

Carton fit per pallet layer — GMA vs Euro

Maximum cartons per single layer on a GMA 48×40 in pallet and a Euro 1200×800 mm pallet, with floor-area utilization.
freightcalcs.com/pallet-carton-fit-table

Carton (in)	Carton (cm)	GMA / layer	GMA util	Euro / layer	Euro util
6x6x6	15.2x15.2x15.2	48	90.0%	35	84.7%
8x6x4	20.3x15.2x10.2	40	100.0%	28	90.3%
9x6x4	22.9x15.2x10.2	34	95.6%	25	90.7%
7x7x6	17.8x17.8x15.2	30	76.6%	24	79.0%
8x8x8	20.3x20.3x20.3	30	100.0%	15	64.5%
10x8x6	25.4x20.3x15.2	24	100.0%	15	80.6%
11.8x7.9x7.9	30x20x20	20	96.9%	16	100.0%
9x9x9	22.9x22.9x22.9	20	84.4%	15	81.7%
11x8x6	27.9x20.3x15.2	20	91.7%	14	82.8%
12x9x6	30.5x22.9x15.2	17	95.6%	12	87.1%
10x10x10	25.4x25.4x25.4	16	83.3%	12	80.6%
12x10x8	30.5x25.4x20.3	16	100.0%	11	88.7%
13x10x8	33.0x25.4x20.3	14	94.8%	10	87.4%
13.8x9.8x7.9	35x25x20	13	91.8%	10	91.1%
14x10x8	35.6x25.4x20.3	13	94.8%	9	84.7%
11x11x11	27.9x27.9x27.9	12	75.6%	8	65.1%
11.8x11.8x11.8	30x30x30	12	87.2%	8	75.0%
13x11x8	33.0x27.9x20.3	12	89.4%	8	76.9%
12x12x8	30.5x30.5x20.3	12	90.0%	6	58.1%
12x12x12	30.5x30.5x30.5	12	90.0%	6	58.1%
14x12x10	35.6x30.5x25.4	11	96.2%	6	67.7%
15.7x11.8x7.9	40x30x20	10	96.9%	8	100.0%
15.7x11.8x11.8	40x30x30	10	96.9%	8	100.0%
15x12x10	38.1x30.5x25.4	10	93.8%	6	72.6%
16x12x8	40.6x30.5x20.3	10	100.0%	5	64.5%
16x12x12	40.6x30.5x30.5	10	100.0%	5	64.5%
17x11x8	43.2x27.9x20.3	9	87.7%	6	75.4%
17.7x11.8x9.8	45x30x25	8	87.2%	6	84.4%
19.7x11.8x11.8	50x30x30	8	96.9%	6	93.8%
18x12x8	45.7x30.5x20.3	8	90.0%	5	72.6%
18x12x12	45.7x30.5x30.5	8	90.0%	5	72.6%

Carton (in)	Carton (cm)	GMA / layer	GMA util	Euro / layer	Euro util
20x12x12	50.8x30.5x30.5	8	100.0%	4	64.5%
14x14x14	35.6x35.6x35.6	6	61.2%	6	79.0%
18x14x12	45.7x35.6x30.5	6	78.8%	4	67.7%
24x12x12	61.0x30.5x30.5	6	90.0%	3	58.1%
16x16x16	40.6x40.6x40.6	6	80.0%	2	34.4%
20x16x12	50.8x40.6x30.5	6	100.0%	2	43.0%
22x14x9	55.9x35.6x22.9	5	80.2%	4	82.8%
23.6x15.7x11.8	60x40x30	5	96.9%	4	100.0%
23.6x15.7x15.7	60x40x40	5	96.9%	4	100.0%
24x16x12	61.0x40.6x30.5	5	100.0%	2	51.6%
18x18x16	45.7x45.7x40.6	4	67.5%	2	43.5%
18x18x24	45.7x45.7x61.0	4	67.5%	2	43.5%
20x20x20	50.8x50.8x50.8	4	83.3%	2	53.8%
24x18x12	61.0x45.7x30.5	4	90.0%	2	58.1%
24x18x18	61.0x45.7x45.7	4	90.0%	2	58.1%
26x16x12	66.0x40.6x30.5	3	65.0%	2	55.9%
24x24x24	61.0x61.0x61.0	2	60.0%	1	38.7%

GMA pallet = 48×40 in (1219×1016 mm). Euro pallet = 1200×800 mm (47.2×31.5 in). Counts assume cartons flush to the pallet edge with no overhang; util = carton floor area × count ÷ pallet floor area. Computed with a recursive guillotine packing algorithm and independently re-verified. Free to reuse with attribution (CC BY 4.0). Source: freightcalcs.com