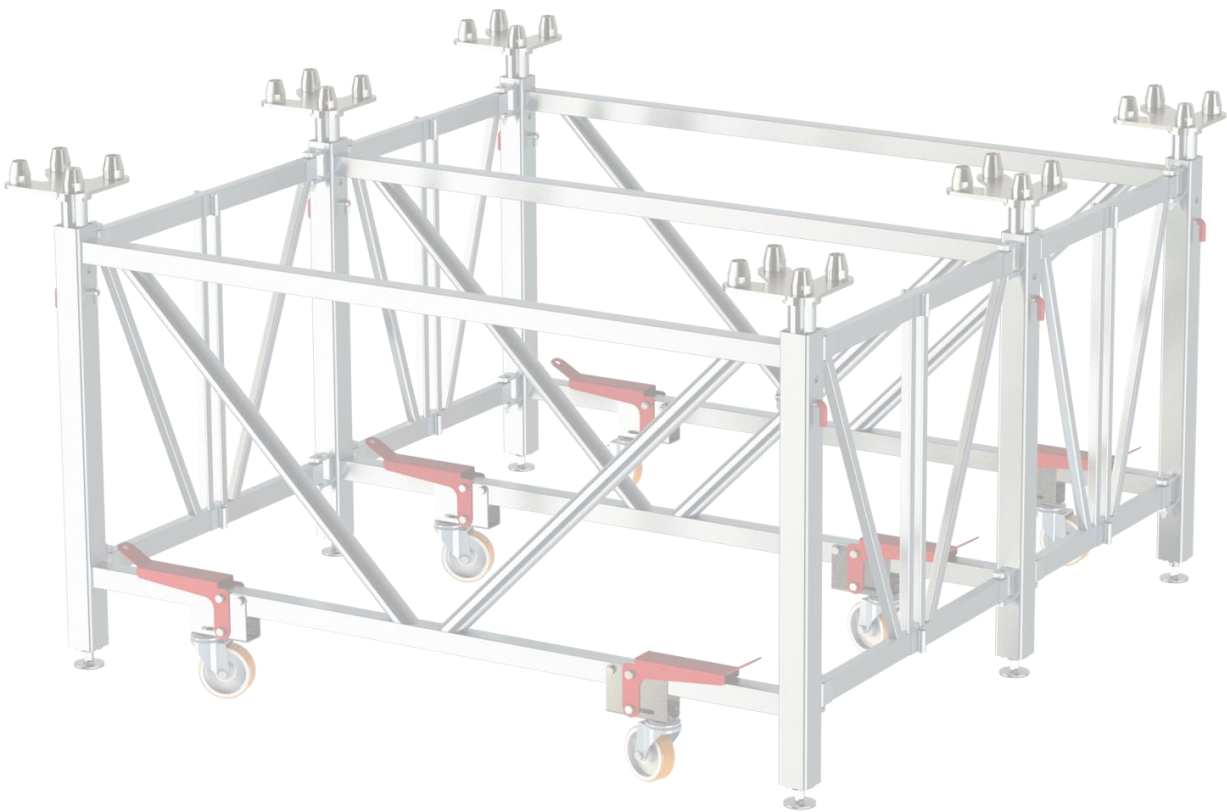




SIXTY82™



The new original

USER MANUAL - ARENA FRAME -
PART 2- SPECIFIC REQUIREMENTS

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1. SAFETY INSTRUCTION

Before using the SIXTY82 Arena frame staging system read this manual carefully and pay attention to the information provided. Use this manual to familiarise yourself with the products, its proper use and safety regulations.

For the Stage82 staging modules to be used on top of the arena frame staging system we refer to the applicable “User manual - Stage82 – Part 2 specific requirements”.

Explanation of symbols:



DANGER: Indicates a hazardous situation which, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations.



WARNING: Indicates a hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION : Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



NOTICE: address practices not related to personal injury.



SAFETY INSTRUCTIONS: is used for a lists of steps, procedures or instructions that might otherwise substitute a DANGER, WARNING or CAUTION notification.



THIS MANUAL SHALL BE INSEPARABLY USED IN CONJUNCTION WITH ORIGINAL “ USER MANUAL - TRUSS AND ASSOCIATED COMPONENTS - PART 1 - GENERAL REQUIRMENTS” AND VICE VERSA.

THE PART 2 MANUALS CONTAINS PRODUCT SPECIFIC REQUIREMENTS REGARDING LEGISLATION, SET-UP, DISMANTLING, ALLOWABLE LOADING AND ANY OTHER INFORMATION NOT REFERRED TO IN PART 1.

PART 2 IS ALWAYS SUPERSEDING PART 1.



MAKE SURE MANUALS ARE AVAIALBLE AT ALL TIMES FOR ALL USERS AND EMPLOYEES



DO SOLELY USE GENUINE SIXTY82 COMPONENTS



DO NOT INCREASE ANY DIMENSIONS OF THE ASSEMBLED STRUCTURE



IF ANY DEFAULTS ARE FOUND, MARK THE COMPONENT CLEARLY AND TAKE OUT OF SERVICE



IN CASE OF DOUBT, CONTACT A COMPETENT PERSON OR THE MANUFACTURER



THE STAGING LEGS SHALL NOT BE USED TO BUILT GRANDSTANDS WITH A HEIGHT \geq 100CM. THE PLATFORMS CAN



THE STRUCTURE SHALL BE SAFEGUARDED FROM PUBLIC OR COLLISION FROM VEHICLE



STAGING MODULES SHALL BE ASSEMBLED BY A COMPETENT PERSON OR SUFFICIENTLY INSTRUCTED PERSONNEL UNDER SUPERVISION OF A COMPETENT PERSON



AS A SINGLE STAGE ELEMENT SHALL BE HANDLED BY 2 PERSONS. THIS DUE THE SELFWEIGHT AND THE EASE OF INSTALLING

2. SCOPE

The intended use of the Arena frame staging system is to create temporated demountable indoor staging platform for artistic performances at different heights ranging from +/- 120 till 190 cm.

It is also possible to support other kind of loads as long as they do not exceed the weight and dimensions given or if approved by a chartered engineer. When considering the allowable loading , dynamic effects caused by e.g. dancing, jumping people or moving objects must be considered by a chartered engineer or by consulting Sixty82. Any other use is considered mis-use and the sole responsibility of the user unless approved by Sixty82 .

The load it self is not part of the design and this manual. The stagerailing system is not suitable for general public access



IT SHALL BE NOTED THAT IT IS THE SOLE REPSONSIBILITY OF THE USER TO CHECK WITH LOCAL AUTHORITIES IF THE LEGISLATION USED BY SIXTY82 IS ACCEPTED IN THE COUNTRY OF USE.

3. IDENTIFICATION

number	Art code	Description	Weight
1	341014	Arena frame single 120-190	66 kg
2	341015	Arena frame double 120-190	93 kg
3	341013	Stage82 Arena adapter 4-way	4,5 kg
4	215029	Dolly arena frame	88 kg
5	811008	L-pin 16x135mm drop nose	0,2 kg

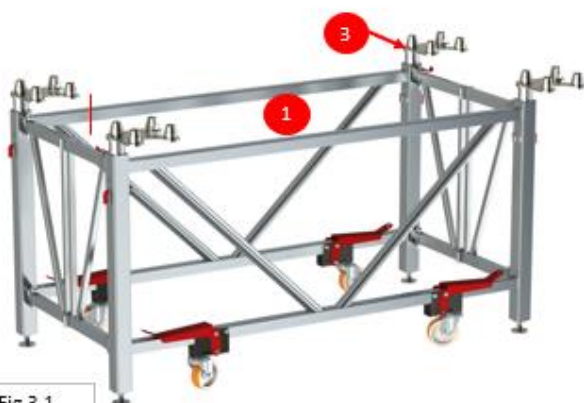


Fig 3.1

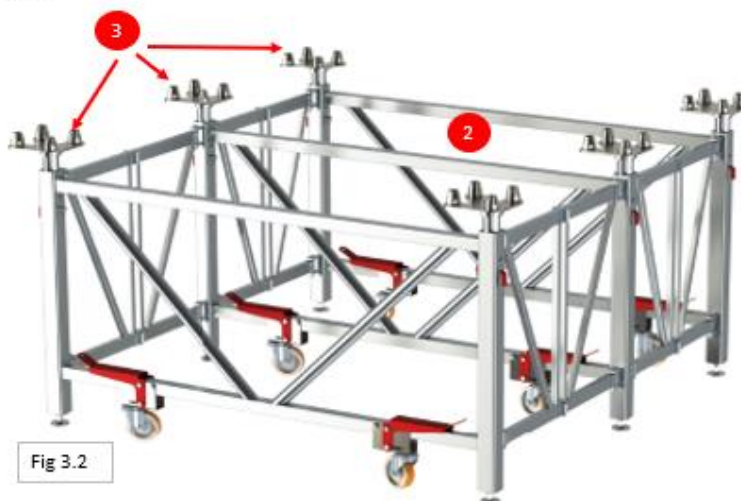


Fig 3.2

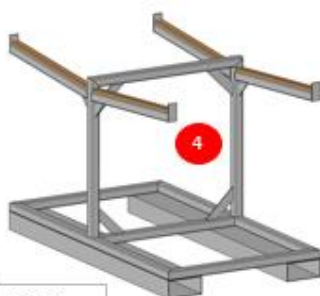


Fig 3.3



Fig 3.4

4. LIMITATION OF USE

- The Arena Frame staging system must be used within the limits of the structural report number 20265 made by Engineering office Krasenbrink and Bastians – Aachen - Germany
- Max. Uniformly distributed static load in a static situation, when frames are lowered on the screwjacks, is:
 - 500kg/m² with a lateral loading of 10%.
 - 750kg/m² with a lateral loading of 5%
- As a roling stage, the load shall 100kg for loads directly place above a telescopic leg. The roling behaviour might be effected by; The floor on which it is built, obstacles on the floor, the total sum of loads on the overall stage as well as if the stage is uniformly loaded or not.
- For maximum allowable point load on the decking see chapter 4.1. Incase a user uses an another brand of decking please consult the respective manufacturer for the allowable loads
- Height adjustment in steps of 5cm.
- Minimum height 120cm. Maximum height 190cm. Dimensions can slightly differ due to the underground and the position of the screwjacks.
- Self-weight is already taken into account.
- Staging systems can be used in temperatures varying from -20°C up to +60°C.

LOADING 4.1 MAXIMUM POINT LOAD

LC1 = 2x 150kg at a distance of minimum 500mm at any place

LC2 = 350kg single point load above each of the 200cm sides or middle beam

LC3 = 500kg in the middle of the 100cm sides.

LC4 = 210kg in the middle of an unsupported woodplate



POINT LOADS NEED TO HAVE A 50X50MM BEARING SURFACE MINIMUM. TOTAL LOADING SHALL NOT EXCEED 1000Kg

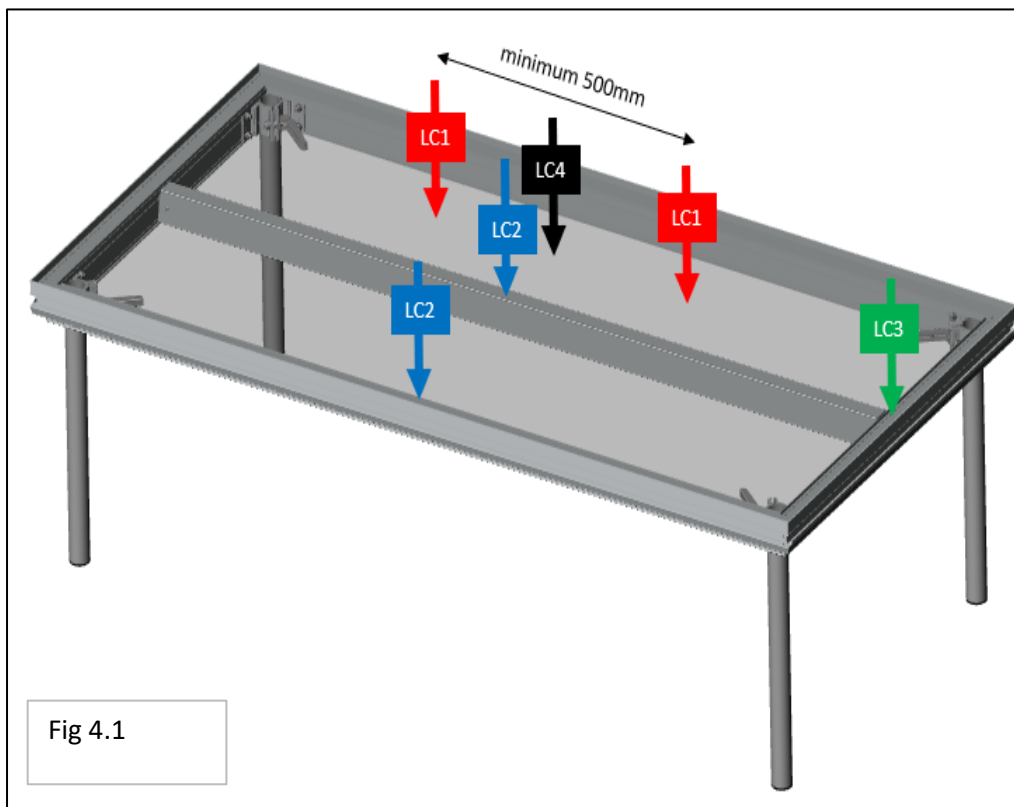
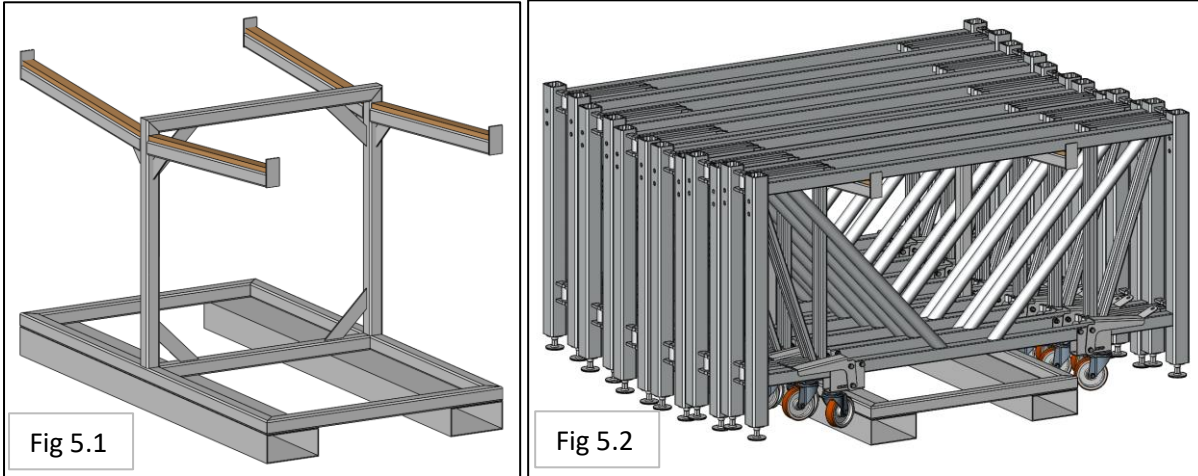


Fig 4.1

5. TRANSPORT AND STORAGE see manual part 1 “general requirements”

Transport all decking elements flat on pallets or dollies.

The Arena frames shall be stored in transport dollies.
 Each dolly can hold 2 double frames and 2 single frames or 6 singles frames.
 Arena adapter 4-way can be removed if required. Store them in a separate transport system.
 Make sure products are stored in a dry, dust-free and ventilated environment.






6. APPROVED ACCESSORIES

For a full list of approved accessories we refer to our website or latest product catalogue.

7. COATINGS AND SURFACE TREATMENTS see manual part 1 “general requirements”

8. ASSEMBLY & DISASSEMBLY INSTRUCTIONS

REQUIRED TOOLS

		
<p>WRENCH SIZE 19 To adjust the screw jacks</p>	<p>LEVELER To level the stage</p>	<p>ROTATING LASER To level the stage</p>
<p>WRENCH SIZE 17 To mount the railing</p>		

GENERAL

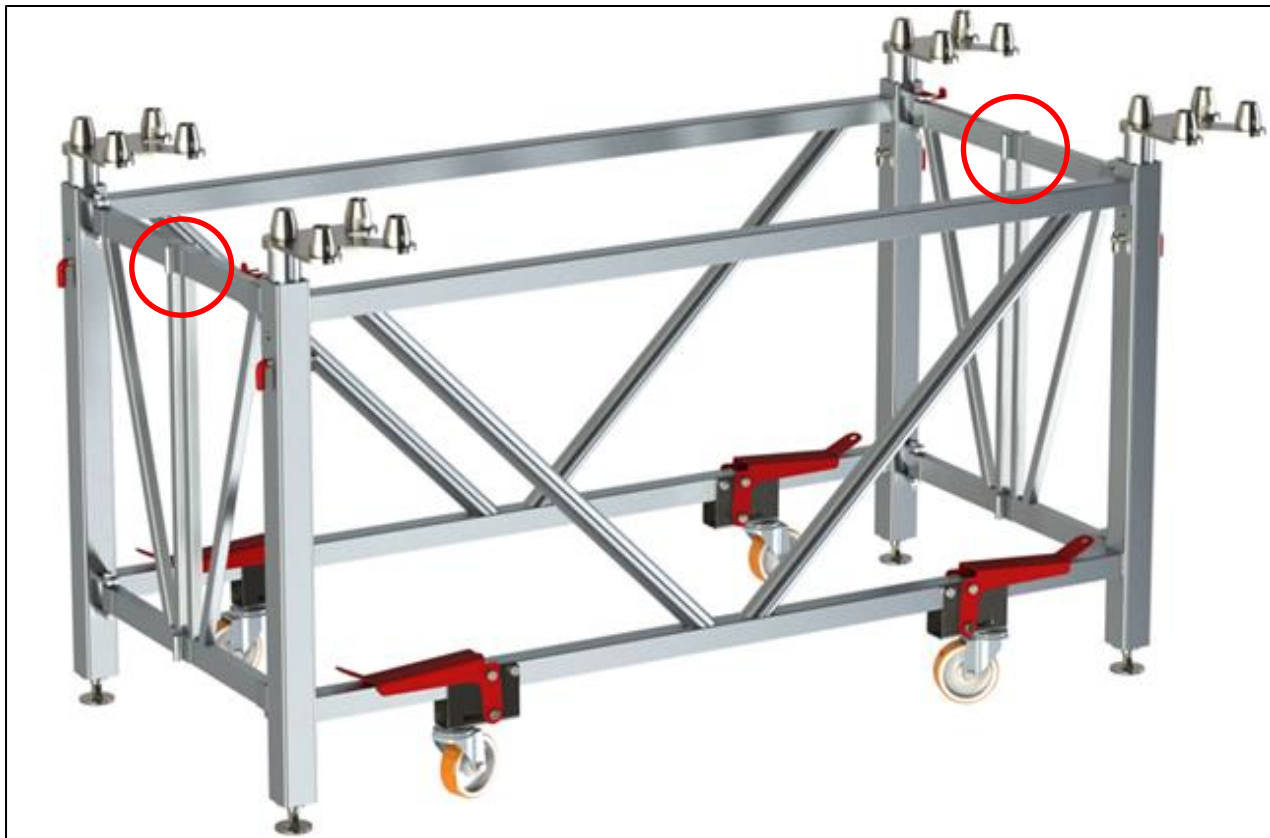
The Arena frame shall be assembled by at least one competent person assisted by sufficiently instructed. It is advised to physically show how to assemble and disassemble the system.
 A competent person shall check prior to use of the stage, if all frames and staging modules are connected properly before applying loads.

ASSEMBLY INSTRUCTION

STEP 1 Determine the position where to start to built the stage.

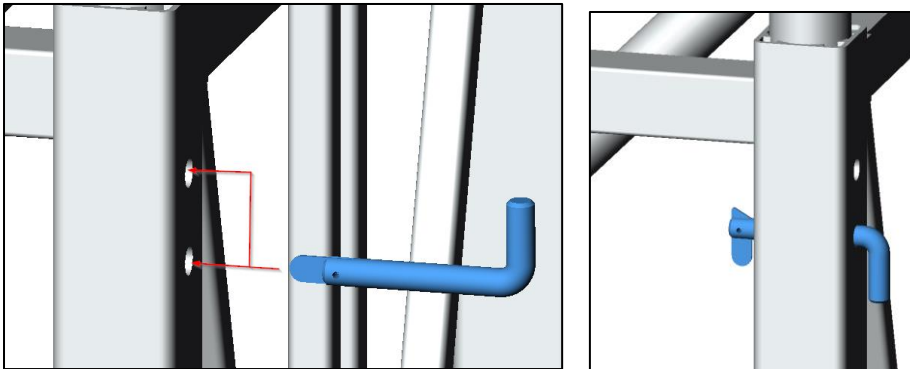
STEP 2 Make sure the transport dollies stand aside the build-up area

STEP 3 Unfold a frame. Make sure the side frames are locked .



STEP 4 Determine the stageheight you want to build by adjusting the telescopic legs accordingly.

To adjust the legs remove the self locking L-pins by turning them by 180dgr and pull them out of the telescopic legs. Push the telescopic leg to the desired height and insert the locking pin back. To secure the locking pin turn it 180dgr.



THE HEIGHT ADJUSTMENT CAN BE MADE IN STEPS OF 5CM



DO NOT TURN THE PIN WHEN THE SECURING LIP IS INSIDE OF THE LEGS

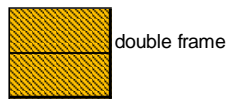


STEP 5 Place the Arena adapter 4-way on top of the telescopic leg. The Arena adapter 4-way can be rotated by hand in 4 different positions. The correct position depends on the overall set up.

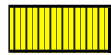


ROTATING THE ARENA 4-WAY ADAPTER CAN ALSO BE DONE WHEN THE SYSTEM IS ASSEMBLED

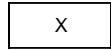
STEP 7 Put a staging module on top of the Arena frame. Move the frame to its position. The double frames shall be positioned in an outer/back/front row.



double frame

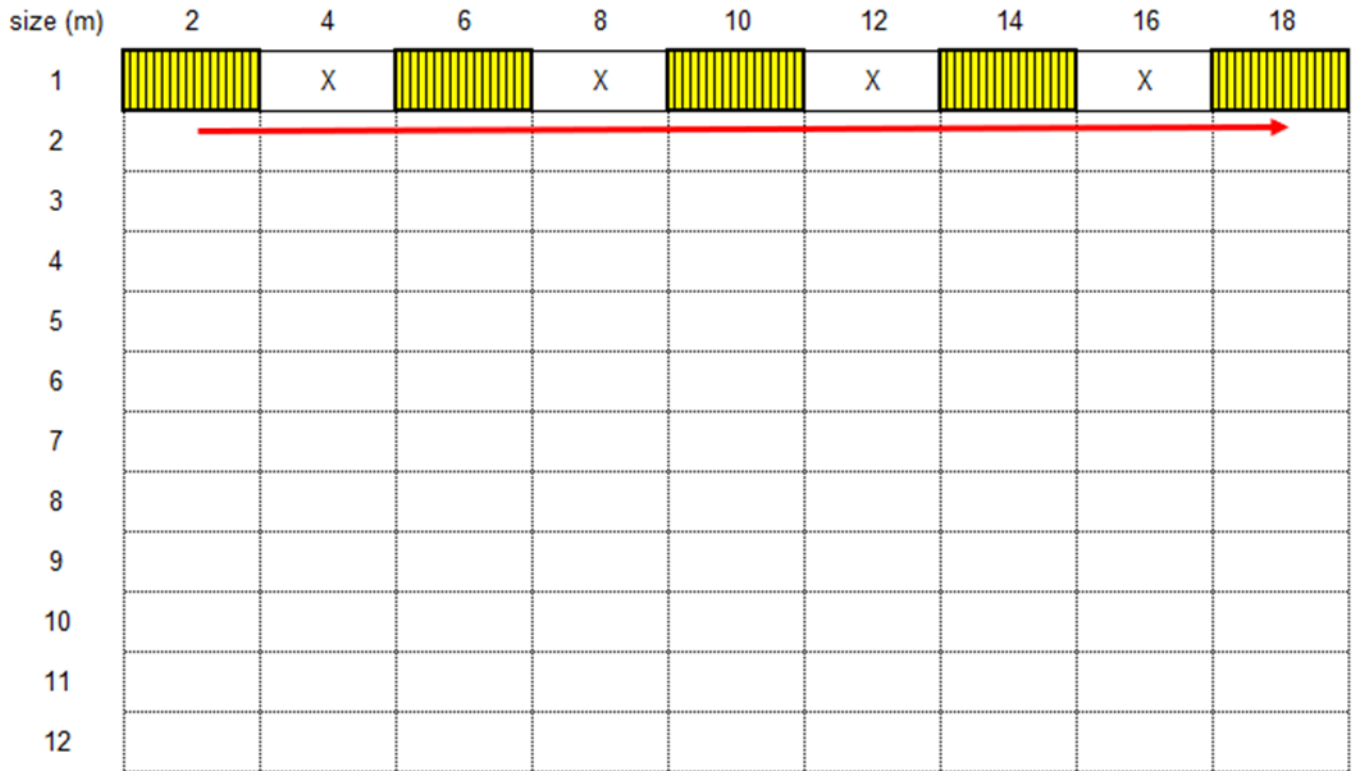


single frame

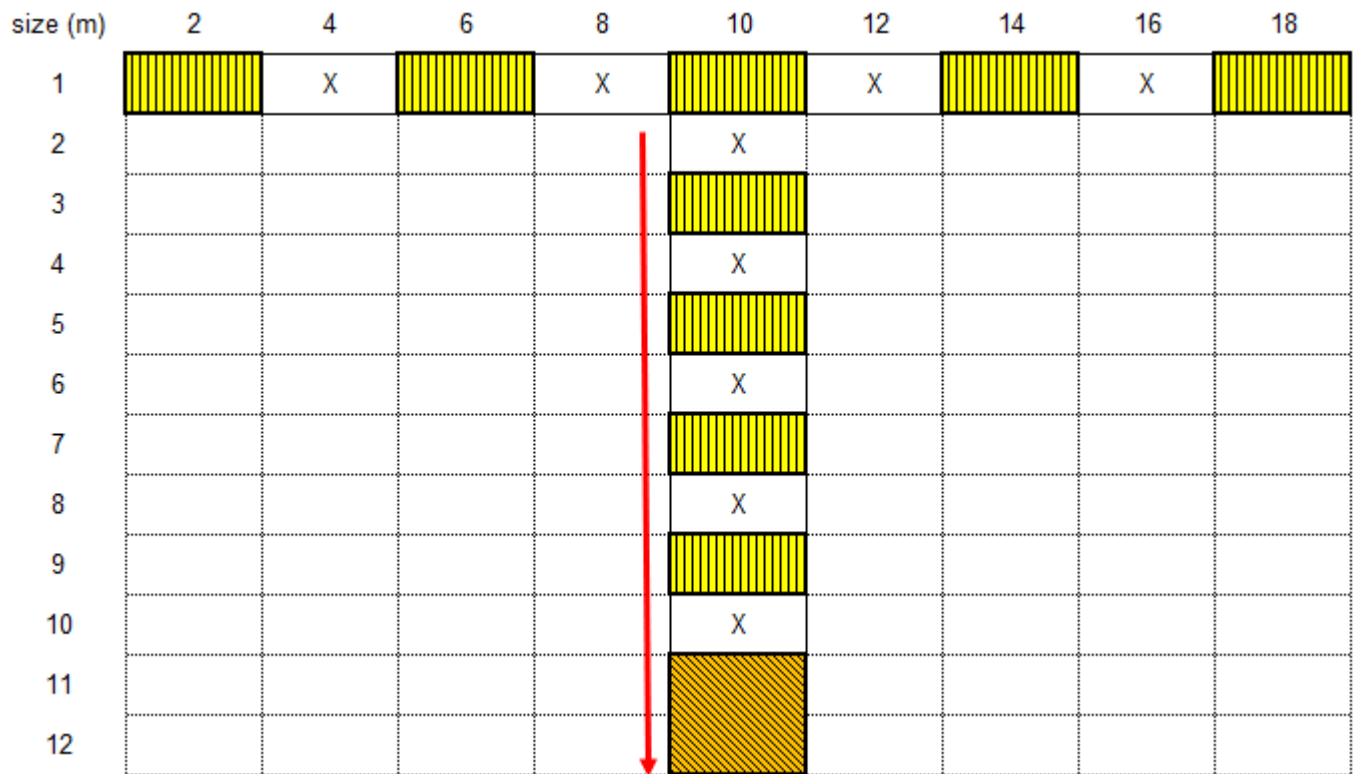


intermediate staging platform

STEP 8 build the back row first



STEP 9 build the middle row towards the front



Step 10 Fill in the rest of the stage in a diagonal pattern

size (m)	2	4	6	8	10	12	14	16	18
1	Yellow stripes	X	Yellow stripes	X	Yellow stripes	X	Yellow stripes	X	Yellow stripes
2	X	X	X	X	X	X	X		
3	Yellow stripes	X	Yellow stripes	X	Yellow stripes	X	Yellow stripes		
4			X	X	X				
5			Yellow stripes	X	Yellow stripes				
6			X	X	X				
7			Yellow stripes	X	Yellow stripes				
8					X				
9					Yellow stripes				
10					X				
11					Diagonal stripes				
12					Diagonal stripes				

Step 11 the stage is now completed and can be rolled to the desired position. Move the stage by hand only !



DON NOT USE MACHINES TO MOVE THE STAGE AS IT COULD DAMAGE THE STAGE.



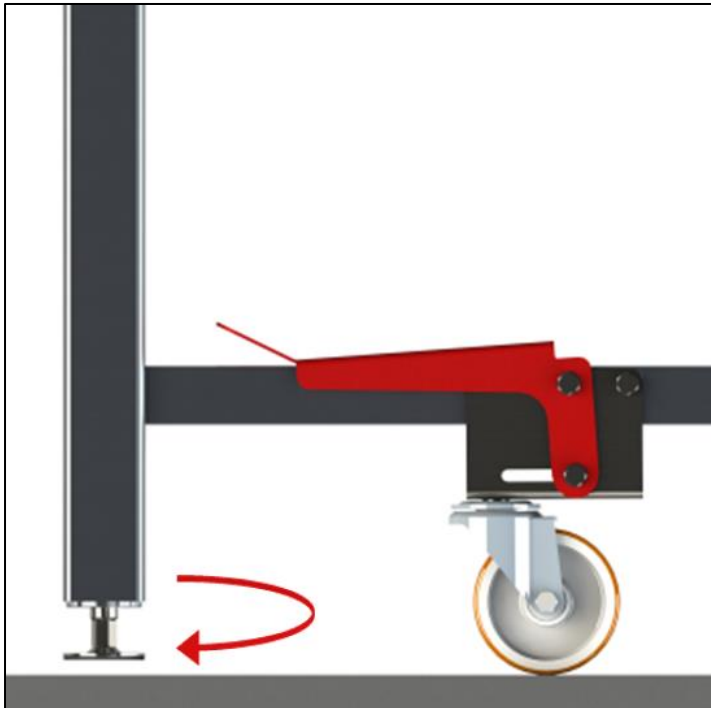
MAKE SURE THE FLOOR IS FREE OF OBSTACLES, E.G. CABLES , BIER KASTEN, WOOD PADS

size (m)	2	4	6	8	10	12	14	16	18
1	Yellow stripes	X	Yellow stripes	X	Yellow stripes	X	Yellow stripes	X	Yellow stripes
2	X	X	X	X	X	X	X	X	X
3	Yellow stripes	X	Yellow stripes	X	Yellow stripes	X	Yellow stripes	X	Yellow stripes
4	X	X	X	X	X	X	X	X	X
5	Yellow stripes	X	Yellow stripes	X	Yellow stripes	X	Yellow stripes	X	Yellow stripes
6	X	X	X	X	X	X	X	X	X
7	Yellow stripes	X	Yellow stripes	X	Yellow stripes	X	Yellow stripes	X	Yellow stripes
8	X	X	X	X	X	X	X	X	X
9	Yellow stripes	X	Yellow stripes	X	Yellow stripes	X	Yellow stripes	X	Yellow stripes
10	X	X	X	X	X	X	X	X	X
11	Diagonal stripes	X	Diagonal stripes	X	Diagonal stripes	X	Diagonal stripes	X	Diagonal stripes
12	Diagonal stripes	X	Diagonal stripes	X	Diagonal stripes	X	Diagonal stripes	X	Diagonal stripes

STEP 12 When the stage is positioned, adjust the screw jacks until their feet touch the floor by using a size 19 wrench.



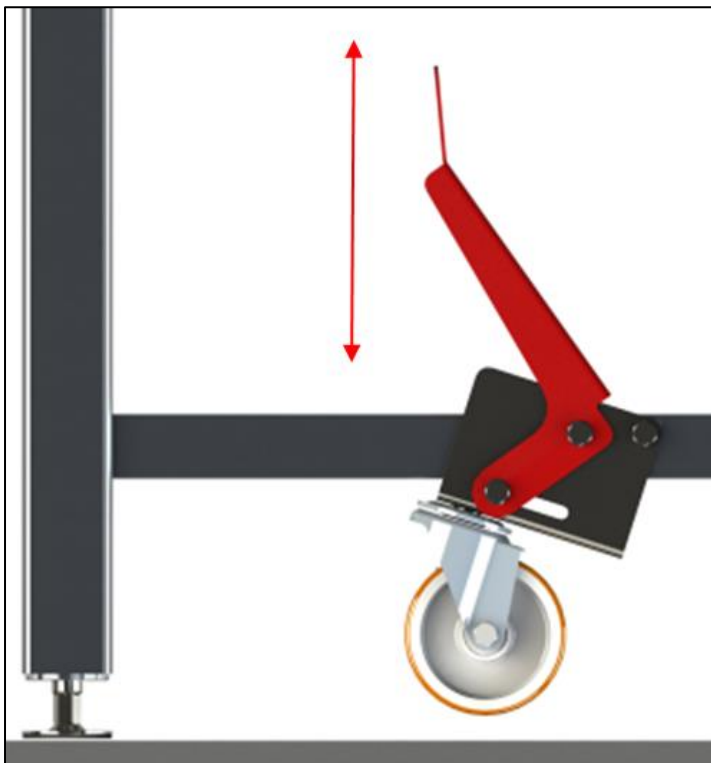
IF THE FLOOR IS NOT EVEN USE WOOD PADS TO COMPENSATE THE HEIGHT DIFFERENCES.



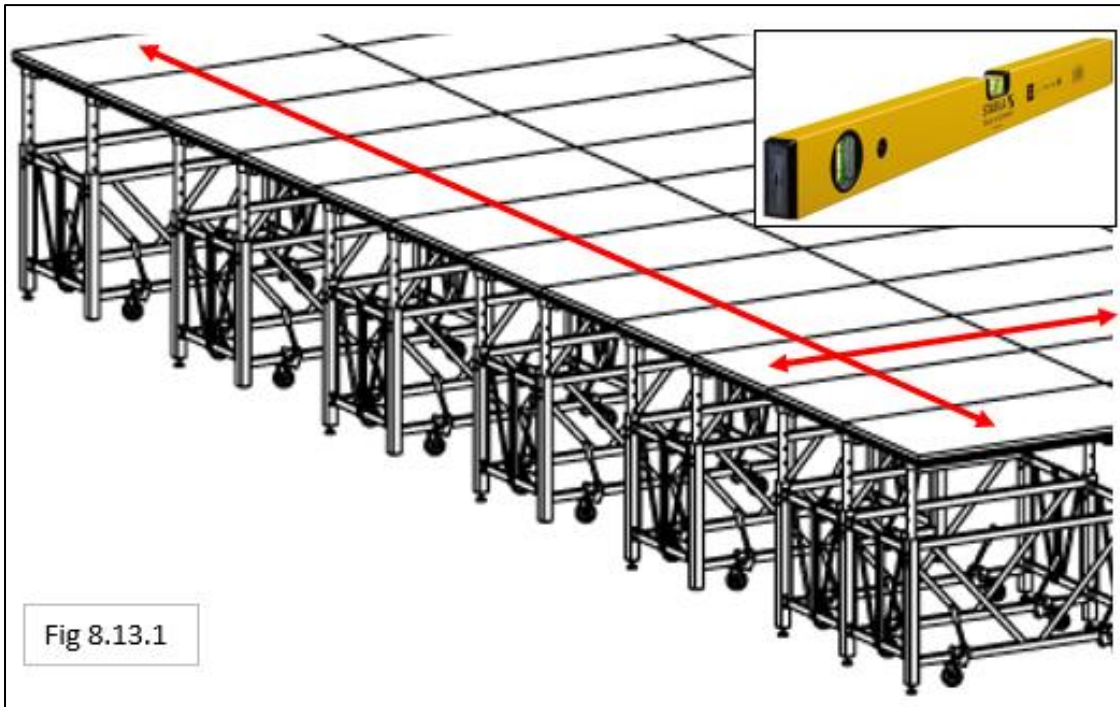
STEP 13 Lift the wheel lever brackets to make sure the stage is supported by the screw jacks only.



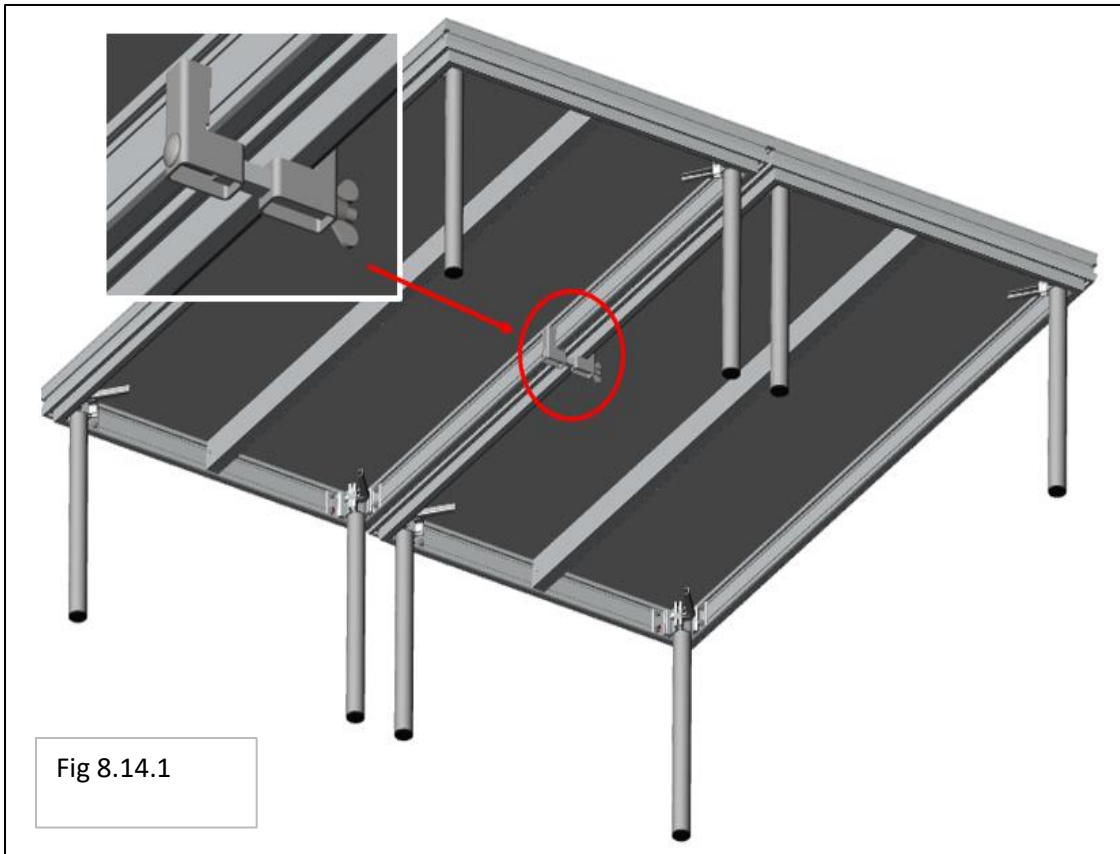
THE LOAD SHALL NOT EXCEED 100KG POINT LOAD FOR LOADS DIRECTLY PLACE ABOVE A TELESCOPIC LEG



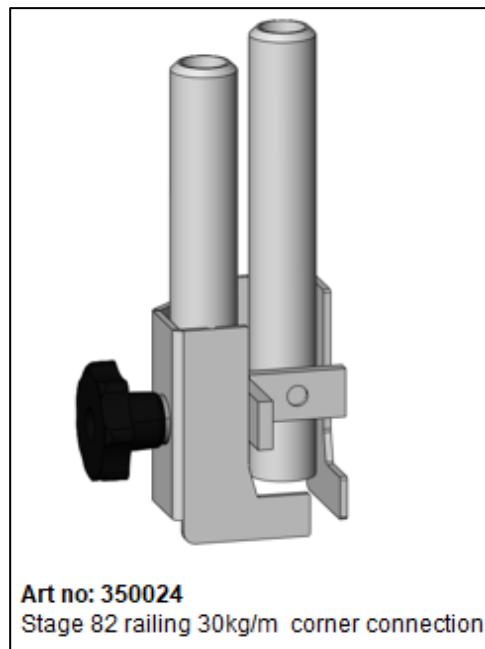
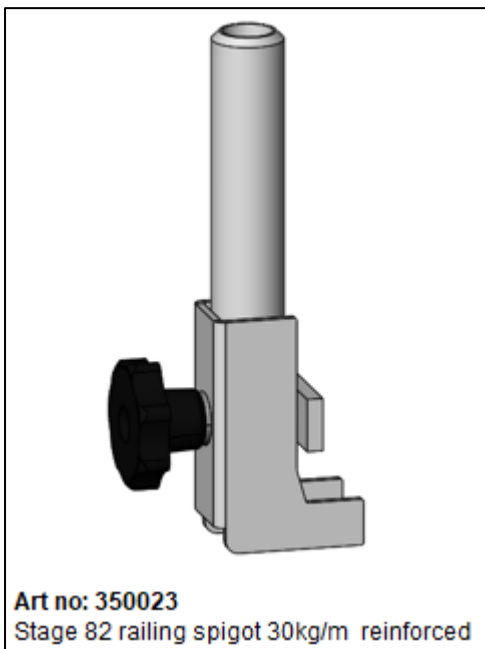
STEP 14 If needed, level the stage by means of a (rotating laser) leveller and adjusting the screw jacks. Use wood/ rubber pads to underfill the screwjacks in case the floor must be protected . Start with the 1st upstage/down stage row and subsequently the adjacent row of frames.



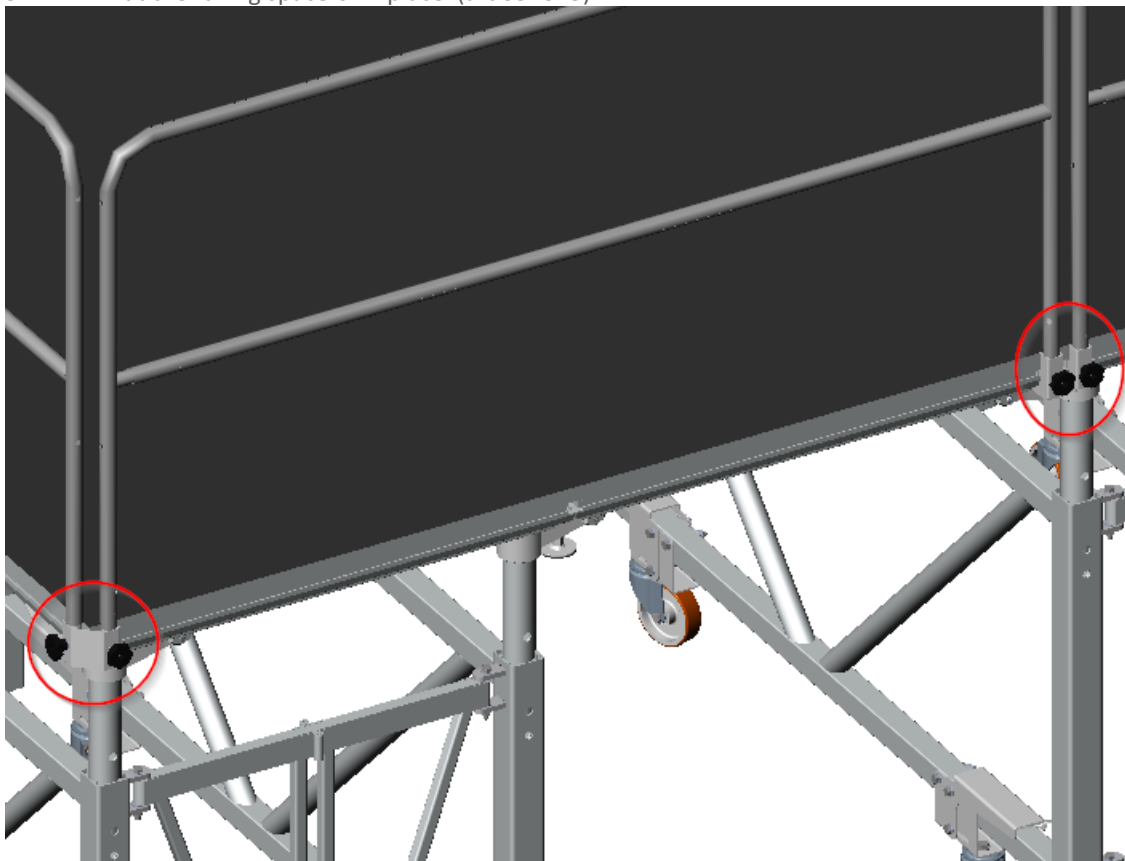
STEP 15 Optional feature to minimise the deflection of the staging modules. Use the Stage-to-Stage clamp-Art. 36004 to interconnect the staging modules on the 200cm sides from underneath if required.



STEP 16 Mount the railings. Make sure the railing adapters are not fully tightened before the railing frame is placed on top. Tighten the adapters and the bolts of the railing.



STEP 17 Put the railing spacers in place (art 351013)



STEP 18 Apply a skirting to the edges of the stage where desired.

STEP 19 Apply a proper grounding system to the arena frame system

STEP 20 Disassembly: Follow the steps 1 till 18 in reverse.

- 9. INSPECTIONS** see manual part 1 “general requirements”
- 10. MAINTENANCE AND DISCARD CRITERIA** see manual part 1 “general requirements”
- 11. LEGISLATION** see manual part 1 “general requirements”
DIN 15921 – Entertainment technology – aluminium platforms and frames- safety requirements and testing
- 12. GUARANTEE** see part 1
- 13. DISCLAIMER** Sixty82 has made every effort to ensure the accuracy of this manual, no liability will be accepted for errors. Sixty82 reserves the right to change or alter their products and documentation without prior notice. No part of this manual may be reproduced in any form or by any means without written permission. In case of a claim under the guarantee, a malfunction or spare part requirements please contact your point of sale or Sixty82.

14.ANNEX A : OVERVIEW OF COMPONENTS