

# **RAILSAFE**

Education, Qualification and Certification

[www.ewf.be/railsafe](http://www.ewf.be/railsafe)

## **DATABASE OF QUALIFIED AND CERTIFIED RAILWAY TRACK WELDERS**

Interim Guideline of the European Welding Federation  
Prepared by RAILS SAFE



RAILSAFE is a LEONARDO DA VINCI  
Community Vocational Training Action Programme Project

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## Preface

One of the outcomes of the RAILS SAFE project is the development of a Welder Database.

The Database was designed with the aim to gather all the information regarding the welder's qualification and certification. At the same time it had to be used as a tool to check the records regarding Diploma, Certificates and Permits to weld. It will also allow a more easy way to issue the Certificates and Permits to weld, without the need of displacement of documents between the several engaged organisations.

This Database will help at a National level to have an easier way to manage the welder's data.

The experts who established the industry requirements in the RAILS SAFE workshops saw no need for a welder's "passport" on paper. As the welder's database is internet based, the "passport" is in effect a virtual passport. The welder has the possibility to view and show his data, using a specific user name and password. The welder can show his/her qualification/certificates and permits to weld to any company or person who inquires about his/her expertise. It is only needed to have internet access; the welder's data that is shown is always up to date. The welder has no permission to change his/her data.

## European Welding Federation

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## Database of Qualified and Certified Railway Track Welders

### 1. General Database Information

- ▶ Only data regarding aluminothermic welders;
- ▶ Only National information;
- ▶ Database stores information regarding:
  - Diplomas;
  - Welder Certificates (Approvals) records and supporting documentation;
  - Welder Certificate Renewals and supporting documentation;
  - Welder Permits to weld and supporting documentation;
- ▶ Data base developed using Access;
- ▶ Internet based database;
- ▶ Able to generate automatic e-mails to warn a company when a certain Certificate or Permit to weld is going to expiry;
- ▶ Permits to weld can be only updated or issued by the National Railway Authority – NRA;
- ▶ Diplomas and Certificates can be only active after the RAILS SAFE Authorised National Body – RANB validation (Local User as an Approved Training Body (ATB) or an Authorised Examiner may insert data);
- ▶ It is possible to install this application on any server; the server must have specific technical characteristics to be able to send automatic e-mails;
- ▶ At each level any user has access to the user manual.

### 2. Application Database Utilities; short summary

- ▶ Validate and control the type of users; each user level will have specific authorisations that will allow him to perform some tasks; never all of them, except for the administrator;
- ▶ Validate, attach, organise in an automatic way all the elements of the database, including the Diplomas, Certificates and Permits to weld;
- ▶ An easy way to create records in terms of Welders, Companies, National Railway Authority, and so on, not only from the point of view for the user, but also in terms of the database;
- ▶ Possibility to download files (.CSV) when performing queries or other type of searches;
- ▶ Possibility to upload pdf files with the Diplomas, Certificates, Permits to weld records and supporting documents used to issue each type of document;
- ▶ The possibility to install the application on other servers;
- ▶ The possibility to translate all the screens to another language, (translation will be performed by the Software Administrator who has the permission to do so); the database works always in one language;
- ▶ It will be also possible to generate automatic e-mails; this tool only works if the server has the necessary drives and permissions.

### **3. The Database Users Structure**

#### **3.1 Software Administrator (one)**

Permission to:

- Update the Access application in terms of layout, new cells, text translation;
- To create and update users;
- Database management activities.

This user should be at the level of RAILS SAFE Authorised National Body – RANB.

The Administrator will have the possibility to insert small changes on the Diplomas, Certificates and Permits to weld after they have been inserted in the database. This permission is important, because after uploading the data regarding Diplomas, Certificates and Permits to weld, these records can only be inactivated or deleted, if there are small typing mistakes; the changes can only be performed by the Software Administrator, not by the RANB or NRA .

#### **3.2 National Railway Authority – NRA (one or more than one)**

Permission to:

- Insert/issue/validate/inactivate and delete Permits to weld and Permits to weld Renewals;
- Sort information.

#### **3.3 RAILS SAFE Authorised National Body – RANB (one)**

Permission to:

- Issue/validate/inactivate and delete Diplomas, Certificates and Certificates Renewals;
- To update information regarding Local Users (ATBs, Authorised Examiners, Companies, Welders);
- Sort information.

#### **3.4 Local Users**

##### **3.4.1 Local User like Approved Training Bodies (ATBs) (more than one)**

Permission to:

- Insert welders (assigned for a certain Company);
- Insert information regarding Diplomas, Certificates and Certificates Renewals (needs RANB validation).

##### **3.4.2 Local User like Authorised Examiners – AEs (more than one):**

Permission to:

- Insert information regarding Certificates and Certificates Renewals (needs RANB validation).

##### **3.4.3 Local User like Companies (more than one):**

Permission to:

- See the Company welder's data, sort information, warning expiration dates either for Certificates or Permits.

##### **3.4.4 Local User like Welders (more than one):**

Permission to:

- See his/her data.

#### 4. Type of information to be inserted in the data base

- i) Welder name (text cell 50 characters)
- ii) Date of Birth (day/month/year)
- iii) Company (company identification, text cell 50 characters)
- iv) Welder Diplomas (information)
  - Diploma – Type of Diploma (level)
  - Diploma ID code
  - Date of issuing
  - Examination Date
  - ID of ATB
  - ID of Authorised Examiner
  - Guideline ID
  - Practical Test Specification ID
  - ID of ANB
  - Country
  - Welding Process Variant(s)
  - Welding Process Supplier
  - Cutting Methods
  - Category of Alignment (vertical and horizontal)
  - Line Category
  - Icon to see the Diploma record (pdf format) and supporting documents used to issue the Diploma (pdf format).
- v) Welder Certificates (Approvals):
  - Cert #1 (cell with 25 characters) – icons to see the Certificate record (pdf format) and supporting documents used to issue the certificate (pdf format)
  - Cert #2 (cell with 25 characters) – icons to see the Certificate record (pdf format) and supporting documents used to issue the certificate (pdf format)
  - Cert #N (cell with 25 characters) – icons to see the Certificate record (pdf format) and supporting documents used to issue the certificate (pdf format).
- vi) For each Welder Certificate the related information
  - Cert #1 (cell with 25 characters) – icons to see the Certificate record (pdf format) and supporting documents used to issue the certificate (pdf format)
  - Welder Certification code/standard/specification (cell with 50 characters)
  - Date of issuing (day/month/year)
  - Examination Date
  - Date of end of Validity (day/month/year)
  - Certificate ID
  - Range of approval (text cell with 600 characters)
  - Specification ID
  - Company Identification
  - Welding Process Supplier
  - Welding Process Variant
  - ID of ATB

- ID of Authorised Examiner
- ID of ANB
- Country
- Cutting Methods
- Category of Alignment (vertical and horizontal)
- Line Category
- Documents that supported the welder approval
- Prolongation of the welder approval
  - 1st prolongation
    - Date of prolongation issuing (day/month/year)
    - Date of end of the validity (day/month/year)
- Icons to see the pdf of the certificate prolongation validation and supporting documentation
- 2nd, 3rd, 4th and Nth prolongation
  - Date of prolongation issuing (day/month/year)
  - Date of end of the validity (day/month/year)
  - Icon to see the pdf of the certificate prolongation validation
- Icons to see the pdf of the certificate prolongation validation and supporting documentation

## 5. The Database Utilities

### 5.1 At the level Local as ATBs and Authorised Examiners, it will be possible to:

- i) Insert information
  - New welders, RANBs always validate the information before it becomes active;
  - New welder Diploma for an existing welder, RANBs always validate the information before it becomes active;
  - New welder Certificate for an existing welder, RANBs always validate the information before it becomes active;
  - New welder approval prolongation for an existing welder, RANBs always validate the information before it becomes active;
  - Permits only managed by the NRA.
- ii) Sort information
  - By welder (assigned to the ATB and/or AE);
  - By Type of welding process variant (assigned to the ATB and/or AE);
  - By Code/standard/specification (assigned to the ATB and/or AE);
  - By date of end of welding approval validity (assigned to the ATB and/or AE).
- iii) Warnings:
  - Expiration date for welder approval (assigned to the ATB and/or AE).

### 5.2 At the level of RAILS SAFE Authorised National Body - RANB, it will be possible to:

- i) Insert/update information
  - New Companies;
  - New Welders Diplomas/Certificates and/or validate data inserted by Locals;

- Up date information regarding a certain Company and or Welders.
- ii) Sort information
  - By Company or By welder:
    - By Type of welding process variant;
    - By Code/standard/specification.
  - By National level:
    - By Type of welding process variant;
    - By Code/standard/specification.

**5.3 At the level of National Railway Authority - NRA, it will be possible to:**

- i) Insert/update information
  - New Permits to weld or Renewal of Permits to weld (to be assigned to a certain welder);
- ii) Sort information
  - By Company or By Welder:
    - By Type of welding process variant;
    - By Code/standard/specification.
  - By National level:
    - By Type of welding process variant;
    - By Code/standard/specification.

**5.4 At the level of Local User as Company or Welder, it will be possible to:**

- i) Sort information
  - By Company (only Company welders) or By Welder (only his/her data):
    - By Type of welding process variant;
    - By Code/standard/specification.

## **6. Welders Database Screens**

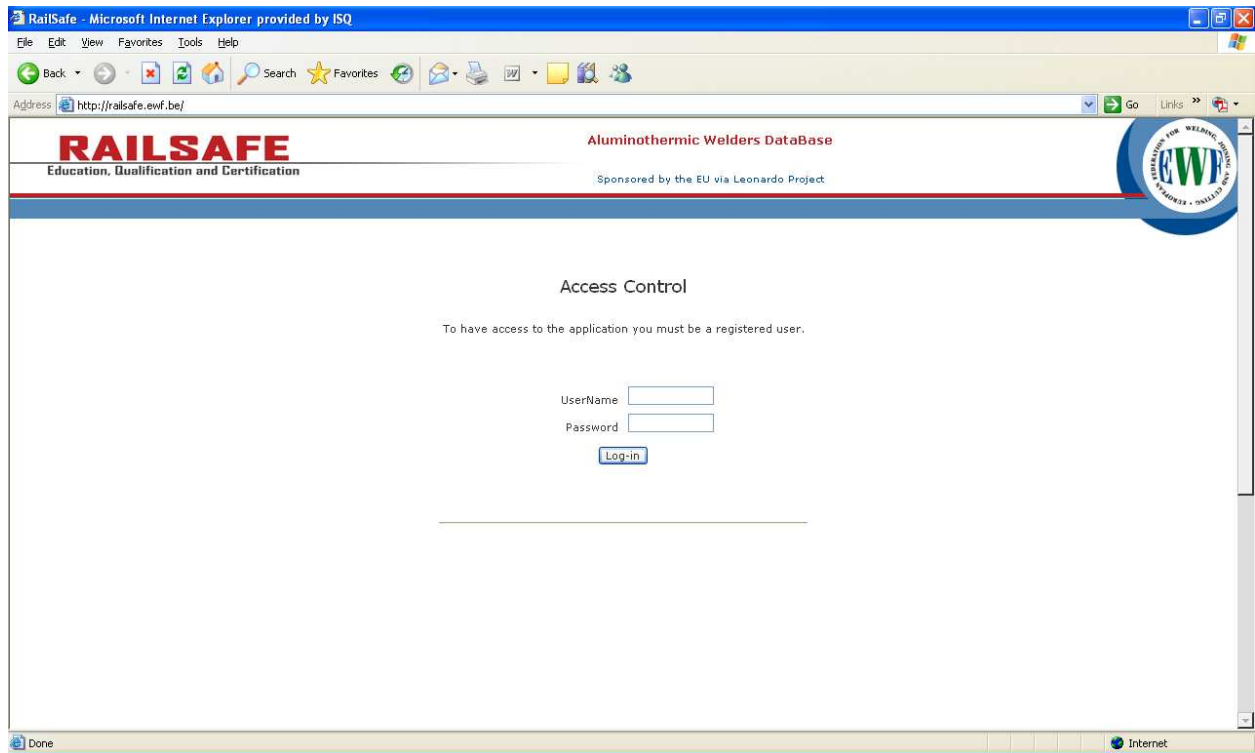
During the project period the welder's database is running on the EWF sever.

In future each country will run its own database.

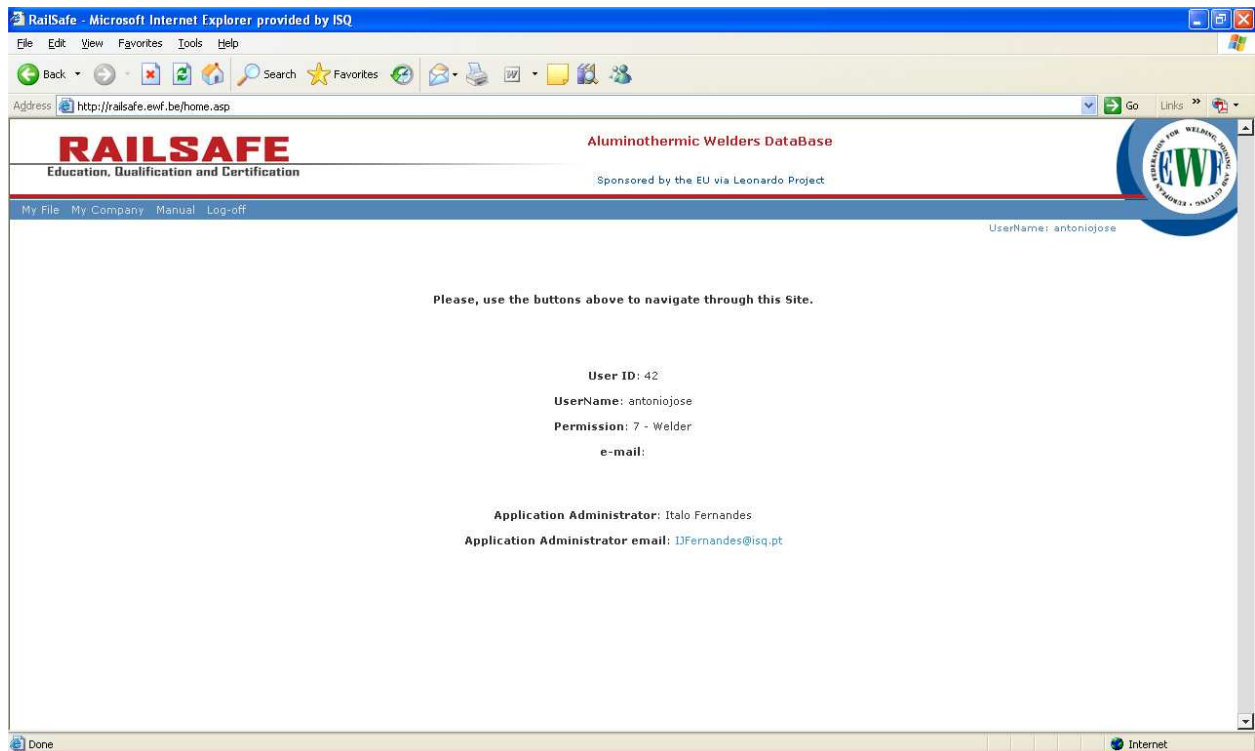
Below some screens regarding Welder users, Company users and RANB – RAILS SAFE Authorised National Body users are shown.

### **6.1 Screens regarding Welders**

Below some database screens regarding the welders will be presented.



Screen 1: Log-in Screen



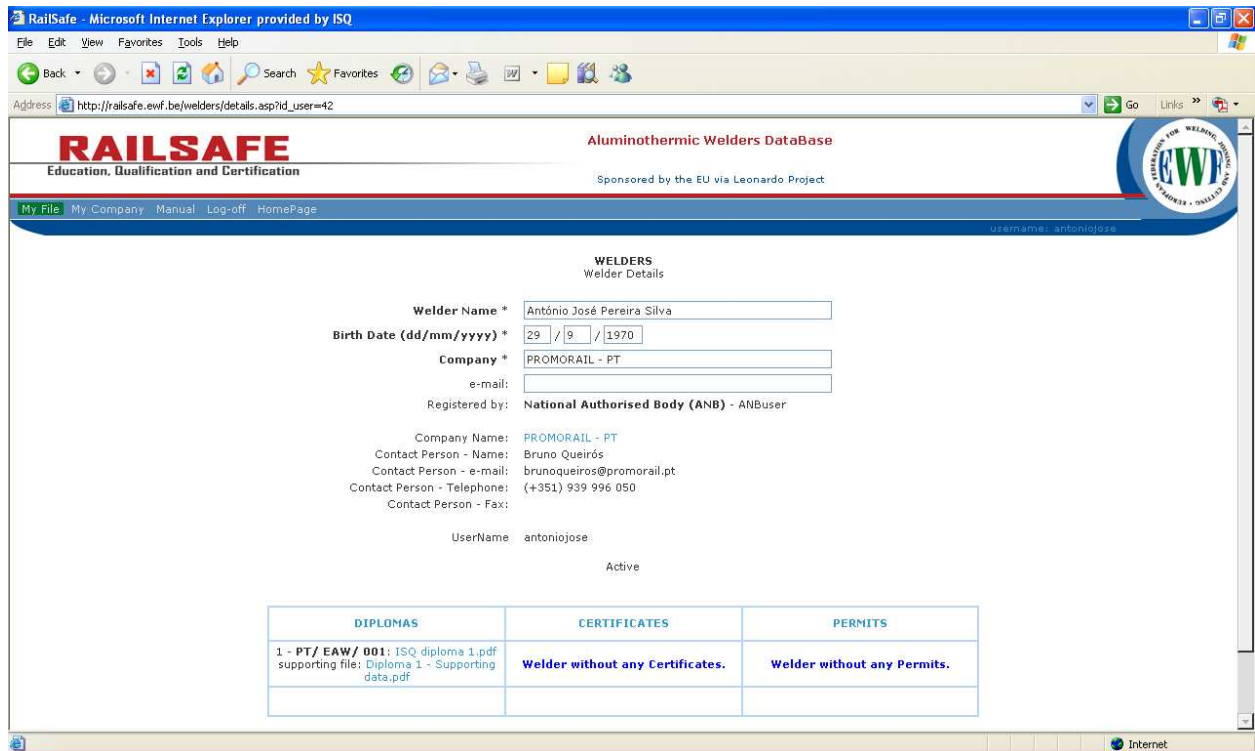
Screen 2: Welder first screen after log-in page; on the upper left corner, the navigation buttons “My File”, “My Company”, “Manual” and “Log-off” can be seen

When the welder clicks on “My File” his/her data regarding diplomas, certificates’ and permits to weld can be seen.

When the welder clicks on “My Company” his/her Company data can be seen.

When the welder clicks on “Manual” he/she can download the user manual for welders (a pdf file)

When the welder clicks on “Log-off”, he/she closes the database.



**Screen 3: Welder screen; after clicking “My File” it can be seen that this welder has one diploma and no certificates or permits to weld**

To see the Welder’s Diploma information, the user must click the word “Diploma” (the two screens below shows the type of information that can be seen)

RailSafe - Microsoft Internet Explorer provided by ISQ

Address: http://railsafe.ewf.be/diplomas/diplomas.asp?id\_welder=4

**RAILSAFE**  
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Aluminothermic Welders DataBase

Sponsored by the EU via Leonardo Project

My File My Company Manual Log-off HomePage

WELDERS DIPLOMAS

Diploma ID	PT/ EAW/ 001
Issue Date	10 / May / 2007
Examination Date	02 / Apr / 2007
Approved Training Body (ATB)	ISQ - Instituto de Soldadura e Qualidade
Authorised Examiner	Ricardo Miguel Nunes Lambuça
National Authorised Body (ANB)	ISQ - Instituto de Soldadura e Qualidade
Country	Portugal
Welding Process Supplier	KLK Electro Materiales, S.A.
Skill Module	K900 PC25 / K1W X 54U
Extra Skills	Failed
Cutting Methods:	c
Grinding:	No
Shearing:	No
Category of alignment EN 14730-2:06	Horizontal Alignment: W Vertical Alignment: H
Line Category	
Guideline	RAILSAFE/GUIDE/PR/SLV/TB/060227/14
Practical Test Specification	PT-PTS 02
Diploma Type	Pilot Course Railsafe
Files	ISQ diploma 1.pdf - uploaded on 06-06-2007 10:43:21 Diploma 1 - Supporting data.pdf (supporting file) - uploaded on 6/6/2007 10:59:21 AM
Registered by:	National Authorised Body (ANB) - ANBuser

Done

RailSafe - Microsoft Internet Explorer provided by ISQ

Address: http://railsafe.ewf.be/diplomas/diplomas.asp?id\_welder=4

Category of alignment EN 14730-2:06	Horizontal Alignment: W Vertical Alignment: H
Line Category	
Guideline	RAILSAFE/GUIDE/PR/SLV/TB/060227/14
Practical Test Specification	PT-PTS 02
Diploma Type	Pilot Course Railsafe
Files	ISQ diploma 1.pdf - uploaded on 06-06-2007 10:43:21 Diploma 1 - Supporting data.pdf (supporting file) - uploaded on 6/6/2007 10:59:21 AM
Registered by:	National Authorised Body (ANB) - ANBuser

Active

Welder Name: António José Pereira Silva  
 Birth Date: 29 / Sep / 1970  
 Company: PROMORAIL - PT  
 e-mail:  
 Registered by: National Authorised Body (ANB) - ANBuser

Company Name: PROMORAIL - PT  
 Contact Person - Name: Bruno Queirós  
 Contact Person - e-mail: brunoqueiros@promorail.pt  
 Contact Person - Telephone: (+351) 939 996 050  
 Contact Person - Fax:

UserName: antoniojose

Active

DIPLOMAS	CERTIFICATES	PERMITS
1 - PT/ EAW/ 001: ISQ diploma 1.pdf supporting file: Diploma 1 - Supporting data.pdf	<b>Welder without any Certificates.</b>	<b>Welder without any Permits.</b>

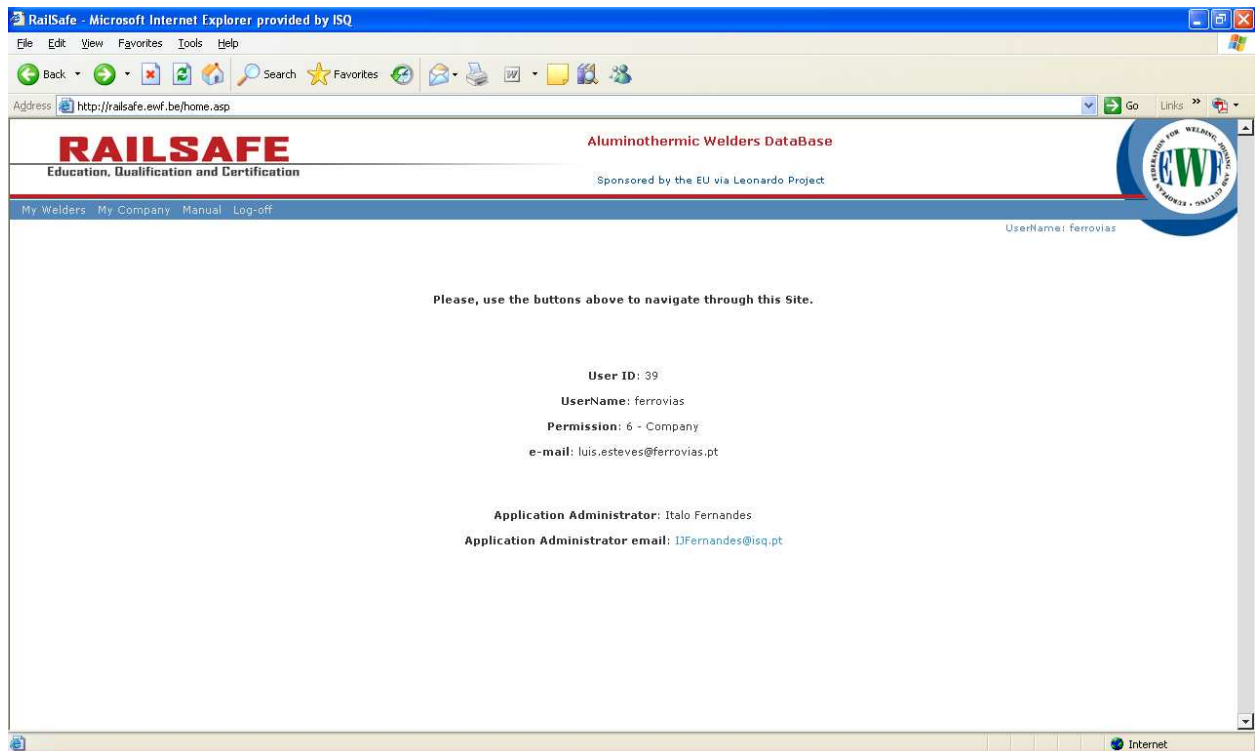
Internet

Screen 4 and 5: Welder's information regarding his diploma (the screens regarding the information for certificates and permits to weld have the same structure)

To see the diploma pdf and the pdf supporting documentation that has been used to award the diploma, it is necessary to click on the screen 5 on cell “Files” on the words “ISQ Diploma 1” and “Diploma 1 supporting data”.

## 6.2 Screens regarding Companies

Below some screens regarding Companies can be seen.



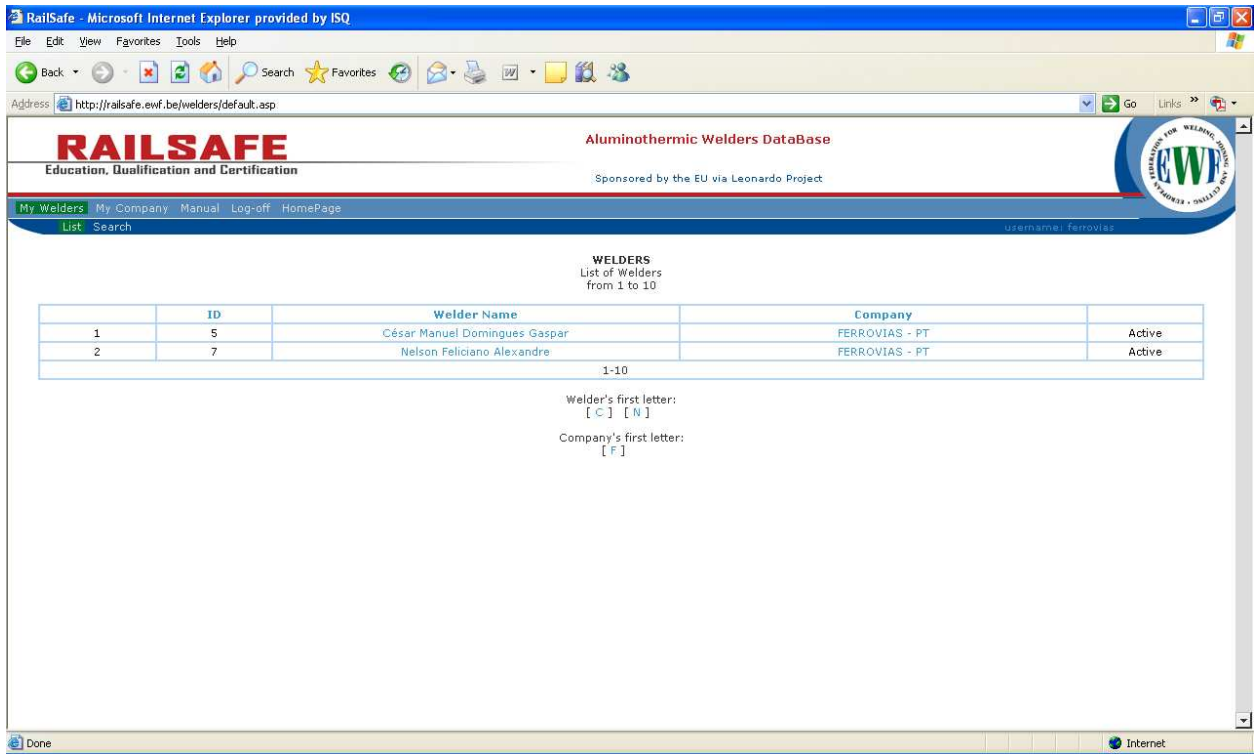
**Screen 1: First screen after the Company log-in; on the upper left corner, the navigation buttons “My Welders”, “My Company”, “Manual” and “Log-off” can be seen**

When the Company clicks on “My Welders” the welders that are employed by the company, and their data, regarding diploma’s, certificates’ and permits can be seen

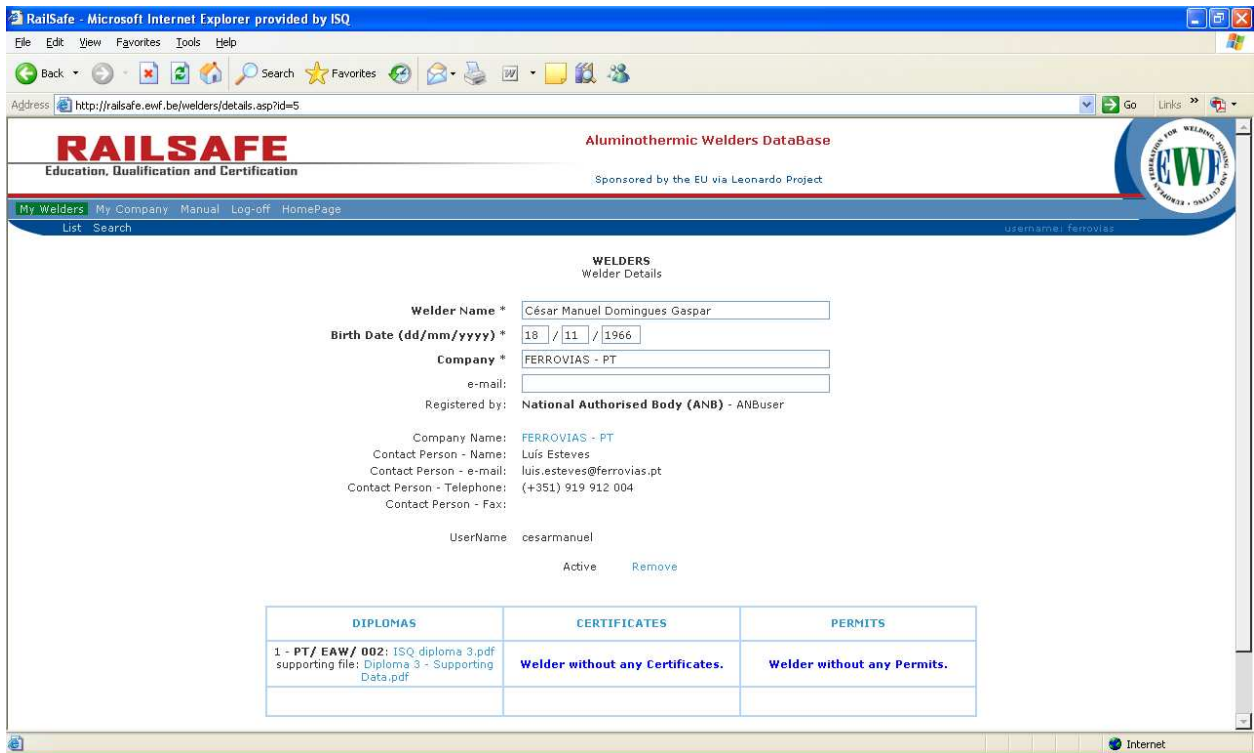
When the Company clicks on “My Company” the Company data can be seen.

When the Company clicks on “Manual” he/she can download the user manual for Companies users (a pdf file)

When the Company clicks on “Log-off”, he/she closes the database.



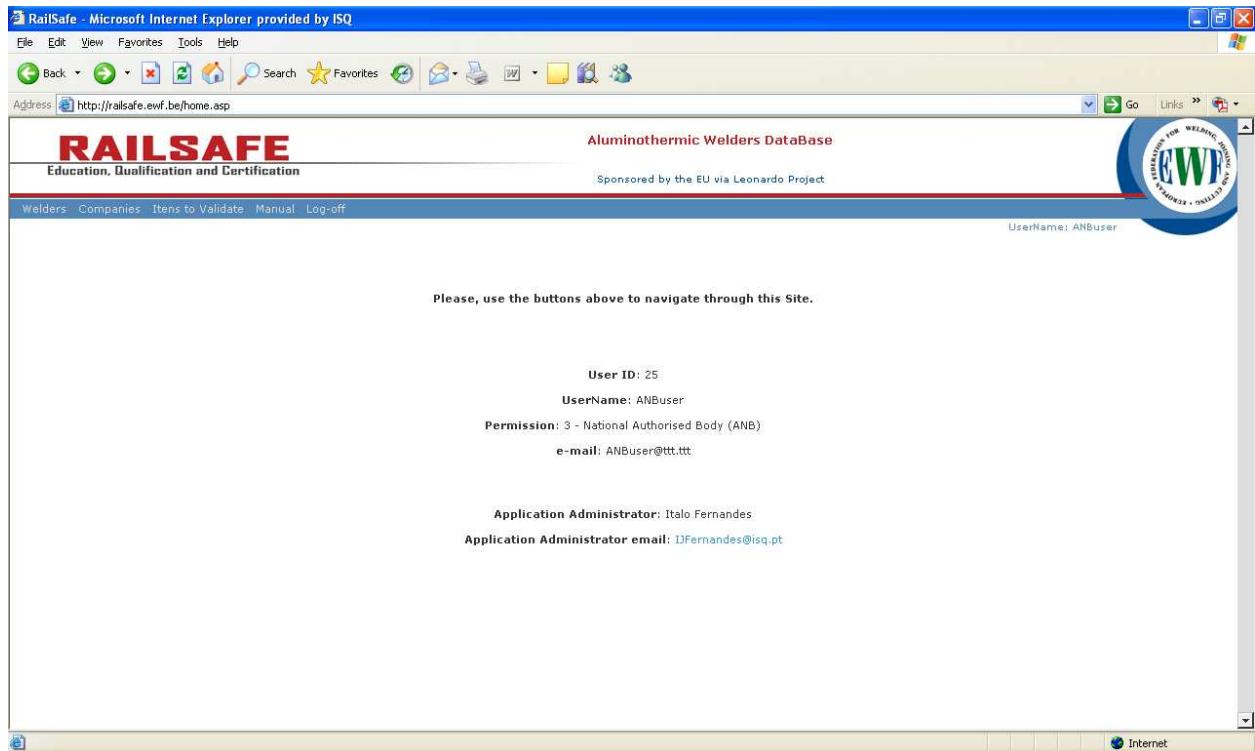
**Screen 2: After clicking “My Welders” a table is shown with the company’s welders.**  
 To see each welder’s data, it shall be necessary to click on the welder’s name to open his/her data (see screen below)



**Screen 3: After clicking the welder’s name, the first screen shows his data**  
 To see in more detail the diploma’s, certificates and/or permits to weld information, see the explanation made on the welders above on item 6.1.

## 6.3 Screens regarding RAILS SAFE Authorised National Body - RANB

Below some screens regarding RANB can be seen



**Screen 1: First screen after the RANB log-in; on the upper left corner, the navigation buttons “Welders”, “Companies”, “Items to Validate”, “Manual” and “Log-off” can be seen**

When the RANB clicks on “Welders”, all welders that are on the database and their data, regarding diploma’s, certificates’ and permits to weld can be seen, and also the possibility to create new data or update present data

When the RANB clicks on “Companies” all the Company’s data can be seen. The RANB can also create new data or update present data.

When the RANB clicks on “Items to Validate”, the RANB will have access to the validation of data that have been placed on the database by the Authorised Training Bodies – ATBs, and or by the Authorised Examiners – AEs, regarding Diploma’s and Certificates.

When the RANB clicks on “Manual” he/she can download the user manual for RANB user (a pdf file).

When the RANB clicks on “Log-off”, he/she closes the database.

The screenshot shows the RAILS SAFE website interface in Microsoft Internet Explorer. The page title is "Aluminothermic Welders DataBase". The main content area displays a table of welders with columns for ID, Welder Name, Company, and Active status. Below the table are search filters for welder and company first letters.

ID	Welder Name	Company	Active
1	António José Pereira Silva	PROMORAIL - PT	Active
2	César Manuel Domingues Gaspar	FERROVIAS - PT	Active
3	João Marcos Lopes Cardoso	FERGRUPO - PT	Active
4	Joaquim Alves Pereira	NEOPUL - PT	Active
5	Manuel da Conceição Pereira	NEOPUL - PT	Active
6	Nelson Feliciano Alexandre	FERROVIAS - PT	Active
7	welder 1 - diplomas	isq	Active
8	Welder 2 - diplomas, certificates & permits	isq	Active
9	Welder 3	ewf	Active

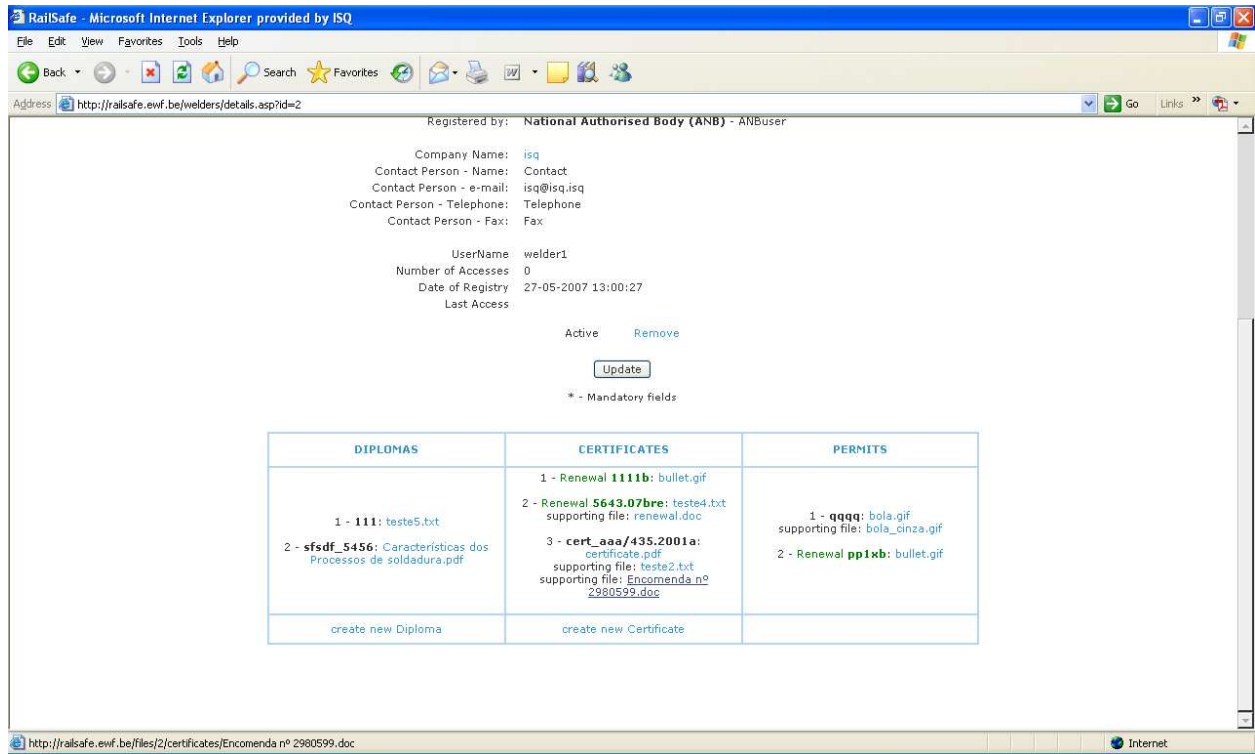
Welder's first letter: [ A ] [ C ] [ J ] [ M ] [ N ] [ W ]  
 Company's first letter: [ E ] [ F ] [ I ] [ N ] [ P ]

Screen 2: After opening “Welders”

Below two screens can be seen after opening one “Welder”.

The screenshot shows the "Welder Details" page for "Welder 2 - diplomas, certificates & permits". The page contains a form with fields for Birth Date, Company, and contact information. The registered body is listed as "National Authorised Body (ANB) - ANBuser".

Welder Name: Welder 2 - diplomas, certificates & permits  
 Birth Date (dd/mm/yyyy): 25 / Apr / 1970  
 Company: isq  
 Registered by: National Authorised Body (ANB) - ANBuser  
 Company Name: isq  
 Contact Person - Name: Contact  
 Contact Person - e-mail: isq@isq.isq  
 Contact Person - Telephone: Telephone  
 Contact Person - Fax: Fax  
 UserName: welder1  
 Number of Accesses: 0  
 Date of Registry: 27-05-2007 13:00:27  
 Last Access: [ ]  
 Active: [ ] Remove: [ ]  
 Update: [ ]  
 \* - Mandatory fields



Screen 3 and 4: After opening the data regarding one Welder, the possibility to create new data and or update data for this welder appears; to see the information, see the explanation given on 6.1.