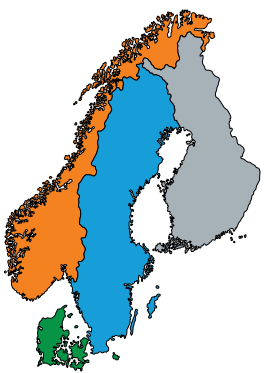




with ECOSE[®] TECHNOLOGY



01.10.2011



Nordic Retail Product Guide



energy saving



warmth



quietness



fire protection



sustainability

with **ECOSE**[®]
TECHNOLOGY

A revolutionary technology with an environmentally friendly process that creates better insulation materials. Without colour additives and with a naturally brown colour.

SPACE
INSULATION

THE INSULATION OF THE FUTURE HAS LANDED

SOFTER
CLEANER
SMARTER



A NEW GENERATION OF INSULATION

New Space Insulation is essentially softer and odourless which makes your handling far more pleasant compared to working with conventional mineral wool. ECOSE[®] Technology makes your choice a more sustainable alternative for your home and the environment.

KNAUF INSULATION
it's time to save energy

Knauf Insulation Introduction

Knauf Insulation is part of the Knauf Group of Companies, a family owned global building material business with annual revenue in excess of €5 billion.

As one of the world's leading insulation manufacturers, we are active in more than fifty countries and have over thirty manufacturing sites producing glass and rock mineral wool, extruded polystyrene (XPS), expanded polystyrene (EPS), extruded polyethylene (XPE) and also wood wool products.

The Knauf Insulation business in Northern Europe is based in St Helens, England, supplying a wide range of insulation products and design services to Denmark, Sweden, Norway, Finland, United Kingdom, and Ireland. From our factories in Europe, we produce insulation of the highest quality along with customer service to continually enhance industry standards.

Our investment in research and development has created an unrivalled portfolio of highly sustainable energy efficiency products. The use of ECOSE® Technology enables Knauf Insulation to offer mineral wool with superior environmental credentials. Furthermore our 'compression packaging' and 'blowing wool' technology leads the insulation industry.

Recognising that the Nordic region has unique insulation requirements, Knauf Insulation provides a range of products to suit local construction methods and also offer innovative new solutions to provide comfort and energy efficiency. Long term, equal value partnerships with our customers is an integral part of our approach.



Glass Mineral Wool



Rock Mineral Wool



Blowing Glass Mineral Wool



XPS & XPE

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Space Roll er udviklet til at

opfylde gør-det-selv-kundernes behov for et glasuldsprodukt, der kan anvendes til isolering af mange forskellige konstruktioner. Det er en fleksibelt, let og ikke-brændbar isolering.



Space Rolls on suunniteltu

täyttämään tee-se-itse-asiakkaiden vaatimukset. Se on joustava, kevyt ja palamaton lasimineraalivillatuote, joka sopii moniin erilaisiin rakenteisiin



Space Roll er utviklet for gjør-det-selv (DIY) kunder. Produktet er basert på glassull og kan brukes til mange formål. Rullene er fleksible, lette og ikke-brennbare.



Space Rolls är utformade för att

passa kunder som bygger själva. Det är en glasullsprodukt med många användningsområden, som är flexibel, lättviktig och brandsäker.



Space Rolls are designed to meet

the needs of DIY customers offering a glass mineral wool product capable of use in multiple applications. They are flexible, lightweight and non-combustible.



Dimensions - Space Roll

Thickness	Length	Width	R-value	Lambda	Product code	Rolls per pack	Packs per pallet	Area per pack	Area per pallet	Area per load	Pallets per load
(mm)	(mm)	(mm)	(m ² K/W)	(W/mK)				(m ²)	(m ²)	(m ²)	
45	18000	960	1.20	0.037	2413632	1	28	17.28	483.8	9676.8	20
70	11500	960	1.85	0.037	2413635	1	28	11.04	309.1	6182.4	20
95	8450	960	2.55	0.037	2413637	1	28	8.11	227.1	4542.7	20
120	7000	960	3.20	0.037	2413639	1	28	6.72	188.2	3763.2	20
145	5800	960	3.90	0.037	2413641	1	28	5.57	155.9	3118.1	20
195	4300	960	5.25	0.037	2413643	1	28	4.13	115.6	2311.7	20
45	19840	960	1.15	0.039	2437902	1	28	19.05	1066.6	21332.0	20
70	16000	960	1.75	0.039	2413669	1	28	15.36	430.1	8601.6	20
95	11700	960	2.40	0.039	2413671	1	28	11.23	314.5	6289.9	20
120	9300	960	3.05	0.039	2413673	1	28	8.93	250.0	4999.7	20
145	7400	960	3.70	0.039	2413675	1	28	7.10	198.9	3978.2	20

All dimensions are nominal



Dimensions - Space Roll

Thickness	Length	Width	R-value	Lambda	Product code	Rolls per pack	Packs per pallet	Area per pack	Area per pallet	Area per load	Pallets per load
(mm)	(mm)	(mm)	(m ² K/W)	(W/mK)				(m ²)	(m ²)	(m ²)	
50	22000	2x570	1.25	0.039	2408100	2	24	25.08	601.9	12038.4	20
70	16000	2x570	1.75	0.039	2408103	2	24	18.24	437.8	8755.2	20
100	11000	2x570	2.55	0.039	2408104	2	24	12.54	301.0	6019.2	20
125	8950	2x570	3.20	0.039	2416494	2	24	10.20	244.9	4897.4	20
150	7200	2x570	3.80	0.039	2413848	2	24	8.21	197.0	3939.8	20

All dimensions are nominal



Dimensions - Space Roll

Thickness	Length	Width	R-value	Lambda	Product code	Rolls per pack	Packs per pallet	Area per pack	Area per pallet	Area per load	Pallets per load
(mm)	(mm)	(mm)	(m ² K/W)	(W/mK)				(m ²)	(m ²)	(m ²)	
50	22000	2x570	1.25	0.039	2408100	1	24	25.08	601.9	12038.4	20
70	16000	2x570	1.75	0.039	2408103	1	24	18.24	437.8	8755.2	20
100	11000	2x570	2.55	0.039	2408104	1	24	12.54	301.0	6019.2	20
120	9300	2x570	3.05	0.039	2413846	1	24	10.60	254.4	5089.0	20
150	7200	2x570	3.80	0.039	2413848	1	24	8.21	197.0	3939.8	20
50	16800	2x570	1.35	0.037	2413858	1	24	19.15	459.6	9193.0	20
70	11500	2x570	1.85	0.037	2411884	1	24	13.11	314.6	6292.8	20
100	8400	2x570	2.70	0.037	2413861	1	24	9.58	229.8	4596.5	20
150	5450	2x570	4.05	0.037	2411885	1	24	6.21	149.1	2982.2	20
200	4200	2x570	5.40	0.037	2411886	1	24	4.79	114.9	2298.2	20

Each roll is partially cut so that it can be divided into 2 rolls, each with a width of 570mm, or used as a roll with a width of 1140mm.
All dimensions are nominal



Dimensions - Space Roll

Thickness	Length	Width	R-value	Lambda	Product code	Rolls per pack	Packs per pallet	Area per pack	Area per pallet	Area per load	Pallets per load
(mm)	(mm)	(mm)	(m ² K/W)	(W/mK)				(m ²)	(m ²)	(m ²)	
45	19840	2x565	1.15	0.039	2411959	1	30	22.42	672.6	13451.5	20
70	16000	2x565	1.75	0.039	2411961	1	24	18.08	433.9	8678.4	20
95	11700	2x565	2.40	0.039	2411928	1	24	13.22	317.3	3646.1	20
120	9300	2x565	3.05	0.039	2411963	1	24	10.51	252.2	5044.3	20
145	7400	2x565	3.70	0.039	2411966	1	24	8.36	200.7	4013.8	20
170	6500	2x565	4.35	0.039	2411969	1	24	7.35	176.3	3525.6	20
195	5400	2x565	5.00	0.039	2415500	1	24	6.10	146.4	2929.0	20
[§] 195	4300	2x565	5.25	0.037	2413725	1	24	4.86	116.6	2332.3	20

All dimensions are nominal. [§]Minimum order quantity applies and extended lead times. Each roll is cut so that it can be divided into two rolls with a width of 565 mm, or used as one roll with a width of 1,130 mm

 Space Slab er udviklet til at opfylde gør-det-selv-kundernes behov for et glasuldsprodukt, der kan anvendes til isolering af mange forskellige konstruktioner. Det er en fleksibelt, let og ikke-brændbart isolering.

 Space Slabs on suunniteltu täyttämään tee-se-itse-asiakkaiden vaatimukset. Se on joustava, kevyt ja palamaton lasimateriaalivillatuote, joka sopii moniin erilaisiin rakenteisiin.

 Space Slabs er utviklet for gjør-det-selv (DIY) kunder. Produktet er basert på glassull og kan brukes til mange formål. Platene er fleksible, lette og ikke-brennbare.

 Space Slabs är utformade för att passa kunder som bygger själva. Det är en glasullsprodukt med många användningsområden, som är flexibel, lättviktig och brandsäker.

 Space Slabs are designed to meet the needs of DIY customers offering a glass mineral wool product capable of use in multiple applications. They are flexible, lightweight and non-combustible.



Dimensions - Space Slab

Thickness	Length	Width	R-value	Lambda	Product code	Slabs per pack	Packs per pallet	Area per pack	Area per pallet	Area per load	Pallets per load
(mm)	(mm)	(mm)	(m ² K/W)	(W/mK)				(m ²)	(m ²)	(m ²)	
45	900	600	1.20	0.037	2413619	20	16	10.80	172.8	4147.2	24
70	900	600	1.85	0.037	2413621	16	16	8.64	138.2	3317.8	24
95	980	560	2.55	0.037	2413623	12	16	6.59	105.4	2528.9	24
120	980	560	3.20	0.037	2413625	10	16	5.49	87.8	2107.4	24
145	980	560	3.90	0.037	2413627	8	16	4.39	70.2	1685.9	24
195	980	560	5.25	0.037	2413629	6	16	3.29	52.7	1264.4	24

All dimensions are nominal



Dimensions - Space Slab

Thickness	Length	Width	R-value	Lambda	Product code	Slabs per pack	Packs per pallet	Area per pack	Area per pallet	Area per load	Pallets per load
(mm)	(mm)	(mm)	(m ² K/W)	(W/mK)				(m ²)	(m ²)	(m ²)	
50	1170	570	1.25	0.039	245101	16	16	10.67	170.7	3414.5	20
70	1170	570	1.75	0.039	245103	12	16	8.00	128.0	2560.9	20
100	1170	570	2.55	0.039	245105	12	16	8.00	128.0	2560.9	20
125	1170	570	3.20	0.039	245107	12	16	8.00	128.0	2560.9	20
150	1170	570	3.80	0.039	245109	8	16	5.34	85.4	1707.2	20
50	1170	570	1.40	0.035	2416361	16	16	10.67	170.7	3414.5	20
70	1170	570	2.00	0.035	2416367	12	16	8.00	128.0	2560.9	20
100	1170	570	2.85	0.035	2416369	8	16	5.34	85.4	1707.3	20
[§] 125	1170	570	3.55	0.035	2416371	6	16	4.00	64.0	1280.4	20
[§] 150	1170	570	4.25	0.035	2416373	5	16	3.33	53.4	1067.0	20
[§] 175	1170	570	5.00	0.035	2416375	4	16	2.67	42.7	853.6	20

All dimensions are nominal. [§]Minimum order quantity applies.



Dimensions - Space Slab

Thickness	Length	Width	R-value	Lambda	Product code	Slabs per pack	Packs per pallet	Area per pack	Area per pallet	Area per load	Pallets per load
(mm)	(mm)	(mm)	(m ² K/W)	(W/mK)				(m ²)	(m ²)	(m ²)	
50	1200	570	1.35	0.037	2413828	16	16	10.94	175.1	3502.1	20
70	1200	570	1.85	0.037	2413832	16	16	10.94	175.1	3502.1	20
100	1200	570	2.70	0.037	2441514	12	16	8.21	131.3	2627.0	20
150	1200	570	4.05	0.037	2413838	8	16	5.47	87.6	1751.0	20
170	1200	570	4.55	0.037	2413840	6	16	4.10	65.7	1313.3	20
200	1200	570	5.40	0.037	2413843	6	16	4.10	65.7	1313.3	20

Also available in other sizes and with lambda (λ) value of 0.039
All dimensions are nominal



Dimensions - Space Slab

Thickness	Length	Width	R-value	Lambda	Product code	Slabs per pack	Packs per pallet	Area per pack	Area per pallet	Area per load	Pallets per load
(mm)	(mm)	(mm)	(m ² K/W)	(W/mK)				(m ²)	(m ²)	(m ²)	
45	1160	565	1.20	0.037	2413734	20	16	13.11	209.7	4194.6	20
70	1160	565	1.85	0.037	2413736	16	16	10.49	167.8	3355.6	20
95	1160	565	2.55	0.037	2413738	12	16	7.86	125.8	2516.7	20
120	1160	565	3.20	0.037	244514	12	16	7.86	125.8	2516.7	20
145	1160	565	3.90	0.037	2413745	8	16	5.24	83.9	1677.8	20
170	1160	565	4.55	0.037	2413748	6	16	3.93	62.9	1258.4	20
195	1160	565	5.25	0.037	2413750	6	16	3.93	62.9	1258.4	20
220	1160	565	5.90	0.037	239913	4	16	2.62	41.9	839	20

All dimensions are nominal

 Space Blanket er et indkapslet glasuldsprodukt i rulleform beregnet til termisk isolering af lofter.

 Space Blanket on koteloitu lasimineraalivillarulla, joka on suunniteltu sisäkattojen lämpöeristeeksi ullakolla.

 Space Blanket er en innkapslet rull med glassull som er beregnet på termisk isolering av skråtak på loft fra insiden.

 Space Blanket är en inkapslad glasullsrulle som är utformad för att värmeisolera sluttande tak på innetaksnivå.

 Space Blanket is an encapsulated glass mineral wool roll designed to thermally insulate pitched roofs at ceiling level.



Dimensions - Space Blanket

Thickness	Length	Width	R-value	Lambda	Product code	Rolls per pack	Packs per pallet	Area per roll	Area per pallet	Area per load	Pallets per load
(mm)	(mm)	(mm)	(m ² K/W)	(W/mK)				(m ²)	(m ²)	(m ²)	
100	8000	370	2.25	0.044	2400965	18	54	2.96	159.8	3196.8	20
150	5330	370	3.40	0.044	2400316	18	54	1.97	106.5	2129.9	20
200	4000	370	4.50	0.044	2400317	18	54	1.48	79.9	1598.4	20

All dimensions are nominal

Glass Mineral Wool - Rolls

Lydisoleringsrulle/Äänieristysrulla/Lydrull/Ljudisolerande rulle/Acoustic Roll

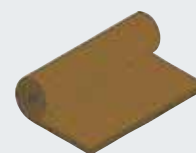
 Lydisoleringsrulle er en fleksibel glasuldsmåtte, som er let, fleksibel og ikke-brændbar. Rullerne er 1200 mm brede og kan let skæres til 2. stk. 600 mm brede ruller.

 Äänieristysrulla on monipuolinen lasimineraalivillamatto, joka on kevyt, joustava ja joustava ja palamaton. Rullat ovat 1200 mm leveitä ja leikattu valmiiksi kahdeksi 600 mm leveäksi rullaksi.

 Lydrull er en fleksibel rull av glassull som er lett, fleksibel, fjærende og ikke-brennbar. Rullene er 1200 mm brede og kan enkelt kuttes til to 600 mm brede ruller.

 En flexibel glasullsmatta som är lättviktig, flexibel, elastisk och brandsäker. Rullarna är 1200 mm breda och kan lätt skäras till två rullar med en bredd på 600 mm.

 Acoustic Roll is a flexible glass mineral wool quilt which is lightweight, flexible, resilient and non-combustible. The rolls are 1200mm wide and ready cut to 2 rolls 600mm wide




Dimensions - Acoustic Roll

Thickness	Length	Width	Product code	Rolls per pack	Packs per pallet	Area per pack	Area per pallet	Area per load	Pallets per load
(mm)	(mm)	(mm)				(m ²)	(m ²)	(m ²)	
25	10000	4x600	2400366	1	24	24.00	576.0	11520.0	20
50	13000	2x600	2400365	1	24	15.60	374.4	7488.0	20
75	7000	2x600	2400364	1	24	8.40	201.6	4032.0	20
100	6500	2x600	2400363	1	24	7.80	187.2	3744.0	20

All dimensions are nominal

Isolasjonsrull med papir/Byggmatta/pappersbeklädd/ Paper Faced Building Roll

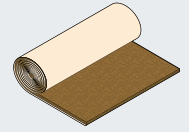
 En papirbeklädd glasuld rulle, som er let, fleksibel og ikke-brændbar med fremragende lydisolering.

 Kevyt, joustava, sekä erinomaisesti ääntä eristävä paperipintainen lasimineraalivillarulla.

 En papirkledd rull av glassull som er lett, fleksibel, fjærende og med fremragende lydisoleringsevne.

 En pappersbeklädd glasullsrulle som är lättviktig, flexibel, samt har utmärkt ljudabsorption.

 A paper faced glass mineral wool roll which is lightweight, flexible, resilient and has excellent sound resistance.





Dimensions - Building Roll

Thickness	Length	Width	R-value	Lambda	Product code	Rolls per pack	Packs per pallet	Area per pack	Area per pallet	Area per load	Pallets per load
(mm)	(mm)	(mm)	(m ² K/W)	(W/mK)				(m ²)	(m ²)	(m ²)	
45	11000	1200	1.25	0.036	2412668	1	24	13.20	316.8	6336	20
95	5500	1200	2.64	0.036	2412665	1	24	6.60	158.4	3168	20

All dimensions are nominal

Drev/Dyttestrimmel/Fugefilt

 Smalle strimler af glasuld velegnet til brug ved stopning af fuger omkring vinduer, døre eller andre bygningsdele.

 Kapeat lasimineraalivillasuikaleet soveltuvat tilkitsemiseen ja tiivistämiseen, ikkunoiden, ovien ja muiden rakennuselementtien ympärille.

 Smale remser av glassull som egner seg for tetting rundt vinduer, dører og andre bygningselementer.

 Smala remisar av glasull som passar för tätning runt fönster, dörrar och andra byggnadsselement.

 Narrow strips of glass mineral wool suitable for caulking, sealants, around windows, doors or other building.




Dimensions - Drev

Thickness	Length per roll	Width	R-value	Lambda	Product code	Rolls per pack	Packs per pallet	Linear length per roll	Linear length per pack	Linear length per pallet	Pallets per load
(mm)	(mm)	(mm)	(m ² K/W)	(W/mK)				(LM)	(LM)	(LM)	
25	10000	2x60	0.65	0.037	2410436	20	7	20	400	2800	40
25	10000	2x140	0.65	0.037	2416379	8	7	20	160	1120	40

All dimensions are nominal


Duct Roll

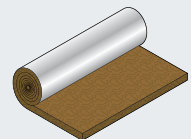
 Duct Roll er en stærk, fleksibel rulle af ikke-brændbart glasuld beklædt på den ene side med en blank aluminiumfolie i klasse 'O'.

 Duct Roll on vahva ja joustava rulla palamatonta lasimineraalivillaa, jonka toinen puoli on päällystetty kirkaalla O-luokan alumiinikalvolla.

 Duct Roll er en sterk, fleksibel rull med ikke-brennbar glassull belagt med en blank aluminiumsfolie av klasse 'O' på den ene siden.

 Duct Roll är en tätlig, flexibel rulle med brandsäker glasull som är beklädd med blank aluminiumfolie av klass "O" på ena sidan.

 Duct Roll is a strong, flexible roll of non-combustible, glass mineral wool with a bright class 'O' aluminium foil facing on one side.



Dimensions - Duct Roll

Thickness	Length	Width	R-value	Lambda	Product code	Rolls per pack	Packs per pallet	Area per roll	Area per pallet	Area per load	Pallets per load
(mm)	(mm)	(mm)	(m ² K/W)	(W/mK)				(m ²)	(m ²)	(m ²)	
50	9000	1200	1.50	0.033	2400372	1	18	10.80	194.4	3888.0	20

All dimensions are nominal. Minimum order one pallet.

Universal formstykker/Yleislevyt/Universalplater/ Universal skivor/Universal Ground Slabs

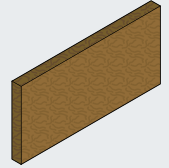
 En ikke-brændbar stenuldsisolering, der kan anvendes til en lang række varme- og lydisolerende opgaver i bygninger.

 Palamaton kivimateriaalilevy, jota voidaan käyttää rakennusten useissa erilaisissa lämpö- ja äänieristyssovelluksissa.

 Ikke-brennbare plater av steinull som kan brukes til en rekke varme- og lydisolerende formål i bygninger.

 En brandsäker stenullsskiva som kan användas till ett stort antal värme- och ljudisolering tillämpningar i byggnader.

 A non-combustible rock mineral wool Slab which can be used for a wide range of thermal and acoustic insulation applications in buildings.




Dimensions - Universal Ground Slab

Thickness	Length	Width	R-value	Lambda	Product code	Slabs per pack	Packs per pallet	Area per pack	Area per pallet	Area per load	Pallets per load
(mm)	(mm)	(mm)	(m ² K/W)	(W/mK)				(m ²)	(m ²)	(m ²)	
50	1200	600	1.40	0.035	2411446	4	12	2.88	34.56	967.68	28
75	1200	600	2.10	0.035	2411447	3	10	2.16	21.60	604.80	28
100	1200	600	2.85	0.035	2432553	2	12	1.44	17.28	483.84	28


All dimensions are nominal

Rock Mineral Wool - Rolls


Nätmatta/Mattress

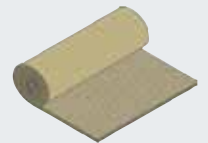
 Mattress består af ikke-brændbart stenuld, der på den ene side er beklædt med trådnæt af galvaniseret eller rustfrit stål. Dermed opnås en fast, men dog fleksibel isoleringsmätte til universalbrug.

 Mattress on palamatonta kivimateriaalilla, joka on toiselta puolelta päällystetty galvanoidulla tai ruostumattomalla teräsverkolla muodostaen lujan, joustavan ja monikäyttöisen eristekerroksen.

 Mattress er ikke-brennbare steinull som er belagt med galvanisert trådduk eller trådduk av rustfritt stål på den ene siden for å danne en fast, men fleksibel matte til generelle formål.

 En nätmatta som består av brandsäker stenull som på ena sidan är beklädd med galvaniserat eller rostfritt ståltrådnät. Detta ger en stadig men flexibel isolerande matta för universalanvändning.

 Mattress is non-combustible rock mineral wool faced on one side with galvanized or stainless steel wire mesh to form a firm but flexible general purpose insulating mattress.



Dimensions - Mattress

Thickness	Length	Width	Product code	Rolls per pack	Area per pack	Area per load	Rolls per load
(mm)	(mm)	(mm)			(m ²)	(m ²)	
30	6000	600	2412662	1	3.60	1728	480
50	4000	900	2361505	1	3.60	1728	480

All dimensions are nominal. Subject to minimum order quantities.

Loose Mineral Wool

JetStream



Knauf Insulation
JetStream

glasuldsgranulat til mekanisk indblæsning. Installeret typisk på åbne loftsarealer i både nye og eksisterende bygninger.



Knauf Insulationin
puhallettava

JetStream -lasivillaeriste asennetaan tavallisesti sekä uusien että olemassa olevien rakenteiden avoimiin kattotiloihin. Se voidaan asentaa myös harjakattoihin.



Knauf Insulation
JetStream blåseull

basert på glassull blir vanligvis brukt til isolasjon av bjelkelag og loft i både nye og eksisterende bygninger. Den kan også brukes i skråtak



Knauf Insulation
JetStream lösull för

inblåsning används vanligtvis i öppna bjälklag i både nya och befintliga byggnader. Den kan även användas i sluttande tak.



Knauf Insulation
JetStream glass

blowing wool insulation is typically installed in open roof spaces for both new and existing structures. It may also be installed in pitched roof applications.



Dimensions - JetStream

Product Code	Packs per pallet	Bag weight	Pallets per load
2413564	28	17.6kg	24

R-Fill



R-Fill er en løs
glasuldsgranulat

til manuel installation, og det anvendes primært som isolering på loftet.



R-Fill on irtonaista
lasimineraalivillaa

käsin asennettavaksi ja sitä käytetään lähinnä ullakolattoiden eristeenä.



R-Fill er en løs
glassull for manuell

installering. Den brukes primært til isolering av loft.



R-Fill är en lösull för
manuell utläggning

som används främst för isolering av vindsgolv.



R-Fill is a loose glass
mineral wool for

manual installation will be used primarily as insulation of the attic floor.



Dimensions - R - Fill

Product code	Packs per pallet	Weight per bag	Pallets per load
2411061	28	18.6kg	24


Subject to availability.

XPS Extra

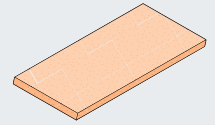
 XPS Extra er et 100 % ozonvenligt, hårdt isoleringsplade af ekstruderet polystyren. Det er let, men har fremragende trykstyrke og leveres med falsede kanter, der overlapper hinanden. Polyfoam ECO har et globalt opvarmingspotentiale på mindre end 5.

 XPS Extra on 100 % otsoniyästävällinen jäykkä suulakepuristettu polystyreenieristelevy. Se on kevyt, mutta silti sen rakennelujuus on erinomainen ja se toimitetaan puolipontatuilla reunoilla. Polyfoam ECO GWP (ilmaston lämpenemiskerroin) on alle 5.

 XPS Extra er 100 % ozonvennlige stive isolasjonsplater av ekstrudert polystyren. De er lette, men har likevel stor strukturstyrke og har falsede kanter som festes i hverandre. Polyfoam ECO har en drivhuseffekt som er mindre enn 5.

 XPS Extra är 100 % ozonvänliga, styva isoleringsskivor av extruderad polystyren. De är lättviktiga, men har samtidigt utmärkt hållfasthet och falsade interlock-kanter. Polyfoam ECO har ett GWP-värde på mindre än 5.

 XPS Extra is 100% ozone friendly extruded polystyrene, rigid board insulation. It is lightweight, yet has excellent structural strength and is supplied with interlocking rebated edges. Polyfoam ECO has a global warming potential less than 5.



Dimensions - XPS

Thickness	Length	Width	Thermal Conductivity	Product Code	Slabs per	Packs per pallet	Area per pack	Area per pallet	Area per load	Pallets per load
(mm)	(mm)	(mm)	(W/mK)				(m ²)	(m ²)	(m ²)	
*30 SE	1250	600	0.033	251211	14	24	10.50	252.0	2520	10
*50 SE	1250	600	0.033	246907	8	24	6.00	144.0	1440	10
*60 SE	1250	600	0.035	246807	8	20	6.00	120.0	1200	10
*70 SE	1250	600	0.035	2441450	6	24	4.50	10.80	1080	10
*80 SE	1250	600	0.035	2441361	6	20	4.50	90.0	900	10
*110 LJ	1250	600	0.035	246906	4	24	3.00	72.0	720	10
*120 LJ	1250	600	0.035	246904	4	20	3.00	60.0	600	10

All dimensions are nominal * Subject to extended lead time and minimum order quantity of 5 pallets as part of full load.



polyfoam[®]
rigid, yet versatile insulation
eco

Polyfoam[®] is a range of extruded polystyrene insulation products manufactured by Knauf Insulation. The boards are almost 100% closed cell, strong and highly moisture resistant.

The Polyfoam range is ideal for applications in the construction industry as they can be cut to shape, maximising versatility on site.

Polyfoam ECO products are manufactured in the UK and achieve a Global Warming Potential (GWP) of less than 5. The products are free from CFC's, HCFC's and any other ozone depletion potential in their manufacture and content.

Product Information Notes

Language				
EN	DK	FI	NO	SE
Area per load	Areal pr. læs	Pinta-ala/kuorma	Innhold pr last	Area per last
Area per pack	Areal pr. pakke	Pinta-ala/pakkaus	Innhold pr pakke	Area per förpackning
Area per pallet	Areal pr. palle	Pinta-ala/lava	Innhold pr pall	Area per lastpall
Lambda	Lambda	Lämmönjohtavuus	Varme konduktivitet	Värmeledning
Length	Længde	Pituus	Lengde	Längd
Packs per pallet	Pakker pr. palle	Pakkauksia/lava	Pakker pr pall	Förpackningar per lastpall
Pallets per load	Paller pr. læs	Lavoja/kuorma	Paller pr last	Lastpallar per last
Product code	Produkt kode	Tuotekoodi	Produkt kode	Produktkod
Rolls per pack	Ruller pr. pakke	Rullia/pakkaus	Ruller pr pakke	Rullar per förpackning
R-value	R-værdi	R-arvo	R-verdi	R-värde
Slabs per pack	Plader pr. pakke	Levyjä/pakkaus	Plater pr pakke	Skivor per förpackning
Thickness	Tykkelse	Paksuus	Tykkelse	Tjocklek
Width	Bredde	Leveys	Bredde	Bredd
Weight per bag	Vægt pr. sæk	Säkin paino	Vekt pr pakke	Vikt per säck

Service Guidelines



Bestillings- og leveringsinformation/Tilau- ja toimitustiedot/Bestillings- og leveringsinformasjon/
Beställnings- och leveransinformation/Ordering & Delivery Information



- Kun hele læs (Glasuld, Stenuld eller XPS)
- Minimum ordre kvantitet på 1. palle pr. varenummer, som del af et helt læs.
- En leveringsadresse
- 7. arbejdsdages leveringstid.
- Skriftlig ordre sendes til:



- Vain täysinkuormin (lasi, kivi ja / tai XPS)
- Minimitilauksmäärä on 1 lava per SKU osana täyttä kuormaa
- Yhteen toimitusosoitteeseen
- Toimitusaika 7 työpäivää
- Tilaukset tulee tehdä kirjallisesti







- Kun fulle trailerlass (glass, stein og / eller XPS)
- Minimum ordremengde er en palle av hvert produkt (SKU) som del av en full trailer.
- Til ett leveringssted
- Leveingstiden er 7 arbeidsdager
- Skriftlige ordre sendes til:



- Endast fullt billass (glasull, stenull och/eller XPS)
- Minsta orderkvantitet är 1 pall per artikelnummer som en del i fullt lass.
- Ett avlastningsställe
- Leveranstid 7 arbetsdagar
- Skriftliga beställningar skickas till:



- Full loads only (Glass, Rock and / or XPS)
- Minimum order quantity is 1 pallet per SKU as part of a full load
- To a single destination
- 7 to 10 working days lead time
- Orders should be in writing to:

 DK	 FI	 NO	 SE
Knauf Insulation A/S Kløvermarksvej 6 9500 Hobro Danmark	Knauf Insulation Box 184 401 23 Göteborg Ruotsi	Knauf Insulation Box 184 401 23 Göteborg Sverige	Knauf Insulation Box 184 401 23 Göteborg Sverige
orders@knauf-isolering.dk	nordic@knaufinsulation.com		



Kundeservice/Asiakaspalvelu/ Kundeservice /Kundtjänst/Customer Services

NO / SW / FI 08.30 – 17.00 (CET)

DK 08.00 – 16.00 (CET)













Vareprøver & Produktinformation/Näytteet ja tuotetiedot/ Prøver og produktinformasjon/ Prover och produktinformation/Samples & Product Information

Literature : www.knaufinsulation.no / se / fi / dk

Samples : info@knaufinsulation.com

Leveringszone/ Toimitusalue /Leveringssone/Leveranszon/Delivery Zones

-  Der skal påregnes fragtomkostninger i nogle Nordiske lande.
-  Kontakt venligst kundeservice for oplysninger om fragtomkostninger.
-  Toimitusmaksut voivat vaihdella alueittain pohjoismaissa.
-  Tarvittaessa voit tarkistaa tämän asiakaspalvelustamme tai web-sivuiltamme.
-  Ulike frakttilllegg kan gjelde for transportsoner i enkelte nordiske land.
-  Vennligst kontakt kundeservice eller se vår hjemmeside for å finne ut om dette vil gjelde for deg.
-  Olika transportkostnader kan tillkomma beroende på zon i de nordiska länderna.
-  Vänligen kontakta kundservice eller besök vår web.
-  Different delivery charges can apply to different delivery zones within some Nordic countries.
-  To see if this affects you, please enquire to customer services or visit our website.

GENERAL CONDITIONS OF SALE

1. Interpretation

In these Conditions

"Seller" means Knauf Insulation Limited (company number 1926842), PO Box 10, Stafford Road, St Helens, Merseyside WA10 3NS, United Kingdom.

"Buyer" means the person whose written order for the Goods is accepted by the Seller.

"Contract" means the contract for the sale and purchase of the Goods, incorporating these General Conditions of Sale.

"Goods" means any goods agreed in the Contract to be supplied to the Buyer by the Seller (including any part or parts of them).

"Service Guidelines" means the service guidelines issued by the Seller from time to time.

"Writing" and any similar expression includes facsimile transmission, electronic mail and EDI ("Electronic Data Interchange") but shall NOT include SMS or any other forms of electronic communication.

2. Basis of the Sale

2.1 Contracts and orders are accepted only subject to the Seller's General Conditions of Sale ("the Conditions") as set out herein to the exclusion of all other terms and conditions (including any terms or conditions which the Buyer purports to apply under any purchase order, confirmation of order, specification or other document). No modification or variation of these Conditions or the particulars contained in the Seller's acceptance shall be binding on the Seller unless expressly accepted by the Seller in Writing. Unless so agreed any qualification thereof or terms stipulated or referred to in the Buyer's own order forms shall be inapplicable.

2.2 Any advice or recommendation given by the Seller or its employees or agents to the Buyer or its employees or agents as to the storage, application or use of the Goods which is not confirmed in Writing by the Seller is followed or acted on entirely at the Buyer's own risk, and accordingly the Seller shall not be liable for any such advice or recommendation which is not so confirmed.

2.3 Any typographical, clerical or other error or omission in any sales literature, quotation, price list, acceptance of offer, invoice or other document or information issued by the Seller shall be subject to correction without any liability on the part of the Seller.

3. Orders and Specification

3.1 The quantity, quality and description of the Goods and any specification for them shall be as set out in the Seller's sales literature.

3.2 The Seller reserves the right to make any changes in the specification of the Goods which are required to conform with any applicable statutory or E.U. requirements or, where the Goods are to be supplied to the Seller's specification, which do not materially affect their quality or performance.

3.3 No order which has been accepted by the Seller may be cancelled by the Buyer except with the agreement in Writing of the Seller and on terms that the Buyer shall indemnify the Seller in full against all loss (including loss of profit), costs (including the cost of all labour and materials used), damages, charges and expenses incurred by the Seller as a result of cancellation.

3.4 The Buyer confirms that he relies on his own skill and judgment in determining the suitability of the Goods ordered for any particular purpose. The Seller gives no warranties as to the suitability of its Goods for any particular purpose. Unless agreed by the Seller otherwise in Writing, the Buyer is solely responsible for ensuring suitability of the Goods for his purposes.

3.5 All Goods supplied by the Seller are in accordance with the description stated in the product literature published and are subject to any tolerances stated in that literature. If the Goods are ordered by brand name the Seller reserves the right to substitute similar Goods which perform to the same standard.

3.6 Any quotation is given on the basis that no Contract shall come into existence until the Seller despatches an acknowledgement of order to the Buyer.

4. Prices

Prices quoted refer to the stipulated quantities only and will not necessarily hold good for other quantities. Unless otherwise stated all prices quoted are delivered prices to mainland UK or to mainland Eire as appropriate. VAT not included in the quotation or invoice will be added where and at the rate applicable.

5. Variation of Prices

The Seller reserves the right to alter the quoted prices of all or any of the Goods at any time without notice in the event of any variation in costs incurred by the Seller after acceptance of the Buyer's order. Orders are accepted at the prices current at the time of acceptance and on the understanding that they may be invoiced at prices ruling on the date of despatch irrespective of prices previously quoted. The quoted price is also subject to adjustment if any changes are made by the Buyer in the specification or quantities of the Goods or delivery requirements.

6. Payment

6.1 Unless otherwise specified the Goods or each instalment of the Goods in cases where they are to be delivered by instalments shall be paid within 30 days from the end of the month in which the relevant Seller's invoice has been issued.

6.2 Time for payment shall be of the essence and no payment shall be deemed to have been received until the Seller has received cleared funds.

6.3 Failure to make payment at the due date shall entitle the Seller to suspend deliveries until payment is made or to cancel the Contract in Writing, or to treat the Contract as repudiated by the Buyer without prejudice to the Seller's rights to damages for breach of contract.

6.4 If there is any delay in making payment the Seller shall be entitled to charge interest on the outstanding amount at 8 per cent above the base rate charged by the Seller's bankers from time to time from the due date until the date of actual payment.

6.5 All payments payable to the Seller under the Contract shall become due immediately on its termination despite any other provision.

7. Packing

Unless otherwise agreed the Goods shall be delivered in the Seller's or the manufacturer's standard packing. Special packaging specifications

to meet the Buyer's requirements must be referred to the Seller for review and acceptance. The Seller shall make a charge for this and the cost will be shown as a separate item on the invoice.

8. Delivery

8.1 Every effort will be made to maintain delivery dates but the Seller accepts no liability for delay however occasioned or for the consequences of any delay. Time of delivery shall not be of the essence of the Contract unless previously agreed by the Seller in Writing.

8.2 Delivery of the Goods shall be made by the Buyer collecting the Goods at the Seller's premises at any time after the Seller has notified the Buyer that the Goods are ready for collection or, if some other place for delivery is agreed by the Seller, by the Seller delivering the Goods to that place.

8.3 If for any reason the Buyer fails to promptly take delivery of any of the Goods when he has been notified that they are ready for delivery, or if the Seller is unable to deliver the Goods on time due to any fault, act or omission by the Buyer, then the Goods shall be deemed to have been delivered and the Seller may store the Goods until delivery, whereupon the Buyer shall be liable for all related costs and expenses (including without limitation, storage and insurance).

8.4 The Seller reserves the right to deliver by instalments in which case each delivery shall constitute a separate Contract without prejudice to subsequent deliveries and shall be invoiced accordingly. No cancellation or termination of any one Contract relating to an instalment shall entitle the Buyer to repudiate or cancel any other Contract or instalment. The Seller shall use its reasonable endeavours to deliver on the date stated but no guarantee or warranty as to the date or rate of delivery is given or implied.

8.5 Subject to the other provisions of these Conditions the Seller shall not be liable for any direct, indirect or consequential loss (all these terms include, without limitation, pure economic loss, loss of profits, loss of business, depletion of goodwill and similar loss), costs, damages, charges or expenses caused directly or indirectly by any delay in the delivery of the Goods (even if caused by the Seller's negligence), nor shall any delay entitle the Buyer to terminate or rescind the Contract unless such delay exceeds 180 days.

8.6 Unloading of the Goods from transport at the place of delivery is the Buyer's responsibility and takes place at the Buyer's risk. The Buyer must ensure that facilities are available and that the Goods are unloaded promptly. In the event the Buyer does not complete unloading of the Goods within two (2) hours from the time of delivery (or within such other time for unloading as is agreed by the Seller in Writing), the Seller shall be entitled to charge the Buyer demurrage at the Seller's standard rates as set out in the Seller's Service Guidelines for each additional hour or part thereof up to the time at which the Goods have been unloaded.

9. Risk and Property

9.1 Risk of damage to or loss of the Goods shall pass to the Buyer: -

9.1.1 in the case of Goods to be delivered at the Seller's premises, at the time when the Seller notifies the Buyer that the Goods are available for collection; or

9.1.2 in the case of the Goods to be delivered otherwise than at the Seller's premises, at the time of delivery or, if the Buyer fails to take delivery of the Goods, the time when the Seller has tendered delivery of the Goods. Unloading of the Goods from the transport at the Buyer's premises is at the Buyer's risk.

9.2 Notwithstanding delivery and the passing of risk in the Goods, or any other provision of these Conditions, the property in the Goods shall not pass to the Buyer until the Seller has received in cash or cleared funds payment in full of the price of the Goods and all other sums which are or which become due to the Seller from the Buyer on any account.

9.3 Until such time as the property in the Goods passes to the Buyer, the Buyer shall hold the Goods as the Seller's fiduciary agent and bailee, and shall keep the Goods separate from those of the Buyer and third parties and properly stored, protected and insured and identified as the Seller's property, but the Buyer may resell or use the Goods in the ordinary course of its business.

9.4 Until such time as the property of the Goods passes to the Buyer (and provided the Goods are still in existence and have not been resold), the Seller may at any time require the Buyer to deliver up the Goods to it and, if the Buyer fails to do so forthwith, enter on any premises of the Buyer or any third party where the Goods are stored and repossess the Goods.

9.5 The Seller shall be entitled to recover payment for the Goods notwithstanding that the property in any of the Goods has not passed from the Seller.

9.6 The Buyer shall not be entitled to pledge or in any way charge by way of security for any indebtedness any of the Goods which remain the Seller's property, but if the Buyer does so all monies owing by the Buyer to the Seller shall (without limiting any other right or remedy of the Seller) forthwith become due and payable.

9.7 On termination of the Contract, howsoever caused, the Seller's rights contained in this condition 9 shall remain in effect.

10. Seller's Right to Set-off

Notwithstanding anything else provided in these Conditions, the Seller may set off any obligation owed by the Seller to the Buyer under any Contract against any matured obligation due to the Seller from the Buyer on any account.

11. Force Majeure

The Seller shall not be liable to the Buyer or be deemed to be in breach of the Contract by reason of any delay in performing, or any failure to perform, any of the Seller's obligations in relation to the Goods, if the delay or failure was due to any cause beyond the Seller's reasonable control. Without limiting the foregoing, the following shall be regarded as causes beyond the Seller's reasonable control:

- 11.1 Act of God, explosion, flood, tempest, fire or accident;
- 11.2 war or threat of war, sabotage, insurrection, civil disturbance or requisition;
- 11.3 acts, restrictions, regulations, bye-laws, prohibitions or measures of any kind on the part of any governmental, parliamentary or local authority;
- 11.4 import or export regulations or embargoes;
- 11.5 strikes, lock-outs or other industrial actions or trade disputes (whether involving employees of the Seller or of a third party);
- 11.6 difficulties in obtaining raw materials, labour, fuel, parts or machinery;
- 11.7 power failure or breakdown in machinery.

12. Warranty and Liability

12.1 Subject as expressly provided in these Conditions, and except where the Goods are sold to a person dealing as a consumer (within the meaning of the Unfair Contract Terms Act 1977), all warranties, conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law.

12.2 The Seller warrants the Goods to be free from defects in material and workmanship for a period of 6 months from date of receipt thereof. A claim by the Buyer which is based on any defect in the quality or condition of the Goods or their failure to correspond with specifications shall (whether or not delivery is refused by the Buyer) be notified to the Seller within seven (7) days from the date of delivery or where the defect or failure was not apparent on reasonable inspection within a reasonable time after discovery of the defect or failure. If delivery is not refused, and the Buyer does not notify the Seller accordingly, the Buyer shall not be entitled to reject the Goods and the Seller shall have no liability for such defect or failure, and the Buyer shall be bound to pay the price as if the Goods had been delivered in accordance with the Contract.

12.3 Where a claim in respect of any of the Goods which is based on defect in the quality or condition of the Goods or their failure to meet specification is notified to the Seller in accordance with these Conditions and the Seller has accepted such claim following an investigation by the Seller, the Seller may replace the Goods (or the part in question) free of charge or, at the Seller's sole discretion, refund to the Buyer the price of the Goods (or a proportionate part of the price), in which case the Seller shall have no further liability to the Buyer.

12.4 Except in respect of death or personal injury caused by the Seller's negligence, or liability for defective products under the Consumer Protection Act 1987, the Seller shall not be liable to the Buyer by reason of any representation (unless fraudulent), or any implied warranty, condition or other term, or any duty at common law, or under the express terms of the Contract, for loss of profit or for any indirect, special or consequential loss or damage, costs, expenses or other claims for compensation whatsoever (whether caused by the negligence of the Seller, its employees or agents or otherwise) which arise out of or in connection with the supply of the Goods (including any delay in supplying or any failure to supply the Goods in accordance with the Contract or at all) or their use or resale by the Buyer, and the entire liability of the Seller under or in connection with the Contract shall not exceed the price of the Goods, except as expressly provided in these Conditions.

13. Insolvency of Buyer

13.1 This clause applies if

13.1.1 the Buyer makes a voluntary arrangement with its creditors or (being an individual or firm) becomes bankrupt or (being a company) becomes subject to an administration order or goes into liquidation (otherwise than for the purposes of amalgamation or reconstruction); or

13.1.2 an encumbrancer takes possession, or a receiver is appointed, of any of the property assets of the Buyer; or

13.1.3 the Buyer ceases, or threatens to cease, to carry on business; or

13.1.4 the Seller reasonably apprehends that any of the events mentioned above is about to occur in relation to the Buyer and notifies the Buyer accordingly.

13.2 If this clause applies then, without limiting any other right or remedy available to the Seller; the Seller may cancel the Contract or suspend any further deliveries under the Contract without any liability to the Buyer, and if the Goods have been delivered but not paid for the price shall become immediately due and payable notwithstanding any previous agreement or arrangement to the contrary.

14. Claims for non-delivery / short delivery / Goods damaged in transit

The Buyer shall inspect the Goods immediately on delivery thereof. If the Buyer fails to give notice or report in accordance with these provisions the Buyer shall be bound to accept and pay for the same at the time or times specified in these conditions unless a written claim is received: -

14.1 by both the Seller and the carrier within three days of delivery in respect of damage, delay or partial loss in transit;

14.2 by both the Seller and the carrier within 28 days of despatch in respect of non-delivery; Goods subject to any claim must be stored free of charge for the Seller's inspection.

15. General

15.1 The Seller's rights shall not be affected or restricted by any indulgence or forbearance granted to the Buyer. No waiver by the Seller of any breach shall operate as a waiver of any later breach of the same or any other provision.

15.2 The Seller is a member of a group of companies, and accordingly the Seller may perform any of its obligations or exercise any of its rights under the Contract by itself or through any other member of its group, provided that any act or omission of any such other member shall be deemed to be the act or omission of the Seller.

15.3 The Seller shall be entitled at any time to assign the Contract or any part of it to any person firm or company. The Buyer may assign the Contract or any part of it only if he has obtained in Writing the prior consent of the Seller to such assignment.

15.4 The Contract shall be governed by the laws of England, and the Buyer agrees to submit to the non-exclusive jurisdiction of the English courts.

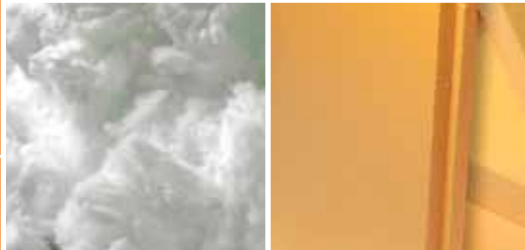
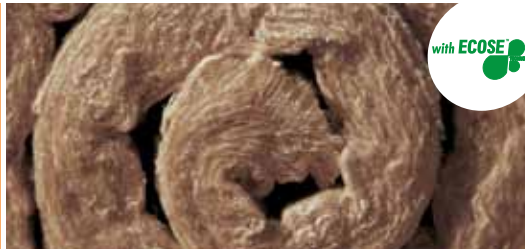
15.5 If any provision of the Contract is held by a court or other competent authority to be invalid or unenforceable in whole or in part, the validity of the other provisions of the Contract and the remainder of the provision in question shall not be affected.

15.6 A notice required or permitted to be given by either party to the other under a Contract shall be in Writing addressed to that other party at its registered office or principal place of business or such other address as may at the relevant time have been notified pursuant to this provision to the party giving the notice.

February 2011

KNAUFINSULATION

it's time to save energy



Northern Europe Head Office

Knauf Insulation Ltd
PO Box 10 Stafford Road
St Helens
Merseyside
United Kingdom

Tel: 00 44 1744 766 600
Fax: 00 44 1744 766732

Ref: GB012611

Oct 2011

Regional Offices:

Danmark

Knauf Insulation A/S
Kløvermarksvej 6
9500 Hobro
Danmark

Tlf.: 00 45 72 44 12 00
Fax: 00 45 72 44 12 01

info@knaufinsulation.dk
www.knaufinsulation.dk

Suomalainen

Knauf Insulation
Box 184
401 23 Göteborg
Sweden

Puh: 0800 14 66 22
Faksi: 00 46 317737075

info@knaufinsulation.fi
www.knaufinsulation.fi

Norske

Knauf Insulation
Box 184
401 23 Göteborg
Sverige

Tlf: 800 40 6 40
Faks: 00 46 317737075

info@knaufinsulation.no
www.knaufinsulation.no

Svenska

Knauf Insulation
Box 184
401 23 Göteborg
Sverige

Tel: 020 313 535
Fax: 00 46 317737075

info@knaufinsulation.se
www.knaufinsulation.se



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