



# PACKAGING AND SHIPPING CHART

## EnergyGuard™, EnergyGuard™ Ultra, EnergyGuard™ NH, EnergyGuard™ NH Ultra, and EnergyGuard™ Barrier

### Flat Stock Physical Characteristics and Shipping Information

Physical Characteristics			Shipping Information (4' x 4') (1.21 m x 1.21 m)							Shipping Information (4' x 8') (1.21 m x 2.44 m)						
Size (in)	R-Value	Max Flute Span (in)	Approx. Weight*/ Bd (lb)	Bds/ Bundle	Bds/ Truck	Bundles/ Truck	Squares Per Bundle	Sq. Ft. Per Bundle	Sq. Ft. Per Truck	Approx. Weight*/ Bd (lb)	Bds/ Bundle	Bds/ Truck	Bundles/ Truck	Squares Per Bundle	Sq. Ft. Per Bundle	Sq. Ft. Per Truck
1.0 (25.4 mm)	5.7	2 5/8 (66.7 mm)	4.0	48	2,304	48	7.68	768	36,864 (2,425 sq. m)	8.0	48	1,152	24	15.36	1,536	36,864 (2,425 sq. m)
1.1 (27.9 mm)	6.3	2 5/8 (66.7 mm)	4.3	43	2,064	48	6.88	688	33,024 (3,068 sq. m)	8.6	43	1,032	24	13.76	1,376	33,024 (3,068 sq. m)
1.2 (30.5 mm)	6.8	2 5/8 (66.7 mm)	4.5	38	1,824	48	6.08	608	29,184 (2,711 sq. m)	9.1	38	912	24	12.16	1,216	29,184 (2,711 sq. m)
1.3 (33 mm)	7.4	2 5/8 (66.7 mm)	4.8	36	1,728	48	5.76	576	27,648 (2,568 sq. m)	9.5	36	864	24	11.52	1,152	27,648 (2,568 sq. m)
1.4 (35.6 mm)	8.0	4 3/8 (111 mm)	5.0	34	1,632	48	5.44	544	26,112 (2,426 sq. m)	10.0	34	816	24	10.88	1,088	26,112 (2,426 sq. m)
1.5 (38.1 mm)	8.6	4 3/8 (111 mm)	5.2	32	1,536	48	5.12	512	24,576 (2,283 sq. m)	10.5	32	768	24	10.24	1,024	24,576 (2,283 sq. m)
1.6 (40.6 mm)	9.1	4 3/8 (111 mm)	5.5	30	1,440	48	4.8	480	23,040 (2,140 sq. m)	11.0	30	720	24	9.60	960	23,040 (2,140 sq. m)
1.7 (43.1 mm)	9.7	4 3/8 (111 mm)	5.7	28	1,344	48	4.48	448	21,504 (1,998 sq. m)	11.4	28	672	24	8.96	896	21,504 (1,998 sq. m)
1.75 (44.5 mm)	10.0	4 3/8 (111 mm)	5.8	27	1,296	48	4.32	432	20,736 (1,926 sq. m)	11.7	27	648	24	8.64	864	20,736 (1,926 sq. m)
1.8 (45.7 mm)	10.3	4 3/8 (111 mm)	5.9	25	1,200	48	4	400	19,200 (1,784 sq. m)	11.9	25	600	24	8.00	800	19,200 (1,784 sq. m)
1.9 (48.3 mm)	10.8	4 3/8 (111 mm)	6.2	25	1,200	48	4	400	19,200 (1,784 sq. m)	12.4	25	600	24	8.00	800	19,200 (1,784 sq. m)
2.0 (51 mm)	11.4	4 3/8 (111 mm)	6.4	24	1,152	48	3.84	384	18,432 (1,712 sq. m)	12.8	24	576	24	7.68	768	18,432 (1,712 sq. m)
2.1 (53 mm)	12.0	4 3/8 (111 mm)	6.7	22	1,056	48	3.52	352	16,896 (1,570 sq. m)	13.3	22	528	24	7.04	704	16,896 (1,570 sq. m)
2.2 (56 mm)	12.6	4 3/8 (111 mm)	6.9	21	1,008	48	3.36	336	16,128 (1,498 sq. m)	13.8	21	504	24	6.72	672	16,128 (1,498 sq. m)
2.3 (58 mm)	13.2	4 3/8 (111 mm)	7.1	20	960	48	3.2	320	15,360 (1,427 sq. m)	14.3	20	480	24	6.40	640	15,360 (1,427 sq. m)
2.4 (61 mm)	13.8	4 3/8 (111 mm)	7.4	20	960	48	3.2	320	15,360 (1,427 sq. m)	14.7	20	480	24	6.40	640	15,360 (1,427 sq. m)
2.5 (64 mm)	14.4	4 3/8 (111 mm)	7.6	19	912	48	3.04	304	14,584 (1,356 sq. m)	15.2	19	456	24	6.08	608	14,584 (1,356 sq. m)
2.6 (66 mm)	15.0	4 3/8 (111 mm)	7.8	18	864	48	2.88	288	13,824 (1,284 sq. m)	15.7	18	432	24	5.76	576	13,824 (1,284 sq. m)
2.7 (69 mm)	15.6	4 3/8 (111 mm)	8.1	17	816	48	2.72	272	13,056 (1,213 sq. m)	16.1	17	408	24	5.44	544	13,056 (1,213 sq. m)
2.8 (71 mm)	16.2	4 3/8 (111 mm)	8.3	17	816	48	2.72	272	13,056 (1,213 sq. m)	16.6	17	408	24	5.44	544	13,056 (1,213 sq. m)
2.9 (74 mm)	16.8	4 3/8 (111 mm)	8.5	16	768	48	2.56	256	12,288 (1,142 sq. m)	17.1	16	384	24	5.12	512	12,288 (1,142 sq. m)
3.0 (76 mm)	17.4	4 3/8 (111 mm)	8.8	16	768	48	2.56	256	12,288 (1,142 sq. m)	17.6	16	384	24	5.12	512	12,288 (1,142 sq. m)
3.1 (79 mm)	18.0	4 3/8 (111 mm)	9.0	15	720	48	2.4	240	11,520 (1,070 sq. m)	18.0	15	360	24	4.80	480	11,520 (1,070 sq. m)
3.2 (81 mm)	18.6	4 3/8 (111 mm)	9.3	15	720	48	2.4	240	11,520 (1,070 sq. m)	18.5	15	360	24	4.80	480	11,520 (1,070 sq. m)
3.25 (83 mm)	18.9	4 3/8 (111 mm)	9.4	14	672	48	2.24	224	10,752 (999 sq. m)	18.7	14	336	24	4.48	448	10,752 (999 sq. m)
3.3 (84 mm)	19.2	4 3/8 (111 mm)	9.5	14	672	48	2.24	224	10,752 (999 sq. m)	19.0	14	336	24	4.48	448	10,752 (999 sq. m)
3.4 (86 mm)	19.9	4 3/8 (111 mm)	9.7	14	672	48	2.24	224	10,752 (999 sq. m)	19.4	14	336	24	4.48	448	10,752 (999 sq. m)
3.5 (89 mm)	20.5	4 3/8 (111 mm)	10.0	13	624	48	2.08	208	9,984 (928 sq. m)	19.9	13	312	24	4.16	416	9,984 (928 sq. m)
3.6 (91 mm)	21.1	4 3/8 (111 mm)	10.2	13	624	48	2.08	208	9,984 (928 sq. m)	20.4	13	312	24	4.16	416	9,984 (928 sq. m)
3.7 (94 mm)	21.7	4 3/8 (111 mm)	10.4	12	576	48	1.92	192	9,216 (856 sq. m)	20.9	12	288	24	3.84	384	9,216 (856 sq. m)
3.8 (97 mm)	22.3	4 3/8 (111 mm)	10.7	12	576	48	1.92	192	9,216 (856 sq. m)	21.3	12	288	24	3.84	384	9,216 (856 sq. m)
3.9 (99 mm)	23.0	4 3/8 (111 mm)	10.9	12	576	48	1.92	192	9,216 (856 sq. m)	21.8	12	288	24	3.84	384	9,216 (856 sq. m)
4.0 (102 mm)	23.6	4 3/8 (111 mm)	11.1	12	576	48	1.92	192	9,216 (856 sq. m)	22.3	12	288	24	3.84	384	9,216 (856 sq. m)
4.1 (104 mm)	24.2	4 3/8 (111 mm)	11.4	11	528	48	1.76	176	8,448 (785 sq. m)	22.8	11	264	24	3.52	352	8,448 (785 sq. m)
4.2 (106 mm)	24.8	4 3/8 (111 mm)	11.6	11	528	48	1.76	176	8,449 (785 sq. m)	23.2	11	264	24	3.52	352	8,449 (785 sq. m)
4.3 (109 mm)	25.4	4 3/8 (111 mm)	11.8	11	528	48	1.76	176	8,450 (785 sq. m)	23.7	11	264	24	3.52	352	8,450 (785 sq. m)
4.4 (112 mm)	26.0	4 3/8 (111 mm)	12.1	10	480	48	1.6	160	7,680 (713 sq. m)	24.1	10	240	24	3.20	320	7,680 (713 sq. m)
4.5 (114 mm)	26.6	4 3/8 (111 mm)	12.3	10	480	48	1.6	160	7,680 (713 sq. m)	24.6	10	240	24	3.20	320	7,680 (713 sq. m)
4.6 (116 mm)	27.1	4 3/8 (111 mm)	12.6	10	480	48	1.6	160	7,680 (713 sq. m)	25.1	10	240	24	3.20	320	7,680 (713 sq. m)

All products are available in 20 and 25 PSI. Other sizes are available upon special request. Not all products are available in all plants.

\* GAF Polyiso is sold on a dimensional basis and not by weight. Weights listed are approximate and are for EnergyGuard™ and EnergyGuard™ NH GRF-faced products only. CGF-faced products will weigh more. For more information contact [designservices@gaf.com](mailto:designservices@gaf.com).



We protect what matters most™



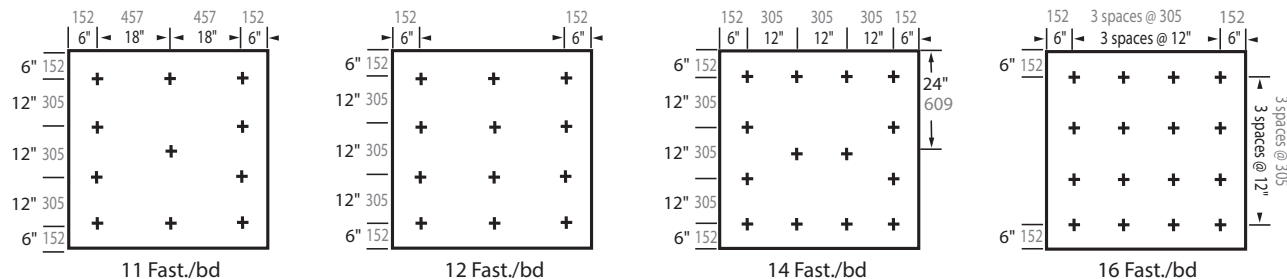
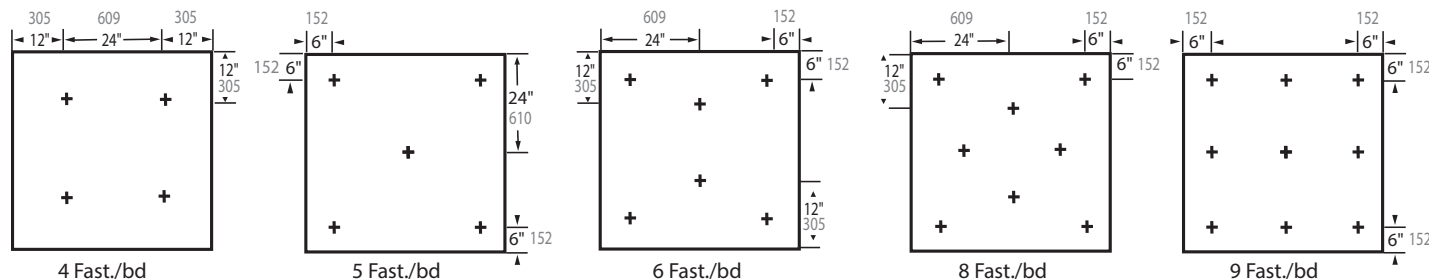
# FASTENING PATTERNS

EnergyGuard™, EnergyGuard™ Ultra, EnergyGuard™ NH, EnergyGuard™ NH Ultra, and EnergyGuard™ Barrier\*

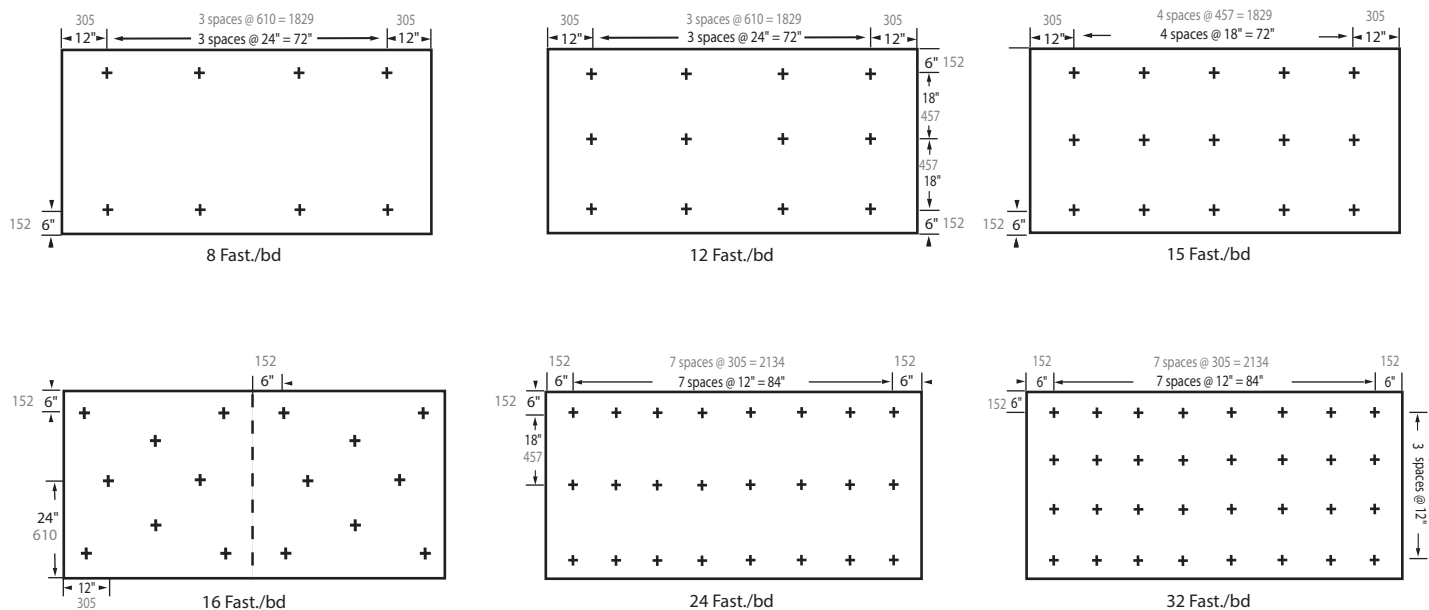
## Design Considerations - Suggested Insulation Fastener Patterns

(NOTE: Gray figures denote millimeters)

### 4' x 4' (1220 x 1220) Boards



### 4' x 8' (1220 x 2440) Boards



**NOTE:** These patterns are for FM-approved decks utilizing appropriate FM-approved screws and plates when installed per RoofNav. Consult FM Loss Prevention Data Sheets 1-29 for specific perimeter and corner fastening details. For proper attachment, fasteners must penetrate the flange or the metal deck a minimum of 3/4 inch (19.1 mm). Due to ongoing testing programs and changes in FM Global requirements, the number of fasteners and their placement are subject to change without notice. Consult RoofNav and FM Global Loss Prevention Data Sheets 1-28, 1-29, and 1-29R for approved fastener density for Polyisocyanurate Roof Insulations. If your fastener pattern is not listed, please contact Technical Services at 1-800-766-3411.

\*EnergyGuard™ Barrier is not FM-approved.



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