

# 1- ROCKAL FOAM (28 : 30 ) Kg/m<sup>3</sup>

Its divided according its shape to:

## A – Normal (N)



- Length = 1210 mm (±5)
- Width = 610 mm (+3 / -0.0)
- Thickness = ( 25 , 30 , 40 , 50 , 60 .....up to 100 ) mm

## B –Shiplap (SL)



- Length = 1210 mm (±5)
- Width = 610 mm (+3 / -0.0)
- Thickness = (30 , 40 , 50 ) mm

## Flammability:

- All items can be produced by using Non-flammable gas as blowing agent and Flame Retardant Additives.

**Typical Physical Properties - ROCKAL FOAM XPS insulation boards**

<b>S.NO.</b>	<b>Properties</b>	<b>Test Method</b>	<b>Unit</b>	<b>ROCKAL FOAM</b>
1	Density, min.	ASTM D 1622	Kg/m <sup>3</sup>	28- 30
2	Thermal Conductivity (K)	ASTM C 518	w/mok	0.028
3	Compressive Strength at 10% deflection, min	ASTM D 1621 / ASTM C 165	kPa	180
4	Flexural Strength, min	ASTM C203, Method I, Procedure B.	kPa	345
5	Water Absorption by Submersion, min.	ASTM D 2842 / ASTM C272	% by vol.	0.30
6	Water Vapour Permeance, max	ASTM C 355 / ASTM E 96	Perm/inch	1.50
7	"Dimensional Stability (Change in dimension), max."	ASTM D 2126	%	2.00
8	Oxygen Index, min.	ASTM D 2863	Vol., %	24
9	Fire Classification according to ASTM E84, standard method for Surface Burning Characteristics of Building Material under designation ASTM C578	ASTM E 84	/	class 1 or A 1
10	Classification Type	ASTM C 578	/	IX

ROCKAL FOAM XPS insulation boards is following the ASTM Standard C 578.  
 The information in this Technical Data Sheet is given to the best of our knowledge. However, as the product is often used under conditions beyond our control, we cannot guarantee but the product it self.  
 We reserve the possibility to change, without warning, the technical characteristics in order to make the product more responding to the application requirements.

## 2- ROCKAL FOAM Plus (31 : 34 ) Kg/m<sup>3</sup>

Its divided according its shape to:

### A – Normal (N)



- Length = 1210 mm ( $\pm 5$ )
- Width = 610 mm (+3 / -0.0)
- Thickness = ( 25 , 30 , 40 , 50 , 60 .....up to 100 ) mm

### B –Shiplap (SL)



- Length = 1210 mm ( $\pm 5$ )
- Width = 610 mm (+3 / -0.0)
- Thickness = (30 , 40 , 50 ) mm

### Flammability:

- All items can be produced by using Non-flammable gas as blowing agent and Flame Retardant Additives.

**Typical Physical Properties - ROCKAL FOAM Plus XPS insulation boards**

<b>S.NO.</b>	<b>Properties</b>	<b>Test Method</b>	<b>Unit</b>	<b>ROCKAL FOAM Plus</b>
1	Density, min.	ASTM D 1622	Kg/m <sup>3</sup>	31 - 34
2	Thermal Conductivity (K)	ASTM C 518	w/mok	0.025
3	Compressive Strength at 10% deflection, min	ASTM D 1621 / ASTM C 165	kPa	300
4	Flexural Strength, min	ASTM C203, Method I, Procedure B.	kPa	414
5	Water Absorption by Submersion, min.	ASTM D 2842 / ASTM C272	% by vol.	0.30
6	Water Vapour Permeance, max	ASTM C 355 / ASTM E 96	Perm/inch	1.10
7	"Dimensional Stability (Change in dimension), max."	ASTM D 2126	%	2.00
8	Oxygen Index, min.	ASTM D 2863	Vol., %	24
9	Fire Classification according to ASTM E84, standard method for Surface Burning Characteristics of Building Material under designation ASTM C578	ASTM E 84	/	class 1 or A 1
10	Classification Type	ASTM C 578	/	VI

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### 3 - ROCKAL FOAM Standard (35 : 36 ) Kg/m<sup>3</sup>

Its divided according its shape to:

#### A – Normal (N)



- Length = 1210 mm ( $\pm 5$ )
- Width = 610 mm (+3 / -0.0)
- Thickness = ( 25 , 30 , 40 , 50 , 60 .....up to 100 ) mm

#### B –Shiplap (SL)



- Length = 1210 mm ( $\pm 5$ )
- Width = 610 mm (+3 / -0.0)
- Thickness = (30 , 40 , 50 ) mm

#### Flammability:

- All items can be produced by using Non-flammable gas as blowing agent and Flame Retardant Additives.

**Typical Physical Properties - ROCKAL FOAM Standard XPS insulation boards**

<b>S.NO.</b>	<b>Properties</b>	<b>Test Method</b>	<b>Unit</b>	<b>ROCKAL FOAM Standard</b>
1	Density, min.	ASTM D 1622	Kg/m <sup>3</sup>	35- 36
2	Thermal Conductivity (K)	ASTM C 518	w/mok	0.023
3	Compressive Strength at 10% deflection, min	ASTM D 1621 / ASTM C 165	kPa	500
4	Flexural Strength, min	ASTM C203, Method I, Procedure B.	kPa	517
5	Water Absorption by Submersion, min.	ASTM D 2842 / ASTM C272	% by vol.	0.30
6	Water Vapour Permeance, max	ASTM C 355 / ASTM E 96	Perm/inch	1.10
7	"Dimensional Stability (Change in dimension), max."	ASTM D 2126	%	2.00
8	Oxygen Index, min.	ASTM D 2863	Vol., %	24
9	Fire Classification according to ASTM E84, standard method for Surface Burning Characteristics of Building Material under designation ASTM C578	ASTM E 84	/	class 1 or A 1
10	Classification Type	ASTM C 578	/	VII

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## 4 - ROCKAL FOAM Pro (37 : 40 ) Kg/m<sup>3</sup>

Its divided according its shape to:

### A – Normal (N)



- Length = 1210 mm ( $\pm 5$ )
- Width = 610 mm (+3 / -0.0)
- Thickness = ( 25 , 30 , 40 , 50 , 60 .....up to 100 ) mm

### B –Shiplap (SL)



- Length = 1210 mm ( $\pm 5$ )
- Width = 610 mm (+3 / -0.0)
- Thickness = (30 , 40 , 50 ) mm

### Flammability:

- All items can be produced by using Non-flammable gas as blowing agent and Flame Retardant Additives.

**Typical Physical Properties - ROCKAL FOAM Pro XPS insulation boards**

<b>S.NO.</b>	<b>Properties</b>	<b>Test Method</b>	<b>Unit</b>	<b>ROCKAL FOAM Pro</b>
1	Density, min.	ASTM D 1622	Kg/m <sup>3</sup>	37 - 40
2	Thermal Conductivity (K)	ASTM C 518	w/mok	0.020
3	Compressive Strength at 10% deflection, min	ASTM D 1621 / ASTM C 165	kPa	700
4	Flexural Strength, min	ASTM C203, Method I, Procedure B.	kPa	517
5	Water Absorption by Submersion, min.	ASTM D 2842 / ASTM C272	% by vol.	0.30
6	Water Vapour Permeance, max	ASTM C 355 / ASTM E 96	Perm/inch	1.10
7	"Dimensional Stability (Change in dimension), max."	ASTM D 2126	%	2.00
8	Oxygen Index, min.	ASTM D 2863	Vol., %	24
9	Fire Classification according to ASTM E84, standard method for Surface Burning Characteristics of Building Material under designation ASTM C578	ASTM E 84	/	class 1 or A 1
10	Classification Type	ASTM C 578	/	VII

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