

ROTARY FLUX/GAS INJECTOR (RFI / RGI)
Questionnaire (Confidentiality Respected)

COMPANY NAME: _____
 ADDRESS: _____
 CONTACT NAME: _____
 PHONE: _____ FAX N°: _____
 E-MAIL ADDRESS: _____
 OUR REF: _____ YOUR REF: _____
 DATE: _____

Type of Unit: RFI RGI

A – METALLURGICAL EVALUATION:

OBJECTIVES:

- 1 - Among the following benefits, indicate your order of priority:
- a) Improve metal cleanliness _____
 - b) Reduce alkali concentration _____
 - c) Reduce quantity of dross _____
 - d) Reduce chlorine (or byproduct) emissions in chimney _____
 - e) Reduce chlorine emissions in cast house _____
 - f) Eliminate chlorine emissions (valid for RFI only) _____
 - g) Increase furnace productivity _____
 - h) Other _____ (please specify): _____

B – PROCESS:

- 2 - Current furnace fluxing method:
- None
 - Use of solid flux

Static gas lances (specify how many):

Chlorine usage: *Flow rate* *Duration*

Nitrogen usage: *Flow rate* *Duration*

3 - Type of alloys and % of production, e.g.:

Note: For each alloy series, please specify the alloy (AA Code).

- | | | | | | | | |
|-------------------------------|---------|---------|-------|-------------------------------|---------|---------|-------|
| <input type="checkbox"/> 1XXX | % | Code AA | | <input type="checkbox"/> 2XXX | % | Code AA | |
| <input type="checkbox"/> 3XXX | % | Code AA | | <input type="checkbox"/> 4XXX | % | Code AA | |
| <input type="checkbox"/> 5XXX | % | Code AA | | <input type="checkbox"/> 6XXX | % | Code AA | |
| <input type="checkbox"/> 7XXX | % | Code AA | | <input type="checkbox"/> 8XXX | % | Code AA | |
| <input type="checkbox"/> AXXX | % | Code AA | | | | | |

4 - Metal T° obtained or required after treatment:

5 - Incoming metal:

ALKALI CONCENTRATION (ppm or %)			
	TYPICAL	MAX	LEVEL REQUIRED AFTER TREATMENT
Na			
Ca			
Li			

INCLUSION CONCENTRATION			
TYPICAL	MIN	MAX	TECHNOLOGY USED
			LIMCA <input type="checkbox"/> (K/kg Al)
			PoDFA <input type="checkbox"/> (mm ² /kg)

6 - If you have an RGI, ratio of chlorine/nitrogen:

7 - End product (slabs, billets, etc.):

C – EQUIPMENT:

8 - Furnace type: TILTING STATIONARY

9 - Furnace capacity (in tonnes):

- 10 - Metal depth: TYPICAL: _____ MAX: _____
- 11 - Please fill in the drawings enclosed (Figures 1 and 2) to ensure proper designing and technical feasibility.
- 12 - Please provide a drawing of the cast house layout: _____
- 13 - Where and how do you intend to install the RGI/RFI unit?
- by the existing furnace door: *Width* _____ *Height* _____
- another place to be determined: *Width* _____ *Height* _____
- NOTE: It is recommended to minimise unnecessary exposure to excessive heat.*
- 14 - Estimated T° within vicinity of 1 m from furnace while the door is open: _____
- 15 - Please specify availability of:
- a) Nitrogen (N₂): _____ litres/min Pressure: _____ psig or borg
- b) Chlorine (Cl₂): _____ litres/min Pressure _____ psig or borg

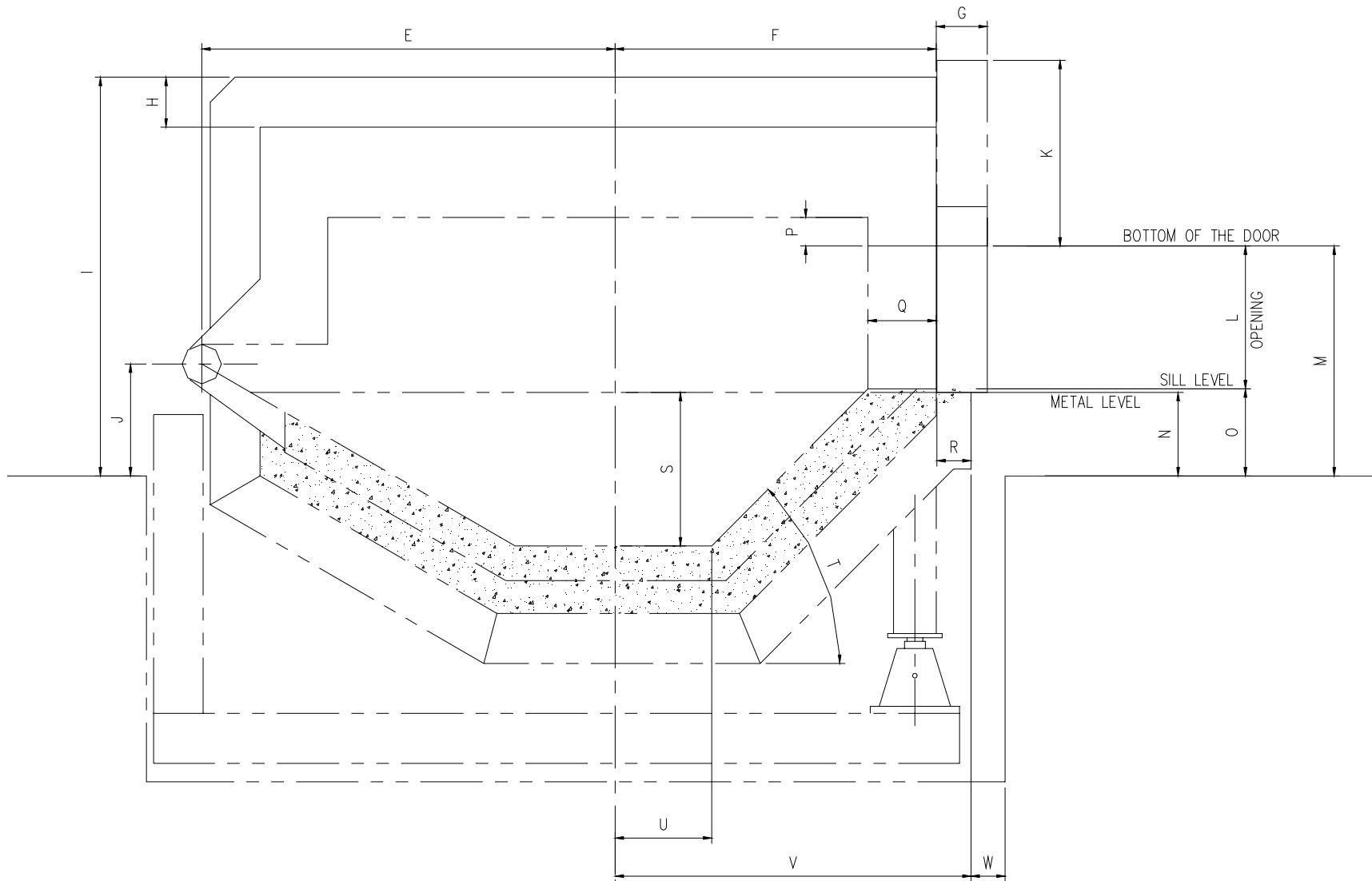


Figure 1

A :
 B :
 C :
 D :
 E :
 F :
 G :
 H :
 I :
 J :
 K :
 L :
 M :
 N :
 O :
 P :
 Q :
 R :
 S :
 T :
 U :
 V :
 W :

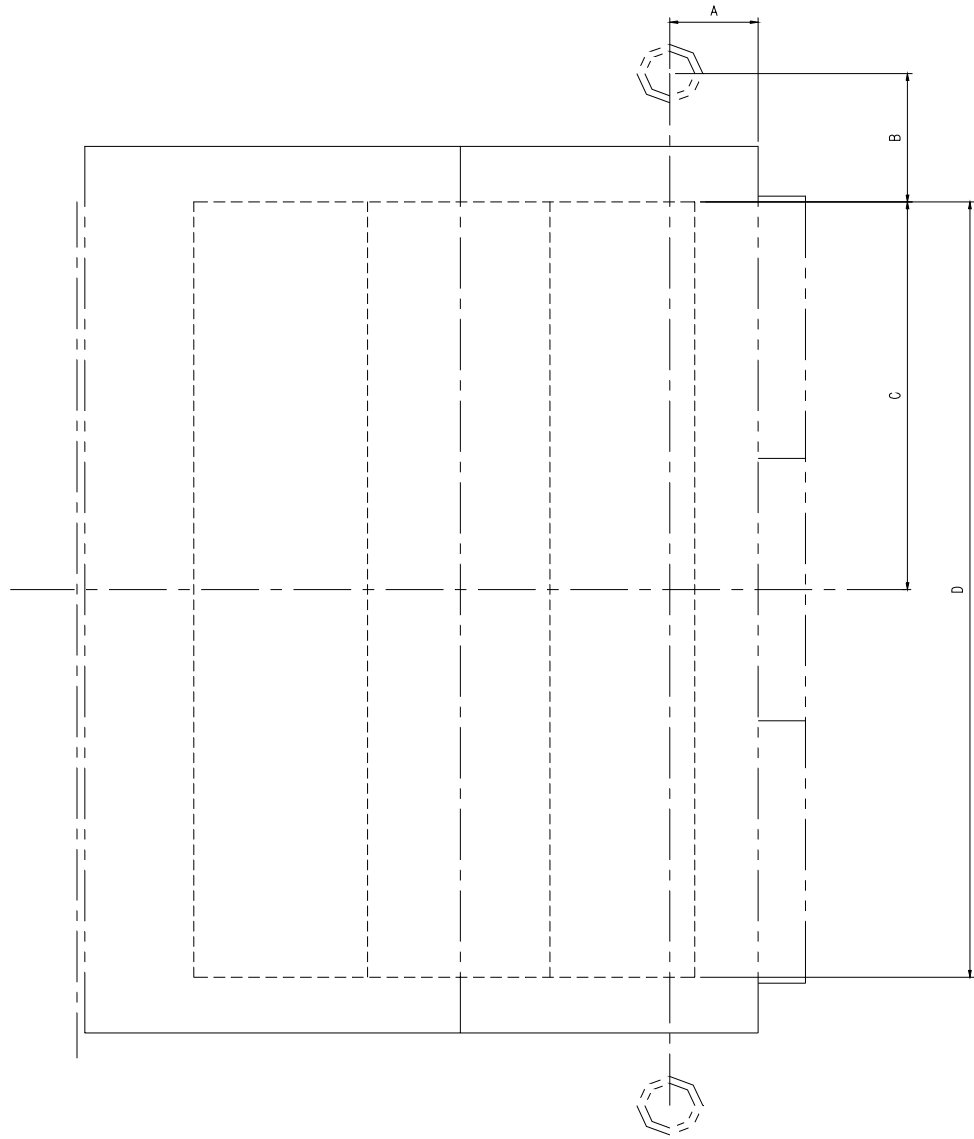


Figure 2