

INSTALLATION INSTRUCTIONS FOR **JEROL** **Posts & Columns** – Ver. 6.05

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(1) INSTALLATION OF JEROL PRE - FABRICATED STEEL FOUNDATION

1.1 Excavation and foundation

- When considering depth, note that the top of the foundation must be a minimum of 100mm below ground level. **Figure 1**
 - b) If an auger is used to drill a hole with less clearance, see special comments about backfill below.
 - Excavate to required depth
 - Lift the steel socket into position by attaching a sling/chain to the foundation as shown in **Figure 5**
 - Lower the socket into the excavation and level as necessary.
 - Backfill must be the excavated material or better quality material. (**Type 1 Sub-base recommended**)
-

If Electrical Connection required

- If required place ducting reducer on to the cable entry as shown in **Figure 2**
 - Excavate as necessary to install the access chamber and cable duct from chamber to cable entry. The chamber should be 500 mm from the edge of the foundation, so as to not compromise the stability of the foundation.
 - See notes below on specific cable installation
-

- Backfill and compact the complete excavation in layers to the top of the foundation, using the Type 1 sub-base material.
- **INSTALL COLUMN OR POST - GO TO INSTRUCTION 2, 3 or 4 as appropriate**
- Complete the installation by replacing the excavated material to 100mm above the top of the foundation. Compact as above.

Note: If an auger has been used to drill a hole with small clearance to the foundation, it will not be possible to use layered and compacted fill. In this case backfill should be concrete, vibrated to ensure there are no voids, but the grade is not important, as the use of concrete is simply a means to ensure adequate backfill.

(2) INSTALLATION OF JEROL LIGHTING COLUMN IN JEROL PRE-FABRICATED STEEL FOUNDATION

This method statement should be used in conjunction with the recommended electrical connection as shown in **Figure 2**. It uses a suitable plug and socket bonded onto a suitable 3-core cable, with 1.5m length on the plug and at least 4m length on the socket. This cable can be jointed to a 3-phase or single-phase highway distribution cable, using an IP67 moulded enclosure/junction box located in an adjacent access chamber.

2.1 Assembly and installation of column

Note: The cable from base compartment to luminaire position can be installed during the assembly, and taped to the end of the bracket arm.

- Assemble the arm while the column lies on the ground - **Figure 6**
- Fit the collar seal on the aluminium arm
- Put the arm in the top of the shaft and assemble the bolt, sleeve, washers and locknut. Tighten to approximately 35Nm using a calibrated torque wrench.
- Lubricate the collar seal and the arm with soap-water or oil. (Not hydraulic oil)
Also lubricate the inside of the shaft where the collar will mate to the pole.
Use the bracket assembly tool to knock in and locate the collar seal into the top of the shaft. The seal should seat securely onto the top of the shaft.
- Use a rope or sling to make a snare and place it over the door opening. Then make another snare of the same rope at the top of the shaft. Connect the end of the rope to the crane and lift the column, lowering it into the foundation. Check post weight chart – **Figure 5**
- When the column is in position in the foundation, align the column in the vertical position using the plastic wedges supplied. – **Figure 4**
- Fill the foundation with sharp grit to within 100mm from the top of the foundation.
- Cap the sand with mortar with a crossfall of 1 in 4
- Fit Strimmer Guard if required – **Figure 7**
- Backfill to ground level which should be **100mm above the top of the foundation.**
- ***NOTE* The plastic wedges can be left in position if trimmed back so that they don't extend above the top of the foundation.***

2.2. Electrical connection

Note: If desired, the installation of the cable from the connection chamber can be carried out in advance of the column or post being lowered into the foundation, and pulled up through the column/post as it is lowered. In this case the cut-out may also be terminated onto the cable in advance

- Assemble the cable with plug and socket, and tie a drawcord to the cable just below the female socket.
- Pass the cable through its cable duct and up into the centre of the column leaving sufficient length of cable to terminate at the backboard. The plug and socket should be located at or about the top of the foundation.
- Terminate the cable in the cut-out and fix the cut-out to the backboard
- Clamp the cable to the backboard (the bottom backboard fixing can be used to fix a single hole clamp)
- Tie the drawcord to the cable clamp, for future re-use to pull the plug and socket up to the door opening for inspection.
- Ensuring that there is no slack in the cable in the foundation and duct, clamp the cable in the connection chamber. Leave a loop of at least 1.0 m between the clamp and the connection to the main cable or junction box.
- Fit and connect the luminaire, and connect the internal wiring cable to the cut-out (subject to any necessary electrical testing)

2.3. Electrical disconnection

A variety of electrical disconnection systems are available. Installation of the selected system should be in accordance with the guidance given by the particular supplier.
A current list of approved system suppliers is given below:-

<u>Supplier</u>	<u>Tel No.</u>
NAL Ltd	01905 421000
Poletech Systems Ltd	01636 611426
Tofco Ltd	01661 860001

(3) INSTALLATION OF JEROL SIGN/SIGNAL POSTS WITH ELECTRICAL EQUIPMENT AND DOOR OPENING

This method statement should be used in conjunction with the recommended electrical connection as shown in **Figure 2**. For sign posts, it uses a suitable plug and socket bonded onto a suitable 3-core cable, with 1.5m length on the plug and at least 4m length on the socket. This cable can be jointed to a 3-phase or single-phase highway distribution cable, using an IP67 moulded enclosure/junction box located in an adjacent access chamber. Signal posts use multi pin (16) plug & socket arrangements and the method of installation may vary as specified by the signal head manufacturer.

3.1 Assembly and installation of posts

- Install foundation as detailed in **1.1**
- For large posts use a rope or sling to make a snare and place it over the door opening (or just above the protection cover if the post has no door opening). Then make another snare of the same rope at the top of the post. Connect the end of the rope to the crane and lift the post, lowering it into the foundation.
- Small posts may be installed by hand – see weight chart –**Figure 5**
- When the post is in position in the foundation, align the post in the vertical position using the plastic wedges supplied – **Figure 4**
- Fill the foundation with sharp grit to within 100mm from the top of the foundation.
- Cap the sand with mortar with a crossfall of 1 in 4
- Fit Strimmer Guard if required – **Figure 7**
- Backfill to ground level which should be **100mm above the top of the foundation.**
- ***NOTE* The plastic wedges can be left in position if trimmed back so that they don't extend above the top of the foundation.***

3.2 Sign plate

- Fix the sign plate to the post(s) with the **Jerol X-tra grip sign clips** fixed to the usual channels on the rear of the sign plate – **Figure 7**

3.3 Signal Heads

- Fit the signal heads using head fixing kits designed to be used with the larger diameter (168mm or 219mm) Jerol post.
- See **Figures 8 & 8A** for further details

3.4 Electrical connection

See 2.2 above

3.5 Electrical disconnection

See 2.3 above

(4) INSTALLATION OF JEROL PASSIVELY SAFE SIGN POSTS (without electrical components)

See Figure 1.

4.1 Assembly and installation of posts

- Insert the pole caps if provided
- Check post weight chart – **Figure 5**. Use a rope or sling to make a snare and place it just above the protection cover. Then make another snare of the same rope at the top of the post. Connect the end of the rope to the crane and lift the post, lowering it into the foundation.
- When the post is in position in the foundation, align the post in the vertical position using the temporary plastic wedges supplied - **Figure 4**
- Fill the foundation with sharp grit to within 100mm from the top of the foundation.
- Remove the wedges and cap the sand with mortar with a crossfall of 1 in 4
- Fit Strimmer Guard if required – **Figure 7**
- Backfill to ground level which should be **100mm above the top of the foundation.**
- ***NOTE* The plastic wedges can be left in position if trimmed back so that they don't extend above the top of the foundation.***

4.2 Sign plate

- Fix the sign plate to the post(s) with the **Jerol X-tra grip sign clips** fixed to the usual channels on the rear of the sign plate – **Figure 7**

(5) INSTALLATION OF JEROL PASSIVELY SAFE SIGN POSTS IN MASS CONCRETE FOUNDATION

See Figure 3

5.1 Excavation and foundation

- Excavate for and construct the foundation(s),
- Backfill around the foundations.

Note: a full method statement for the foundation construction must augment this method statement.

5.2 Assembly and installation of posts

- Insert the pole caps if provided,
- Use a rope or sling to make a snare and place it about 1.0 m above ground level
- Then make another snare of the same rope at the top of the post. Connect the end of the rope to the crane and lift the post, lowering it into the foundation.
Note: Small posts can be installed by hand- check post weight chart – **Figure 5**
- Straighten and adjust the post(s) using temporary wedges to hold the post(s) in the vertical position
- Fill the socket(s) to approx 100 mm below the foundation top with grit sand in 100 mm layers, consolidating by hand, and remove the wedges.
- Apply the capping mortar.
- Fit Strimmer Guard if required – **Figure 7**
- Backfill to ground level which should be **100mm above the top of the foundation**

5.3 Sign plate

- Fix the sign plate to the post(s) with the **Jerol X-tra grip sign clips** fixed to the usual channels on the rear of the sign plate –**Figure 7**
- ***ADVICE NOTE * INSTALLATION OF JEROL SIGN POSTS***
- ***To comply with the UK National Annex BS EN12767-2007, the following should apply:-***
- ***Post spacing:*** Sign posts should be spaced a minimum of **1600mm** apart.
- ***Mounting Height:*** Sign plates should not be mounted lower than the height at which they have been crash tested. In the case of **JEROL** poles this is **1500mm**.

(6.0) INSTALLATION OF HELIX POSTS

The Jerol high energy Helix posts are installed in the same way as the LE posts. However for optimum performance the speed restraining strap should be positioned at right angles to the oncoming traffic – See **Figure 9**

(7.0) STRIMMER GUARDS

Designed to prevent damage to the post surface by grass cutting or other landscape maintenance equipment, the Strimmer Guard is suitable for all types of columns and sign posts. The guard is manufactured from abrasive resistant polyurethane and can be retro fitted to any columns or posts already installed.

- Position the guard as per – **Figure 7**

(8.0) HEALTH & SAFETY ADVICE

The Jerol posts consist of an inner core of fibre-reinforced polymer composite, which is protected by an outer layer of polymer coating. (see material data sheet – section 8)

This outer coating reduces any dust emissions during cutting but certain basic safety precautions should be followed.

In the event that Jerol posts need to be drilled or cut on site, then the following should be observed:-

- The operation should be undertaken in a well-ventilated area.
- The operator should wear the following protective equipment
- Dust Mask
- Goggles
- Gloves

(9.0) TREATMENT AFTER CUTTING

After cutting the cut end of the post should be re-sealed to prevent moisture entering the fibre composite core.

The sealing can be achieved by applying a coating of clear exterior varnish.

Fit the end cap provided.

(10.0) JEROL POST/COLUMN REMOVAL AND DISPOSAL

Damaged Jerol posts and columns can be removed as follows:-

- The operator should wear the following protective equipment
- Dust Mask
- Goggles
- Gloves
- Excavate the mortar cap
- Attach a sling to the post or column and lift out of socket

Please contact the company (Tel: 01606 550502) to arrange collection of the damaged post or column.

(11.0) MATERIAL DATA SHEET

Glass reinforced polyester laminates coated with polyethylene

Date: 050207

Revision date: 050207

1. IDENTIFICATION OF THE PRODUCTS AND COMPANY.

Product name: Jerol Lighting Columns, Jerol Signal Posts, Jerol Sign Posts

Intended use: Construction materials for infrastructure

Name, full address and tel. of company:

Jerol Industri AB,

Box 62

SE-815 22 TIERP, SWEDEN

+ 46 (0)293 66310

+ 46 (0)293 66319

www.jerol .se

2. COMPOSITION/INFORMATION ON INGREDIENTS.

Jerol poles are solid glass-fibre reinforced unsaturated polyester material (GRP) coated with polyethylene (PE), and contains no substances presenting a health hazard within the meaning of Directive 67/548/EEC. The outer layer is a polyethylene copolymer (CAS No. 25087-34-7, with 1-butene as co-monomer). It contains small amounts of stabilizers.

3. HAZARDS IDENTIFICATION OF THE PRODUCT.

Glass-fibre reinforced unsaturated polyester laminates do not present a health hazard within the meaning of Directive 88/379/EEC.

Dusts from machining of the products (cutting, drilling and grinding) can cause irritation of eyes, skin and mucous membranes.

4. FIRST AID MEASURES.

Inhalation:

By inhalation of greater amounts of machining (cutting/drilling/grinding) dust, bring the person into fresh air. By persisting irritation, see a doctor.

Eye contact:

Wash eyes with fresh water. By persisting irritation, see a doctor.

Skin contact:

Wash well with soap and water. Use possibly suitable protecting cream to prevent irritation.

2/3

5. FIRE-FIGHTING MEASURES.

In the case of fire, use water, powder, foam or CO₂.

In the case of fire, the product will produce a black smoke, consisting of normal fire gases as Carbon dioxide, Carbon-monoxide etc., and soot particles.

In the case of Fire Retardant products, where the resin formulation contains halogenated additives based on chlorine and/or bromine, the fire gases will also consist of hydrogen chloride/hydrogen bromide (reacting with water to hydrochloric/hydrobromic acid).

6. ACCIDENTAL RELEASE MEASURES.

Not Applicable.

7. HANDLING AND STORAGE.

Handling:

By cutting, drilling, grinding and other machining, dust containing glass fibers, fillers etc. can be produced.

Ensure good ventilation, and use protective dust-masks to avoid inhalation.

Use eye-goggles and gloves to avoid eye and skin irritation.

Storage:

Should not be stored close to high temperatures or ignition sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

Engineering measures:

See to sufficient ventilation when machining of products.

Threshold Limit Value total dust = max 10 mg/m³ (TLV for Norway. Must be evaluated for each market).

Personnel protection:

When machining of products, use approved dust-masks, eye-goggles and gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES.

Glass fibre reinforced polyester Polyethylene

Physical state: solid

Flash point: N.A. N.A.

Specific gravity: 1,5-2,0 kg/dm³ 0,9-1,0kg/dm³

Carbonizing temp: 380 °C N.A.

Self-ignition temp: 480 °C > 300°C

10. STABILITY AND REACTIVITY.

Not Applicable for GRP part. The PE part is a stable thermoplastic, with no chemical reactivity

11. TOXICOLOGICAL INFORMATION.

Inhalation: Dust from machining (cutting, drilling, grinding) can cause irritation to mucous membranes and lungs.

Eyes: Dust from machining can cause irritation to eyes.

3/3

Skin: Dust from machining can cause irritation to skin, especially around wrists and neck.

12. ECOLOGICAL INFORMATION.

The products are insoluble in water and very durable. They are considered non-toxic and there are no known hazardous effects to the environment.

13. DISPOSAL CONSIDERATIONS.

The products are considered non-hazardous, and can be disposed at approved waste disposal sites.

14. TRANSPORT INFORMATION.

Transport only in accordance with national rules, or in accordance with ADR for roads, RID for rail, and IMDG for sea.

ADR/RID: N.A.

IMDG: N.A.

15. REGULATORY INFORMATION.

These products are not classified as dangerous according to Directive 88/379/EEC.

16. OTHER INFORMATION.

The information of this MSDS is based on the present state of our knowledge and on current EU and national laws. The user's working conditions are beyond our knowledge and control.

The products are not to be used for other purposes than those outlines under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps in order to fulfill the demand laid down in the local rules and regulations.

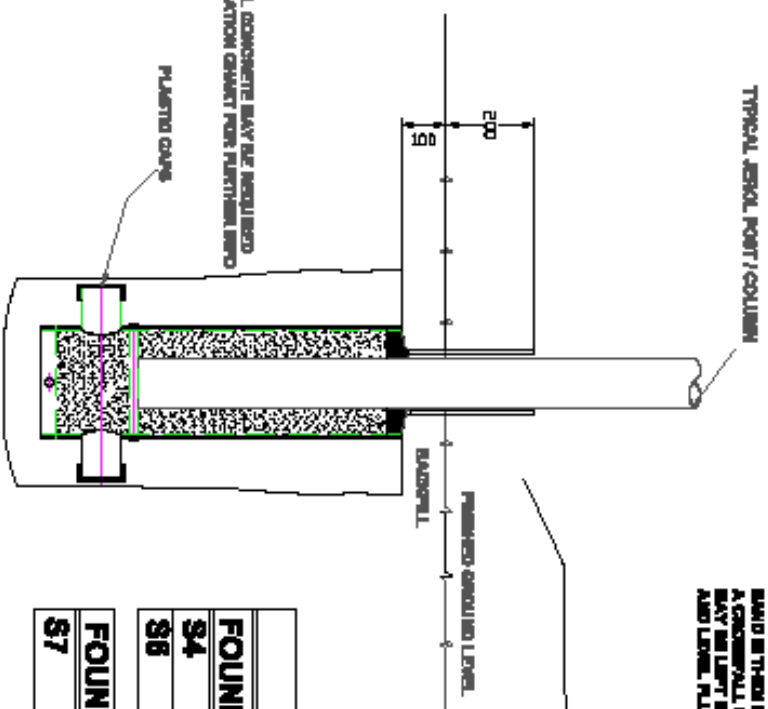
The information in this MSDS is meant as a description of the safety requirements of our products; it is not to be considered as a guarantee of the product's properties

DIMENSIONS IN MILLIMETRES-UNLESS STATED

DO NOT SCALE DRAWING - IF IN DOUBT ASK

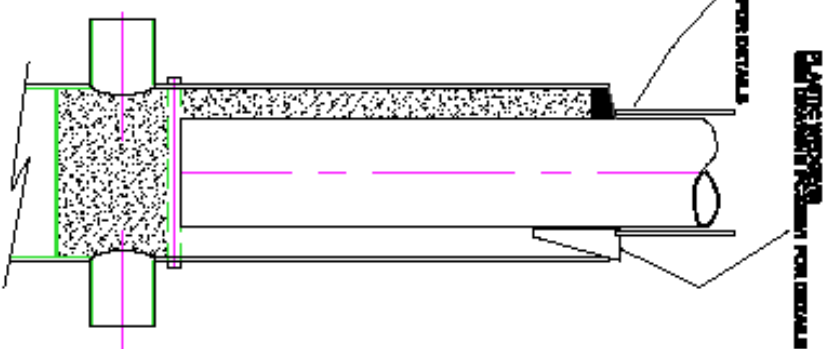
3rd ANGLE PROJECTION 

NOTE: USE PLATING THICKNESS PROVIDED TO SET FOLG IN THE VERTICAL POSITION AND FULL THE FOUNDATION WITH SAND OR GRT AS TO 10mm FROM THE TOP OF THE FOUNDATION, THE SAND IS THEN COVERED WITH REINFORCING WITH A COVERALL OF 1 IN. A. IF REQUIRED THE SANDS MAY BE LEFT IN POSITION, HOWEVER, THE REINFORCING AND LAYER, FLUSH WITH THE TOP OF THE FOUNDATION.



STEEL FOUNDATION TYPE			
FOUNDATION REF	1000mm	1500mm	
S4	28 kg	33 kg	
S8	37 kg	48 kg	
FOUNDATION REF	1200mm	1700mm	
S7	84 kg	84 kg	

NOTES
 RECOMMENDED GRAVEL MUST COMPARE TO THE REQUIREMENTS OF SPECIFICATION FOR HEAVY WORKING SANDS AND GRAVELS. IT SHALL BE DETERMINED TO CONFORM TO BS EN 12620, THE REQUIREMENT EXTENDING IN TABLE B7 AND THE CLAUSE 8.2 TO 8.6.



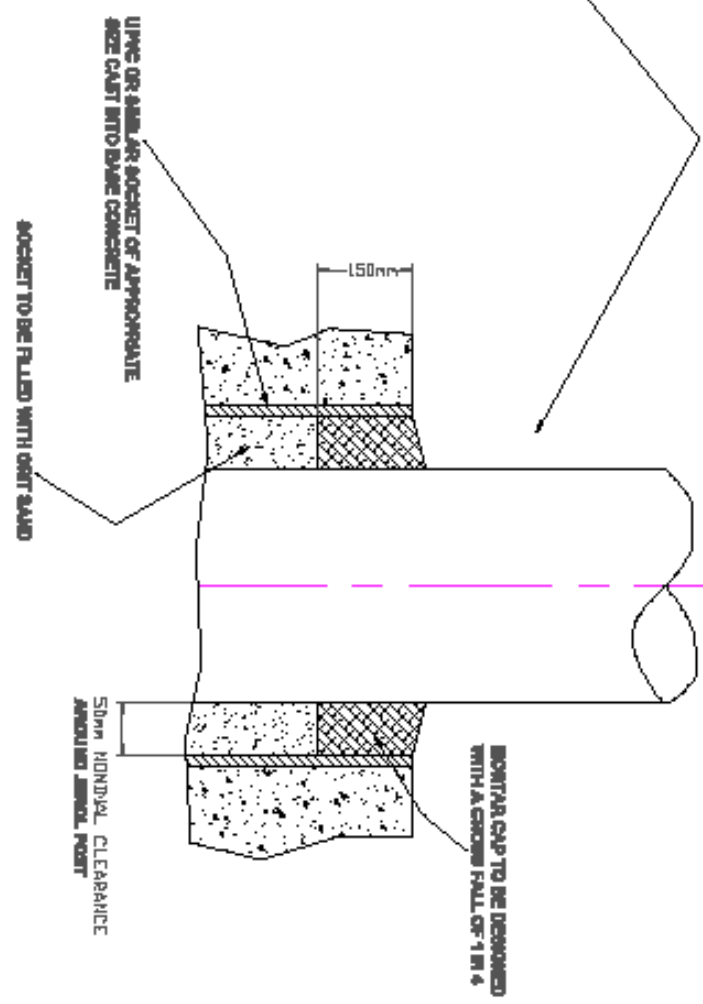
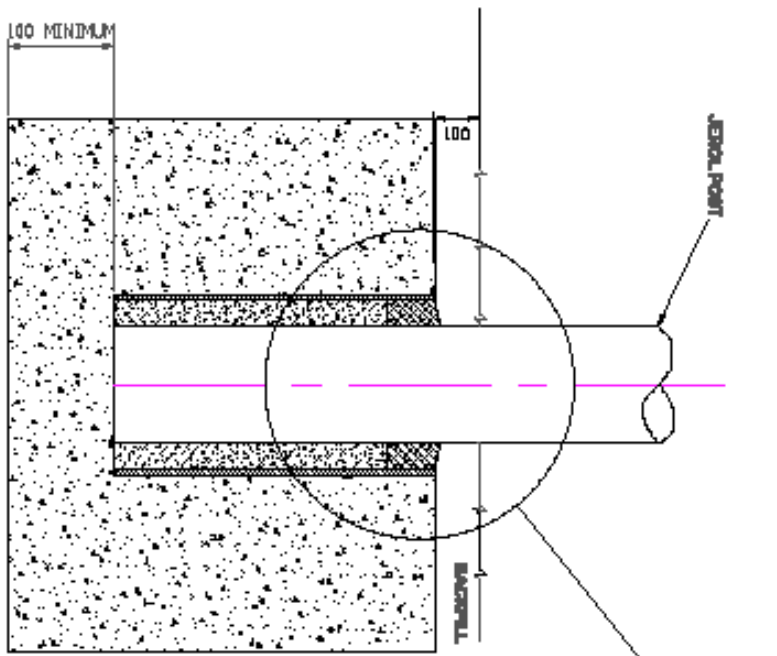
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COPYRIGHT				THIS DRAWING IS THE PROPERTY OF POST AND COLUMN LIMITED. THE DRAWING IS NOT TO BE REPRODUCED WITHOUT THE WRITTEN CONSENT OF POST AND COLUMN LIMITED.	
DISCREPANCY		RECOMMENDED INSTALLATION OF JEROL STEEL FOUNDATION FOR NON ELECTROLYTICALLY			
 post+column		PC 20001 Q. Muntman Q. Muntman STANDARD JEROL 15/01/19 NOT FOR CONSTRUCTION			

FIGURE 1

DIMENSIONS IN MILLIMETRES UNLESS STATED

DO NOT SCALE DRAWING - IF IN DOUBT ASK

3rd ANGLE PROJECTION



THE DIMENSIONS OF CONCRETE IN LOGS AND ANY NECESSARY REINFORCEMENT TO BE DETERMINED BY OTHERS

NOTES
 INSTALLATION MUST ALSO BE IN ACCORDANCE WITH:
 METHOD STATEMENT FOR INSTALLATION OF JESOL, PARTICULARLY SAFE
 SHOT POINTS INTO CAST-IN-SITU FOUNDATION AND ADEQUATE
 CURING.

FORM NUMBER / DATE	REVISIONS	DESCRIPTION OF DATE CHANGE
	1	ISSUE FOR TESTING
	2	ISSUE FOR CONSTRUCTION
	3	ISSUE FOR CONSTRUCTION

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DESCRIPTION
 RECOMMENDED PROCEDURE FOR
 INSTALLING JESOL POINTS INTO
 FOUNDATION BLOCK



PC 21187	
A. Dwyer	A. Dwyer
STANDARD JESOL	
REVISED	
DATE	
BY	
CHECKED	
DATE	

FIGURE 3

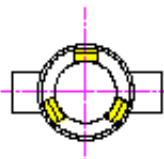
DESCRIPTIONS IN BOLD LETTERS=REQUIRED

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SEE ANGLE PROJECTION



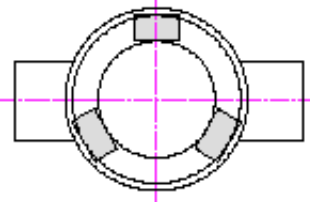
**114 INTO 34
WITH DOUBLE
YELLOW WEDGES**



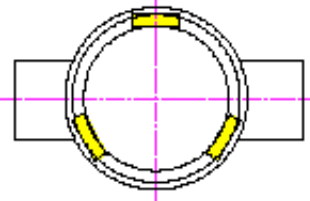
**148 INTO 64
WITH DOUBLE
YELLOW WEDGES**



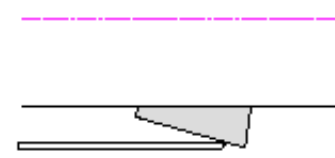
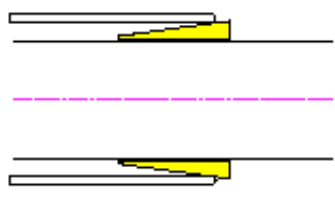
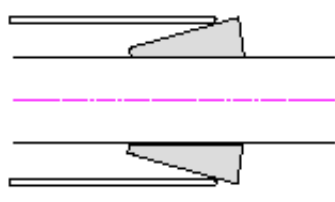
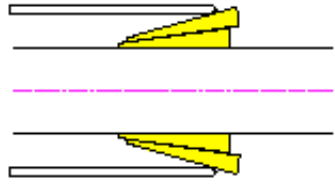
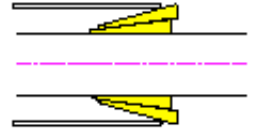
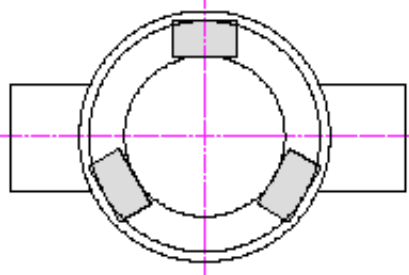
**188 INTO 86
WITH SINGLE GREY
WEDGES**



**270 INTO 86
WITH SINGLE YELLOW WEDGES**



**328 INTO 87
WITH SINGLE GREY
WEDGES**



INSTALL WEDGES AT APPROXIMATELY
120° INCREMENTS AS SHOWN

FIGURE 4

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DESCRIPTION

TYPICAL ARRANGEMENT SHOWING
HOW TEMPORARY WEDGES ARE
TO BE USED FOR JIBOCL
POLE ALIGNMENT

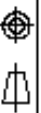


DRWD No	PC 2802/1
Q1/Approved	Q1/Approved
STANDARD	
REVISED/1/8	-#-

DIMENSIONS IN MILLIMETRES—UNLESS STATED

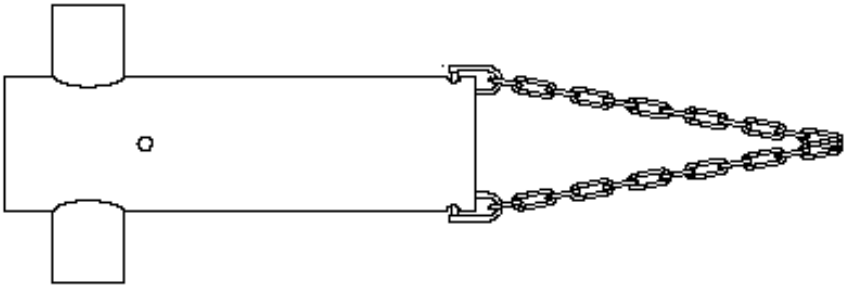
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3rd ANGLE PROJECTION



BE AWARE OF RESTRICTIONS
 THE MANUFACTURER'S TOLERANCE SPECIFICATIONS SHALL BE MAINTAINED UNLESS OTHERWISE SPECIFIED. THE LENGTH OF THE ANCHORS SHALL BE AS SPECIFIED OR AS SHOWN IN THE DRAWING. THE ANCHORS SHALL BE OF THE SAME MATERIAL AND GRADE AS THE FOUNDATION. THE ANCHORS SHALL BE OF THE SAME GRADE AND SHALL BE OF THE SAME SIZE AS THE FOUNDATION. THE ANCHORS SHALL BE OF THE SAME GRADE AND SHALL BE OF THE SAME SIZE AS THE FOUNDATION.

HEALTH AND SAFETY
 ALL PERSONS USING FOUNDATIONS MUST BE FULLY TRAINED AND MUST BE AWARE OF THE SAFETY HAZARDS ASSOCIATED WITH THE USE OF FOUNDATIONS. ALL PERSONS USING FOUNDATIONS MUST BE FULLY TRAINED AND MUST BE AWARE OF THE SAFETY HAZARDS ASSOCIATED WITH THE USE OF FOUNDATIONS. ALL PERSONS USING FOUNDATIONS MUST BE FULLY TRAINED AND MUST BE AWARE OF THE SAFETY HAZARDS ASSOCIATED WITH THE USE OF FOUNDATIONS.



STEEL FOUNDATION TYPE			
FOUNDATION REF	1600mm	1800mm	
84	26 kg	33 kg	
88	37 kg	46 kg	
FOUNDATION REF	1200mm	1700mm	
87	84 kg	84 kg	

JEROL PASSIVELY SAFE SIGN POLES	
DESCRIPTION	MASS IN Kg/m
114mm REF-JSP114	7.0
140mm REF-JSP140	9.4
168mm REF-JSP168	12.5
219mm REF-JSP219	16.8
273mm REF-JSP273	23.5

JEROL PASSIVELY SAFE LIGHTING COLUMNS	
DESCRIPTION	MASS IN Kg/m
6.0m REF JB6000	51.0
8.0m REF JB8000	66.0
10.0m REF JB10000	84.0
12.0m REF JB12000	122.0

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DESCRIPTION
 TYPICAL SIZING ARRANGEMENT FOR JEROL FOUNDATIONS



DRG No PC2981/1
 DRAWN BY Q.HENMAN
 CHECKED BY Q.HENMAN
 FOUNDATIONS
 DATE 01/02/2010
 REV 01/02/2010

FIGURE 5

DIMENSIONS IN MILLIMETRES UNLESS STATED

DO NOT SCALE DRAWING - IF IN DOUBT ASK

3rd ANGLE PROJECTION

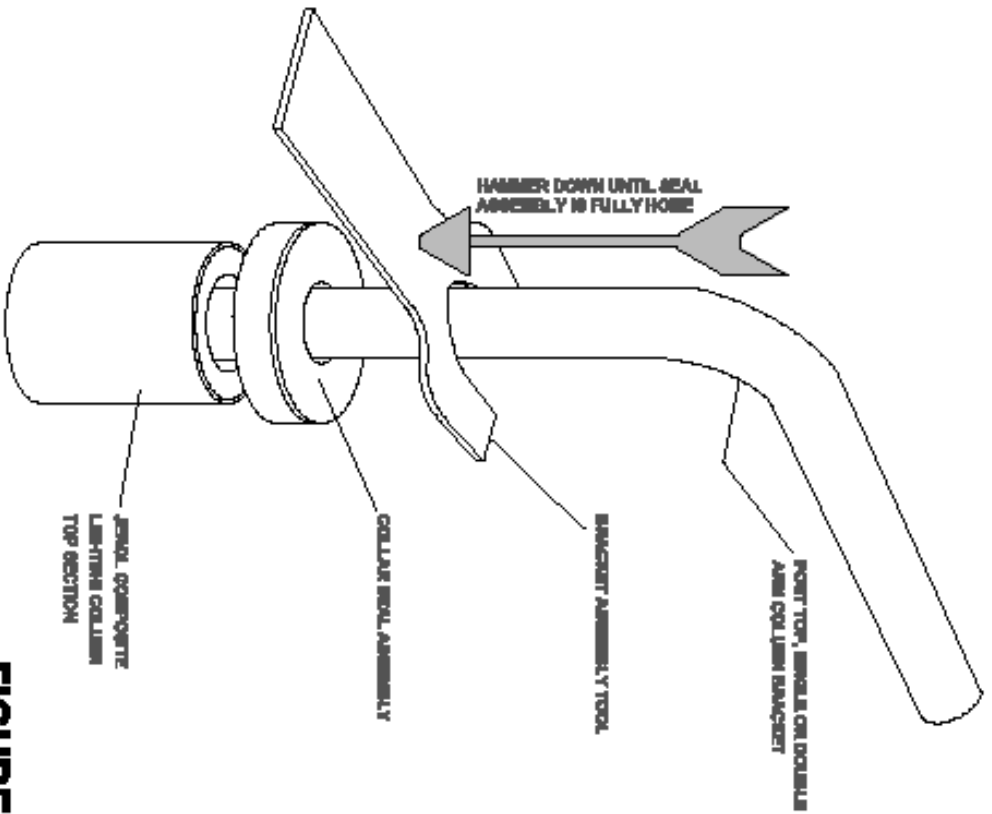
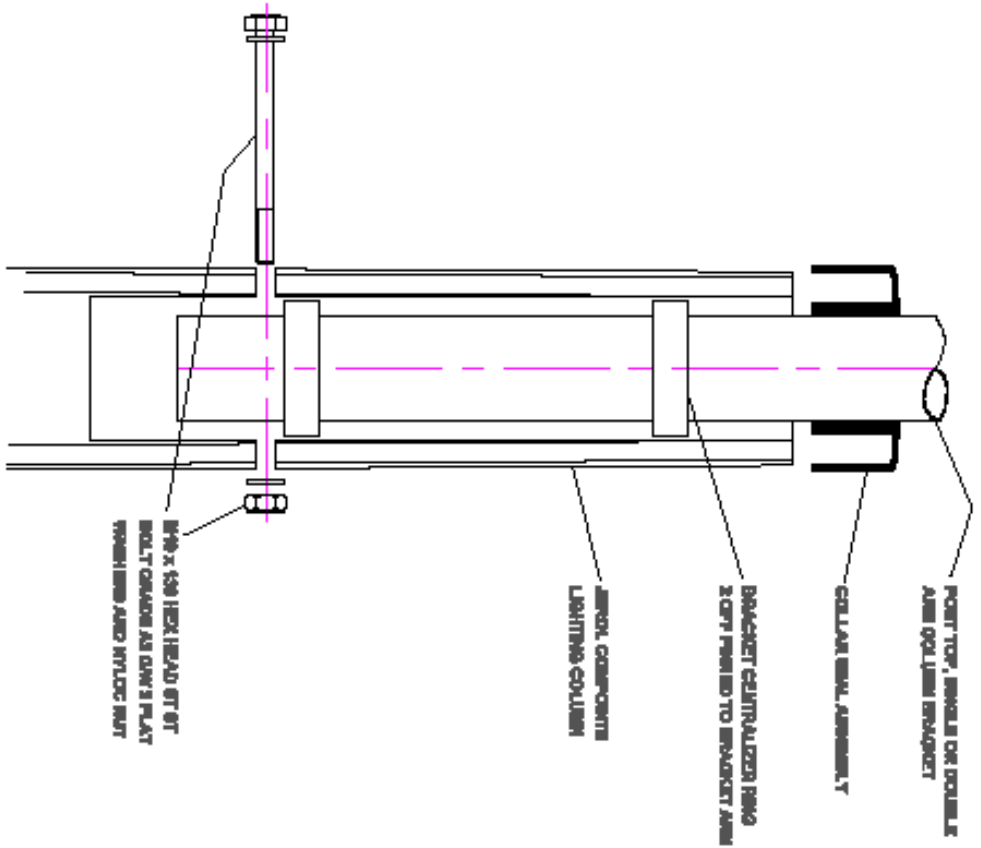



FIGURE 6

<table border="1"> <tr> <td>POST NUMBER</td> <td>POST NUMBER</td> </tr> <tr> <td>POST NUMBER</td> <td>POST NUMBER</td> </tr> <tr> <td>POST NUMBER</td> <td>POST NUMBER</td> </tr> </table>	POST NUMBER	POST NUMBER	POST NUMBER	POST NUMBER	POST NUMBER	POST NUMBER	<p>DESCRIPTION</p> <p>ASSEMBLY DRAWING FOR TYPICAL JEROL LIGHTING COLUMN BRACKET ARM</p>	<p>DRG No PG NUMBER</p> <p>A. Barber A. Barber</p> <p>STANDARD / JEROL</p> <p>15022006 -R-</p>
POST NUMBER	POST NUMBER							
POST NUMBER	POST NUMBER							
POST NUMBER	POST NUMBER							
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 <p>post+column</p>								



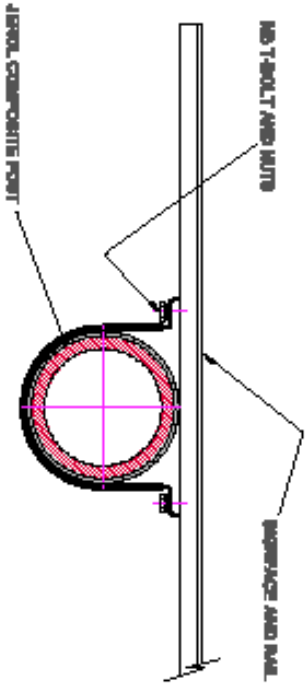
SIZES AVAILABLE

X-TRA GRIP SHON CLIPS

- 114mm REF J8C114
- 140mm REF J8C140
- 168mm REF J8C168
- 218mm REF J8C218
- 273mm REF J8C273



ISOMETRIC VIEW OF CLIP WITH RUBBER INSERT FITTED



NO T-SHOLT AND NUTS

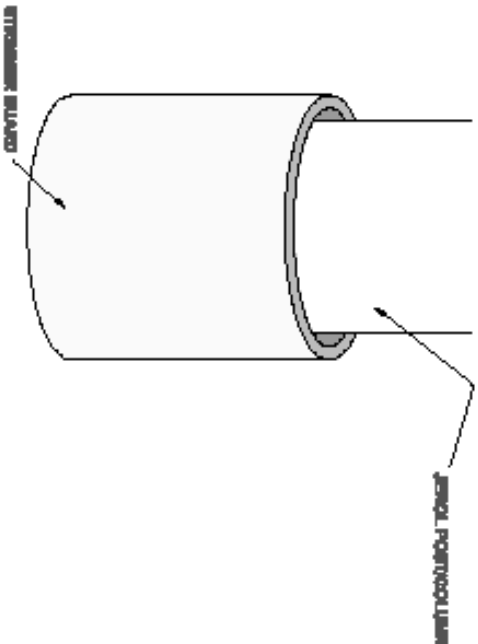
SPACINGS AND SAIL

JEROL COMPOSITE POST

SIZES AVAILABLE

STRIMMER GUARDS

- 210mm REF 86210
- 240mm REF 80240



JEROL PORTOCOLUM

STRIMMER GUARD

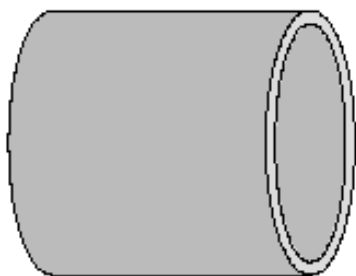


FIGURE 7

POST NUMBER	POST WIDTH	POST SPACING	POST

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DESCRIPTION
DETAIL OF X-TRA GRIP SHONCLIPS FOR JEROL COMPOSITE POSTS AND STRIMMER GUARDS



DIN3 No. PC 240/2	
Q. NUMBER	Q. NUMBER
87 STANDARD JEROL	
22/04/2016	-4-

CONNECTIONS IN WALLS/STRENGTHENED STARTED

DO NOT SCALE DRAWING - IF IN DOUBT ASK

3rd ANGLE PROJECTION

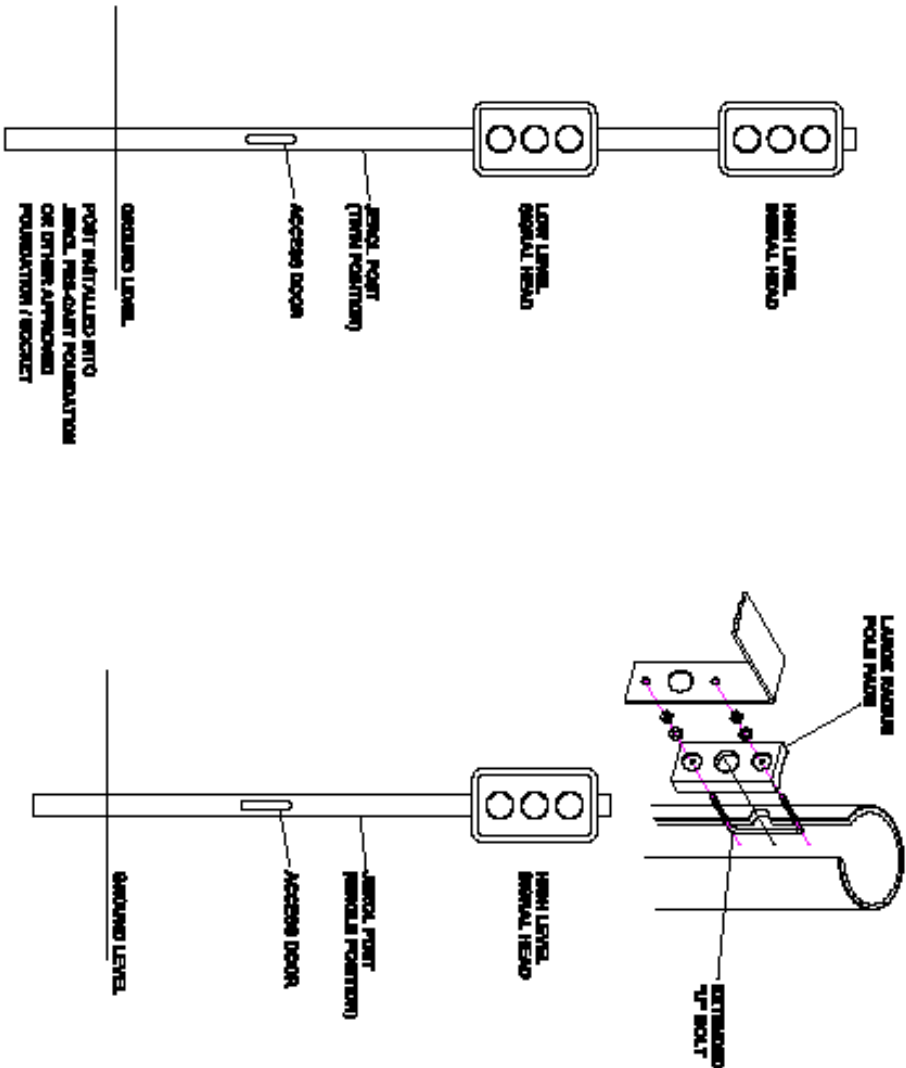


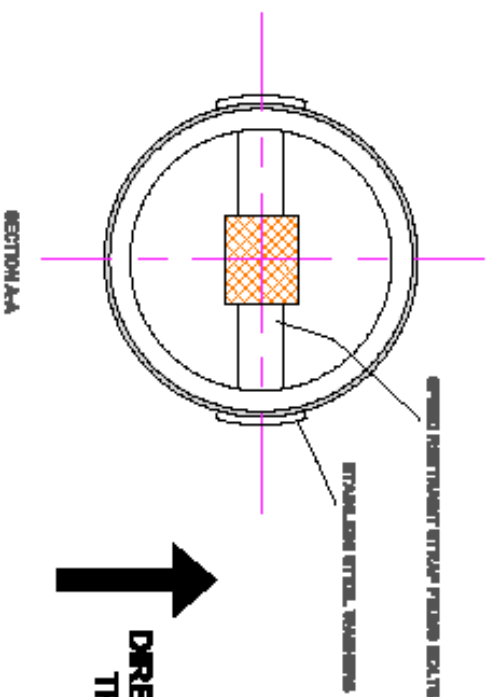
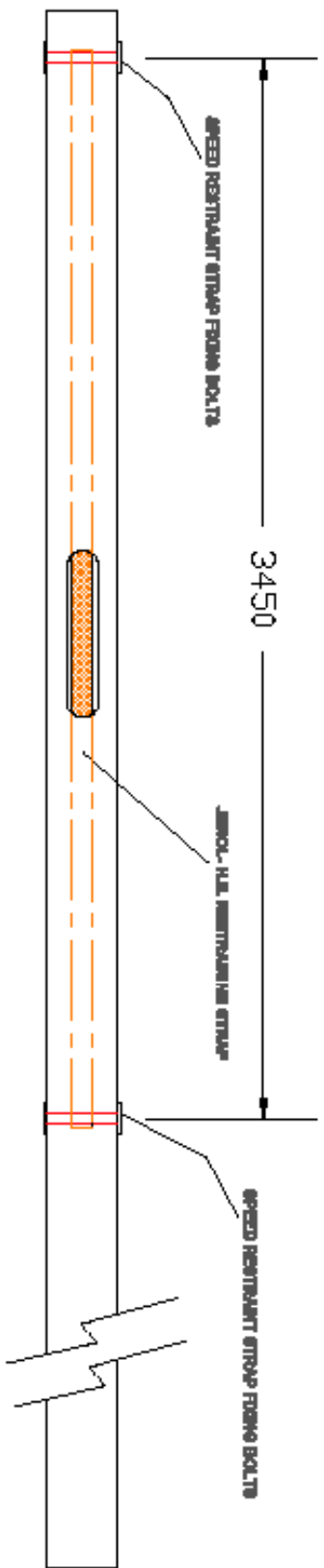
FIGURE 8A

POST MODEL #	DATE	REVISION	DESCRIPTION	REVISION #	DESCRIPTION	REVISION #	DESCRIPTION
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 <p>post+column</p>				<p>PC/27241</p> <p>Q. MONTANARI</p> <p>STANDARD SIGNAL</p> <p>1000719</p>			

DIMENSIONS IN MILLIMETRES - UNLESS STATED

DO NOT SCALE DRAWINGS - IF IN DOUBT ASK

3rd ANGLE PROJECTION



DIRECTION OF TRAFFIC

STANDARD JEROL HIGH ENERGY POST REFERENCE	
DESCRIPTION	REFERENCE
JEROL 140	JHE-140
JEROL 188	JHE-188

PROJECT NUMBER	DATE	SCALE

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DESCRIPTION
 ASSEMBLY DRAWING FOR HE JEROL POSTS



DRW No. PC-27224	DATE	SCALE

FIGURE 9