



Specifications and Quality Labels

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QUALANOD



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Advantages to be a QUALANOD licensee

- Purchasers of anodised aluminium receive a premium-grade product delivering long-term value with good quality.
- Building owners are sure they get long-term value from their architecture
- Licensed plants have a distinct advantage in competitive tendering
- Qualanod membership helps to distinguish from non-members as reliable producers of a quality product
- Membership also helps anodizers maintain high standards which could fall if it was not for the routine inspections
- In some European countries it is nearly impossible to get orders without having the QUALANOD Label
- In a word: the whole market profits from associations and plants being members of QUALANOD

Foundation

EAA

EURAS

1974

★ ★ ★ EUROPEAN

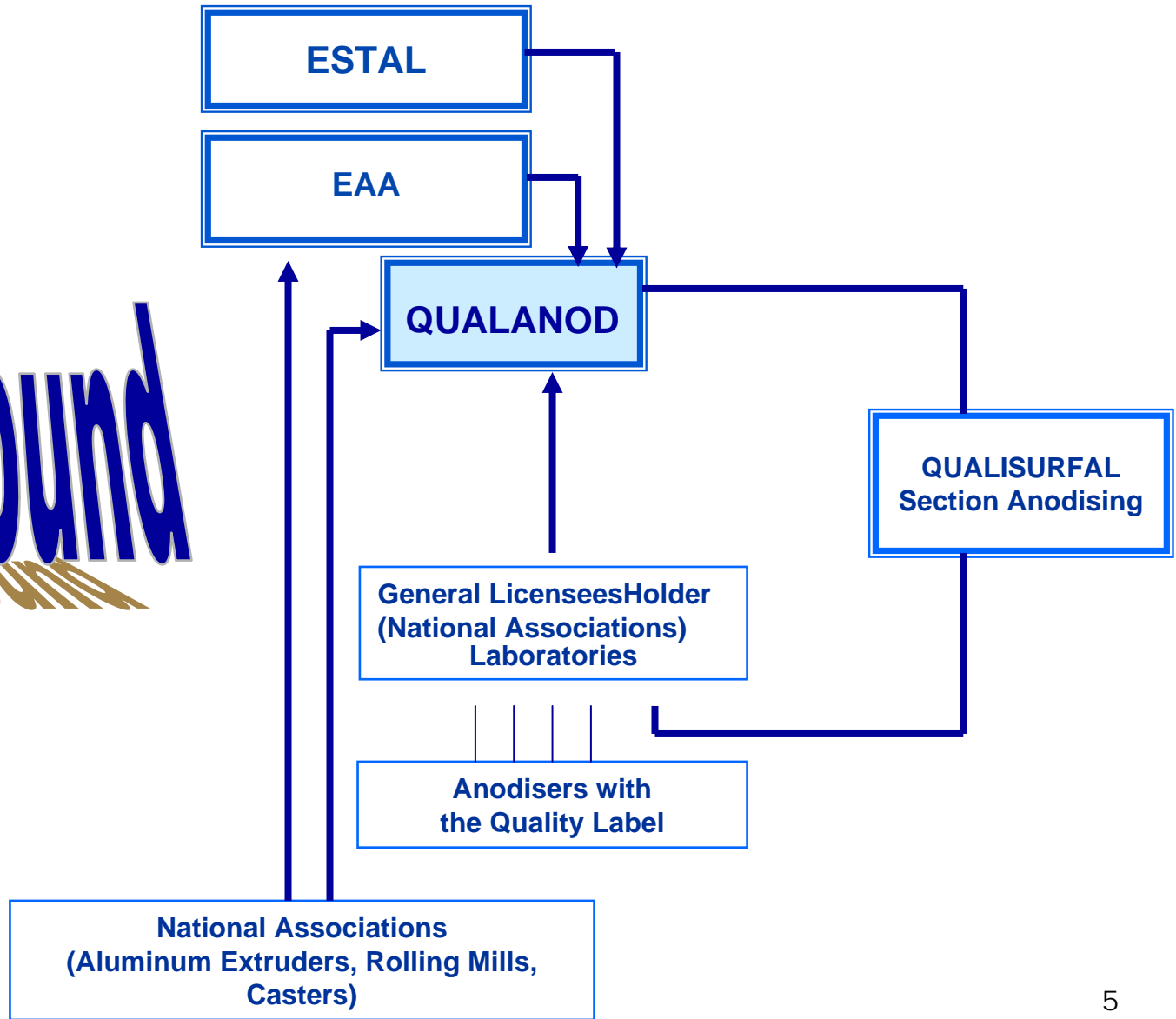
ALUMINIUM ASSOCIATION

EURAS F
VV
AA

ANODISERS ASSOCIATION

Qualanod

Background



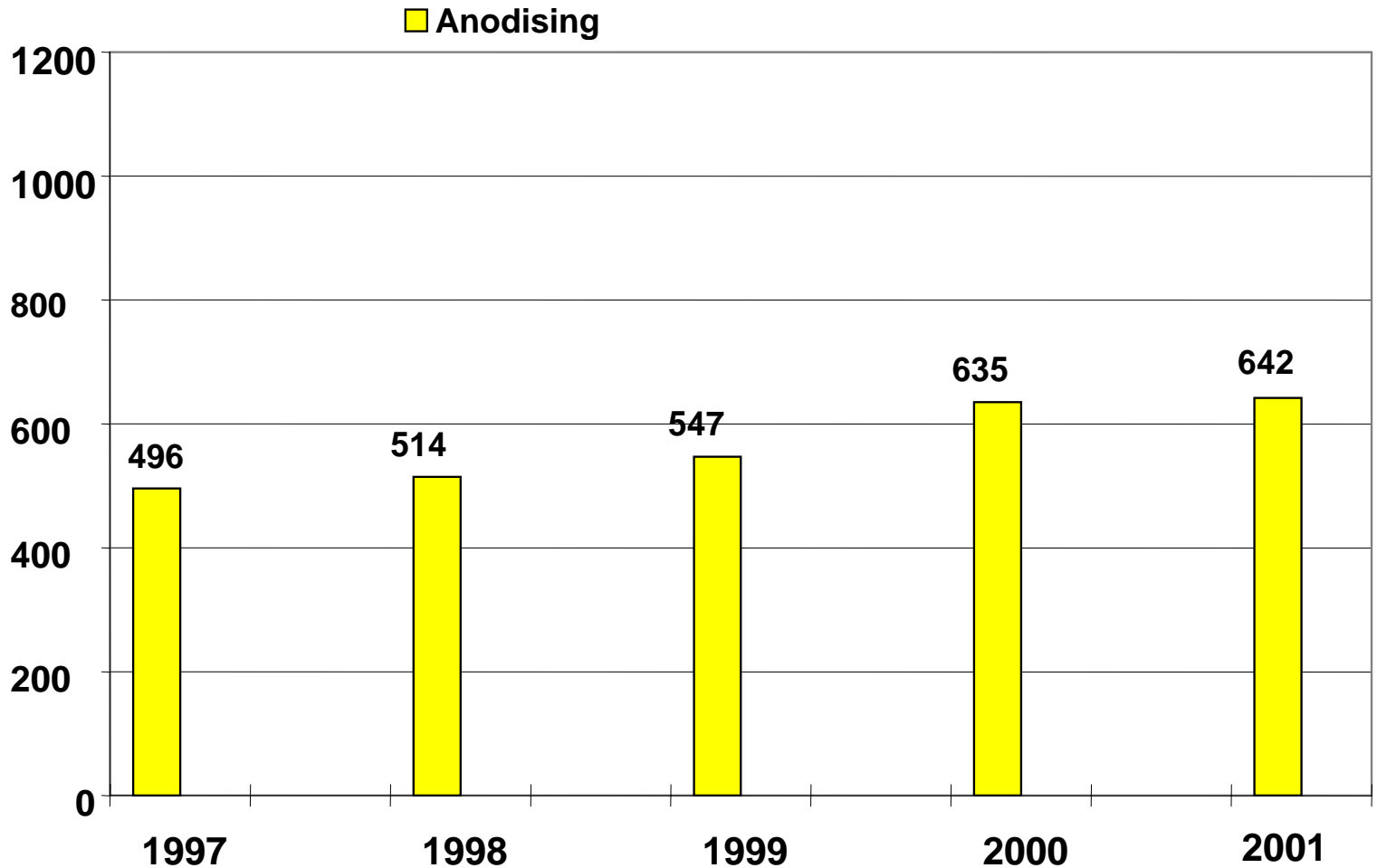
About QUALANOD

QUALANOD is a quality label organisation committed

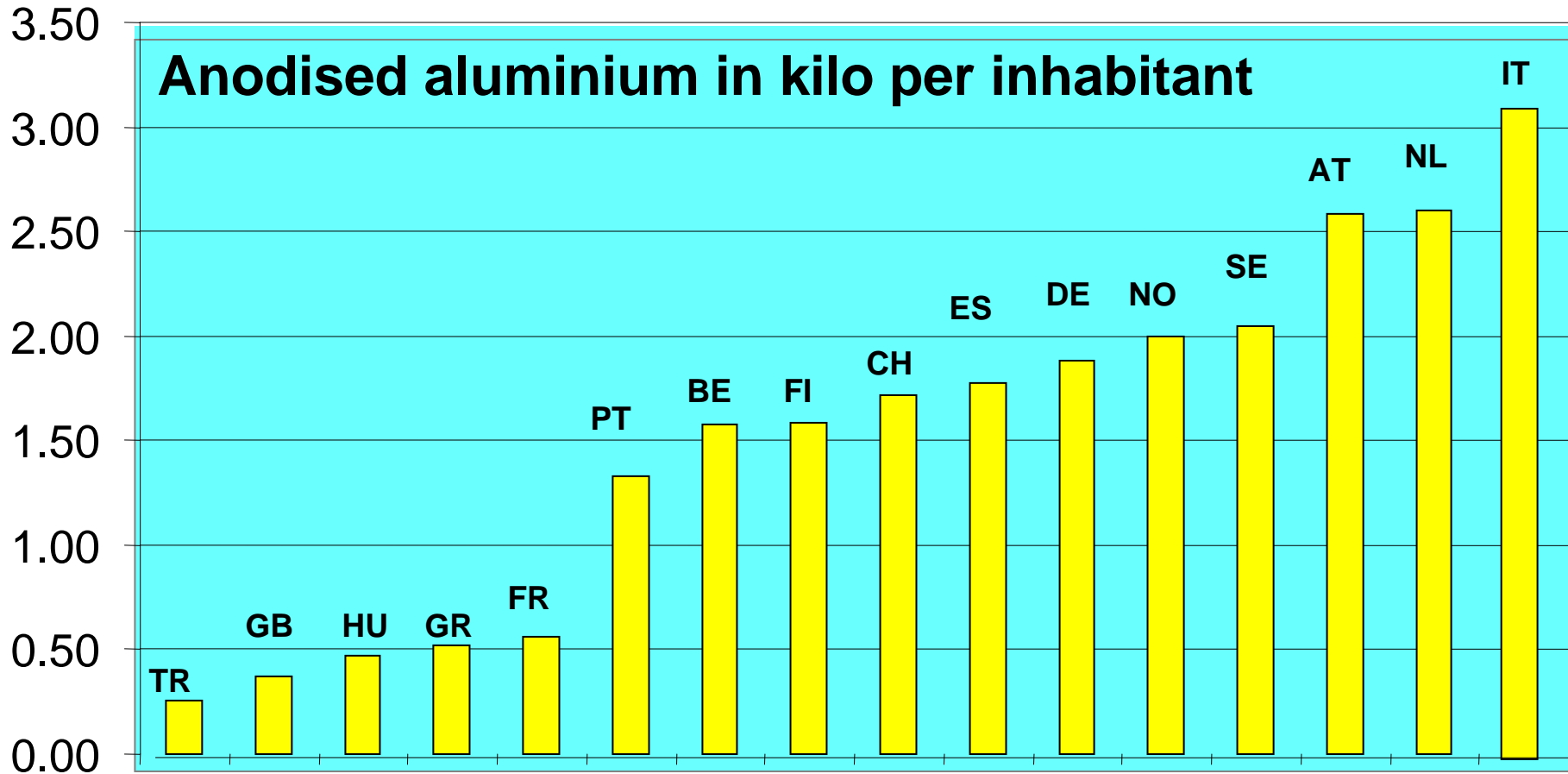
- to maintaining and promoting the quality of anodised aluminium and its alloys mainly for architectural applications.
- To determine whether or not an anodic oxide film meets a customer`s requirements, the results need to be measurable and comparable with technical specifications and standards.
- On behalf of customers who use anodised aluminum, QUALANOD defines comprehensive quality requirements and monitors their compliance by licensed plants world-wide.

European Production

2001 (000 tonnes)



Anodising Production 2001 per capita



Anodising Capacities

- Number of plants
 - ESTAL: 237 (238) - Europe: 485 (465)
- Ampere Capacities:
 - ESTAL: 6.3 millions (5.9) Europe: 8.8 (8.5)
- Capacity utilization 2001
 - ESTAL: 65% (68%)
- Average plant capacity: 26'607 Amperes
(24'967)

Administration

AC-Fiduciaire AG

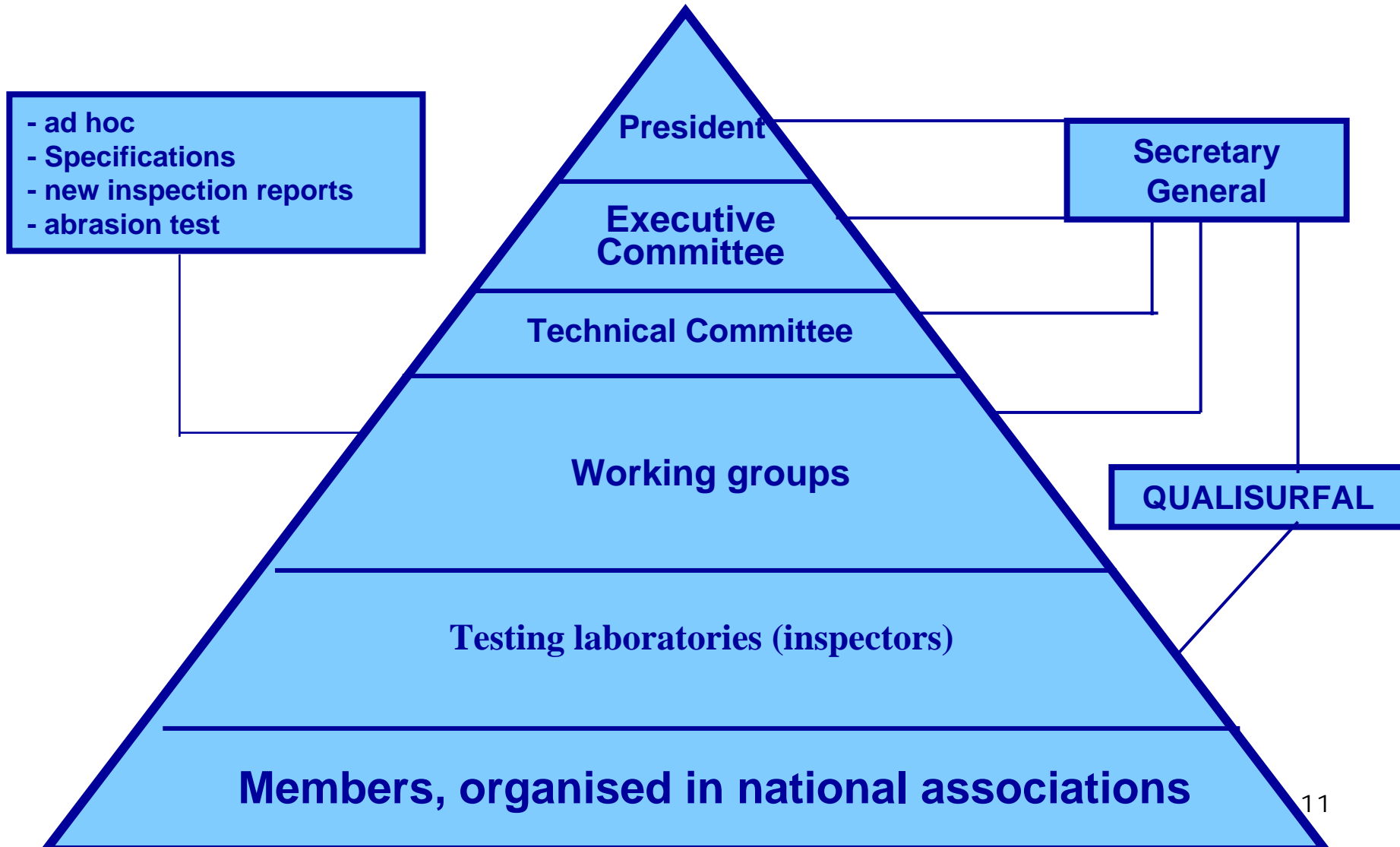
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CH-8002 Zürich
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**Josef
Schoppig**
Secretary
General



**Accredited according to
EN-45011**

Qualanod



Members of the Executive Committee 2002/2003

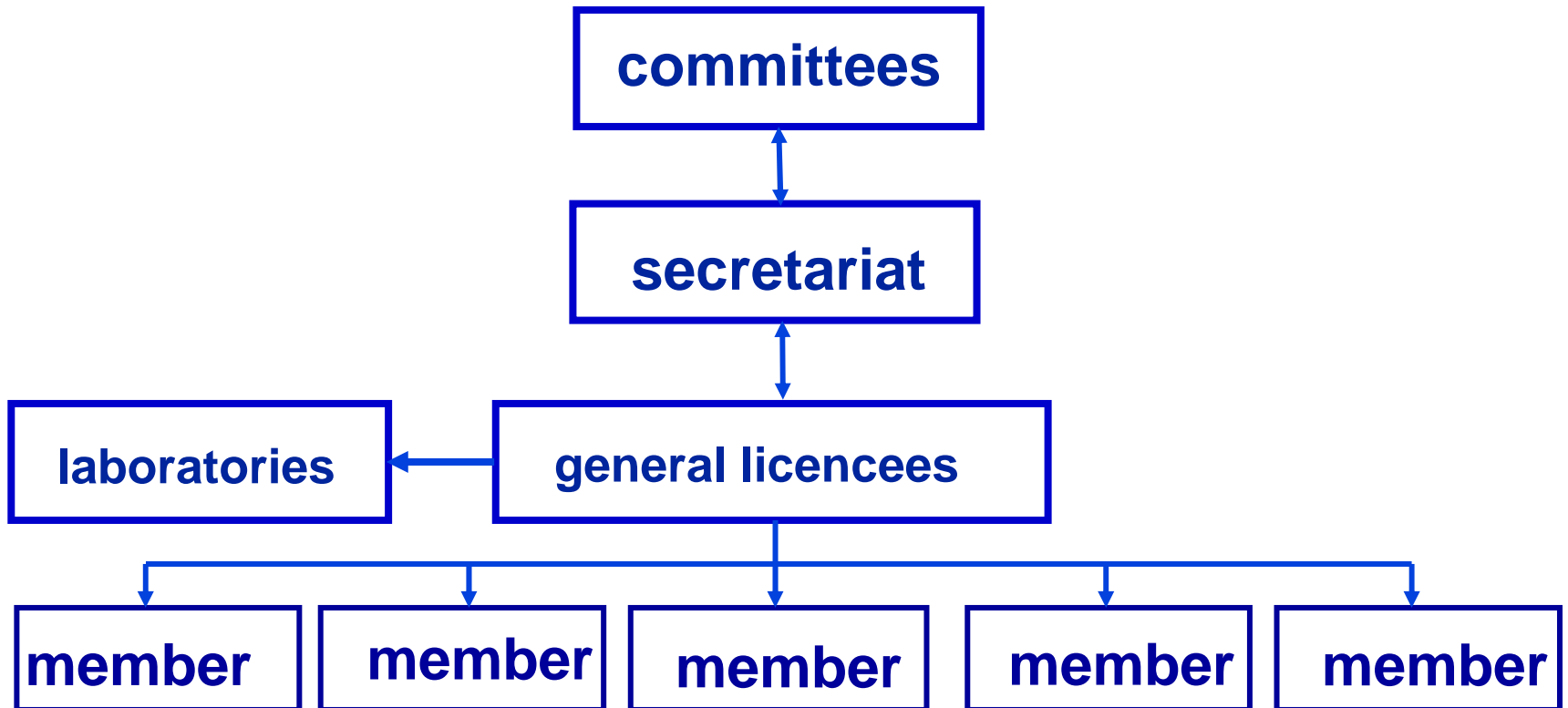
■ **President:**

T. Ulucak	Saray Döküm	Turkey
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■ **Members:**

- | | | |
|------------------|---------------|----------|
| ■ A. Andersson | Sapa Profiles | Sweden |
| ■ E. Arnoux | Adal | France |
| ■ C. Baroni | Metra | Italy |
| ■ J. Bettencourt | Alugarbe | Portugal |
| ■ P. Lloret | Decoral | Spain |
| ■ S. Meirsschaut | Analü | Belgium |

Information flow



Do the licensees have all the relevant documents?

Terminology

LICENCE



Qualanod

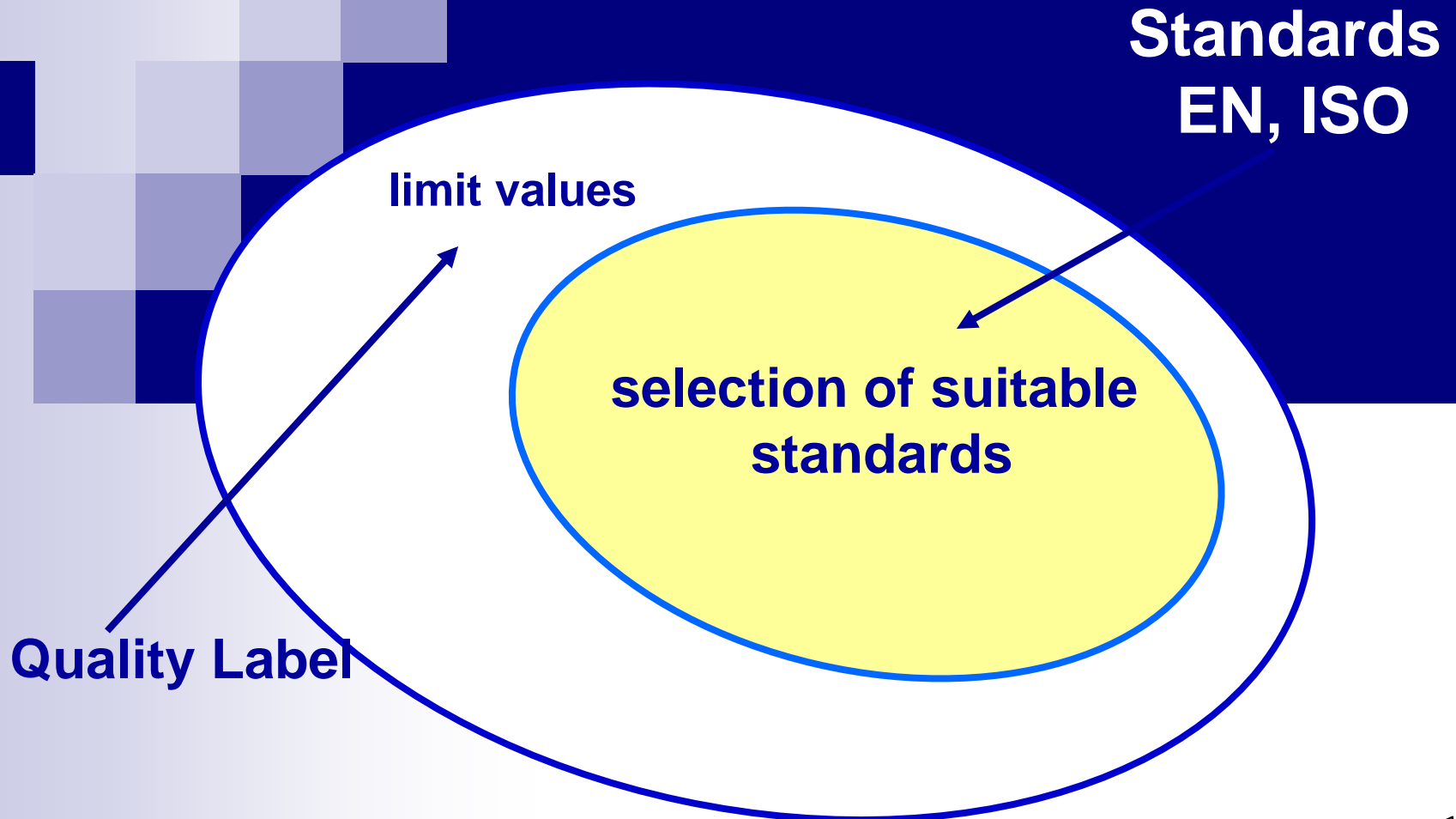
GENERAL LICENSEES HOLDER

CONTROL BODY

The nature of a Quality Label

- **Selection of suitable standards**
- **Limit values for the quality assurance**
- **Testing instructions for in-house and external control**
- **Adaptation of the specifications to new developments**

Fixation of limit values for the quality assurance



What QUALANOD **doesn't** stand for:

QUALANOD is **not** a Quality Management System.

ISO 9000, ISO 16949, VDA 6.1 or QS 9000 quality management systems provide procedures to assure the quality management system of an organization.

Those standards do not specify the quality of the product whereas QUALANOD does.

Such quality management systems are, however, an asset for each licensee.

Technical Specifications

October 1999

1. INTRODUCTION

2. GENERAL SPECIFICATIONS FOR CLASSIFICATION, SELECTION AND TESTING

3. SAMPLING

4. VARIOUS RECOMMENDATIONS

5. REQUIRED TESTING APPARATUS AND TESTING SOLUTIONS

6. MINIMUM REQUIREMENTS FOR THE EQUIPMENT OF ANODISING

PLANTS

7. SPECIFICATIONS FOR IN-HOUSE CONTROL

8. SPECIFICATIONS FOR INSPECTORS

Appendices

Most important technical requirements

- MINIMUM THICKNESS IN ACCORDANCE WITH THE REQUIRED THICKNESS CLASS
- CORRECT SEALING
- WEIGHT LOSS TEST
- IN-HOUSE CONTROL

Comparison between QUALANOD and AAC Specs

QUALANOD Technical Specifications

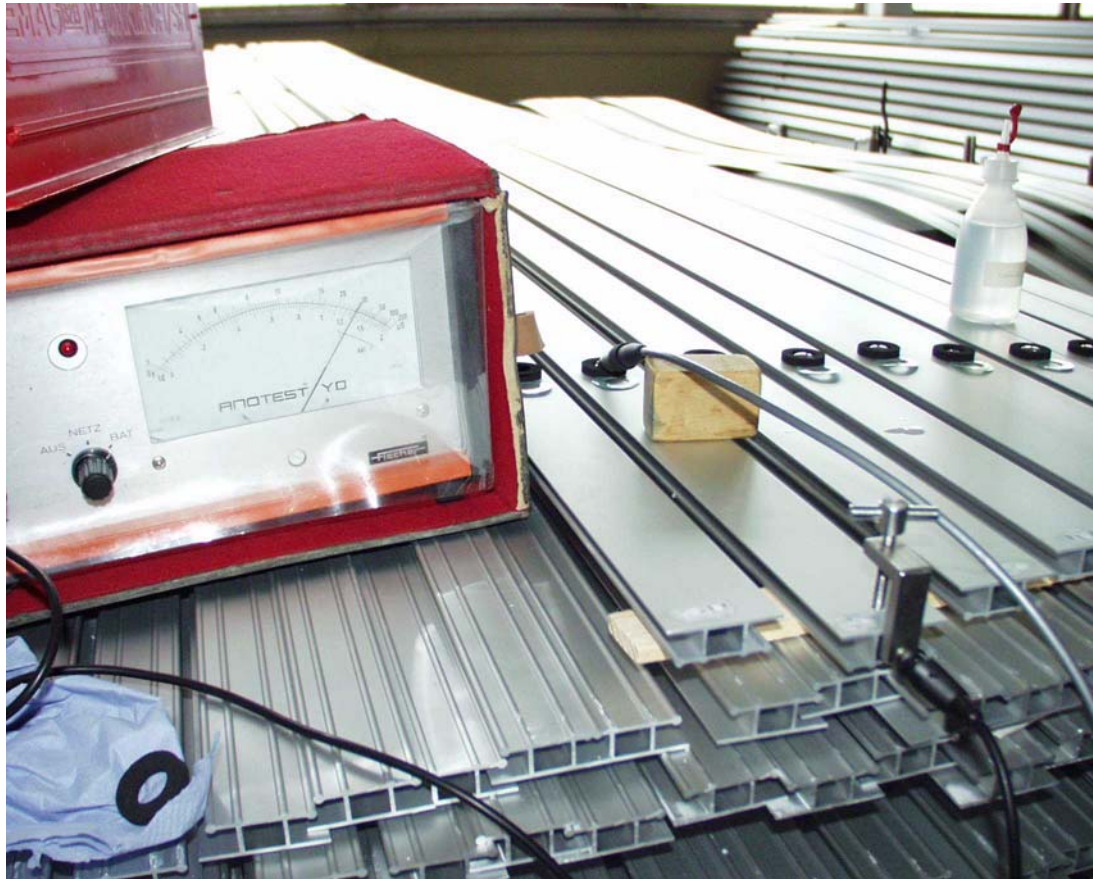
- Thickness classes 5,10 (inside)
15,20,25 (outside architectural)
absolute lowest accepted value:
80% of the average of 3 to 5
readings (e.g. 16 out of 20)
- Sealing quality:
 - 1) Admittance value max 20
Microsiemens for 20 microns
 - 2) Weight Loss: 30mg/dm² max.

AAC Anodizing Reference Guide

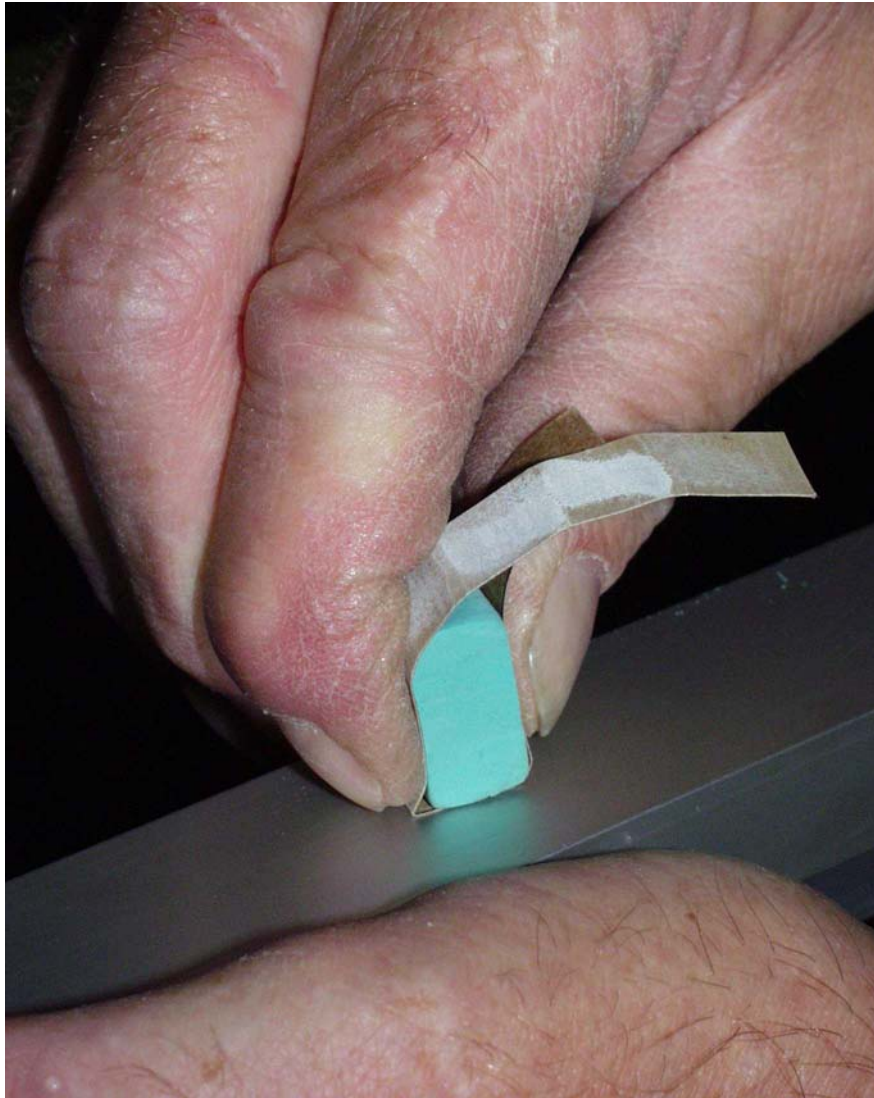
- Thickness classes
class 1: 18, class 2: 10
- Sealing quality:
max weight loss for class 1 and
2:
40mg/dm²







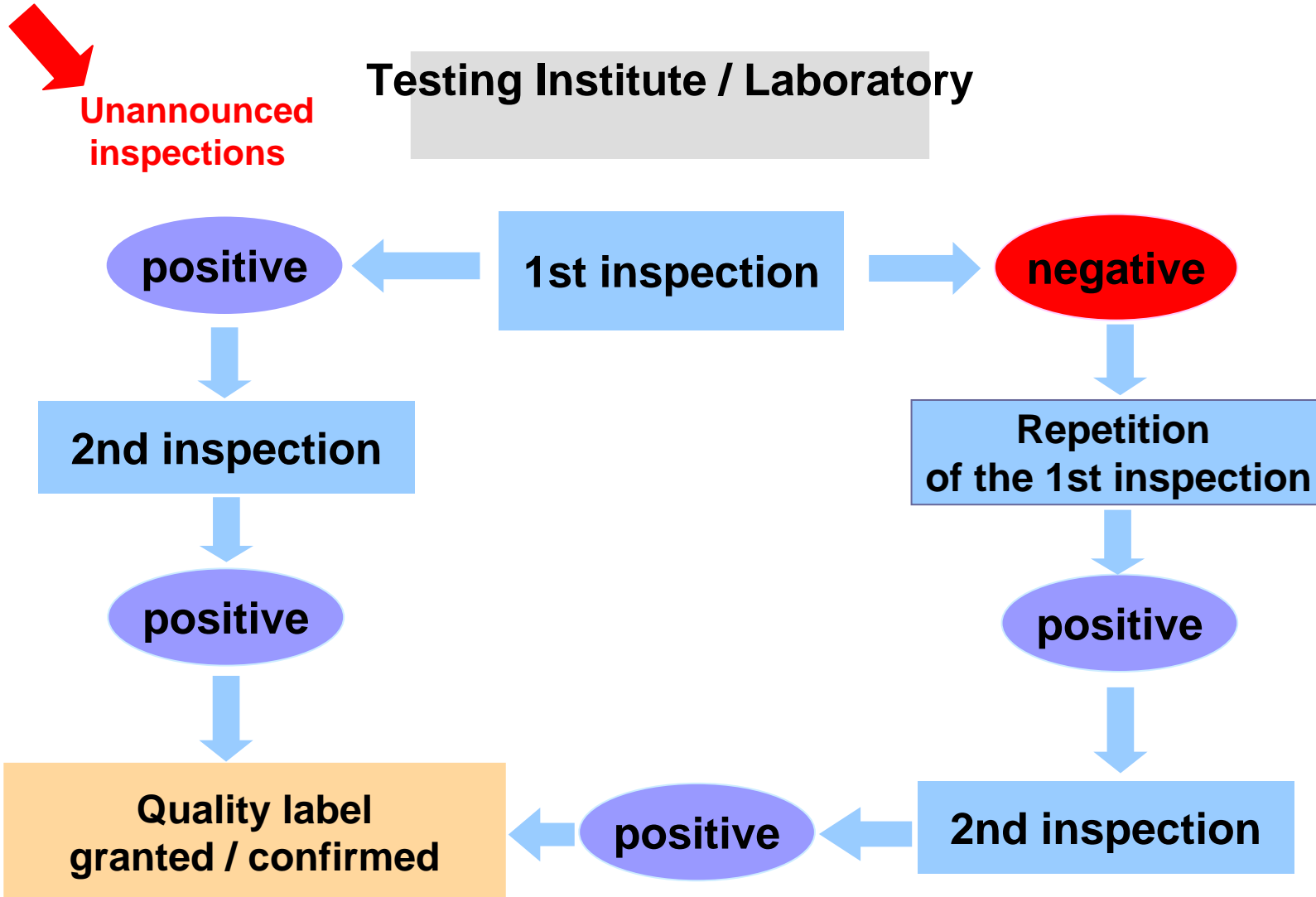




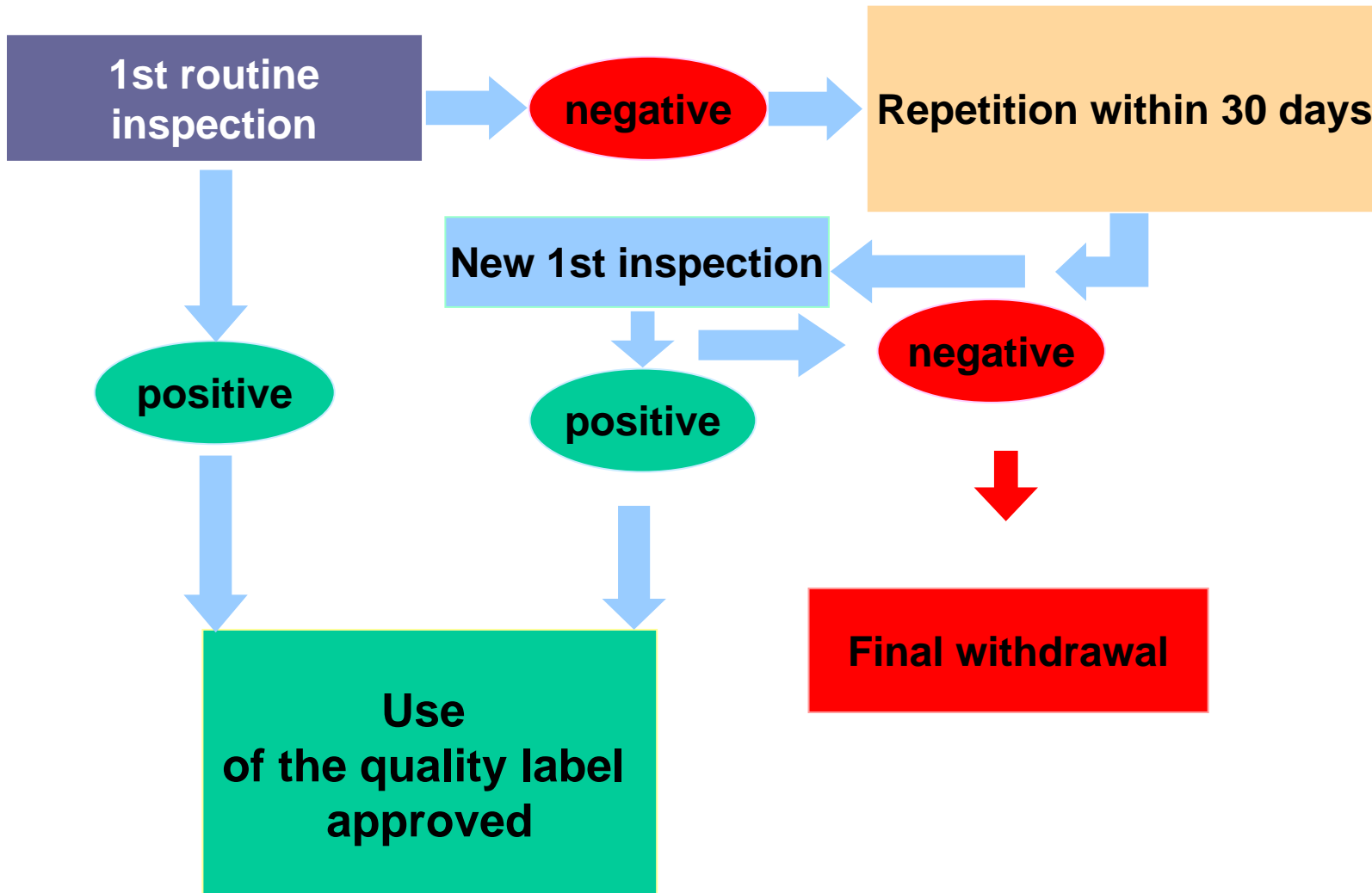




Inspection procedure



Routine inspection procedure / 2 to 5 per year



QUALISURFAL

Inspectors' Meetings

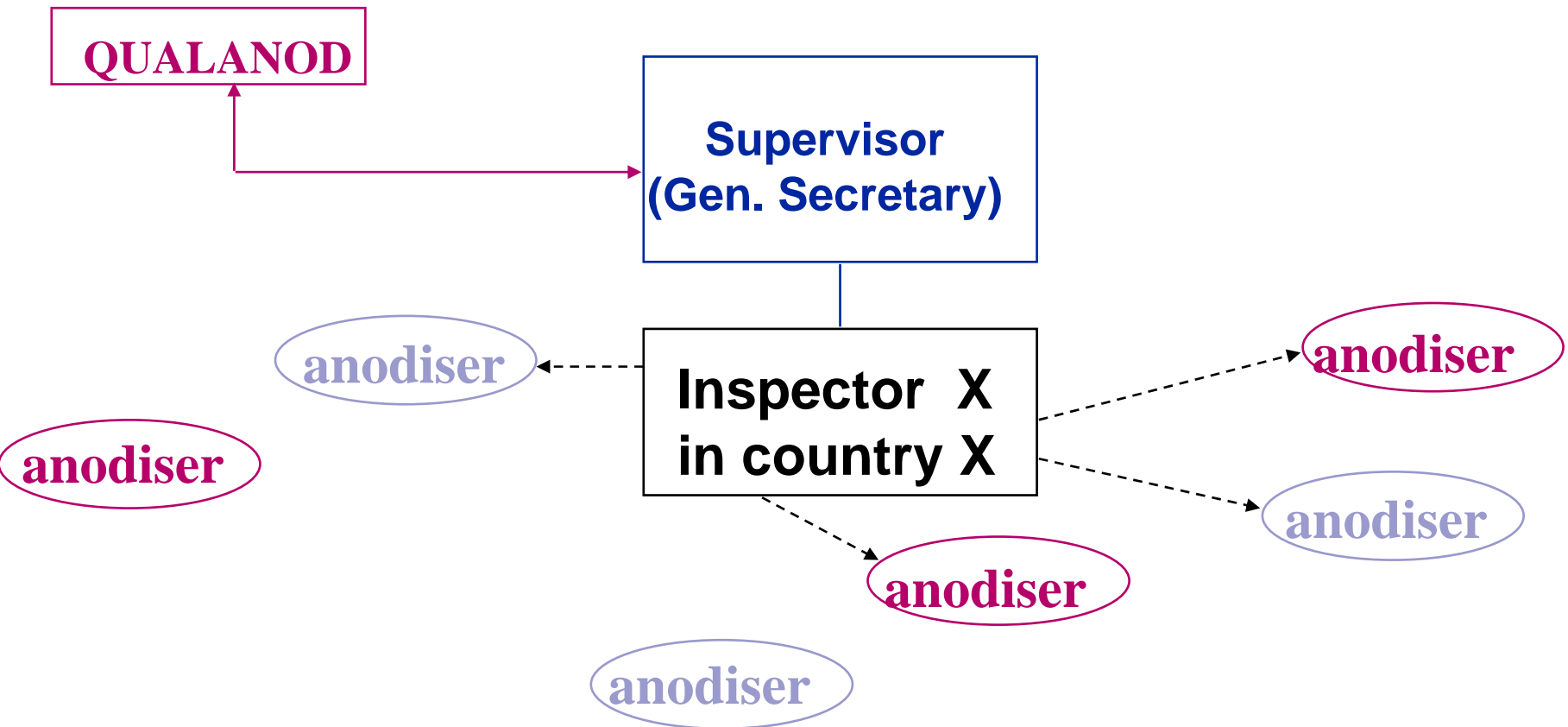
**as from
1987**

since 1996

co-operation recognized by the **EOTC**
(Europ. Org. for Conformity Assessment)

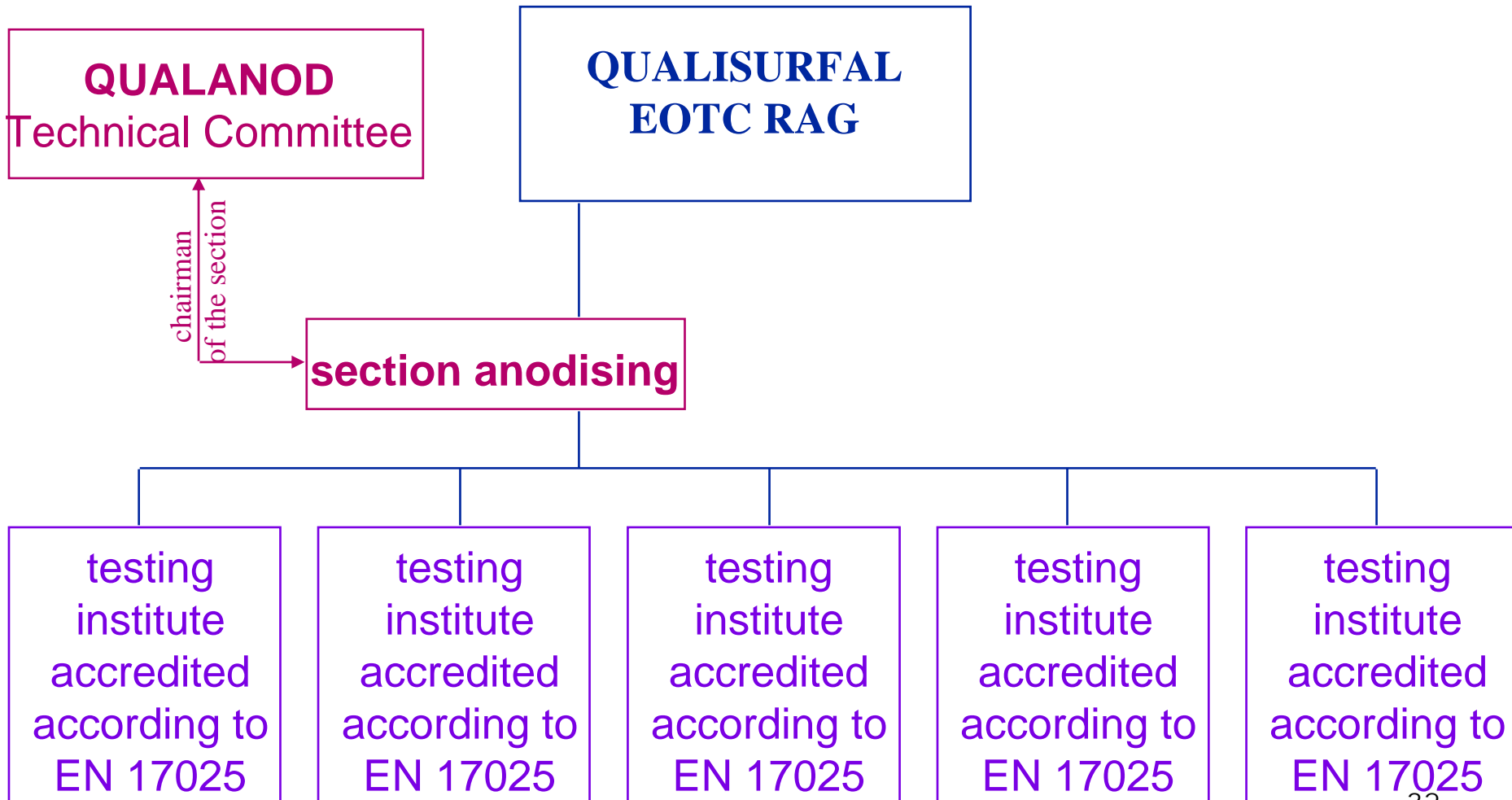
**Agreement Group
QUALISURFAL**

Harmonising the inspectors' work

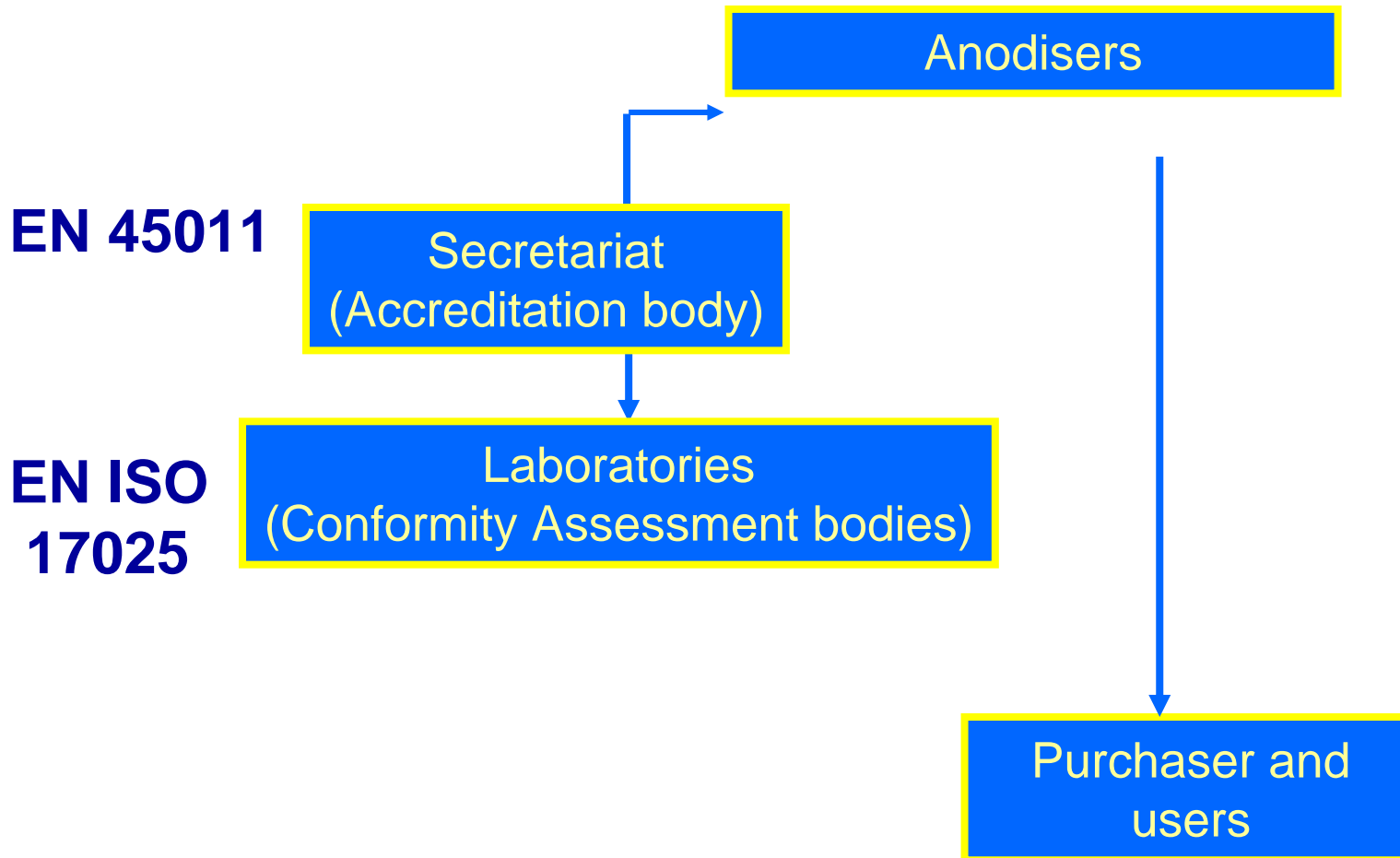


 (new) definition of the inspectors' tasks

Regular inspectors' meetings



CONFORMITY ASSESSMENT



Procedure to become a Qualanod member

- Voluntary preliminary visit
- If necessary change and improvement of the installations and the laboratory
- First official (announced) inspection
- Second official (unannounced) inspection
- Every year two positive unannounced routine visits

Advantages to be a QUALANOD licensee

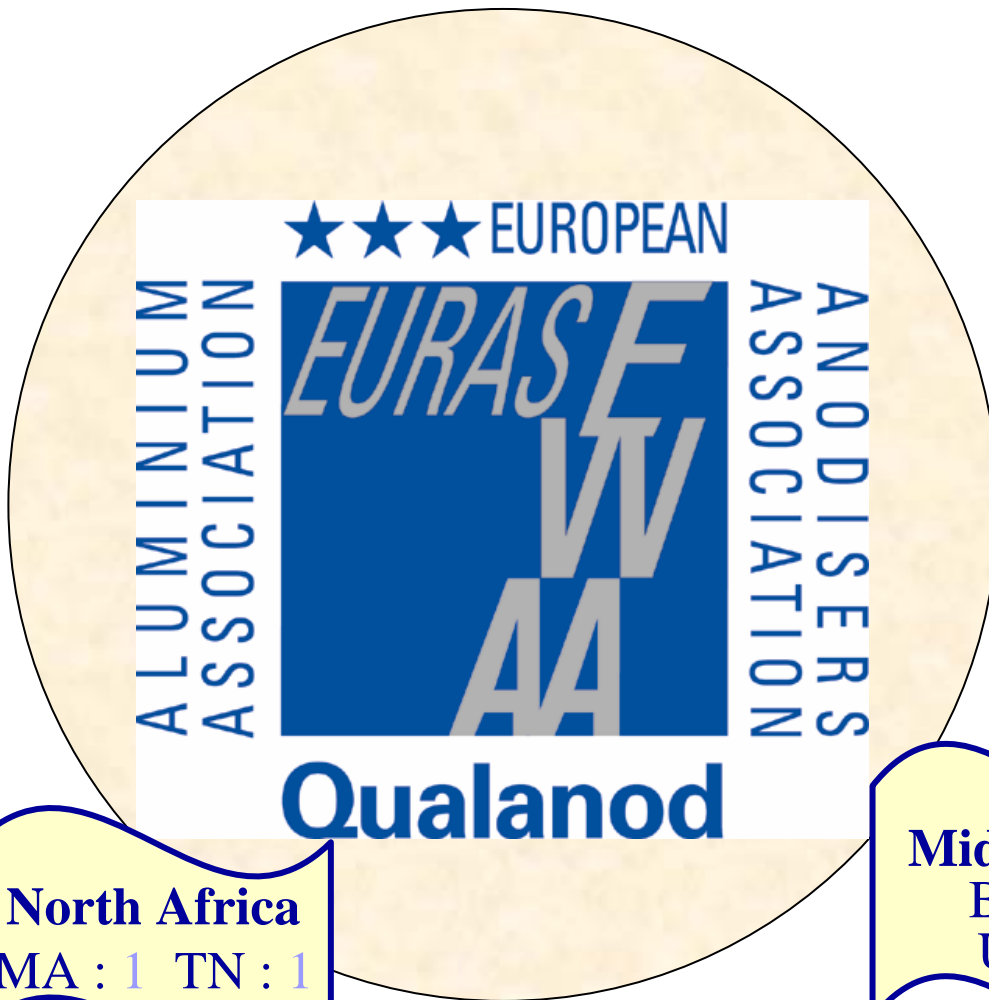
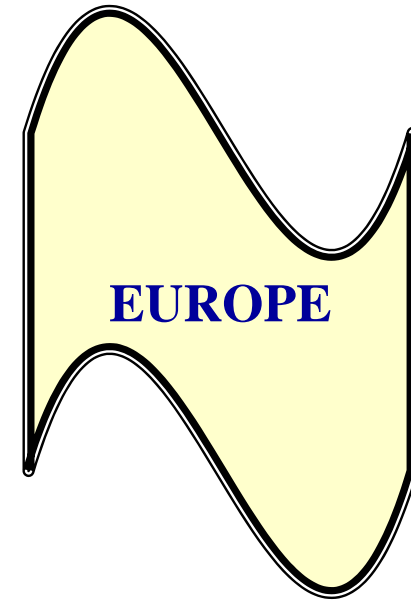
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What remains to be done by QUALANOD ?

- Having a quality label only pays in the long run.
- It is not always possible to get a better price.
- More advertising and PR work in some countries is necessary (architects, aluminum system fabricators).
- Adaptation of the Specs to new technologies.

Current number of licensees

143 (15.5.2003)



North Africa
MA : 1 TN : 1

Middle East
BH : 1
UAE : 2

Licensees in Europe

