEN6710\GEN6710.DWG - PRINTED BY KAHREIS, DN 10/26/07 - 7:45am

△	FINALIZED SS HARDWARE PER ECR	36258	TC	5/26/2010
△	UPDATED PLATE GEOMETRY PER ECR	36252	TSC	4/12/2010
△	ITEM #5 614254 WAS 614235 ITEM #3 614253 WAS 614234	36249	TSC	3/29/2010
△	UPDATED PLATE GEOMETRY PER ECR	36177	TSC	5/12/09
△	UPDATED SECTION LINES & B.D.M.	N/A	TSC	1/6/09
△	RELEASE TO PRODUCTION	36070	DV	2/22/08
NO.	DESCRIPTION	CHANGE NO.	BY	RELEASED DATE

SHEET 1 OF 1

DO NOT SCALE
 UNLESS OTHERWISE SPECIFIED, LIMITS ON DIMENSIONS ARE:
 2 PLACE DECIMAL ± .02 FRACTIONAL ± 1/32"
 3 PLACE DECIMAL ± .005 ANGULAR ± 1°



*** REFERENCE GEN6710 FOR STANCHION PLATES FOR METAL RISERS ***

-** INDICATES STANDARD AND
 SPECIAL COLORS

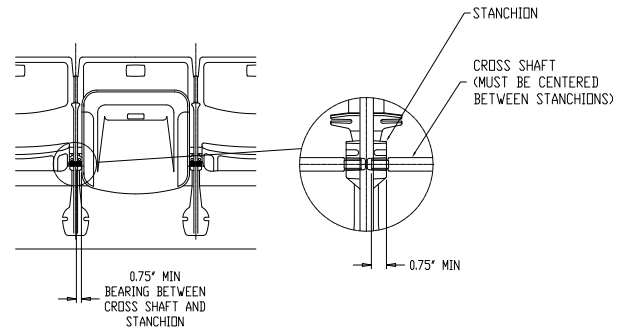
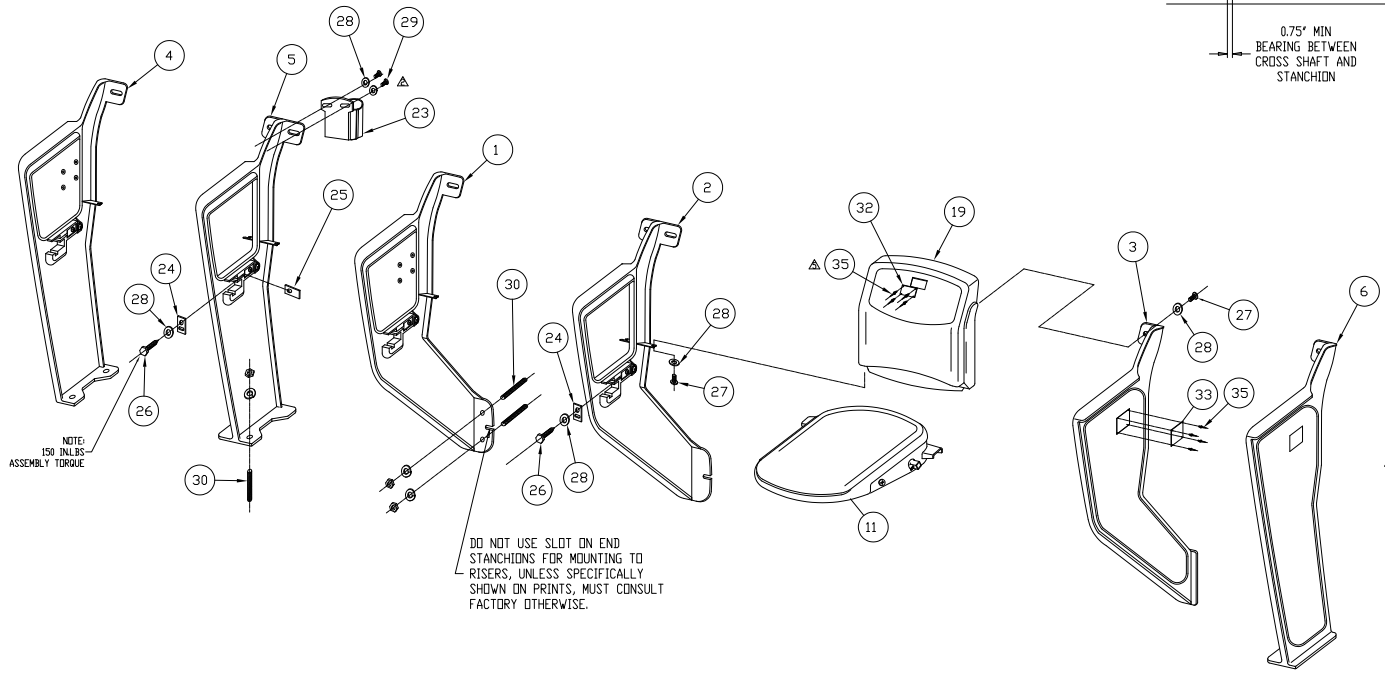
35	650022	RIVET 3/32 X 1/4 ALUMINUM
34		
33	300058	LETTER PLATE, LARGE
32	300054	NUMBER PLATE, LARGE
32	614223	WEDGE ANCHOR - 3/8-16 x 3 3/4 -OUTDOOR/POOLSIDE
30	651861	WEDGE ANCHOR - 3/8-16 x 3 3/4
29		
28	602005	1/4 FLAT WASHER
27	610016	1/4-20 x 3/4 TRUSS HEAD MACHINE SCREW
26	600260	1/4-20 x 1-1/4 HEX HEAD CAP SCREW
25	300138-71	CLAMP NUT
24	300136-71	SHAFT CLAMP
23		
19		SEAT BACK
11		SEAT PAN ASSEMBLY
6	300127-**	STANCHION - FLOOR MOUNT L.H.
5	300126-**	STANCHION - FLOOR MOUNT CENTER
4	300125-**	STANCHION - FLOOR MOUNT R.H.
3	300190-**	STANCHION - RISER MOUNT L.H.
2	300189-**	STANCHION - RISER MOUNT CENTER
1	300188-**	STANCHION - RISER MOUNT R. H.

△	ADDED 614223 FOR OUTDOOR HD	N/R	TC	5/21/2010
△	614226 WAS 610016	36183	KA	1/25/10
△	REMOVED ITEM #34	36178	TSC	4/23/09
△	ITEM #34 WAS 650022	N/R	TSC	4/15/09
△	WAS SC-MASTER.DWG, NEW MANUAL	N/R	TSC	2/7/08
△	RELEASE TO PRODUCTION	N/R		
NO.	DESCRIPTION	CHANGE NO.	BY	RELEASED DATE

ITEM		PPR	PART NUMBER	QTY	DESCRIPTION
Interkal 3900 EAST COOK STREET - VAN HOUTEN, INDIANAPOLIS, IN 46240					
TITLE: STADIUM CHAIR ASSEMBLY					
MATERIAL:				FINISH:	SCALE: NTS
DRAWN BY:				CHECKED BY:	APPROVED BY:
					D GEN6737

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DO NOT SCALE
 UNLESS OTHERWISE SPECIFIED, UNITS ON DIMENSIONS ARE:
 2 PLACE DECIMAL: ± .01 FUNCTIONAL: ± .050
 3 PLACE DECIMAL: ± .005 ANGULAR: ± 1'



NOTE:
 150 IN-LBS
 ASSEMBLY TORQUE

DO NOT USE SLOT ON END
 STANCHIONS FOR MOUNTING TO
 RISERS, UNLESS SPECIFICALLY
 SHOWN ON PRINTS, MUST CONSULT
 FACTORY OTHERWISE.

*** REFERENCE GEN6710 FOR STANCHION PLATES FOR METAL RISERS ***

35	650022	RIVET 3/32 X 1/4 ALUMINUM		
34				
33	300058	LETTER PLATE, LARGE		
32	300054	NUMBER PLATE, LARGE		
30	614223	WEDGE ANCHOR - 3/8-16x3 3/4 - OUTDOOR/PDOLSIDE		
	659861	WEDGE ANCHOR - 3/8-16 x 3 3/4 - INDOOR		
29	614226	1/4-20 x 1 TRUSS HEAD MACHINE SCREW (SS)		
28	602005	1/4 FLAT WASHER		
27	610016	1/4-20 x 3/4 TRUSS HEAD MACHINE SCREW (SS)		
26	600260	1/4-20 x 1-1/4 HEX HEAD CAP SCREW (SS)		
25	300138-71	CLAMP NUT		
24	300136-71	SHAFT CLAMP		
23	JOB SPECIAL	CUPHOLDER		
20				
19		SEAT BACK		
13				
11		SEAT ASSEMBLY		
6	300127-XX	STANCHION - FLOOR MOUNT L.H.		
5	300126-XX	STANCHION - FLOOR MOUNT CENTER		
4	300125-XX	STANCHION - FLOOR MOUNT R.H.		
3	300150-XX	STANCHION - RISER MOUNT L.H.		
2	300189-XX	STANCHION - RISER MOUNT CENTER		
1	300188-XX	STANCHION - RISER MOUNT R. H.		
ITEM	PNR	PART NUMBER	QTY	DESCRIPTION



TITLE: STADIUM CHAIR ASSEMBLY (w/CUPHOLDER)
 SCALE: NTS
 REF. NO. GEN6725/GEN6737

MATERIAL	FINISH	SCALE	NTS
DRAWN BY	CHECKED BY	APPROVED BY	PPR PART OR DRWG. NO.
FLS	11-09-01		D GEN6736

-** INDICATES STANDARD AND SPECIAL COLORS

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DRAWING LOCATION: P:\GEN6736\GEN6736.DWG - PRINTED BY: KAHRENS, EN - 01-04-13 - 10:00am

ADD	614223 FOR OUTDOOR HD	N/R	TC	5/21/2010
ADD	614226 WAS 610016	36183	KA	1/25/10
REM	REMOVED ITEM #34	36178	TSC	4/23/09
ADD	ITEM #34 WAS 650022	N/R	TSC	4/15/09
ADD	WAS SC-MASTER-01-CLD.BWG, NEW MANUAL	N/R	TSC	2/7/08
ADD	CHANGED ITEM #29 TO 610016 WAS 1655424	N/R	JV	7/17/06
ADD	RELEASE TO PRODUCTION	N/R		
NO	DESCRIPTION	CHECK NO.	CHK BY	RELEASE DATE

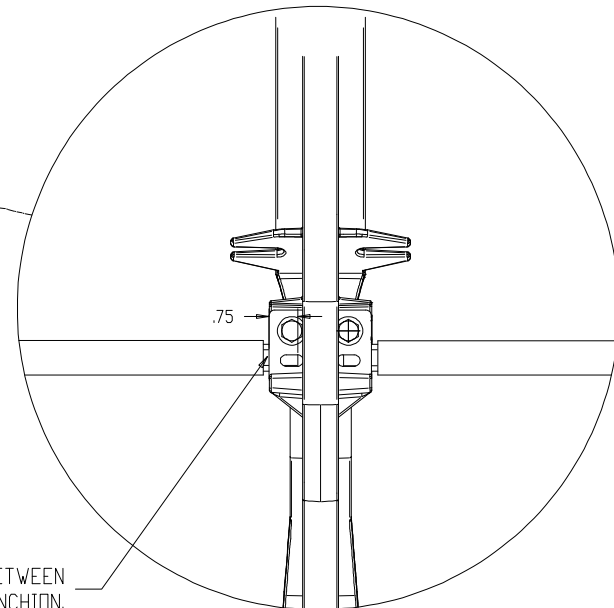
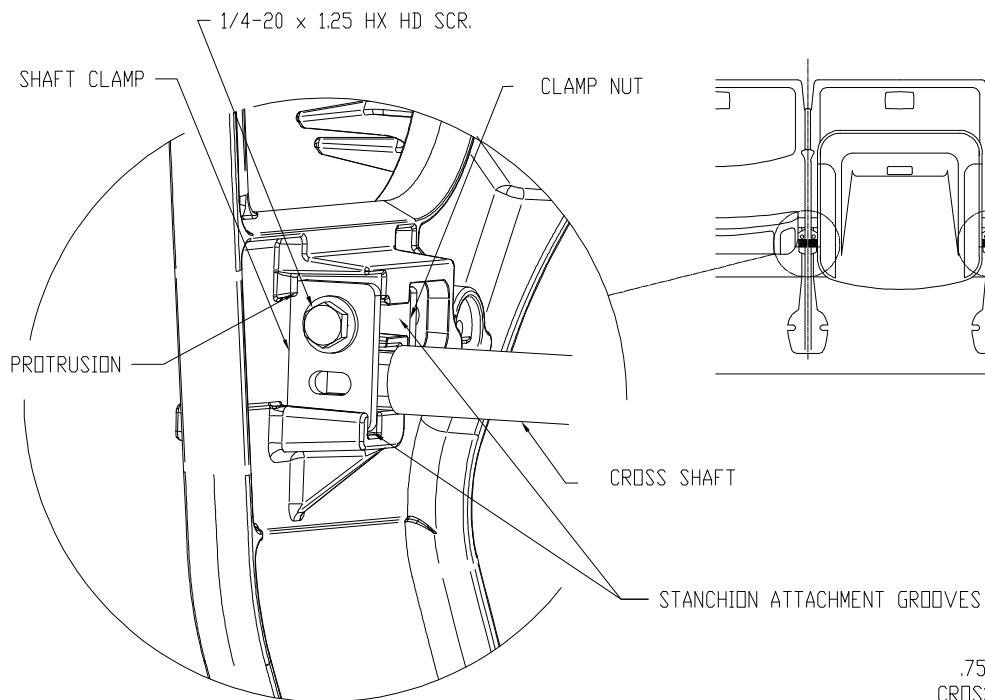
DRAWING LOCATION - P:\GEN\GEN6000\GEN6737.DWG - PRINTED BY KAHRENS ON 02-08-12 - 4:07pm

ATTACHMENT DETAIL

DO NOT SCALE

UNLESS OTHERWISE SPECIFIED, LIMITS ON DIMENSIONS ARE
 2 PLACE DECIMAL ± .03 FRACTIONAL ± 1/32
 3 PLACE DECIMAL ± .010 ANGULAR ± 1°


ATTACHMENT DETAIL



.75" MIN. BEARING BETWEEN CROSS SHAFT AND STANCHION.

NOTES:

SHAFT CLAMP AND NUT CLAMP INSTALLED TIGHT AGAINST THE STANCHION AND BEHIND THE PROTRUSION AND GROOVES FOR PROPER ATTACHMENT.

ITEM	PPR	PART NUMBER	QTY	DESCRIPTION
 5981 EAST CORK STREET - KALAMAZOO, MICHIGAN 49048				
TITLE <i>STADIUM CHAIR ASSEMBLY - CROSS SHAFT DETAIL</i>				
MATERIAL				FINISH
DRAWN BY KAHRENS				CHECKED BY
2/08/12				APPROVED BY
SCALE 3/4"=1'-0"				REF. NO. GEN6737A
B GEN6737A				PPR PART OR DRWG. NO.

△	RELEASED TO PRODUCTION	KA	2/08/12
NO.	DESCRIPTION	CHANGE NO.	CH. BY
			RELEASED DATE

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TROUBLE SHOOTING

***** WARNING *****

Advise factory of any deviations **IMMEDIATELY!** YOU are legally responsible for installing the product correctly in **STRICT** compliance with **ALL** approved plans, documents, & manuals. YOU are legally responsible for routine/regular maintenance, cleaning & inspection schedules. Failure to keep these schedules for all areas listed below may lead to excessive wear, cause operational problems, & jeopardize the overall safety of the system. ONLY trained/qualified/authorized personnel familiar with this seating system should trouble shoot and/or repair this equipment. Failure to adhere to this may cause injury.

THINGS TO TRY FOR TROUBLE SHOOTING

IF STADIUM SEAT WILL NOT RISE OR DOES NOT FOLD DOWN:

- Check for foreign objects, debris in, between or under seats. Remove debris.
- Seat spring has shifted from z-bracket on cross shaft or seat bracket. Disassemble seat and reinstall spring in proper location on shaft and bracket.

IF STADIUM SEAT FOLDS DOWN TOO FAR:

- Check for missing rubber bumpers in stanchion. Replace bumper, washer, and screw.
- Check seat bracket for bent or missing steel stopper. Replace bracket with new part.

IF STADIUM CHAIR ROCKS, SLIDES, OR MOVES:

- Check for loose fasteners at the base, at the cross shaft, in the seat brackets or at the back. If anchor is loose in hole then replace the anchor. Center seat/back between stanchions and then tighten fasteners to snug tight with screwdrivers and wrenches as required.

MAINTENANCE

CHAIR LUBRICATION:

The chairs spring parts should not require any lubrication.

FASTENERS:

All fasteners used to assemble the chair assemblies are either factory tightened or tightened during the field installation process. **To ensure safety, periodically check each anchor and fastener, and tighten if required.**

CLEANING:

Routine & proper cleaning of the chair assemblies will provide superior product performance & appearance, and prolong product life. Do **NOT** use abrasive cleaners or products. See Maintenance Manual for details **BEFORE** cleaning. Do **NOT** use

a pressure washer to clean chair assemblies, however they are safe to use on the surrounding concrete construction if seats are not directly sprayed. High pressure water may enter the assemblies causing internal corrosion.

FINAL INSPECTION

- All nuts and bolts installed and tightened.
- Specified bolts and nuts or screws used at each location.
- Lock washers installed where required.
- Remove all spare bolts, nuts, and screws from on and under the unit.
- Units operate easily in both directions without binding or other issues.
- All surface dirt resulting from installation and storage removed.
- Obtain Installation Approval Form
- Manual to be turned over to the Owner