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SOUTH AFRICA

21<sup>ST</sup> ANNUAL IAOM  
MIDEAST AND AFRICA DISTRICT  
CONFERENCE AND EXPO

22-25 NOVEMBER 2010  
CAPE TOWN  
SOUTH AFRICA

diverse people unite



OCRIM

**What's New**

***"PERFECT" Sieve***



Presented by: **MAURO FASSINA**

# OORIM

## *Perfect*

**Sieve and sieve frame**



Presented by: MAURO FASSINA



# ***CRITERIA BEHIND THE CONSTRUCTION OF THE NEW COMPOSITE SIEVE***

- ❖ **Sanitation**
- ❖ **Design**
- ❖ **Performance**

***Perfect***

**Sieve and sieve frame**



# ***Sanitation***

Sieve material: Thermo plastic & Stainless steel



- ✓ Food grade material
- ✓ Absence of dead corners
- ✓ Ease of cleaning
- ✓ Low porosity

***Perfect***

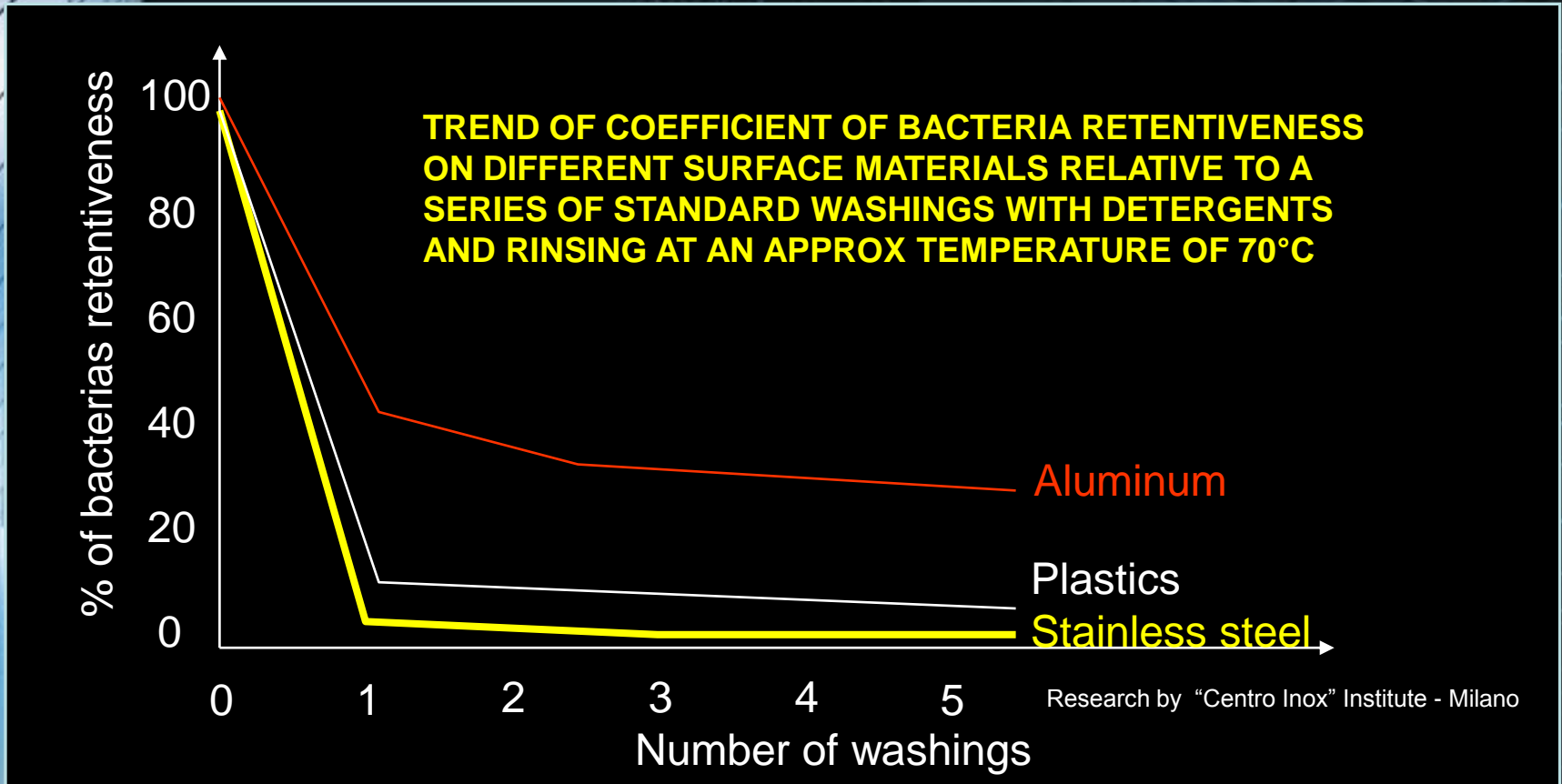
Sieve and sieve frame





# Sanitation

## Bacteria Retensiveness



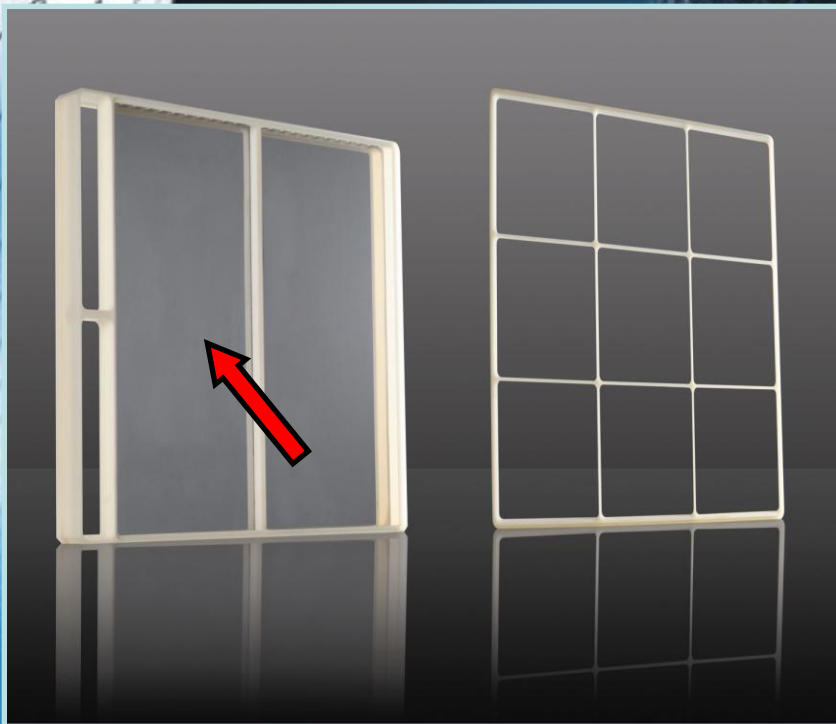
**Perfect**

Sieve and sieve frame



# ***Sanitation***

Sieve back-plate: Stainless steel



- ✓ Eliminates oxidation problems
- ✓ Prevents product build-up due to oxidation
- ✓ Prevent mould build-up
- ✓ Consistent and resistant
- ✓ Easily cleanable

***Perfect***

Sieve and sieve frame





# ***Sanitation***

## **Gluing features**

- ✓ Application of food grade glue (NFS)
- ✓ Consistent and resistant
- ✓ Special sieve profiles allow gluing where there is no product contact
- ✓ No staples required

***Perfect***

**Sieve and sieve frame**



# ***Design***

## Material construction & properties



- ✓ Thermo plastic & Stainless steel
- ✓ Elevated physio-mechanical features = wear resistance and ruggedness
- ✓ High malleability properties = material consistency preventing deformation
- ✓ Food grade
- ✓ Light weight

***Perfect***

Sieve and sieve frame

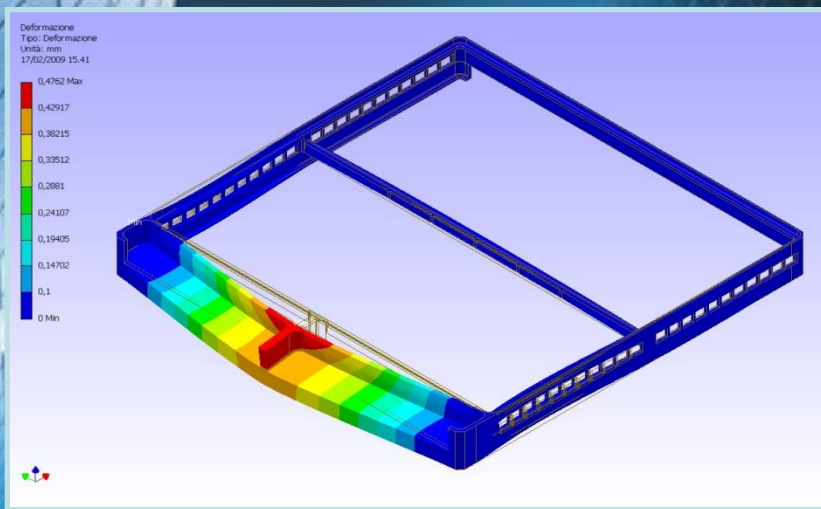




# Design

## Material strength and fatigue

- ✓ Deformation caused by extraction of the sieve from the stack is less than 1/64" (0.5mm)



**Perfect**

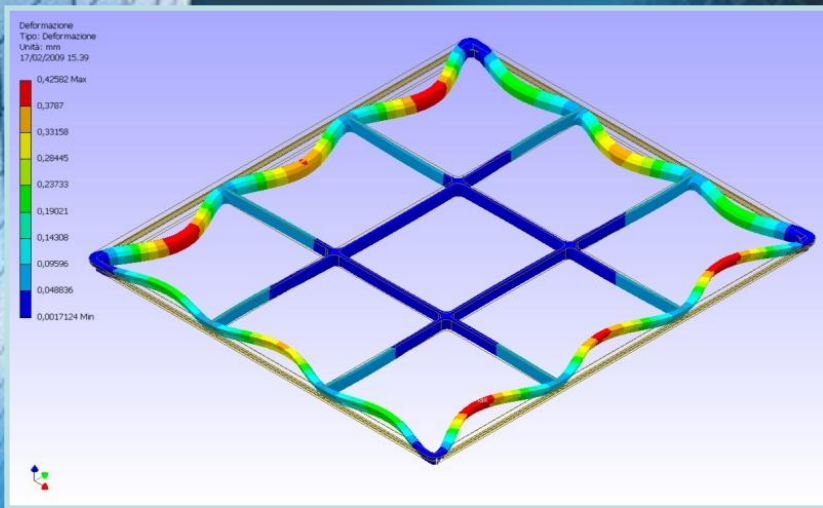
Sieve and sieve frame



# Design

## Material strength and fatigue

- ✓ Deformation caused by extraction of the sieve from the stack is less than 1/64" (0.5mm)
- ✓ Deformation caused by the force applied by the product being sieved equated to less than 1/64" (0,5mm)



**Perfect**

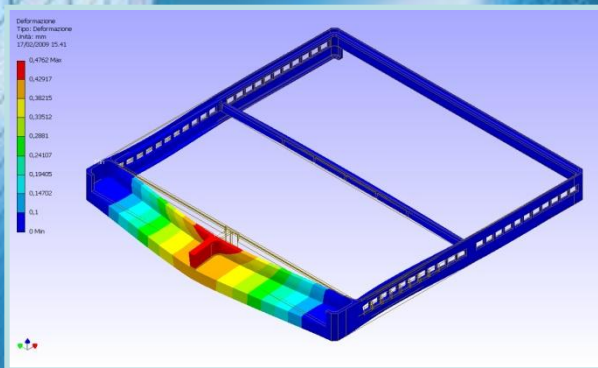
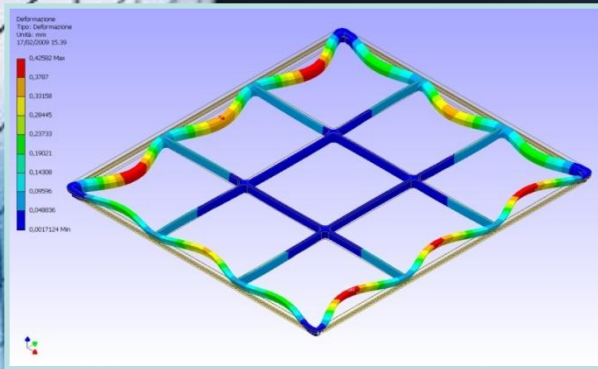
Sieve and sieve frame





# Design

## Material strength and fatigue



- ✓ Deformation caused by extraction of the sieve from the stack is less than 1/64" (0.5mm)
- ✓ Deformation caused by the force applied by the product being sieved equated to less than 1/64" (0.5mm)
- ✓ Stronger material = longer life
- ✓ Consistent material properties even during extreme operation conditions, thus preventing physical deformation due to excess moisture and temperature.

**Perfect**

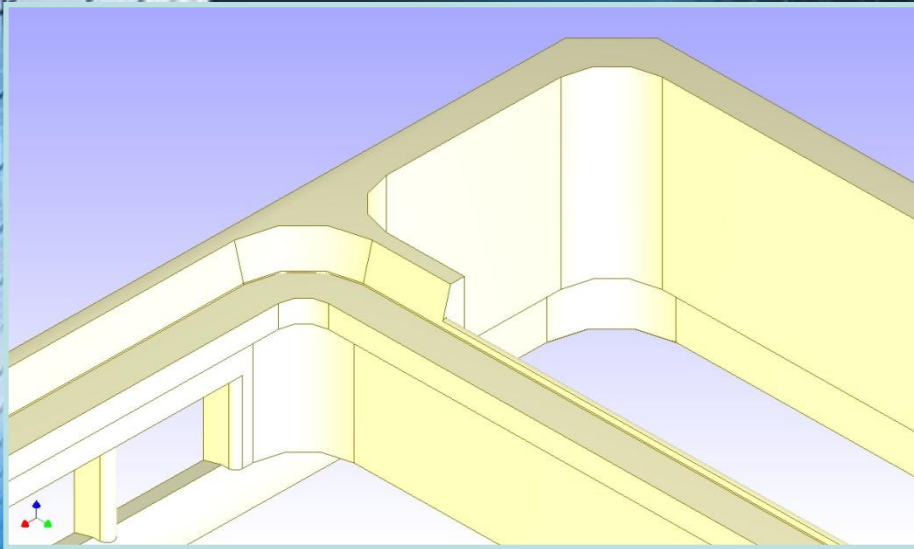
Sieve and sieve frame



# ***Performance***

Optimum design for top performance

- ✓ Elimination of dead corners easing product flow and preventing product deposit



***Perfect***

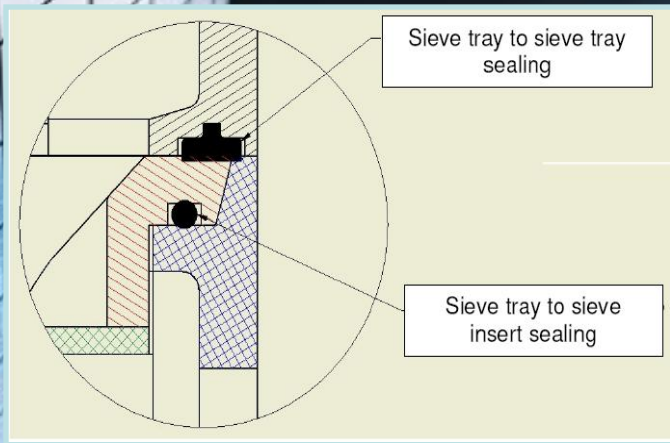
Sieve and sieve frame



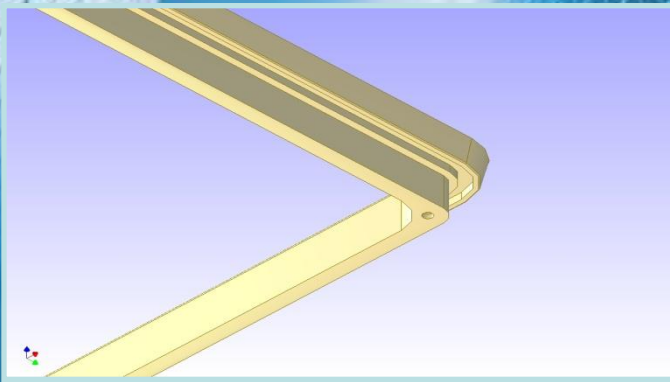


# Performance

Optimum design for top performance



- ✓ Elimination of dead corners easing product flow and preventing product deposit
- ✓ Perfect sealing between sieve inserts and sieve frames by means of special profiles



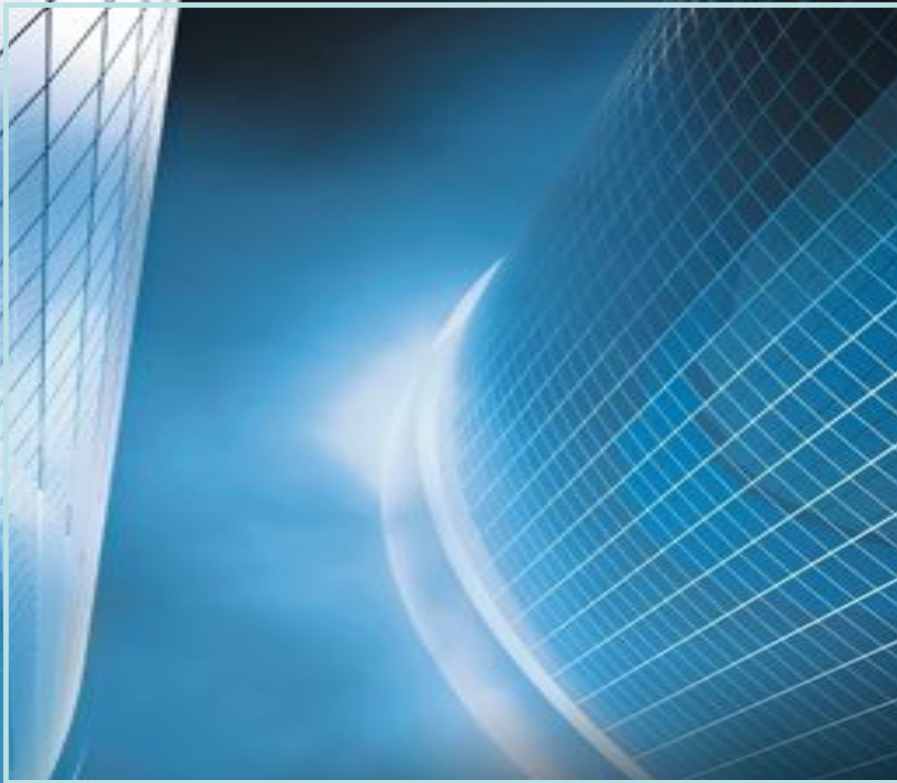
**Perfect**

Sieve and sieve frame



# ***Performance***

Optimum design for top performance



- ✓ Elimination of dead corners easing product flow and preventing product deposit
- ✓ Perfect sealing between sieve inserts and sieve frames by means of special profiles
- ✓ Sloping and rounded profiles to facilitate product flow for both the throughs and overtails streams

***Perfect***

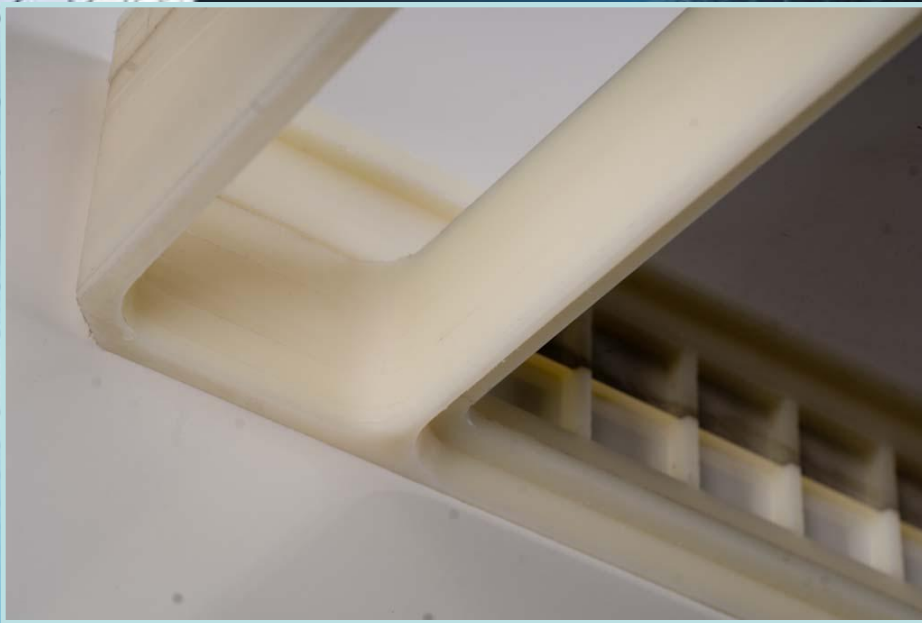
Sieve and sieve frame





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# ***Performance***

## Sieving surface

- ✓ Previous generation wood sieve = 4.33ft<sup>2</sup> (402.4mm<sup>2</sup>)

***Perfect***

Sieve and sieve frame



# ***Performance***

## Sieving surface



- ✓ Previous generation wood sieve = 4.33ft<sup>2</sup> (402.4mm<sup>2</sup>)
- ✓ New thermo-plastic sieve = 4.82ft<sup>2</sup> (448.45mm<sup>2</sup>)

***Surface Increase of 12%***

***Perfect***

Sieve and sieve frame





# Performance

Optimum combination: SFX modular sifter and Perfect Sieve



- ✓ Only one single SFX1030 is required to handle a 3150 cwt (190TPD) mill
- ✓ On 1st Bk Scalper allows a load of 3,75T/m<sup>2</sup> equivalent to an increase of 21,8% compared to previous generation sieves
- ✓ On rebolt allows a load of 1,90T/m<sup>2</sup> equivalent to an increase of 23,4% compared to previous generation sieves
- ✓ Perfect sieves are also compatible with older generation Ocrim's sifters

**Perfect**

Sieve and sieve frame



Play the right card,  
choose **OCRIM**



**Thank you**

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