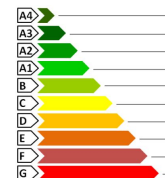




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According to the functional responsibility, **EDILTEC S.R.L. CERTIFIES** that **X-FOAM WR<sup>®</sup> OSB**:

- ✓ Is carefully and frequently monitored in relation to both qualitative, physical, mechanical and dimensional parameters, in order to respect our internal specifications and the values declared in our literature.
- ✓ That, as a company that maintains a quality system certified according to UNI EN ISO 9001:2008, X-FOAM<sup>®</sup> WR OSB (prefabricated sandwich panel consisting on insulating panel X-FOAM<sup>®</sup> finished with OSB on both sides), has the following performance characteristics:
  - Thickness OSB: **10 mm**
  - Specific heat X-FOAM<sup>®</sup>: **1450 J/kgK**
  - Overall density X-FOAM<sup>®</sup>: **31 kg/m<sup>3</sup>**
  - Declared thermal resistance at 10 °C of the thermal insulation X-FOAM<sup>®</sup>, according with the European Standard EN 13164:2012+A1:2015:

Thickness (mm)	30	40	50	60	80	100	120	140	160	180
R <sub>D</sub> (m <sup>2</sup> K/W)	<b>0,90</b>	<b>1,20</b>	<b>1,45</b>	<b>1,75</b>	<b>2,25</b>	<b>2,85</b>	<b>3,30</b>	<b>4,15</b>	<b>4,70</b>	<b>5,25</b>

- Compressive strength at 10% of deformation of thermal insulation X-FOAM<sup>®</sup>, according with the European Standard EN 13164:2012+A1:2015: **≥ 200 kPa**
  - Water vapour diffusion resistance factor (μ) of thermal insulation X-FOAM<sup>®</sup>, according with the European Standard EN 13164:2012+A1:2015: **80**
  - Reaction to fire of thermal insulation X-FOAM<sup>®</sup>, according with the European Standard EN 13501-1: **Euroclass E**
- ✓ After realizing the appropriate thermal calculations, considering the materials that compose the panel, it's estimated that the Total Thermal Resistance values of X-FOAM<sup>®</sup> WR OSB are the follow:

Total thickness (mm)	50	60	70	80	100	120	140	160	180	200
[OSB+X-FOAM+OSB]	[10+30+10]	[10+40+10]	[10+50+10]	[10+60+10]	[10+80+10]	[10+100+10]	[10+120+10]	[10+140+10]	[10+160+10]	[10+180+10]
R <sub>D</sub> (m <sup>2</sup> K/W)	<b>1,05</b>	<b>1,35</b>	<b>1,60</b>	<b>1,90</b>	<b>2,40</b>	<b>3,00</b>	<b>3,45</b>	<b>4,30</b>	<b>4,85</b>	<b>5,40</b>

Modena, 28 May 2018

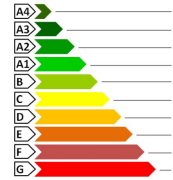
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This certificate has been revised on 28/05/2018 and remains valid until the technical reference standard or the production conditions in the factory or the production control itself are significantly modify



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According to the functional responsibility, **EDILTEC S.R.L. CERTIFIES** that **X-FOAM WR® TOP**:

- ✓ Is carefully and frequently monitored in relation to both qualitative, physical, mechanical and dimensional parameters, in order to respect our internal specifications and the values declared in our literature.
- ✓ That, as a company that maintains a quality system certified according to UNI EN ISO 9001:2008, X-FOAM® WR TOP (prefabricated sandwich panel consisting on insulating panel X-FOAM® finished with OSB on the bottom side and a FIR layer on the top one), has the following performance characteristics:
  - Thickness OSB: **10 mm**
  - Thickness FIR: **12 mm**
  - Specific heat X-FOAM®: **1450 J/kgK**
  - Overall density X-FOAM®: **31 kg/m<sup>3</sup>**
  - Declared thermal resistance at 10 °C of the thermal insulation X-FOAM®, according with the European Standard EN 13164:2012+A1:2015:

Spessore (mm)	30	40	50	60	80	100	120	140	160	180
R <sub>D</sub> (m <sup>2</sup> K/W)	<b>0,90</b>	<b>1,20</b>	<b>1,45</b>	<b>1,75</b>	<b>2,25</b>	<b>2,85</b>	<b>3,30</b>	<b>4,15</b>	<b>4,70</b>	<b>5,25</b>

- Compressive strenght at 10% of deformation of thermal insulation X-FOAM®, according with the European Standard EN 13164:2012+A1:2015: **≥ 200 kPa**
  - Water vapour diffusion resistance factor (μ) of thermal insulation X-FOAM®, according with the European Standard EN 13164:2012+A1:2015: **80**
  - Reaction to fire of thermal insulation X-FOAM®, according with the European Standard EN 13501-1: **Euroclass E**
- ✓ After realizing the appropriate thermal calculations, considering the materials that compose the panel, it's estimated that the Total Thermal Resistance values of X-FOAM® WR TOP are the follow:

Total thickness	52	62	72	82	102	122	142	162	182	202
[OSB+X-FOAM+ABETE]	[10+30+12]	[10+40+12]	[10+50+12]	[10+60+12]	[10+80+12]	[10+100+12]	[10+120+12]	[10+140+12]	[10+160+12]	[10+180+12]
(mm)										
R <sub>D</sub> (m <sup>2</sup> K/W)	<b>1,07</b>	<b>1,37</b>	<b>1,62</b>	<b>1,92</b>	<b>2,42</b>	<b>3,02</b>	<b>3,47</b>	<b>4,32</b>	<b>4,87</b>	<b>5,42</b>

Modena, 28 May 2018

EDILTEC S.r.l.

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