

Thank you for purchasing a Screen Technics Projection Screen, please ensure that you read the following instructions fully before attempting to install this product.

# WALL MOUNTING INSTRUCTIONS

STEP 1. Measure the wall where the screen is to be installed and mark with a pencil the desired height to top of screen case and also the centre of the screen.



STEP 2. Measure the length of screen canister along the top surface and mark the centre of the canister with a pencil, to assist in lining up the screen when mounting.



STEP 3. Determine the best positions for the wall brackets, allowing that in Gyprock or in low strength walls the brackets will be screwed into a timber stud. In more solid walls, such as masonry, position the brackets approx 150mm in from the canister end. The brackets should be no more than 450mm in from each end. You must use a minimum of 3 off wood screws per bracket or 2 off Dyna-bolts, for masonry walls and you must be satisfied that the attachment is strong enough for the a safe installation.

Brackets supplied as follows, all brackets must be used in installation: Up to and including 100" = 2 brackets Over 100" and up to 150" = 3 brackets 150" and up to 200" = 4 brackets 200" = 5 brackets





NB: Top of bracket equals top of screen canister.

STEP 4. You may need to remove the bottom clip in order to screw brackets to wall, please ensure to replace them afterwards.



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STEP 5. Using two people install the screen by placing the screen canister into the bottom of the bracket clips and pivoting back the canister to slot the top pins into the T channels running along the top of the canister (you may have to remove any tape that is in the way).

STEP 6. Holding screen in position tighten up Allen screw at each end and check that the top pins have hooked into the T section of the screen canister.





IMPORTANT. Always ensure that you can remove the screen for maintenance or repair if required. Do not sheet it in place.



# **CEILING MOUNT INSTRUCTIONS**

Below is a photo showing a side view using the brackets for ceiling fixing, you would follow the instructions for the wall mounting system, with the only difference being the screen is mounted hard against the ceiling. It is important that adequate support is supplied by the ceiling structure to support the screen and to ensure a safe installation. Never rely just on the Gyprock for attachment.



#### Please follow these instructions to ensure trouble free operation;

- Ensure that the screen is free to descend and that any adhesive tape that has been placed bottom of the screen (to stop movement during transport) has been fully removed.
- When installed, the opening in the canister should be down and at the back of the canister. This will put the chain drive on the left-hand side of the screen, as viewed by the audience. (Unless ordered otherwise).
- Cleaning of the screen is best achieved by first dusting the surface with a feather duster, then to remove any stubborn marks, use a small amount of mild detergent and warm water on a clean white lint free cloth. Do not use a saturated cloth, as this may leave a watermark, only a damp one. It is most important that you only treat the actual mark by this process and not the entire surface.

The Motor is 240 V 50Hz and draws 1.2 A.

The screen drop is set and tested at the factory. Therefore, any damage caused to the screen from limit re-adjustment is not covered by warranty.

Should you have any questions regarding the installation of our projection screens please call our technical sales desk on +61 2 4869 2100 for assistance.



# CONNECT IP MODULES 1 & 2



All inputs on module 1 are accessed by removing right hand end cap of screen canister

#### **1. CONTACT CLOSE INPUT**

- Contact Close Input for local control
- Requires 2 x Momentary contacts duration minimum 50 milliseconds
- Dedicated contact for Up & Down
- Stop command is close opposite travel contact or both Up & Down together

#### 2. DC TRIGGER INPUT

- Down command is sent when a DC Voltage of 3 Volts @ 1mA minimum is applied to input, a Up command is sent
- Up command is sent when a DC Voltage of less than 1.0 Volts DC @ 1mA is applied to input, a Down command is sent
- Maximum cable length 75 meters approximately based 24 AWG gauge cable



#### **3. CONNECT NETWORK**

- Connect Network uses a RJ11 6P6C Plug 6 core wired straight through
- 50 Meter maximum cable length between modules
- Connect network carries commands when connected to other Connect Modules
- Maximum of 8 Modules Total, including Connect IP module

#### 4. INFRA-RED INPUT

- Supplied with 2 channel IR transmitter
- Supplied with IR receiver with 300mm and 1.2M input lead
- IR operates on Group 1 & 2 as standard

#### 5. RJ45 LAN INPUT

- DHCP or Static IP addressable
- Internal Web Browser
- TCP/IP controllable

#### 6. PC OR MAC CONNECT SOFTWARE

- As the module is DHCP default, this software will allow simple operation and identification of IP address and port number of IP connect modules on network
- PC Connect software will search for Connect IP Modules on the network
- Screen shot below showing module, IP address using PC Connect
- Connect to module

The PC Connect / Mac Connect software is found on our web site: screentechnics.com.au and can be accessed through the DOWNLOAD menu.

10	Туре	Version	Status		
	tion 1: 192.1	168.0.32 STCC	NNECT937F96 Disconnected	CONNECT	BROWSE
connec	The second s				
Connec	tion 2: Sear	ching		CONNECT	BROWSER
Connect Connect	tion 2: Sean	Ching	Direction String		BROWSE
Connec Connec	Port	ching	Direction String		BROWSE

- Screen shot below of module connected
- Allows operation of module via simple control
- When command is sent string showing command, IP address, Port number and feedback response is shown in the box below

ID	Туре	Version	Status			
1	80 <mark>1</mark>	44	Moving	TOP <u>UP</u> <u>Down S</u>	Stop Calibrate	Rattle
Connectio	on 1: 192	168.0.32 STCON	INEC T937	/F96 Ready	DISCONNECT	BROWSE
Connectio Connectio	on 1: 192 on 2: Moo	.168.0.32 STCOM dule Not Found	INEC T937	1F96 Ready	DISCONNECT	BROWSE
Connectio	on 1: 192 on 2: Moo	.168.0.32 STCON dule Not Found	INEC T937	7F96 Ready	DISCONNECT	BROWSE
Connectio	on 1: 192 on 2: Moo	168.0.32 STCON dule Not Found	INEC T937	<b>/F96 Ready</b>   Strig   65 3781		BROWSE
Connectio Connectio 192.168.0.32 192.168.0.32	on 1: 192 on 2: Moo Port 3001 3001 3001	168.0.32 STCON dule Not Found	INECT937	596 Ready 597g 53781 155, 1, 255, 255, 255, 255, 255, 255, 25		BROWSE
Connectio Connectio Address 192. 168.0.32 192. 168.0.32 192. 168.0.32 192. 168.0.32	Port 3001 3001 3001 3001	168.0.32 STCON dule Not Found Function Get Module Ids Get Module Ids Get Module Types	Direction Send Receive Send Receive	String         String           65 3781         55, 255, 255, 255, 255, 255, 255, 255,	CONNECT	BROWSE
Address 192.168.0.32 192.168.0.32 192.168.0.32 192.168.0.32 192.168.0.32	Part 3001 3001 3001 3001 3001 3001	168.0.32 STCON dule Not Found Function Get Module Ids Get Module Vpes Get Module Vypes Get Module Vypes	Direction Send Receive Send Receive Send	F986 Ready 5979 65.781 105, 1, 255, 255, 255, 255, 255, 255, 255,	CONNECT	BROWSE
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Address 192.168.0.32 192.168.0.32 192.168.0.32 192.168.0.32 192.168.0.32 192.168.0.32 192.168.0.32 192.168.0.32	Port 1: 192 Port 3001 3001 3001 3001 3001 3001 3001 3001 3001 3001	168. 0. 32 STCON dule Not Found Punction Get Module Ids Get Module Versions Get Module Versions Get Module Versions Get Module Versions	Direction Send Receive Send Receive Send Receive Send Perceive	String           55.781           105, 1, 255, 255, 255, 255, 255, 255, 255,	DISCONNECT CONNECT	BROWSE
Connectic Connectic 192, 168,0.32 192, 168,0.32 192, 168,0.32 192, 168,0.32 192, 168,0.32 192, 168,0.32	Port 1: 192 001 2: Moo 2001 3001 3001 3001 3001 3001 3001 3001 3001	168 0.32 STCOM dule Not Found Function Get Module fois Get Module Types Get Module Types Get Module Yesson Get Module Yesson Get Module Yesson Get Module Yesson Get Module Yesson	Direction Send Receive Send Receive Send Receive Send Receive	Sterg         5571           #5371         155, 12, 55, 255, 255, 255, 255, 255, 25		BROWSE

- Click on Browser button and simple control screen appears
- Click on login to view advanced settings page





#### 7. CONNECT INTERNAL WEB BROWSER

- Using web browser
- Type IP address as shown in PC Connect Software

Select Direct Control from Control Menu

Direct Control Screen shown below

MAF address and Module ID shown

- Connect Login screen will be shown
- Input User Name : Admin

8. CONNECT DIRECT CONTROL

Simple control feature

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• Password : Connect

Login
Login
Login
Login

← → C 🗋 192.168.0.32

#### 10. IP CONTROL SETTINGS

- Access settings via set up tab
- Setting of static IP address
- Mac address set up (If replacing on network)
- Current IP operating parameters
- AMX Discoverable enable
- Screen Technics Beacon
- Simple control page

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Login	Control		System		Setup	Diagnostics	Contact	
IP Setup					IP Setup Change Password:	5		
Early DUCD	Ver				Options			
Module Name	STCOM	INECT937E	96					
IP Address	192	. 168	.1	. 253				
Subnet Mask	255	. 255	. 255	. 0				
Gateway IP Address	192	. 168	. 1	. 1				
Undate								
IP Address	192	. 168	. 0	. 32				
Subnet Mask Gateway IP Address MAC Address MAC Address (Hex) Permanent MAC Addre Update	192 Setup	. 168 00 : 04 96 00":"04":"a3	.0 :a3 ":"93":"7f":	. 254 : 93 : 7f "96"	]:			
Subnet Mask Gateway IP Address MAC Address MAC Address (Hex) Permanent MAC Addre Update	Setup Setup Setup	. 168 00 : 04 36 00": 04": "a3	.0 :a3 ":"93":"7f": System	. 254 : 93 : 7f *96" m	: Setup	Diagnostics	Contact	
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Partial 1 & 2 act as stop command unless partial has been programmed

#### 9. GROUP CONTROL

- Direct Control Screens that have been programmed with the same IR group or switch group (contact Close input)
- Partial 1 & 2 act as stop command unless partial has been programmed
- Simple control feature





#### 11. REGISTER SETTINGS

- Access this menu by selecting System then Module Settings Select MAF address or Module ID and select load •
- •
- •
- Change value and select update This menu will enable changes of features within the module •
- •
- 127 registers in total Screen shot below showing register page •

Login Control System Setup Diagnostics Contact Module Settings	
Login Control System Setup Diagnostics Contact Module Settings	
Login Control System Setup Diagnostics Contact Module Settings	
Login         Control         System         Setup         Diagnostics         Contact           Module Settings	
Login         Control         System         Setup         Diagnostics         Contact           Module Settings	
Module Settings	
-	
Module ID 1 Load	
MAF Address	
Register Value Update	
1 42 Update	
2 IOO Update	
3 9999 Update	
4 9999 Update	
5 421 Update	
6 0 Update	
7 0 Update	
8 65343 Update	
9 0 Update	
10 32383 Update	
11 0 Update	
12 32766 Update	
13 31 Update	
14 0 Update	
15 0 Update	
16 Update	
17 0 Update	
18 O Update	

## COMMONLY USED REGISTERS

Register Number	
65	Operation PIN
66	Programming PIN
67	Partial Pos 1 - Lo
68	Partial Pos 1 - Hi
69	Partial Pos 2 - Lo
70	Partial Pos 2 - Hi
71	SWITCH MODE
72	Partial 1 Open Mode
73	Partial 2 Open Mode
74	SWITCH GROUP Bitmapped Register below
75	IR GROUP Bitmap Register Below
76	Timer Up
77	Timer Down
78	MODULE_ID
82	Time_delay_up (100mS)
83	Time_delay_down(100mS)



#### 12. INFRA-RED GROUP BITMAP CALCULATOR

- Add the value of IR groups
- If you wish the module to operate on Group 1 only change register 75 to a value of 2
- If you wish the module to operate on Group 1& 2 only change register 75 to a value of 6



#### 13. CONTACT CLOSE SWITCH GROUPS

- Add the value of switch groups
- If you wish the module to operate on Switch Group 1 only – change register 74 to a value of 2
- If you wish the module to operate on Group 1 & 2 only change register 74 to a value of 6

Group	Value
1	2
2	4
3	8
4	16
5	32
6	64
7	128
8	256
9	512
	TOTAL

SWITCH GROUP BITMAP REGISTER

Calculate the register number by using following table:-

- 1. Transfer the Value for each required group to the right column.
- 2. The Total of the values in the right column then becomes the Register Value
- Eg: to set groups 1, 2 & 4 then the Total value is 22

Group	Value
1	2
2	4
3	8
4	16
5	32
6	64
7	128
8	256
9	512
	TOTAL

#### 14. IP CONNECT SERIAL PROTOCOL

- This serial command protocol is essentially the same for all console channels
  - TELNET via TCP/IP (2 ports 3001)
  - HTTP via port 80

#### FORMAT

The stream is made up of messages. A message consists of 1 to 80 printable ascii characters followed by and end of message. An end of message is one or more of CR and LF optionally combined with any number of delimiters.

A message is made up of unsigned numerical value fields in decimal format separated by one or more delimeters. A delimiter is any single or combination of space, comma or tab.

Examples of valid messages to the IP Connect module are given below. All these messages have the same meaning.

1,3,45<CR> 1,3,45<LF> 1,3,45<CR><LF> 1,3,45<CR><LF> 1,3,45,<CR><LF> 1,3,45,<CR><LF> 1,3,45,<CR><LF> 1,3,45,<CR>,. 1,3,45,<CR>,. 1,3,45,<CR>,. 1,3,45,<CR><LF> 000000001,3,45<CR><LF> 1,3,45<CR><LF> 1,45<CR><LF> 1,45<

#### A message is not a valid message if:

- It contains more than 80 characters before an end of message character is received.
- It contains a character that is not <CR>,<LF>,<TAB>,<SPACE>,0,1,2,3,4,5,6,7,8,9,",".
- A numerical field exceeds 65535
- It contains more than 10 fields

If a packet is determined to be not a valid message it is ignored. If a message is determined to be invalid before the end of message is ignored then all characters received are ignored until an end of message character is received.

Messages from the IP Connect module comply with the requirements of the incoming messages but in addition are fixed width formatted. Each numerical field is made of 5 characters (leading spaces and digits). A comma delimiter is included.

An Example is shown below:

1, 3, 45<CR><LF>



#### **15. CONTROL COMMANDS**

- These commands are used to control the operation of screens.
- The Switch groups and IR groups must be programmed according to section 5
- Unified address is MAF address plus 16 e.g. Module 1 is Unified address 17

#### OPERATE MODULE DIRECT

COMMAND	VALUE	DESCRIPTION
30	Module ID	Operate Module UP
31	Module ID	Operate Module PARTIAL 1
32	Module ID	Operate Module PARTIAL 2
33	Module ID	Operate Module DOWN
36	Module ID	Operate Module STOP

- Command followed by value 0 operates all modules connected via Connect Network including the Connect IP module (e.g.: 30 0 will operate all devices connected via the Connect network)
- Example of direct command Connected to 192.168.0.32:3002 – command 30 1 using module ID would see the screen move to up position

#### IR GROUP COMMANDS

- IR group control can be used to control screens directly if connected via Connect Network including the Connect IP module
- Each module will require programming via register 75, as per point 11 in document
- Example of direct command Connected to 192.168.0.32:3002 command 201,would see all screens programmed to operate on IR group 1 move to up position
- Command followed by value 0 operates all modules connected via Connect Network including the Connect IP module

#### OPERATE IR GROUP

COMMAND	IR GROUP	DESCRIPTION
20	IR Group 1 to 9, 0	Operate IR Group UP
21	IR Group 1 to 9, 0	Operate IR Group PARTIAL 1
22	IR Group 1 to 9, 0	Operate IR Group PARTIAL 2
23	IR Group 1 to 9, 0	Operate IR Group DOWN
26	IR Group 1 to 9, 0	Operate IR Group STOP

#### SWITCH GROUP COMMANDS

- Switch group control can be used to control screens directly if connected via Connect Network including the Connect IP module
- Each module will require programming via register 74, as per point 11 in document
- Example of direct command
   Connected to 192.168.0.32:3002 command 201 would see all screens programmed to operate on Switch group 1 move to up position
- Command followed by value 0 operates all modules connected via Connect Network including the Connect IP module

#### OPERATE SWITCH GROUP

COMMAND	IR GROUP	DESCRIPTION
10	SWITCH Group 1 to 9, 0	Operate IR Group UP
11	SWITCH Group 1 to 9, 0	Operate IR Group PARTIAL 1
12	SWITCH Group 1 to 9, 0	Operate IR Group PARTIAL 2
13	SWITCH Group 1 to 9, 0	Operate IR Group DOWN

#### 16. PROGRAMMING PARTIAL POSITIONS 1 & 2

- Before partial positions can be programmed, the screen must be calibrated Calibration is done by sending the below command. eg. to calibrate screen 1 a code of 192.168.0.32:3002
   – command 042 17 using Unified address would see the screen calibrate
- Calibration command can also be sent from the PC Connect software

COMMAND	MAF ADDRESS + 16	VALUE 1
42	Unified Address	3781

- Please start calibration by returning screen to top limit and then sending calibration command
- Due to motor run time this feature is not available on some large projection screens or Screen Lowering devices
- Partial 1 must be set first and must be above partial 2
- Note that if partial positions have been programmed Stop 1 and Stop 2 on infra red transmitter will send screen to partial 1 & 2, and will not stop the screen



#### SETTING THE PARTIAL POSITIONS

Note: Partial positions are set using internal timers, position can vary due to mains voltage fluctuations, motor load changes and temperature.

COMMAND	MAF ADDRESS + 16	VALUE 1	DESCRIPTION
44	Unified Address	3781	Sets Partial Position 1
45	Unified Address	3781	Sets Partial Position 2

To set Partial 1 - stop screen at required location and send command - if screen 1 is being used

- IP address 192.168.0.32:3002 command 044 17 using unified address would see the screen set partial position 1
- To set Partial 2 stop screen at required location and send command if screen 1 is being used a IP address 192.168.0.32:3002 command 045 17 using unified address would see the screen set partial position 1

#### 17. MODULE STATUS FEEDBACK

• A module status buffer (20 record FIFO) is updated as a automatically generated Send Register Commands with register number = 0x20 are sent from each module. The module status buffer contains the Module ID (1 byte), and Module Status (2 bytes)

#### COMMAND

050	Response from module e.g. 150, 1, 1, 6 – value 6 indicates screen at top			top
СОММАНД				

COMMAND	VALUEI	VALUEZ	VALUE 3
150	Status	Module ID	Module Status Register (0x20)

Note – Status=1 is returned if valid data and no further records in the status buffer Status=2 is returned if valid data and there are still records in status buffer Status=3 is returned if valid data but the buffer is full (eg may have lost data) Status=6 is returned if there are no new records

This buffer is updated when screens are moved. It is also updated automatically every 60 seconds. It needs to be polled regularly to clear the stored data otherwise it will get full and records will be lost. Even though screens may not be moving the data is being updated even though the status is the same.

RESPONSE THE NO	CONNECT IL HODOLE
0	Moving top
1	Moving bot
2	Moving PP1
3	Moving PP2
4	Moving PPT
5	Moving PPB
6	At TOP
7	At BOTTOM
8	At PP1
9	At PP2
10	Stopped manual
11	Error
12	Spare
13	Fail-timeout
14	Fail – current
15	Rattle
16	At PPT
17	At PPB

#### Example of string from module:



#### 18. AMX Device Discovery

- This feature allows the IP CONNECT module to be identified by AMX AV Control Systems. • When polled the IP CONNECT module responds with a Beacon message which contains device specific information. (Eg Make, Model, Version) With this information the AMX system is able to then configure itself with the correct protocol to be able to control the IP Connect Module.
- The protocol works for any of the Serial ports, and over TCP/IP.
- The AMX "Device Discovery White Paper.Doc" defines, The Dynamic Device Discovery
- Protocol the connection methods and data interactions required to dynamically connect a third party device to a NetLinx Master via either serial or IP connectivity.

Function is exited when screen operation finished or another screen operate

AMX Discovery is enabled using Register 80 or via internal web browser

- Double short press for 2 seconds approximately per button press
  - Screen Up command. Screen travels to up limit.
  - LED single flashes while in this function. Pressing button again stops screen.
  - Function is exited when screen travels to up position or another screen operate command is sent.
- Triple short press for 2 seconds approximately per button press
  - Screen Down command. Screen travels to down limit.
  - LED single flashes while in this function.
  - Pressing button again stops screen.
  - Function also exited when screen operation finished or another screen operate command is acted on.

#### **19. FACTORY RESET SWITCH**

- Single long press for 5 seconds approximately •
  - Factory Default Mode selected.
  - \_ I FD double flashes.
  - Pressing button again exits mode. \_
  - Receiving an IR command exits this mode.

Single short press for 3 seconds approximately

LED single flashes while in this function.

Pressing button again stops screen.

Screen Rattle command. 3 seconds down 1 second up.

command is acted on.

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## 20. Default IP Address when in Factory Default Mode

- Hold reset button on module until LED flashes twice to put the IP module into static IP • mode
- You will need to set your network adaptor to look for IP range example shown:

http://192.168.1.253 Into browser address bar Input User Name : Admin - Password : Connect You should now see the direct control screen You can now access the settings for the Connect IP module

		imported Promite Redieal Additions and the Leading supplier of
get IP settings assigner bility. Otherwise, you r ppropriate IP settings.	d automatically if your network supports need to ask your network administrator	connect.
tain an IP address auto	matically	
e the following IP addre	ss:	
dress:	192.168.1.34	Login Contact
et mask:	255.255.255.0	
ult gateway:	192.168.1.1	Login
ain DNS server addres:	s automatically	User Name
the following DNS serv	ver addresses:	Password
red DNS server:		1 us nord
ate DNS server:		
idate settings upon exi	t Advanced	Login





#### 21. LIMIT SETTING FOR CONNECT ELECTRICINEMA IP SCREENS

The following instructions are for the adjustment of the limit switches that alter the upper and lower stop positions on "Connect" ElectriCinema IP Screens only

### WHERE ARE THE LIMIT SWITCHES?

(On the Left Hand Side).

One switch is accessible through the slat rod opening and the other is behind a rubber grommet towards the front of the canister.

#### WHICH SWITCH IS FOR UP AND DOWN?

Down switch - Accessible through the rubber grommet Up switch - Accessible through the slat rod opening

#### WHAT TOOLS DO I NEED?

Either the limit setting tool (supplied), a narrow tip screw driver (less than 4mm) or a 4mm Allen Key

#### WHICH WAY DO I TURN THE SWITCH?

Clockwise always increases the amount of rotation (travel) of the motor. Anti-clockwise always reduces the amount of rotation (travel) of the motor. So pick the switch responsible for the limit position, up or down. Clockwise turning of the switch will always let the motor travel further in that direction. Anti-clockwise turning of the switch will lessen the amount of travel in that direction.

#### CAN I ADJUST THE SWITCH WHILE THE SCREEN IS SITTING ON THE LIMIT - IE FULLY UP OR DOWN?

Clockwise adjustment? - YES. But it is better to back the screen away from the limit and then adjust

Anti-clockwise adjustment? - NO you will damage the micro switch if you turn it anti-clockwise while the screen is sitting on the limit. Never attempt this. You must back the screen away from the limit before adjustment. After adjustment you will need to run the screen up and down to pick up the new limit

# WILL I VOID THE PRODUCT WARRANTY IF I DAMAGE THE SCREEN WHILST MAKING THESE ADJUSTMENTS? YES.!!!

Should you have any questions regarding the installation of our products please call our sales desk on +61 2 4869 2100 for assistance

BEWARE

ROLLERS SCREENS HAVE A FINITE AMOUNT OF LEADER, THE STANDARD BEING 300MM. IF YOU ORDER A CUSTOM LEADER LENGTH THEN THAT BECOMES THE FINITE AMOUNT. DO NOT ADJUST THE BOTTOM LIMIT SO AS TO EXPOSE MORE THAN THIS FINITE AMOUNT

#### IF YOU DO YOU WILL: EXPERIENCE POOR LAYFLAT OF THE SURFACE WHICH MAY BRING COMPLAINTS FROM YOUR CUSTOMER. WEAKEN THE HOLD OF THE SURFACE ON THE ROLLER AND, ONE DAY, THE SURFACE WILL BE ON THE FLOOR. THIS IS NOT COVERED UNDER WARRANTY.

#### 22. SLAT ROD TENSIONING ADJUSTMENT

Please contact our sales office before any adjustment is made to the tension of the side tab tension line, as incorrect adjustment may damage the surface

- The adjustment of the Side Tab Tension line should only be used if the tension line becomes too tight or too loose
- Before any adjustment is made, the grub screws above and below the adjustment screw will need to be loosened before any adjustment is made.
- Left hand back of slat rod adjusts tension line

Before any adjustment is made, the grub

screws above and below the adjustment

Right hand back of slat rod adjusts

Turning Anti Clockwise loosens the line Turning Clockwise tightens the line

screw will need to be loosened before any

- Turning Anti Clockwise tightens the line
- Turning Clockwise loosens the line

adjustment is made.

tension line



Should you have any questions regarding the installation of our products please call our sales desk on +61 2 4869 2100 for assistance