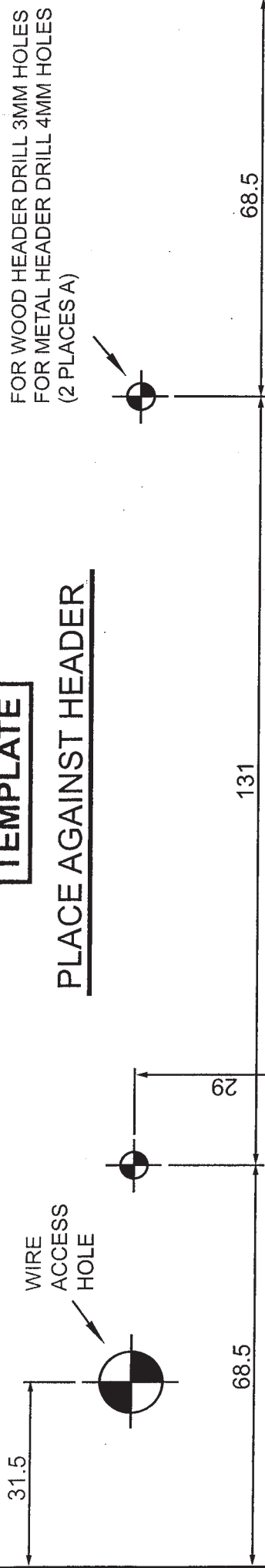


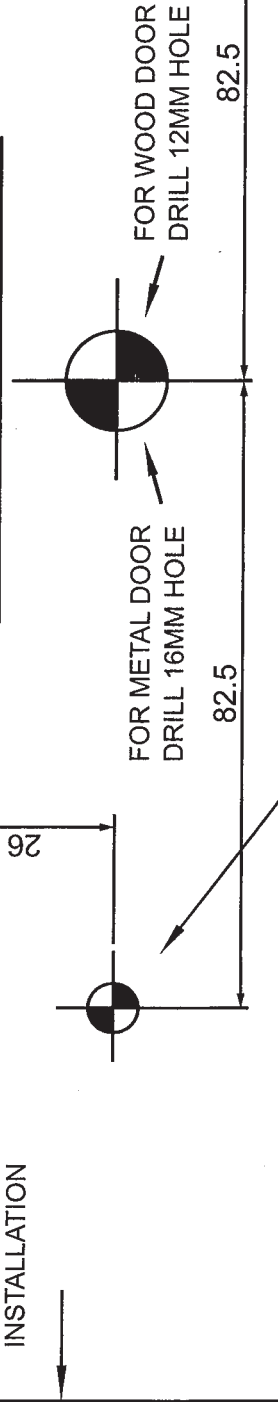
## TEMPLATE

### PLACE AGAINST HEADER



FOLD ON DOTTED LINE

### PLACE AGAINST DOOR



6.5MM DIA. ARMATURE GUIDE PIN HOLES - 19MM DEEP

## MOUNTING INSTALLATION

STEP 1- FOLD TEMPLATE ALONG DOTTED LINE.

PLACE TEMPLATE AGAINST DOOR AND HEAD FRAME. DRILL 3 HOLES FOR DOOR AND 2 HOLES FOR HEAD FRAME AS INDICATED ON THE TEMPLATE.

STEP 2- MOUNT THE ARMATURE PLATE TO THE DOOR USING 1 RUBBER WASHER SANDWICHED BETWEEN 2 STEEL WASHERS. (THE RUBBER WASHER AND 2 STEEL WASHERS ARE INSTALLED ON THE THROUGH BOLT BETWEEN THE ARMATURE PLATE AND DOOR).

NOTE:

DO NOT TIGHTEN THE ARMATURE PLATE TIGHT AGAINST THE DOOR. THE ARMATURE PLATE MUST REMAIN MOVABLE TO ALLOW SURFACE ALIGNMENT WITH THE MAGNET FACE.

STEP 3- INSTALL THE MOUNTING BRACKET WITH 2 ROUND HEAD SCREWS (THE 2 ROUND HEAD SCREWS ARE INSTALLED IN THE SLOTTED HOLES FOR ADJUSTMENT AND WILL BE REMOVED BEFORE THE MAGNET IS INSTALLED).

ADJUST THE MOUNTING BRACKET SO THAT IT AND THE ARMATURE PLATE FORM A RIGHT ANGLE. USING THE MOUNTING BRACKET AS A TEMPLATE, DRILL THE 10MM WIRE HOLE.

DRILL AND INSTALL THE REMAINING MOUNTING SCREWS, REMOVE THE 2 ROUND HEAD SCREWS AND DISCARD.

STEP 4- INSTALL MAGNET TO MOUNTING BRACKET WITH 2 CAP SCREWS SUPPLIED.

STEP 5- INSTALL ELECTRICAL WIRING PER INSTRUCTION SHEET.

STEP 6- INSERT ALUMINUM SCREW COVERS ON CAP SCREW HOLES.

## Mounting manual for surface electromagnets

1. Before mounting an electromagnet, please make sure that all the security requirements are being respected.
2. The purpose of the electromagnets being the securing of an access, they have to be mounted in such a way that they resist shocks, both from the door closing as well as from attempted break-ins.
3. An electromagnet should always be mounted on the secured side of the access. For this purpose, we have numerous mounting devices: AMLBx, AMZBx, UBGxy...

*The whole system is only as strong as the weakest link.*

### **General technical specifications :**

Our electromagnets have the following specifications:

### **Control LED for the position and the securing of the door.**

The LED indicator has three positions:

- White: The electromagnet is not supplied with current.
- Green: The door is closed and correctly locked.
- Red : The door is not correctly locked.

### **Monitoring relay : (not on entry level product)**

Depending on the different versions, a reed contact or a relay permits you to remotely verify the status of the door. The contacts, NO/NC can be used both for control panels and for access control systems.

### **Choice of voltage supply : (not on NF series)**

The voltage of our electromagnets can be 12 VDC or 24 VDC (48 VDC optional). The selection is made through jumpers on the electronic circuit. Remember : all the electromagnets are supplied with a 24 VDC factory setting. Do not forget to change this configuration if you are using 12 Volts.

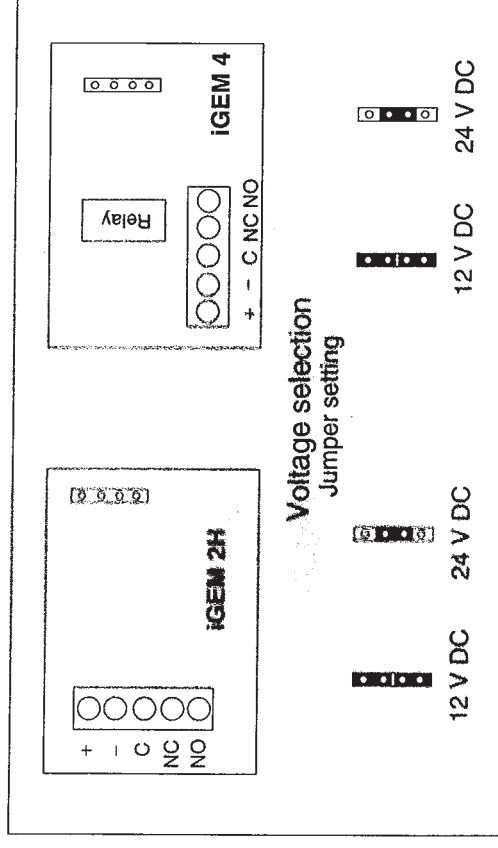
### **Installation kit:**

Each electromagnet is delivered with a complete set of accessories allowing its correct mounting on a standard support. In the case of a wooden door frame, it is recommended to use screws of an appropriate length.

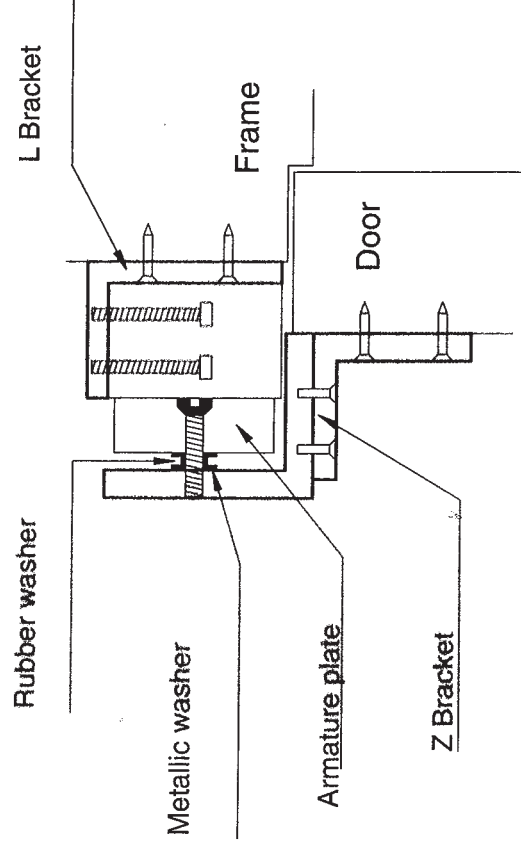
### **Environment :**

The reputation of our electromagnets was achieved amongst other things through a very high standard of anti-corrosion treatment. They can therefore be mounted outside, as long as the necessary precautions have been taken regarding the power supply. For harsh environments, we developed the iGEM 5000 series.

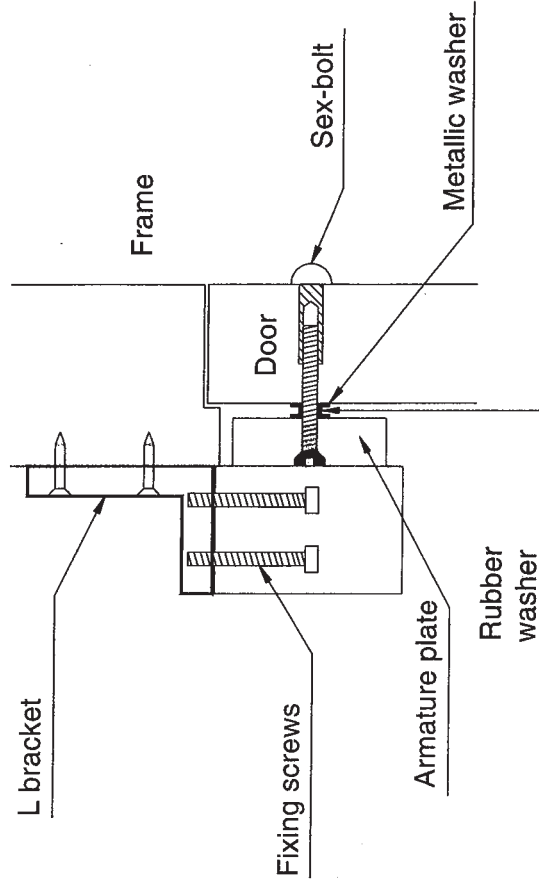
## Choice of voltage and connector



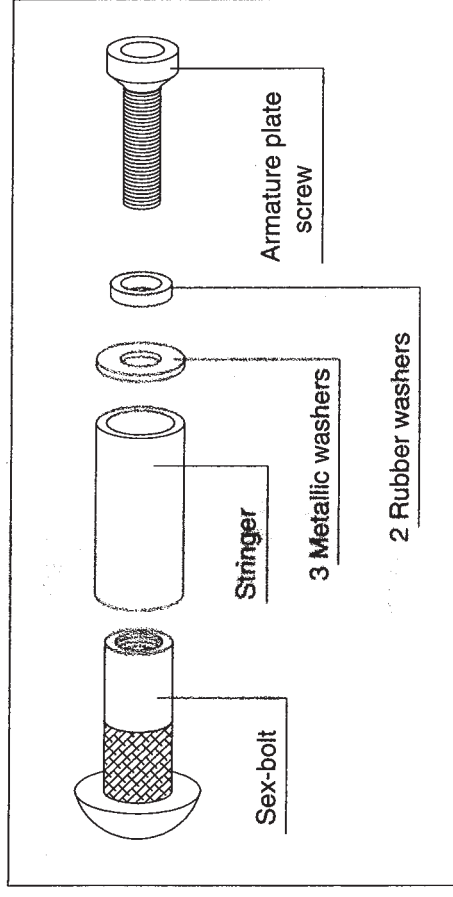
## Mounting of a magnet on top of the door with a Z bracket accessory



## Typical installation

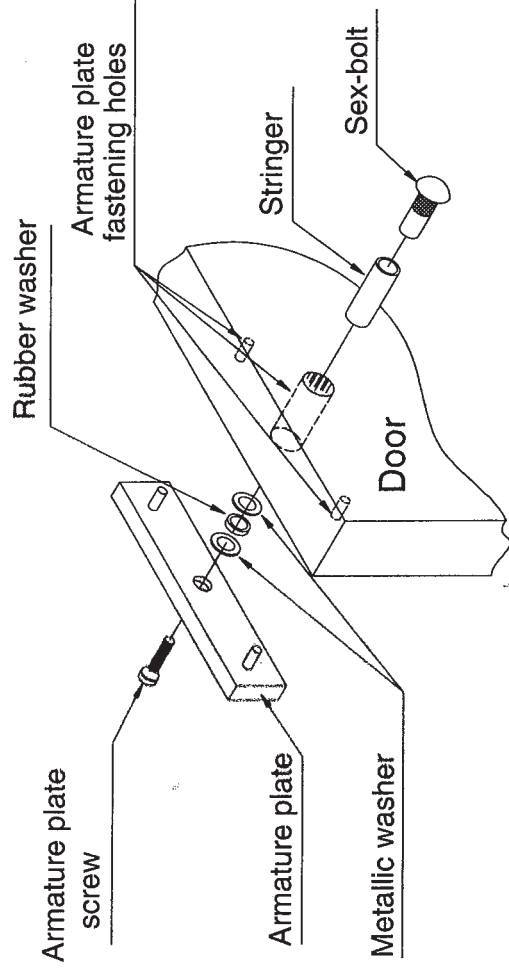
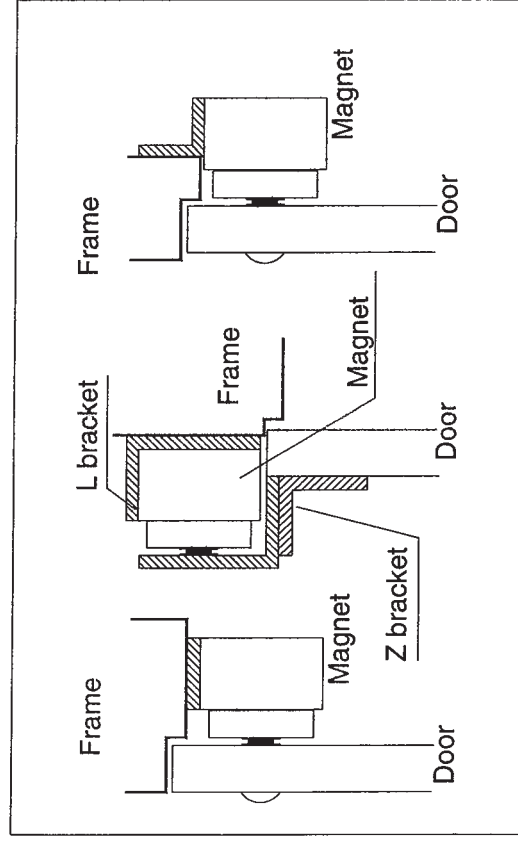


## Mounting of the armature plate



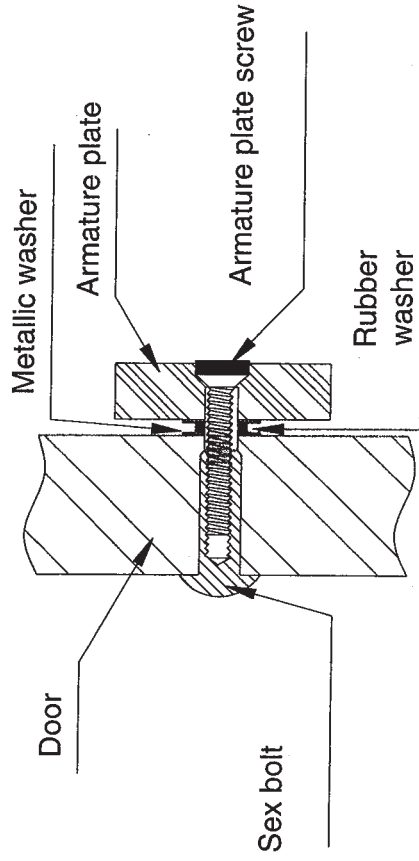
The armature plate should be mounted using the accessories delivered and described above. The use of accessories other than the original ones can lead to a significant deterioration of the magnet's performance.

## Mounting of accessories

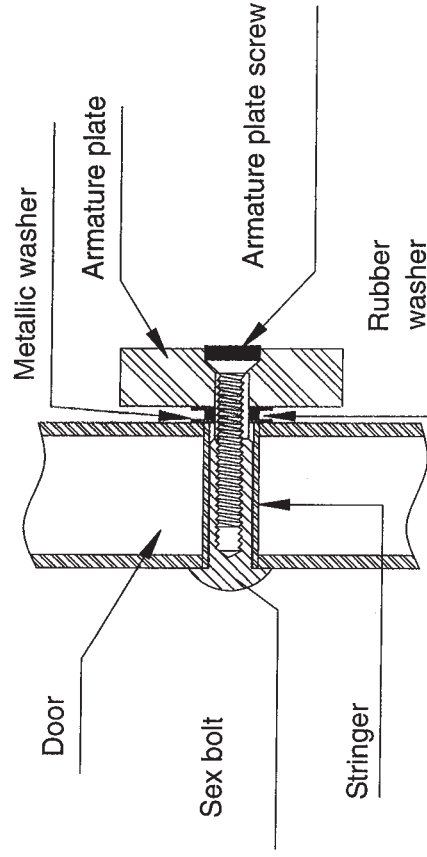


The armature plate should be mounted as shown above. Do not over-tighten the central screw. The plate must remain flexible.

## Mounting of the armature plate on a wooden door

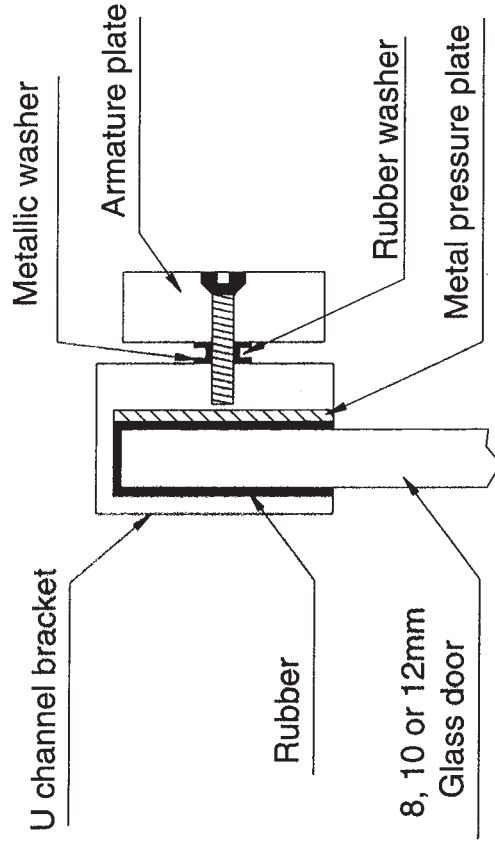


## Mounting of the armature plate on an aluminum or PVC door



The armature plate has to be mounted as shown above . Do not over-tighten the central screw. Allow the plate to remain flexible.

## Installation on glass door



The above sketch shows you the basic fixing of the U bracket accessories. An alternative is to glue them with an industrial glue type Locite 324, 325 or 326. In that case it is of prime necessity to follow the instructions of the manufacturer regarding the implementation procedure.

### **Important note**

The electromagnet is probably the most reliable securing device thanks to the absence of wearing parts. For the device to function correctly, it is nevertheless important to observe the following rules:

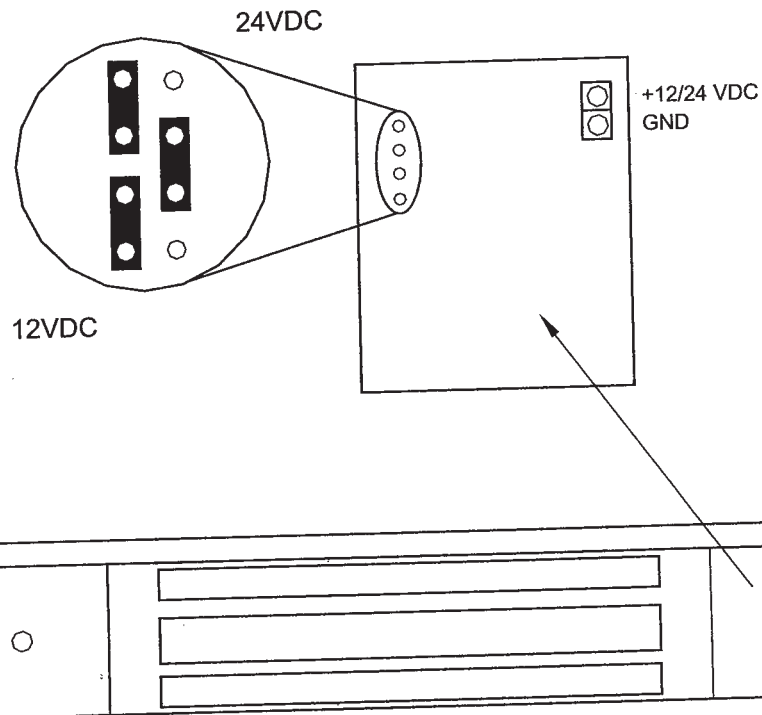
1. The armature plate has to be fixed to remain flexible. Use the rubber washers and do not over-tighten the screw .
2. The minimum voltage has to be 12 VDC (or 24 VDC) on the magnet connector. (Do not rely on the voltage at the power supply).
3. The supply should be able to provide sufficient voltage.
4. The armature plate and the electromagnet should not be drilled or modified. Do not clean them with an abrasive or solvent.
5. Do not hesitate to go on our website for additional information:

[www.ige-age.com](http://www.ige-age.com)

**iGEM 1H**



**Configuration**



Power Input: 500mA at 12 VDC; 250mA at 24 VDC

**DEFAULT VOLTAGE: 24 VDC**

WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT PREVIOUS NOTICE

29/9/2002

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