

How much is left on the coil?

Charts help eliminate guesswork—and leftover material

By Brian Partyka

Many metal roofing contractors are realizing the benefits of owning a portable standing-seam panel roll-forming machine rather than purchasing preformed panels. This offers the ability to produce engineered profiles, longer lengths, and less handling and freight. And in many cases, it's cheaper to rollform your own panels.

However, keep in mind that once you own a roll-forming machine, you now assume the role of manufacturer—and the responsibility for ordering the proper amount of coils to complete the project.

Coils are available to fit every profile, from standing seam to R-panel, from Kynar 500/Hylar 5000 to polyester paint systems. Each profile requires a particular gauge and width. For roll forming of standing-seam and snap-lock profiles, the industry uses standard coil widths of 24, 22, 20, and 16 inches. For agricultural products, such as the R-Panel, the standard widths are 40.875 and 41.562 inches.

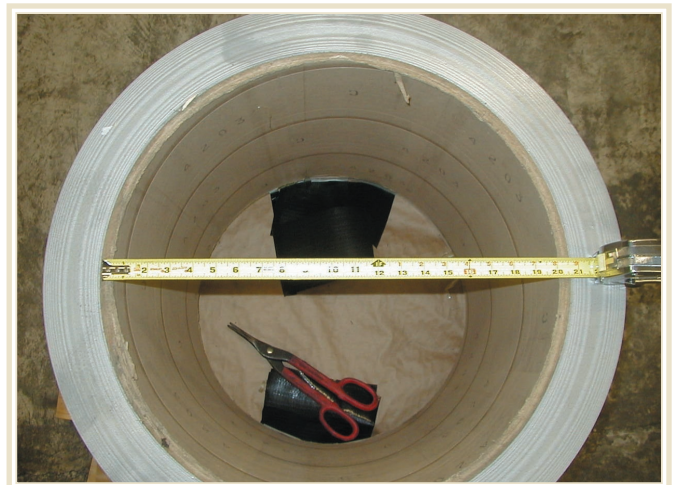
In some cases, coil is left over on a project because the machine operator forgot to keep track of the amount of lineal footage on the coil. But how can you tell how much coil is left?

It's easy. Follow these four simple steps:

1. Measure the inner diameter of the coil (it's probably going to be 16 or 20 inches).
2. Measure the thickness of material on one side of the coil.
3. Determine the gauge and width.
4. Refer to the charts provided here to determine the theoretical weight, square footage, and lineal footage left on the coil.

The charts include many of the standard gauges and coil widths used in our industry. The calculations were based on the theoretical multipliers and are medians. The multipliers will vary with each individual coil, and the numbers listed should be used as a point of reference and an estimate.

- 24 gauge = theoretical multiplier of 0.9791 pounds per square foot
- 26 gauge = theoretical multiplier of 0.7818 pounds per square foot
- 29 gauge = theoretical multiplier of 0.6120 pounds per square foot



Measure the coil's inner diameter.

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Measure the material's thickness on one side of the coil.

I hope these charts will help you determine how much material is left over from past projects. By taking the time to measure and calculate the amount of material remaining, you will no longer look at an assortment of coils and ask yourself, "What should I do with them?" Who knows, you may be surprised how much material is there and turn your leftovers into cash.

Brian Partyka is manager of the coil and sheet division of Drexel Metals Corp. He has years of experience in selling and helping contractors and architects specify the proper painted steel and aluminum products for roofing applications. He can be reached at 888-321-9630, ext. 115 or via e-mail at brian@drexmet.com.

COILS WITH A 16-INCH INNER DIAMETER

24 gauge x 24-inch width			
Thickness of Material (inch)	Theoretical Weight (lbs)	Theoretical Square Footage	Theoretical Lineal Footage
1/2	240	245	123
1	480	490	245
1 1/2	624	637	319
2	816	833	417
2 1/2	960	980	490
3	1104	1128	564
3 1/2	1296	1324	662
4	1488	1520	760
4 1/2	1680	1716	858
5	1920	1961	980
5 1/2	2160	2206	1103
6	2400	2451	1226

24 gauge x 22-inch width			
Thickness of Material (inch)	Theoretical Weight (lbs)	Theoretical Square Footage	Theoretical Lineal Footage
1/2	220	225	123
1	440	449	245
1 1/2	572	584	319
2	748	764	418
2 1/2	880	899	491
3	1012	1034	565
3 1/2	1188	1213	663
4	1364	1393	761
4 1/2	1540	1573	860
5	1760	1798	983
5 1/2	1980	2022	1105
6	2200	2247	1228



COILS WITH A 16-INCH INNER DIAMETER

24 gauge x 20-inch width			
Thickness of Material (inch)	Theoretical Weight (lbs)	Theoretical Square Footage	Theoretical Lineal Footage
1/2	200	204	122
1	400	409	245
1 1/2	520	531	318
2	680	695	416
2 1/2	800	817	489
3	920	940	563
3 1/2	1080	1103	661
4	1240	1266	758
4 1/2	1400	1430	856
5	1600	1634	978
5 1/2	1800	1838	1101
6	2000	2043	1223



COILS WITH A 20-INCH INNER DIAMETER

24 gauge x 24-inch width			
Thickness of Material (inch)	Theoretical Weight (lbs)	Theoretical Square Footage	Theoretical Lineal Footage
1/2	240	246	123
1	480	490	245
1 1/2	720	734	368
2	960	980	490
2 1/2	1200	1226	613
3	1440	1470	735
3 1/2	1680	1716	858
4	1920	1960	980
4 1/2	2160	2206	1103
5	2400	2452	1226
5 1/2	2640	2696	1348
6	2880	2942	1471

24 gauge x 16-inch width			
Thickness of Material (inch)	Theoretical Weight (lbs)	Theoretical Square Footage	Theoretical Lineal Footage
1/2	160	163	122
1	320	327	246
1 1/2	416	425	320
2	544	556	418
2 1/2	640	654	492
3	736	752	565
3 1/2	864	882	663
4	992	1013	762
4 1/2	1120	1144	860
5	1280	1307	983
5 1/2	1440	1471	1106
6	1600	1634	1229

24 gauge x 22-inch width			
Thickness of Material (inch)	Theoretical Weight (lbs)	Theoretical Square Footage	Theoretical Lineal Footage
1/2	220	225	123
1	440	449	245
1 1/2	660	674	368
2	880	899	491
2 1/2	1100	1123	614
3	1320	1348	737
3 1/2	1540	1573	860
4	1760	1798	983
4 1/2	1980	2022	1105
5	2200	2247	1228
5 1/2	2420	2472	1351
6	2640	2696	1473

26 gauge x 24-inch width			
Thickness of Material (inch)	Theoretical Weight (lbs)	Theoretical Square Footage	Theoretical Lineal Footage
1/2	240	306	153
1	384	492	246
1 1/2	480	614	307
2	624	798	399
2 1/2	960	1228	614
3	1104	1412	706
3 1/2	1296	1658	829
4	1488	1904	952
4 1/2	1680	2148	1074
5	1920	2456	1228
5 1/2	2160	2762	1381
6	2400	3070	1535

24 gauge x 20-inch width			
Thickness of Material (inch)	Theoretical Weight (lbs)	Theoretical Square Footage	Theoretical Lineal Footage
1/2	200	204	122
1	400	409	245
1 1/2	600	613	359
2	800	817	489
2 1/2	1000	1021	611
3	1200	1226	734
3 1/2	1400	1430	856
4	1600	1634	978
4 1/2	1800	1838	1101
5	2000	2043	1223
5 1/2	2200	2247	1346
6	2400	2451	1468

24 gauge x 16-inch width			
Thickness of Material (inch)	Theoretical Weight (lbs)	Theoretical Square Footage	Theoretical Lineal Footage
1/2	160	163	123
1	320	327	245
1 1/2	480	490	368
2	640	654	492
2 1/2	800	817	614
3	960	980	737
3 1/2	1120	1144	860
4	1280	1307	983
4 1/2	1440	1471	1106
5	1600	1634	1229
5 1/2	1760	1798	1352
6	1920	1961	1474

26 gauge x 24-inch width			
Thickness of Material (inch)	Theoretical Weight (lbs)	Theoretical Square Footage	Theoretical Lineal Footage
1/2	240	306	153
1	480	614	307
1 1/2	720	922	461
2	960	1228	614
2 1/2	1200	1536	768
3	1440	1842	921
3 1/2	1680	2150	1075
4	1920	2456	1228
4 1/2	2160	2764	1382
5	2400	3070	1535
5 1/2	2640	3377	1689
6	2880	3684	1842

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26 gauge x 41.562-inch width			
Thickness of Material (inch)	Theoretical Weight (lbs)	Theoretical Square Footage	Theoretical Lineal Footage
1/2	416	532	154
1	831	1063	307
1 1/2	1247	1595	461
2	1662	2126	614
2 1/2	2078	2658	768
3	2494	3190	922
3 1/2	2909	3721	1070
4	3325	4253	1229
4 1/2	3741	4785	1383
5	4156	5316	1536
5 1/2	4572	5848	1690
6	4987	6379	1844

29 gauge x 40.875-inch width			
Thickness of Material (inch)	Theoretical Weight (lbs)	Theoretical Square Footage	Theoretical Lineal Footage
1/2	409	668	196
1	818	1336	392
1 1/2	1226	2004	588
2	1635	2672	784
2 1/2	2044	3339	979
3	2453	4007	1175
3 1/2	2861	4675	1371
4	3270	5343	1567
4 1/2	3679	6011	1762
5	4088	6679	1959
5 1/2	4496	7347	2155
6	4905	8015	2350

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