MARKET TRENDS IN SPAIN & PORTUGAL

AN INDUSTRY POINT OF VIEW

Webinar of Ductwork airtightness, 25/01/2018
Rodrigo Sanz

Introduction

- Since 1986 in Barcelona
- Our group
  - Plastic Ductwork
  - Ventilation Systems
  - Metallic Ductwork
- Members of
- Integration in Technical Comitee in
Need to align the concepts!

Legislation for the Energy Performance

Indoor Air Quality (IAQ)

MEV & MVHR Ventilation Strategies

Systems & Products technologies

Legislation

EPBD (Recast)

ECODESIGN

Healthiness

Energy efficiency

Legislation for the Energy Performance

Year 2002
- UE: New Directive
- Spain: Existing norm
- Portugal: Existing norm

Year 2006-07
- UE: Existing norm
- Portugal: D.L. 144/2007

Year 2009-10
- UE: New Directive
- Spain: Existing norm
- Portugal: Existing norm

Year 2013-15
- UE: Existing norm
- Spain: Existing norm
- Portugal: Decreto-Lei 232/2015

Directives:
- Directive 2002/91/CE ECODESIGN
- Directive 2009/125/EC EPBD (Recast)
- Directive 2010/31/UE
Healthy homes in air tight buildings

Indoor Air Quality (IAQ)

Ventilation Strategies

MEV & MVHR Ventilation Strategies

Windows
MEV & MVHR Ventilation Strategies

- Grilles
- Extract Fan
Ventilation Strategies

Self-Balanced Ventilation System

Humidity-Sensitive Ventilation System
Ventilation Strategies

- MEV & MVHR Ventilation Strategies
- Poorly designed air distribution systems

Systems & Products Technologies

- Poorly designed air distribution systems
Poorly installed air distribution system or bad product choice

Leakage consequences

- Entry of Pollutants
- Filtration to unconditional spaces
- System’s sizing
- Thermal loss
- Air distribution
- Noise
Best practises are needed

- BEST PRACTISE design principles to minimise pressure loss

- BEST PRACTISE installing principles to avoid leakage in connections

We offer solutions in plastic ductwork systems

**Tubpla® Pure StancoFix**

- Integrated air-tight seals
- Mechanical connections
- Extremely easy and quick to install
- Cost saving
- Extremely Airtight Class D according to EN 12237
Benefits for better practise of Tubpla®Pure StancoFix

- The widest range of plastic air-tight mechanical connections ductwork.
- Antibacterial and Antistatic duct!
- Preventing diseases
- Avoiding dust embeded into the duct and preserving stocked ducts

<table>
<thead>
<tr>
<th>SIZES (mm)</th>
<th>SYSTEM 100</th>
<th>SYSTEM 125</th>
<th>SYSTEM 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 150</td>
<td>Ø 125</td>
<td>Ø 100</td>
<td></td>
</tr>
<tr>
<td>180x90</td>
<td>140x65</td>
<td>130x65</td>
<td></td>
</tr>
</tbody>
</table>

FLOWS (m³/h):
- Maximum *= 240
- Minimum ** = 100

*= Air speed ~ 3 m/s
**= Air speed ~ 2 m/s

Tubpla® Airtight Pure, integrating value in the concepts!
..., bitting for a better practise

Thank you!