

A NUCOR COMPANY

## 1. PRODUCT NAME

American Seam Loc panel for roof applications.

## 2. MANUFACTURER

## AMERICAN BUILDINGS COMPANY

1150 State Docks Road Eufaula, Alabama 36027 Phone: (334) 687-2032

## 3. PRODUCT DESCRIPTION

These architectural standing seam panels, available with optional minor ribs, are connected with a 1  $\frac{34}{}$  high snapped seam and are available in 12", 16" and 18" width coverage. They are designed to be utilized over substrates but can also be used over open structural framing. Minimum roof slope for the Seam Loc panel is 3:12.

*Basic Use*: A roof covering system for new or retrofit construction.

*Materials:*. Seam Loc panels are available in 24 or 22 gage 50,000 psi in either G90 zinc-coated (galvanized) steel or aluminum-zinc alloy-coated (AZ50 or AZ55) steel. Prepainted panels have American Buildings Company SmartKote® (PVDF) Finish.

Panel clips for the Seam Loc panels are a nominal 1 3/4" in height and 3 3/4" in width (UL 90) and 1 3/4" in height and 2" in width (Std.) die formed 18 gage zinc-coated (galvanized) steel.

Seam Loc roof panel sidelaps have factory applied mastic, SikaLastomer-511 or equal. Its composition is 85% solids by weight. Service temperature range is -60°F to + 220°F.

Roof flashing laps, ridges, and eaves are sealed with tape mastic, Sika Sika-Tape TC-95 or equal. The material is nonstaining, non-corrosive, non-toxic and non-volatile. Composition is 100% solid isobutylene tripolymer tape. Service temperature is -60°F to + 212° F.

*Caulk:* Eaves and ridge are sealed with non-skinning butyl caulk, SikaLastomer-511 or equal. Its composition is 85% solids by weight. Service temperature range is  $-60^{\circ}F$  to +  $220^{\circ}F$ .

All gutter and downspout joints, and roof accessories are sealed with polyurethane caulk, Sika SikaFlex 219LM or equal. It meets or exceeds Federal specification TT-S-00230C, Type II, Class A. All fasteners for panel to secondary framing and panel to trim will be one of the following EPDM washer head screws.

**A.** Premium roof fasteners shall be No. 14 x 1" self-drilling carbon steel screws with a molded zinc alloy hex washer head. Premium roof fasteners will be on all warranted roofs and all pre-finished roofs.

**B.** Standard roof fasteners shall be No. 14 x 1" self-drilling carbon steel screws with an integral hex washer head. Standard roof fasteners shall have a corrosive resistant

# SEAM-LOC PANEL SPECIFICATIONS

coating over zinc plating. Standard roof fasteners shall be on unwarranted aluminum-zinc alloy-coated roofs only.

Seam Loc panel clips are attached to the purlins with selfdrilling No. 10 x 1" Phillips Pancake Head, cadmium or zinc plated.

Seam Loc panel clips are attached to wood decking with No. 10  $\ensuremath{x}$ 

1" Type A #2 Phillips Pancake Head, cadmium or zinc plated.

## 4. TECHNICAL DATA

The Seam Loc panel has received a Class 90 Wind Uplift rating by Underwriters Laboratories when tested in accordance with test procedure UL 580. The Seam Loc panel has been tested in accordance with wind uplift ASTM E1592 and CEGS 07416. This panel has also been tested in accordance with Air Infiltration, ASTM E1680 and Water Penetration, ASTM E1646. This panel has received a Class A fire rating when tested in accordance with test procedure ASTM E108.

## 5. INSTALLATION

Panels are joined at the sidelap with an interlocking seam. Sidelap sealer is factory applied. Roof systems are installed by American Buildings Company Authorized Builders. Installation may be incorporated with a light gage structural system.

### 6. AVAILABILITY

For availability, contact:

## AMERICAN BUILDINGS COMPANY

### 7. WARRANTY

Thirty-five year material warranties are available.

### 8. MAINTENANCE

Only normal routine maintenance is required over the life of the panels.

### 9. TECHNICAL SERVICES

For information, contact:

## AMERICAN BUILDINGS COMPANY

### 10. PRODUCT NOTES

A certain amount of waviness called "oilcanning" may exist in this panel. Minor waviness of the panel is not sufficient cause

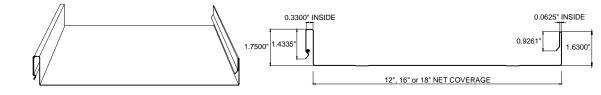


## SEAM-LOC PANEL SPECIFICATIONS

for rejection, because oilcanning does not affect the structural integrity of the panel.

American Buildings Company reserves the right to revise all standard specifications and information. American Buildings

Company regularly updates its published "Standard Specifications" on the American Buildings web site, www.americanbuildings.com, which supercede and replace any previously published standard specifications of American Buildings Company.



Engine=ring Properties of American Buildings Company 12" Semi_or Panel       Designated Gage of KSI     Steel (in)     Base Trotal (in)     Panel (in)     Trotal (in)     Panel (in)     Trotal (in)     Bastorn in (in)     Bastorn in (in)     Bastorn in (in)     Fb       24 Ga.     50     0.0225     0.0221     1.47     0.117     0.078     2.35     0.058     0.079     2.38     30       Cage of d     50     0.0300     0.0316     1.93     0.154     0.109     2.50     3.00     3.50     4.00     4.50     5.00       24 Ga.     2     POS     649     2.271     179     125     92     70     56     45       24 Ga.     2     POS     649     2271     179     125     92     70     56     56       24 Ga.     2     POS     643     222     146     107     82     665     330     225     116     115     91     77     76     76     76     76     76     76     76	PANEL	PROFILE							CF	ROSS SECT	TION	
Designated Gage of Vield Steel     Steel (n.)     Ease Total (n.)     Panel (m*/ft.)     Total (n.)     Panel (m*/ft.)     Total (n.)     Panel (m*/ft.)     Total (n.)     Panel (m*/ft.)     Total (n.)     Panel (m*/ft.)     Total (n.)     Panel (m*/ft.)     Total (n.)     Panel (m*/ft.)     Total (m.)     Panel (m.)     Panel (m.)     Total (m.)     Panel (m.)     Total (m.)     Panel (m.)     Panel (m.		Engine	ring Dro	nortion	of Amori	ioan Bui	dings C	omnonu	12" 500		anal	
Gage of Steel     Vield (KSI     Metal Thick, (h,)     Thick, (h,)     Weigh (bs. /t. <sup>2</sup> ) (h. <sup>4</sup> / h.)     Compression (h. <sup>4</sup> / h.)     Compression (h. <sup>4</sup> / h.)     Fb (h. <sup>4</sup> / h.)       24 Ga.     50     0.0225     0.0241     1.47     0.117     0.076     2.35     0.0686     0.079     2.38     30       Gage of of of of     50     0.0024     1.47     0.117     0.076     2.35     0.0686     0.079     2.38     30       24 Ga.     2     POS     444     207     1.50     2.00     3.50     4.00     4.50     5.00       24 Ga.     2     POS     645     331     250     1174     128     984     70     656       4     POS     558     321     208     145     107     625     533       22 Ga.     2     POS     683     383     221     136     108     597       24 Ga.     31     POS     683     383     222     218     100     115     108     108						can bui		ompany	12 368		anei	
Steel     Total     (mo)	0				- <b>5</b> -							
24 Ga.     50     0.0225     0.0241     1.47     0.0172     2.35     0.056     0.0367     1.70     90       22 Ga.     50     0.0300     0.0316     1.93     0.154     0.199     3.27     0.066     0.077     1.70     90       23 Gage of of of of     No.     Load     Maximum Total Unform Load in PSF       Panel     Spans     No.     Load     Maximum Total Unform Load in PSF       24 Ga.     1     POS     665     391     250     174     128     98     77     63       24 Ga.     3     POS     565     331     222     155     14     88     70     56       24 Ga.     3     POS     565     343     222     155     148     87     77     79       22 Ga.     3     POS     643     389     251     175     128     99     77     79       22 Ga.     3     POS     643     482     222     203     150 <th< td=""><td>of</td><td>KSI</td><td>Thick.</td><td>(ln.)</td><td>(lbs. / ft.2)</td><td>lx</td><td>Sx</td><td>Ma</td><td>Ix</td><td>Sx</td><td>Ma</td><td>KSI</td></th<>	of	KSI	Thick.	(ln.)	(lbs. / ft.2)	lx	Sx	Ma	Ix	Sx	Ma	KSI
22 Ga.     50     0.0300     0.0316     1.93     0.154     0.09     3.27     0.086     0.079     2.38     30       Gage of Panel     No. Of     1     0.0300     0.0316     1.93     0.154     0.109     3.27     0.086     0.079     2.38     30       24 Ga.     1     POS     648     2.00     2.50     3.00     3.50     4.00     4.50     5.00       24 Ga.     2     POS     444     277     179     125     92     70     56     45       2 Ga.     1     POS     558     321     205     114     88     70     65       3     POS     643     349     242     178     108     108     87     65     65       2 Ga.     Steel     Steel     Steel     Base     Total     Panel     Top h     Bottnut     Bottnut     Bottnut     Bottnut       2 Ga.     50     0.0225     0.0241     0.032     0.059     1	Steel		(ln.)			(In.4 / ft.)	(In. <sup>3</sup> / ft.)	K-IN.	(In.4 / ft.)	(In. <sup>3</sup> / ft.)	K-IN.	
22 Ga.     50     0.0300     0.0316     1.93     0.154     0.09     3.27     0.086     0.079     2.38     30       Gage of Panel     No. Of     1     0.0300     0.0316     1.93     0.154     0.109     3.27     0.086     0.079     2.38     30       24 Ga.     1     POS     648     2.00     2.50     3.00     3.50     4.00     4.50     5.00       24 Ga.     2     POS     444     277     179     125     92     70     56     45       2 Ga.     1     POS     558     321     205     114     88     70     65       3     POS     643     349     242     178     108     108     87     65     65       2 Ga.     Steel     Steel     Steel     Base     Total     Panel     Top h     Bottnut     Bottnut     Bottnut     Bottnut       2 Ga.     50     0.0225     0.0241     0.032     0.059     1	24 Ga	50	0.0225	0.0241	1 47	0 117	0.078	2.35	0.058	0.057	1 70	30
Gage of of Panel     No. Span Lengths, FL     Maximum Total Uniform Load in PSF       24 Ga.     1     POS     605     301     200     2.50     3.00     3.50     4.00     4.50     5.00       24 Ga.     2     POS     695     331     200     174     128     98     77     656     645       2     POS     695     331     220     146     107     82     65     53       1     POS     956     532     221     108     148     77     179     125     99     78     63       22 Ga.     2     POS     663     349     242     178     136     108     87       4     POS     791     452     292     203     150     115     91     74       Designated Gaf     KSI     Trick.     In     Maximum Total Uniform Load in PSF     50     0.0226     0.0241     1.35     0.044     0.044     1.28     30     24     30     208												
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1     POS     695     391     250     174     128     98     77     63       24 Ga.     2     POS     484     277     179     125     52     70     56     44       4     POS     558     331     220     145     107     82     65     53       22 Ga.     1     POS     683     399     251     175     129     99     78     63       3     POS     643     489     242     178     100     115     91     74       Engineering Properties of American Buildings Company 10° SeamLoc Panel     Samulo Pane     Compression     Compression     Fb       Odd     KSI     Metal     Inick.     (lb., ft.?)     k     Sx     Ma     k     Sx     Ma       24 Ga.     50     0.0225     0.0241     1.35     0.094     0.059     1.78     0.044     0.043     1.28     30       22 Ga.     50     0.0300     0.0316     1.77<				Туре								
24 Ga.     2     POS     494     277     179     125     92     70     56     44       3     POS     595     333     222     155     114     88     70     566       4     POS     558     321     208     145     107     82     65     53       2     POS     663     399     251     175     129     99     78     63       3     POS     843     483     312     218     160     123     99     78     63       4     POS     791     452     292     203     150     115     91     74       engineering Properties of American Buildings Company 16" SeamLoop Panel     SeamLone Panel     Sx     Ma     k     Sx     Ma											5.00	
24 Ga.     3     POS     595     343     222     155     114     88     70     556       2     POS     558     321     208     145     114     88     70     565       22 Ga.     2     POS     663     349     242     178     136     108     87       22 Ga.     2     POS     643     349     221     150     115     99     78     63       3     POS     791     452     292     203     150     115     91     74       Engineering Properties of American Buildings Company 16' SeamLoc Panel     50     178     044     128     30       22 Ga.     50     0.0225     0.0216     1.77     118     0.044     0.051     1.79		1		POS	695	391	250	174	128	98	77	63
3     POS     595     343     222     155     114     88     70     565       22 Ga.     1     POS     595     321     208     144     107     82     65     53       22 Ga.     2     POS     683     389     251     175     129     99     78     633       3     POS     6443     483     312     218     160     123     97     79       4     POS     791     452     292     203     150     115     91     74       Base     Total     Panel     Compression     Compression     Compression     Fb       Steel     Base     Total     Panel     Yeight     Compression     Compression     Fb       22 Ga.     50     0.0325     0.0316     1.77     0.123     0.044     0.043     1.28     30       22 Ga.     50     0.0326     0.0316     1.77     0.123     0.034     0.066     1.79	24.00	2		POS	484	277	179	125	92	70	56	45
1     POS     970     546     349     242     178     136     108     87       22 Ga.     2     POS     663     389     251     175     129     99     78     63       4     POS     791     452     292     203     150     115     91     74       Engineering Properties of American Buildings Company 16" SeamLoc Panel       Designated     Steel     Base     Total     Panel     Top In     Compression     Compression     Fb       Steel     (n.)     (n.)     (bs./tt.3)     (n.4'/tt.) (n.3'/tt.)     K-IN.     (n.4'/tt.)	24 Ga.	3		POS	595	343	222	155	114	88	70	56
1     POS     970     546     349     242     178     136     108     87       2     Qa     3     POS     643     483     339     251     175     129     99     78     63       4     POS     791     452     292     203     150     115     91     74       Engineering Properties of American Buildings Company 16" SeamLoc Panel       Designated     Steel     Base     Total     Panel     Top in     Compression     Compression     Fb       Steel     (in,)     (in,*/, in,)		4	4		558	321	208	145	107	82	65	53
22 Ga.     2     POS     663     389     251     175     128     999     78     633       3     POS     843     483     312     218     160     123     97     79       4     POS     791     452     292     203     150     115     91     74       Besignated Gage     Steel     Base     Total (n, )     Panel     Top In (lbs. / ft. <sup>2</sup> )     Bottom In (lbs. / ft. <sup>2</sup> )     Bottom In (lbs. / ft. <sup>2</sup> )     Bottom In (lbs. / ft. <sup>2</sup> )     KN     Ma     K     Sx     Ma     K     Sx     Ma     K     Sx     Ma     KSI     Fb     Fb <td colspan="2"></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td>						-		-	-	-		
22 Ga.     3     POS     843     483     312     218     160     123     97     79       tengineering Properties of American Buildings Company 16" SeamLoc Panel       Designated Gage     Steel     Base     Total     Panel     Total     Panel     Top In     Bottom In       24 Ga.     50     0.0225     0.0211     1.35     0.094     0.059     1.78     0.044     0.443     1.28     30       24 Ga.     50     0.0225     0.0211     1.35     0.099     1.78     0.044     0.443     1.28     30       24 Ga.     50     0.03016     1.77     0.123     0.089     1.78     0.044     0.443     1.28     30       24 Ga.     50     0.03016     1.77     0.123     0.00     3.50     4.00     4.59     5.00       24 Ga.     1     POS     527     297     190     132     97     74     59     47       24 Ga.     2     POS     363     208     <												
4     POS     731     452     292     203     150     115     91     74       Engineering Properties of American Buildings Company 16" SeamLoc Panel       Base     Total     Panel     Top In     Bottom In     Compression     Fb       of     KSI     Thick.     (In.)     It     K     Steel     Matal     Thick.     K     Steel     Steel     Steel     K     Steel     K     Matal     It     K     St     Ma     K     St     Matal     Compression     Compression     Fb     KSI     K     Na     K     St     Matal     Na     K     St     Matal     KSI     Steel     0.0225     0.0241     1.36     0.094     0.78     0.046     0.043     1.28     30        O     Composition     Compression     Compression     Compression     Steel	22 Ga.											
Engineering Properties of American Buildings Company 16" SeamLoc Panel       Designated Gage     Steel     Base     Total Thick.     Panel Weight     Top In Compression     Bottom In Compression     Fb       24 Ga.     50     0.0225     0.0241     1.35     0.094     0.059     1.78     0.044     0.43     1.28     30       22 Ga.     50     0.0306     0.03016     1.77     0.123     0.084     2.51     0.064     0.043     1.28     30       Gage of of     of     Type     Type     Span Lengths, Ft.     Type     Span Lengths, Ft.     Type       Panel     Spans     1.50     2.00     2.50     3.00     3.50     4.00     4.50     5.00       24 Ga.     1     POS     527     297     190     1.32     97     74     59     42     34       24 Ga.     1     POS     541     244     245     100     80     62     49     400       22 Ga.     1     POS     543     363 <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>÷.</td> <td></td>			-					-			÷.	
Designated Gage     Steel Yield     Base Metal Metal (n.)     Total (n.)     Panel Weight (h.)     Top in Version     Bottom in Compression     Fb       24 Ga.     50     0.0225     0.0241     1.35     0.094     0.059     1.78     0.044     0.043     1.28     30       22 Ga.     50     0.0225     0.0241     1.35     0.094     0.059     1.78     0.044     0.043     1.28     30       22 Ga.     50     0.0300     0.0316     1.77     0.123     0.084     2.51     0.065     0.60     1.79     30       Gage     No.     Load     Maximum Total Uniform Load in PSF     500     0.00     1.74     59     47       24 Ga.     2     POS     363     2.08     134     94     69     53     42     34       24 Ga.     3     POS     4419     241     156     109     80     62     49     400       22 Ga.     1     POS     554     363     234     163 <td< td=""><td></td><td colspan="2"></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>74</td></td<>											-	74
Gage of f     Yield (KSI     Metal Thick. (n,)     Thick. (n,)     Weight (bs./t. <sup>2</sup> ) (n, <sup>4</sup> /f.)     Compression     Compression     Fb     Fb       24 Ga.     50     0.0225     0.0241     1.35     0.094     0.059     1.78     0.044     0.043     1.28     30       22 Ga.     50     0.0300     0.0316     1.77     0.123     0.084     2.51     0.065     0.060     1.79     30       Gage of     0     0     0     1.77     0.123     0.084     2.51     0.065     0.060     1.79     30       Gage of     0     0     7     Verification     Verification     No     1.79     30       24 Ga.     1     POS     527     297     190     132     97     74     59     47       24 Ga.     1     POS     447     257     167     117     86     66     52     42       4     POS     513     292     188     131     97     74     5		Enginee	ering Pro	operties	of Ameri	ican Bui	ldings C	ompany	16" Sea	amLoc P	anel	
of Steel     KSI (n,)     Thick. (n,)     (n,)     (bs. / ft.) (n,)     k     Sx     Ma     lx     Sx     Ma     KSI       24 Ga.     50     0.0225     0.0241     1.35     0.094     0.059     1.78     0.044     0.043     1.28     30       22 Ga.     50     0.0225     0.0241     1.77     0.123     0.084     2.51     0.065     0.660     1.79     30       Gage of     f     of     Type      Maximum Total Uniform Load in PSF     50     4.00     4.50     5.00       24 Ga.     2     POS     363     206     134     94     69     53     42     34       24 Ga.     3     POS     447     257     167     117     86     66     52     42       22 Ga.     2     POS     513     292     148     136     105     83     67       22 Ga.     3     POS     634     363     234     163     120 <t< td=""><td>Designated</td><td>Steel</td><td>Base</td><td>Total</td><td>Panel</td><td></td><td>Top In</td><td></td><td colspan="3">Bottom In</td><td></td></t<>	Designated	Steel	Base	Total	Panel		Top In		Bottom In			
Steel     Image: Constraint of the constraint o	Gage	Yield	Metal	Thick.	Weight	C	ompressio	n	C	compressio	n	Fb
Steel     Image: Constraint of the constraint o		KSI	Thick						lx	Sx	Ma	KSI
24 Ga.     50     0.0225     0.0241     1.35     0.094     0.059     1.78     0.044     0.043     1.28     30       22 Ga.     50     0.0300     0.0316     1.77     0.123     0.084     2.51     0.065     0.060     1.79     30       Gage of of of     No.     Load     Maximum Total Uniform Load in PSF     Span Lengths, Ft.     Span Lengths, Ft.     Span Lengths, Ft.       24 Ga.     1     POS     527     297     190     132     97     74     59     477       24 Ga.     2     POS     333     208     134     94     66     52     42     34       24 Ga.     1     POS     527     297     167     117     86     66     52     42     34       24 Ga.     1     POS     513     292     188     131     97     74     59     477       22 Ga.     Steel     Metal     Thick.     POS     594     330     213     86		i toi		()	(100. / 10. )							
22 Ga.     50     0.0300     0.0316     1.77     0.123     0.064     2.51     0.065     0.060     1.79     30       Gage of of of of of     No. of of     Load of     No. of     Load of     Maximum Total Uniform Load in PSF Span Lengths, Ft.     Spans     No.     Load 0     Maximum Total Uniform Load in PSF       24 Ga.     2     POS     527     297     190     132     97     74     59     47       24 Ga.     2     POS     363     208     134     94     69     53     42     34       24 Ga.     2     POS     447     257     167     117     86     66     52     42       4     POS     743     418     268     186     136     105     83     67       22 Ga.     3     POS     634     363     224     163     113     86     68     55       of     Kst     Thick.     Panel     Vieit     Panel     Maximum Total Uniform Load in PS							· · · /			( )		
Gage of Panel     No. Spans     Load Type     Maximum Total Uniform Load in PSF       24 Ga.     1     POS     527     297     190     132     97     74     59     47       24 Ga.     2     POS     363     208     134     94     69     53     42     34       3     POS     447     257     167     117     86     66     52     42       4     POS     447     257     167     117     86     66     52     42       2     POS     513     292     188     131     97     74     59     47       3     POS     634     363     224     165     105     83     67       2     POS     594     340     219     153     113     86     68     55       Engineering Properties of American Buildings Company 18" SeamLoc Panel     Dor Panel     Bottom In     Compression     Fb       3     POS     634     0.0351<			0.0100									
of Panel     Of Spans     Type     Span Lengths, Ft.       24 Ga.     1     POS     527     297     190     132     97     74     59     47       24 Ga.     2     POS     363     208     134     94     69     53     42     34       3     POS     447     257     167     117     86     66     52     42       4     POS     447     257     167     117     86     66     52     42       2     POS     743     418     268     186     105     83     67       22 Ga.     1     POS     533     292     188     131     97     74     59     47       3     POS     634     363     234     163     113     86     68     55        Foreit     Base     Trick.     No.     Compression     Compression     Foreission     Foreission     Foreission     Foreiss	22 Ga.	50	0.0300	0.0316	1.77	0.123	0.084	2.51	0.065	0.060	1.79	30
Panel     Spans     1.50     2.00     2.50     3.00     3.50     4.00     4.50     5.00       24 Ga.     1     POS     527     297     190     132     97     74     59     47       24 Ga.     3     POS     447     257     167     117     86     66     52     42     34       4     POS     447     257     167     117     86     66     52     42     34       4     POS     419     241     156     109     80     62     49     40       2     POS     513     292     188     131     97     74     59     47       3     POS     634     363     234     163     120     92     73     59       4     POS     594     340     219     153     133     86     68     55       Engine=ring Peroperties of American Buildings Company 18" SeamLoc Panel     SeamLoc Panel     Son	Gage	Gage No.		Load	Maximum Total Uniform Load in PSF							
Panel     Spans     1.50     2.00     2.50     3.00     3.50     4.00     4.50     5.00       24 Ga.     2     POS     527     297     190     132     97     74     59     47       24 Ga.     3     POS     447     257     1167     1117     86     66     52     42     34       4     POS     447     257     1167     1117     86     66     52     42     34       2     POS     447     257     1167     1117     86     66     52     42     34       22 Ga.     1     POS     743     418     268     136     136     105     83     67       3     POS     634     363     234     163     120     92     73     59       4     POS     594     340     219     153     113     66     65     55       Engine=tring Peropertics of American Bate     Compression	of	of		Type								
24 Ga.     1     POS     527     297     190     132     97     74     59     47       24 Ga.     2     POS     363     208     134     94     69     53     42     34       3     POS     447     257     167     117     86     66     52     42     34       4     POS     4419     241     156     109     80     62     49     40       22 Ga.     1     POS     743     418     268     186     136     105     83     67       3     POS     634     363     234     163     120     92     73     59        Steel     Base     Total     Panel     Yeight     Compression     Compression     Fb       KSI     Mick.     (In.)     Panel     Yeight     Compression     Compression     Fb       Stele     No.     Load     No.     Load     No     No	Panel											
24 Ga.     2     POS     363     208     134     94     69     53     42     34       3     POS     447     257     167     117     86     66     52     42       4     POS     449     241     156     109     80     62     49     40       2     POS     513     292     188     131     97     74     59     47       3     POS     634     363     234     163     120     92     73     59       4     POS     594     340     219     153     113     86     68     55       Engine=ring Properties of American Buildings Company 18" SeamL oc Panel       Designated Gage     KSI     Thick.     (In.)     Panel     Compression     Compression     Fb       24 Ga.     50     0.0225     0.0241     1.31     0.085     0.053     1.59     0.039     0.038     1.14     30       22 Ga.     50 <td></td> <td>SD</td> <td>ans</td> <td></td> <td>1.50</td> <td>2.00</td> <td>2.50</td> <td>3.00</td> <td>3.50</td> <td>4.00</td> <td>4.50</td> <td>5.00</td>		SD	ans		1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00
24 (3a.     3     POS     447     257     167     117     86     66     52     442       4     POS     449     241     156     109     80     62     49     40       2     POS     513     292     188     131     97     74     59     47       3     POS     634     363     234     163     120     92     73     59       4     POS     594     340     219     153     113     86     68     55       Engine=tring Properties of American Buildings Company 18" SeamLoc Panel       Designated     Steel     Base     Total     Panel     Top I     Bottom In     Compression     Fb       Steel     Metal     Thick.     (In.)     (In.3 <sup>1</sup> /t.)     K-IN.     (In.3 <sup>1</sup> /t.)     K-IN.     Sa     Ma     KS     Ma     KSI		Spa	ans	POS								
4     POS     419     241     156     109     80     62     49     400       22 Ga.     1     POS     743     418     268     186     136     105     83     67       3     POS     634     363     224     163     120     92     73     59       4     POS     634     363     224     163     120     92     73     59       Designated Gage     Stell     Base     Total     Panel     Yeight     Compression     Bottom In     Bottom In     Fb       22 Ga.     50     0.0225     0.0241     1.31     0.085     0.053     1.59     30       22 Ga.     50     0.0300     0.0316     1.72     0.112     0.075     2.25     0.057     0.053     1.59     30       Gage     No.     Load     1.50     2.00     2.50     3.00     3.50     4.00     4.50     5.00       24 Ga.     2     POS <t< td=""><td></td><td></td><td></td><td></td><td>527</td><td>297</td><td>190</td><td>132</td><td>97</td><td>74</td><td>59</td><td>47</td></t<>					527	297	190	132	97	74	59	47
1     POS     743     418     268     186     136     105     83     67       2     POS     513     292     188     131     97     74     59     47       3     POS     634     363     234     163     120     92     73     59       4     POS     634     363     234     163     113     86     68     55       Engineering Properties of American Buildings Company 18" SeamLoc Panel       Designated Gage     Steel     Base     Total. (In.)     Panel (Us). / ft.?)     Compression     Compression     Fb       24 Ga.     50     0.0225     0.0241     1.31     0.085     0.053     1.59     0.039     0.038     1.14     30       22 Ga.     50     0.0225     0.0241     1.31     0.085     0.053     1.59     0.039     0.038     1.14     30        Load     of     Type     Sam Lengths, Ft.     Sam Lengths, Ft.     Sam Lengths, Ft.	24 Ga.	1	1 2	POS	527 363	297 208	190 134	132 94	97 69	74 53	59 42	47 34
22 Ga.     2     POS     513     202     118     131     97     174     59     47       3     POS     634     363     234     163     120     92     73     59       Engineeting Properties of American Buildings Company 18" SeamLoc Panel     Base     Total     Panel     Total     Panel     Total     Panel     Total     Main and the second	24 Ga.		1 2 3	POS POS	527 363 447	297 208 257	190 134 167	132 94 117	97 69 86	74 53 66	59 42 52	47 34 42
22 Ga.     3     POS     634     363     234     163     120     92     73     59       Engine=ring Properties of American Buildings Company 18" SeamLoc Panel Gage of KSI     Base Yield (In.)     Total (In.)     Panel Weight (In.)     Total (In. <sup>3</sup> /f.1)     Panel KSI     Total Thick.     Panel Weight (In. <sup>3</sup> /f.1)     Sx     Ma     Ix     Sx     Ma     KSI       24 Ga.     50     0.0300     0.0316     1.72     0.112     0.075     2.25     0.057     0.053     1.59     30       Gage of of of d     No.     Load d     1.72     0.112     0.075     2.25     0.057     0.053     1.59     30       Gage of d     0.     Load d     1.50     2.00     2.50     3.00     3.50     4.00     4.50     5.00       24 Ga.     2     POS     337     215     139     97     71     55     43     355       24 Ga.     1     POS     470     265     169     118     86     66     52     42<	24 Ga.		1 2 3 4	POS POS POS	527 363 447 419	297 208 257 241	190 134 167 156	132 94 117 109	97 69 86 80	74 53 66 62	59 42 52 49	47 34 42 40
4     POS     594     340     219     153     113     86     68     555       Engineering Properties of American Buildings Company 18" SeamLoc Panel       Designated Gage of     Steel KSI     Base Thick. (In.)     Total Thick. (In.)     Panel (In.)     Top In Compression     Bottom In Compression     Bottom In Compression     Fb       24 Ga.     50     0.0225     0.0241     1.31     0.085     0.053     1.59     0.039     0.038     1.14     30       22 Ga.     50     0.0225     0.0241     1.31     0.085     0.053     1.59     0.039     0.038     1.14     30       22 Ga.     50     0.0225     0.0241     1.31     0.085     0.053     1.59     0.038     1.14     30       22 Ga.     50     0.0225     0.0241     1.72     0.075     2.25     0.053     1.59     30       Gage     No.     Load     Maximum Total Uniform Load in PSF     Span Lengths, Ft.     Span Lengths, Ft.     4     2     POS     337     225	24 Ga.		1 2 3 4	POS POS POS	527 363 447 419 743	297 208 257 241 418	190 134 167 156 268	132 94 117 109 186	97 69 86 80 136	74 53 66 62 105	59 42 52 49 83	47 34 42 40 67
Engineering Properties of American Buildings Company 18" SeamLoc Paul       Designated Gage of (KS)     Steel (Inc)     Base Metal (Inc)     Total Thick. (In.)     Panel Weight (Ibs. / ft. <sup>2</sup> )     Top In Compression     Bottom In Compression     Fb       24 Ga.     50     0.0225     0.0241     1.31     0.085     0.075     2.25     0.039     0.038     1.14     30       22 Ga.     50     0.0300     0.0316     1.72     0.112     0.075     2.25     0.057     0.053     1.59     30       Gage of of     No.     Load of     Load Type     Maximum Total Uniform Load in PSF     500     5.00     3.00     3.50     4.00     4.50     5.00       24 Ga.     1     POS     470     265     169     118     86     66     52     42       2     POS     3373     215     139     97     71     55     43     355       24 Ga.     1     POS     373     215     139     97     71     55     43     355 <t< td=""><td></td><td></td><td>1 2 3 4 1 2</td><td>POS POS POS POS</td><td>527 363 447 419 743 513</td><td>297 208 257 241 418 292</td><td>190 134 167 156 268 188</td><td>132 94 117 109 186 131</td><td>97 69 86 80 136 97</td><td>74 53 66 62 105 74</td><td>59 42 52 49 83 59</td><td>47 34 42 40 67 47</td></t<>			1 2 3 4 1 2	POS POS POS POS	527 363 447 419 743 513	297 208 257 241 418 292	190 134 167 156 268 188	132 94 117 109 186 131	97 69 86 80 136 97	74 53 66 62 105 74	59 42 52 49 83 59	47 34 42 40 67 47
Designated Gage of     Steel (NSI (In.)     Base (In.)     Total Thick. (In.)     Panel Weight (Ibs. / ft. <sup>2</sup> )     Top In Compression     Bottom In Compression     Fb KSI       24 Ga.     50     0.0225     0.0241     1.31     0.085     0.053     1.59     0.039     0.038     1.14     30       22 Ga.     50     0.0300     0.0316     1.72     0.112     0.075     2.25     0.057     0.053     1.59     30       Gage of of of     No.     Load (Type     Load 22     V     Variation of type     Span Lengths, Ft.			1 2 3 4 1 2 3	POS POS POS POS POS	527 363 447 419 743 513 634	297 208 257 241 418 292 363	190 134 167 156 268 188 234	132 94 117 109 186 131 163	97 69 86 80 136 97 120	74 53 66 62 105 74 92	59 42 52 49 83 59 73	47 34 42 40 67 47 59
Gage of Steel     Yield KSI     Metal Thick. (In.)     Thick. (In.)     Thick. (In.)     Weight (Ibs. / ft. <sup>2</sup> )     Compression     Compression     Fb KSI       24 Ga.     50     0.0225     0.0241     1.31     0.085     0.0533     1.59     30       22 Ga.     50     0.0300     0.0316     1.72     0.112     0.075     2.25     0.057     0.053     1.59     30       Gage of of of of a     No.     Load of a     Image: Compression of the second s			1 2 3 4 1 2 3	POS POS POS POS POS	527 363 447 419 743 513 634	297 208 257 241 418 292 363	190 134 167 156 268 188 234	132 94 117 109 186 131 163	97 69 86 80 136 97 120	74 53 66 62 105 74 92	59 42 52 49 83 59 73	47 34 42 40 67 47 59
Gage of Stel     Yield KSI     Metal Thick. (ln.)     Thick. (ln.)     Weight (lbs.) ft. <sup>2</sup> )     Compression     Compression     Fb KSI     Fb KSI       3     0.0225     0.0241     1.31     0.085     0.053     1.59     0.0303     1.14     30       22 Ga.     50     0.0300     0.0316     1.72     0.112     0.075     2.25     0.057     0.053     1.59     30       Gage of     0     0     0.0316     1.72     0.112     0.075     2.25     0.057     0.053     1.59     30       Gage of     of     Type     1.50     2.00     2.50     3.00     3.05     4.00     4.50     5.00       24 Ga.     9     POS     337     226     1.69     118     86     66     52     422       4     POS     337     221     148     104     76     59     446     38       4     POS     373     215     139     97     71     55     43     35			1 2 3 4 1 2 2 3 4	POS POS POS POS POS POS	527 363 447 419 743 513 634 594	297 208 257 241 418 292 363 340	190 134 167 156 268 188 234 219	132 94 117 109 186 131 163 153	97 69 86 80 136 97 120 113	74 53 66 62 105 74 92 86	59 42 52 49 83 59 73 68	47 34 42 40 67 47 59
of Steel     KSI (n,)     Thick. (n,)     (n,)     (lb., ft.)     k     Sx     Ma     k     Sx     Ma     KSI       24 Ga.     50     0.0225     0.0211     1.31     0.085     0.053     1.59     0.038     1.14     30       22 Ga.     50     0.0326     0.0316     1.72     0.172     0.075     2.25     0.053     1.59     303     1.44     30       Gage of f     of f     of f     Type     Maximum Total Uniform Load in PSF     50     0.053     1.59     30       24 Ga.     2     POS     470     265     169     118     86     66     52     42       24 Ga.     1     POS     373     215     139     97     71     55     43     35       22 Ga.     1     POS     666     375     240     166     122     94     74     60       2 OS     308     225     186     166     52     42     2     90S </td <td>22 Ga.</td> <td>Enginee</td> <td>2 3 4 2 3 4 4 ering Pro</td> <td>POS POS POS POS POS POS POS</td> <td>527 363 447 419 743 513 634 594 of Ameri</td> <td>297 208 257 241 418 292 363 340</td> <td>190 134 167 156 268 188 234 219 dings C</td> <td>132 94 117 109 186 131 163 153</td> <td>97 69 86 80 136 97 120 113</td> <td>74 53 66 205 74 92 86 amLoc P</td> <td>59 42 52 49 83 59 73 68</td> <td>47 34 42 40 67 47 59</td>	22 Ga.	Enginee	2 3 4 2 3 4 4 ering Pro	POS POS POS POS POS POS POS	527 363 447 419 743 513 634 594 of Ameri	297 208 257 241 418 292 363 340	190 134 167 156 268 188 234 219 dings C	132 94 117 109 186 131 163 153	97 69 86 80 136 97 120 113	74 53 66 205 74 92 86 amLoc P	59 42 52 49 83 59 73 68	47 34 42 40 67 47 59
Steel     Instruction     (Instruction)	22 Ga. Designated	Enginee	2 3 4 2 3 4 ering Pro Base	POS POS POS POS POS POS POS perties Total	527 363 447 419 743 513 634 594 of Ameri Panel	297 208 257 241 418 292 363 340 can Bui	190 134 167 268 188 234 219 dings C Top In	132 94 117 109 186 131 163 153 ompany	97 69 86 80 136 97 120 113 13 18" Sea	74 53 66 62 105 74 92 86 mLoc P Bottom In	59 42 52 49 83 59 73 68 anel	47 34 42 40 67 47 59 55
24 Ga.     50     0.0225     0.0241     1.31     0.085     0.053     1.59     0.039     0.038     1.14     30       22 Ga.     50     0.0300     0.0316     1.72     0.112     0.075     2.25     0.057     1.59     30.053     1.59     30       Gage of of Panel     No.     Load Type     Maximum Total Uniform Load in PSF       24 Ga.     1     POS     470     265     169     118     86     66     52     42       24 Ga.     1     POS     373     215     139     97     71     55     43     35       24 Ga.     1     POS     666     375     240     166     122     94     74     60       3     POS     373     215     139     97     71     55     43     35       4     POS     373     245     166     122     94     74     60       2     POS     456     260     167     1	22 Ga. Designated Gage	Enginee Steel Yield	2 3 4 2 3 4 4 ering Pro Base Metal	POS POS POS POS POS POS POS <b>perties</b> Total Thick.	527 363 447 419 743 513 634 594 of Ameri Panel Weight	297 208 257 241 418 292 363 340 ican Bui	190 134 167 268 188 234 219 dings C Top In Compressio	132 94 117 109 186 131 163 153 ompany	97 69 86 80 136 97 120 113 13 18" Sea	74 53 66 62 105 74 92 86 amLoc P Bottom In compressio	59 42 52 49 83 59 73 68 anel	47 34 42 40 67 47 59 55 55
22 Ga.     50     0.0300     0.0316     1.72     0.112     0.075     2.25     0.057     0.053     1.59     30       Gage of of of end of     No. of     Load of     Load Type     Maximum Total Uniform Load in PSF       Panel     Spans     1.50     2.00     2.50     3.00     3.50     4.00     4.50     5.00       24 Ga.     2     POS     337     229     148     104     76     59     44     33       24 Ga.     1     POS     373     215     139     97     71     55     43     35       22 Ga.     1     POS     456     260     167     117     86     66     52     42       3     POS     373     215     139     97     71     55     43     35       22 Ga.     3     POS     456     260     167     117     86     66     52     42       3     POS     456     200     167     <	22 Ga. Designated Gage of	Enginee Steel Yield	2 3 4 2 3 4 4 ering Pro Base Metal Thick.	POS POS POS POS POS POS POS <b>perties</b> Total Thick.	527 363 447 419 743 513 634 594 of Ameri Panel Weight	297 208 257 241 418 292 363 340 ican Buil	190 134 167 268 188 234 219 dings C Top In Compressio Sx	132 94 117 109 186 131 163 153 ompany n Ma	97 69 86 80 136 97 120 113 13 <b>18" Sea</b> <b>C</b>	74 53 66 62 105 74 92 86 amLoc P Bottom In compressio Sx	59 42 52 49 83 59 73 68 anel m	47 34 42 40 67 47 59 55 55
Gage of Panel     No. Spans     Load Type     Maximum Total Uniform Load in PSF       Panel     Spans     1.50     2.00     2.50     3.00     3.50     4.00     4.50     5.00       24 Ga.     2     POS     323     165     119     83     61     477     37     30       4     POS     337     229     148     104     76     59     46     38       4     POS     373     215     139     97     71     55     43     35       22 Ga.     2     POS     466     323     216     117     86     66     52     42       3     POS     367     249     148     104     76     59     46     38       22 POS     366     375     240     166     122     94     74     60       22 POS     456     260     167     117     86     66     52     42       3     POS     563	22 Ga. Designated Gage of Steel	Enginee Steel Yield KSI	2 3 4 2 3 4 ering Pro Base Metal Thick. (In.)	POS POS POS POS POS POS POS perties Total Thick. (In.)	527 363 447 419 743 513 634 594 of Ameri Veight (lbs. / ft. <sup>2</sup> )	297 208 257 241 418 292 363 340 can Bui can Bui	190 134 167 268 188 234 219 clings C Top In compressio Sx (In. <sup>3</sup> / ft.)	132 94 117 109 186 131 163 153 ompany n Ma K-IN.	97 69 86 80 136 97 120 113 <b>18" Sea</b> C Ix (In. <sup>4</sup> / ft.)	74 53 66 62 105 74 92 86 amLoc P Bottom In compressio Sx (In. <sup>3</sup> / ft.)	59 42 52 49 83 59 73 68 anel m Ma K-IN.	47 34 42 40 67 47 59 55 55 Fb KSI
of Panel     Of Spans     Type     Span Lengths, Ft.       1     POS     1.50     2.00     2.50     3.00     3.50     4.00     4.50     5.00       24 Ga.     1     POS     323     185     119     83     61     47     37     30       3     POS     337     229     148     104     76     59     46     38       4     POS     373     215     139     97     71     55     43     35       4     POS     666     375     240     166     122     94     74     60       22 Ga.     2     POS     456     260     167     117     86     66     52     422       3     POS     563     323     208     145     107     82     655     53	22 Ga. Designated Gage of Steel 24 Ga.	Enginee Steel Yield KSI 50	2 3 4 2 3 4 2 3 4 2 3 4 2 3 4 2 3 3 4 2 3 3 4 2 3 3 4 2 3 3 4 4 5 7 6 7 6 7 7 7 7 8 8 8 4 7 7 7 8 8 8 8 8 8 8 8 8	POS POS POS POS POS POS POS Derties Total Thick. (In.)	527 363 447 419 743 513 634 594 of Ameri Weight (lbs. / ft. <sup>2</sup> ) 1.31	297 208 257 241 418 292 363 340 can Bui can Bui (In. <sup>4</sup> / ft.) 0.085	190 134 167 268 188 234 219 clings C Top In compressio Sx (In. <sup>3</sup> / ft.) 0.053	132 94 117 109 186 131 163 153 <b>ompany</b> n Ma K-IN. 1.59	97 69 86 80 136 97 120 113 18" Sea C (In. <sup>4</sup> / ft.) 0.039	74 53 66 62 105 74 92 86 amLoc P Bottom In compressio Sx (In. <sup>3</sup> / ft.) 0.038	59 42 52 49 83 59 73 68 anel m Ma K-IN. 1.14	47 34 42 40 67 47 59 55 55 55 55
Panel     Spans     1.50     2.00     2.50     3.00     3.50     4.00     4.50     5.00       24 Ga.     1     POS     470     265     169     118     86     66     52     42       24 Ga.     3     POS     337     229     148     104     76     59     46     38       4     POS     373     215     139     97     71     55     43     35       4     POS     666     375     240     166     122     94     74     60       22 Ga.     2     POS     456     260     167     117     86     66     52     422       22 Ga.     3     POS     563     323     208     145     107     62     65     53	22 Ga. Designated Gage of Steel 24 Ga.	Enginee Steel Yield KSI 50	2 3 4 2 3 4 2 3 4 2 3 4 2 3 4 2 3 3 4 2 3 3 4 2 3 3 4 2 3 3 4 4 5 7 6 7 6 7 7 7 7 8 8 8 4 7 7 7 8 8 8 8 8 8 8 8 8	POS POS POS POS POS POS POS Derties Total Thick. (In.)	527 363 447 419 743 513 634 594 of Ameri Weight (lbs. / ft. <sup>2</sup> ) 1.31	297 208 257 241 418 292 363 340 can Bui can Bui (In. <sup>4</sup> / ft.) 0.085	190 134 167 268 188 234 219 clings C Top In compressio Sx (In. <sup>3</sup> / ft.) 0.053	132 94 117 109 186 131 163 153 <b>ompany</b> n Ma K-IN. 1.59	97 69 86 80 136 97 120 113 18" Sea C (In. <sup>4</sup> / ft.) 0.039	74 53 66 62 105 74 92 86 amLoc P Bottom In compressio Sx (In. <sup>3</sup> / ft.) 0.038	59 42 52 49 83 59 73 68 anel m Ma K-IN. 1.14	47 34 42 40 67 47 59 55 55 55 55
Panel     Spans     1.50     2.00     2.50     3.00     3.50     4.00     4.50     5.00       24 Ga.     1     POS     470     265     169     118     86     66     52     42       24 Ga.     3     POS     337     229     148     104     76     59     46     38       4     POS     373     215     139     97     71     55     43     35       4     POS     666     375     240     166     122     94     74     60       22 Ga.     2     POS     456     260     167     117     86     66     52     422       22 Ga.     3     POS     563     323     208     145     107     62     65     53	22 Ga. Designated Gage of Steel 24 Ga. 22 Ga.	Enginee Steel Yield KSI 50	2 3 4 2 3 4 9 7 1 9 8 3 4 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	POS POS POS POS POS POS POS POS Total Thick. (In.) 0.0241 0.0316	527 363 447 419 743 513 634 594 of Ameri Weight (lbs. / ft. <sup>2</sup> ) 1.31	297 208 257 241 418 292 363 340 <b>can Bui</b> <b>con Bui</b> <b>con Bui</b> 0.085 0.112	190 134 167 156 2688 188 234 219 dings C Top In compressio Sx (In. <sup>3</sup> / ft.) 0.053 0.075	132 94 117 109 186 131 163 153 <b>ompany</b> n <u>Ma</u> K-IN. 1.59 2.25	97 69 86 80 136 97 120 113 <b>18" Sec</b> (In. <sup>4</sup> / ft.) 0.039 0.057	74 53 66 62 1055 744 92 86 80 80 80 92 80 80 92 92 80 92 80 92 80 92 80 92 80 92 80 92 80 92 80 92 80 92 80 92 80 92 80 92 80 92 80 92 92 80 92 92 80 92 92 92 92 80 92 92 92 92 92 92 92 92 92 92 92 92 92	59 42 52 49 83 59 73 68 anel m K-IN. 1.14 1.59	47 34 42 40 67 47 59 55 55 55 55 55 55 55 55 55 55 55 55
1     POS     470     265     169     118     86     66     52     422       24 Ga.     2     POS     323     185     119     83     61     47     37     30       3     POS     397     229     148     104     76     59     46     38       4     POS     373     215     139     97     71     55     43     35       1     POS     666     375     240     166     122     94     74     60       22 POS     456     260     167     117     86     66     52     422       22 POS     456     260     167     117     86     65     52     42       3     POS     563     323     208     145     107     82     65     55	22 Ga. Designated Gage of Steel 24 Ga. 22 Ga. Gage	Enginee Steel Yield KSI 50 50	2 3 4 2 3 4 9 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	POS POS POS POS POS POS POS POS Total Thick. (In.) 0.0241 0.0316 Load	527 363 447 419 743 513 634 594 of Ameri Weight (lbs. / ft. <sup>2</sup> ) 1.31	297 208 257 241 418 292 363 340 <b>can Bui</b> <b>con Bui</b> <b>con Bui</b> 0.085 0.112	190 134 167 156 2688 188 234 219 dings C Top In compressio Sx (In. <sup>3</sup> / ft.) 0.053 0.075	132 94 117 109 186 131 163 153 ompany n Ma K-IN. 1.59 2.25 Total Ur	97 69 86 800 136 97 120 113 <b>18" Sea</b> (In. <sup>4</sup> /ft.) 0.039 0.057	74 53 66 62 1055 74 8 8 8 8 0000 P 8 0000 P 8 0000 Sx (n. <sup>3</sup> / ft.) 0.038 0.053	59 42 52 49 83 59 73 68 anel m K-IN. 1.14 1.59	47 34 42 40 67 47 59 55 55 55 55
2     POS     323     185     119     83     61     47     37     30       3     POS     397     229     148     104     76     59     46     38       4     POS     337     215     139     97     71     55     43     35       4     POS     666     375     240     166     122     94     74     60       22 Ga.     Q     POS     456     260     167     117     86     66     52     42       3     POS     563     323     208     145     107     82     65     53	22 Ga. Designated Gage of Steel 24 Ga. 22 Ga. Cage of	Enginee Steel Yield KSI 50 50	2 3 4 2 3 4 5 8 8 9 8 8 9 8 9 9 8 9 9 9 9 9 9 9 9 9	POS POS POS POS POS POS POS POS Total Thick. (In.) 0.0241 0.0316 Load	527 363 447 743 513 634 594 634 594 634 634 634 594 0 Ameri Weight (lbs. / ft. <sup>2</sup> ) 1.31 1.72	297 208 257 241 418 292 363 340 can Buil can Buil (n. <sup>4</sup> / ft.) 0.085 0.112	190 134 167 156 268 188 234 219 dings C Top In compressio Sx (In. <sup>3</sup> / ft.) 0.075 Maximum	132 94 117 109 1866 131 163 153 <b>ompany</b> <b>Ma</b> K-IN. 1.59 2.25 <b>Total Ur</b> Span Lei	97 69 86 80 1366 97 120 113 <b>18" Sea</b> (In. <sup>4</sup> / ft.) 0.057 iform Loc rgths, Ft.	74 53 66 62 105 74 92 86 mLoc P Bottom In compressio Sx (In. <sup>3</sup> / ft.) 0.053 0.053	59 42 52 49 83 59 73 68 anel Ma K-IN. 1.14 1.59 =	47 34 40 67 47 59 55 <b>Fb</b> <b>KSI</b> 30 30
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	22 Ga. Designated Gage of Steel 24 Ga. 22 Ga. Cage of	Enginee Steel Yield KSI 50 50 Spi	2 3 4 2 2 3 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	POS POS POS POS POS POS POS Total Thick. (In.) 0.0241 0.0316 Load Type	527 363 447 743 513 634 594 <b>of Ameri</b> Panel Weight (lbs. / ft. <sup>2</sup> ) 1.31 1.72	297 208 257 241 418 292 363 340 <b>can Bui</b> <b>can Bui</b> <b>can Bui</b> 0.085 0.112 0.085 0.112	190 134 167 1566 268 188 234 219 dings C Top In compressio Sx (In. <sup>3</sup> / ft.) 0.053 0.075 Maximum 2.50	132 94 117 1099 186 131 163 153 ompany n Ma K-IN. 1.59 2.25 Total Ur Span Ler 3.00	97 69 86 80 136 97 120 113 18" Sec C C (n. <sup>4</sup> / ft.) 0.039 0.057 iform Loc ogths, Ft. 3.50	74 53 66 62 105 74 92 86 mLoc P Bottom In compressio Sx (n. <sup>3</sup> / ft.) 0.038 0.053 ad in PSF	59 42 52 49 83 59 73 68 anel Ma K-IN. 1.14 1.59 5	47 34 40 67 47 59 55 <b>Fb</b> KSI 30 30 30
4     POS     373     215     139     97     71     55     43     35       1     POS     666     375     240     166     122     94     74     60       22     POS     456     260     167     117     86     66     52     42       3     POS     563     323     208     145     107     82     655     53	22 Ga. Designated Gage of Steel 24 Ga. 22 Ga. Gage of Panel	Enginee Steel Yield KSI 50 N	2 3 4 7 8 8 9 8 9 8 9 8 9 9 9 9 9 9 9 9 9 9 9	POS POS POS POS POS POS POS Total Thick. (In.) 0.0241 0.0316 Load Type POS	527 363 447 419 743 513 634 594 of Ameri Panel Weight (lbs. / ft. <sup>2</sup> ) 1.31 1.72	297 208 257 241 418 292 3633 340 <b>can Bui</b> <b>can Bui</b> <b>can Bui</b> (In. <sup>4</sup> / ft.) 0.085 0.112 <b>x</b> (2.00 265	190 134 1677 156 268 188 234 219 dings C Top In Top In Sx (In. <sup>3</sup> / ft.) 0.075 Maximum 2.50 169	132 94 117 1099 186 131 153 <b>ompany</b> n Ma K-IN. 1.59 2.25 <b>Total Ur</b> Span Ler 3.00 118	97 69 86 800 136 97 1200 113 <b>18" Sez</b> C (In. <sup>4</sup> / ft.) 0.037 0.057 iform Loa 3,50 866 866 866 866 866 866 800 800	74 53 66 66 62 105 74 92 86 <b>ImLoc P</b> Bottom In compression Sx (In. <sup>3</sup> / ft.) 0.053 ad in PSF 4.00 66	59 42 52 49 83 59 73 68 anel Ma K-IN. 1.14 1.59 52	47 34 40 67 47 59 55 <b>Fb</b> KSI 30 30 30 30
1     POS     666     375     240     166     122     94     74     600       22 Ga.     2     POS     456     260     167     117     86     66     52     422       3     POS     563     323     208     145     107     82     65     53	22 Ga. Designated Gage of Steel 24 Ga. 22 Ga. Gage of Panel	Enginee Steel Yield KSI N C Spi	2 3 4 2 3 4 4 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	POS POS POS POS POS POS POS POS POS POS	527 363 447 419 743 513 634 594 of Ameri Panel Weight (lbs. / ft. <sup>2</sup> ) 1.31 1.72 1.50 4.00 323	297 208 257 241 418 292 3633 340 <b>can Buil</b> <b>can Buil</b>	190 134 167 156 268 188 234 219 <b>Idings C</b> Top In compression Sx (In. <sup>3</sup> / ft.) 0.075 Maximum 2.50 169 119	132 94 117 109 186 131 163 153 0mpany n Ma K-IN. 1.59 2.25 Total Ur Span Ler 3.00 118 833	97 69 86 80 136 97 1200 113 <b>18" Sez</b> <b>(In.<sup>4</sup> / ft.)</b> 0.057 <b>iform Loo</b> ngths, Ft. <b>3.50</b> 86 61	74 53 66 62 105 74 92 86 101 CC P Bottom In compression compression compression Sx (In. <sup>3</sup> / ft.) 0.053 ad in PSI 4.00 666 64 77	59 42 52 49 83 59 73 68 anel m Ma K-IN. 1.14 1.14 1.14 1.159 4.50 52 37	47 34 422 40 67 47 59 55 55 KSI 30 30 30 30 30 2.00 5.00 42 30
2     POS     456     260     167     117     86     66     52     420       3     POS     563     323     208     145     107     82     65     53	22 Ga. Designated Gage of Steel 24 Ga. 22 Ga. Gage of Panel	Enginee Steel Yield KSI 50 50	2 3 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	POS POS POS POS POS POS POS POS Total Thick. (In.) 0.0241 0.0316 Load Type POS POS	527 363 4477 419 743 513 634 594 <b>of Ameri</b> Panel Weight (lbs. / ft. <sup>2</sup> ) 1.31 1.72 <b>1.50</b> 470 323 397	297 208 257 241 418 292 363 340 <b>Can Buil</b> <b>Can Buil</b> <b></b>	190 134 167 156 268 188 234 219 dings C Top In compressio 0.053 0.075 Maximum 2.50 169 119 148	132 94 1177 109 186 131 163 153 0mpany n Ma K-IN 1.59 2.25 Total Ur Span Ler 3.00 118 83 104	97 69 866 80 136 97 120 (h. <sup>4</sup> /f.) 0.039 0.057 iform Loc orgths, Ft. 3.50 86 61 76	74 53 666 62 105 74 92 86 105 86 105 80 105 80 105 80 105 80 105 80 105 80 105 80 105 80 105 80 105 80 105 80 105 105 80 105 105 80 105 105 80 105 105 80 10 10 10 10 10 10 10 10 10 10 10 10 10	59 42 52 49 83 59 73 68 anel Ma K-IN 1.14 1.59 = 4.50 52 37 46	47 34 42 40 67 59 55 <b>Fb</b> <b>KSI</b> 30 30 30 30 30 30 30 30 30 30 30 30 30
22 Ga. <u>3 POS</u> 563 323 208 145 107 82 65 53	22 Ga. Designated Gage of Steel 24 Ga. 22 Ga. Gage of Panel	Enginee Steel Yield KSI 50 50 N c Spi	2 3 4 2 2 3 4 9 8 ase Metal Thick. (Ir.) 0.0225 0.0300 0.0225 0.0300 0.05 1 2 3 4	POS POS POS POS POS POS POS Total Thick. (In.) 0.0241 0.0316 Load Type POS POS POS	527 363 4477 419 743 513 634 594 <b>of Ameri</b> Panel Weight (lbs. / ft. <sup>2</sup> ) 1.31 1.72 1.50 470 323 397 373	297 208 257 241 418 292 3633 340 <b>Can Bui</b> (n. <sup>4</sup> / ft.) 0.085 0.112 <b>X</b> 0.085 0.112 <b>X</b> 0.265 185 2299 215	190 134 167 156 268 188 234 219 dings C Top In compression 0.055 X (In. <sup>3</sup> / ft.) 0.075 Maximum 2.50 169 119 148 139	132 94 117 109 186 131 163 153 <b>ompany</b> <b>Ma</b> K-IN. 1.59 2.25 <b>Total Ur</b> <b>Span Ler</b> 3.00 118 83 104	97 69 86 80 136 97 120 113 <b>18" Sez</b> (In. <sup>4</sup> / ft.) 0.039 0.057 iform Los 96 61 76 61 76 71	74 53 66 62 105 74 92 86 <b>imLoc P</b> Bottom In In Compressio 0.053 ad in PSF 4.00 66 47 59 55	59 42 52 49 83 59 73 68 anel Ma K-IN. 1.15 1.59 - - - - - - - - - - - - - - - - - - -	47 34 42 40 67 47 59 55 <b>Fb</b> KSI 30 30 30 30 30 30 30 30 30 30 30 30 30
<b>3 POS</b> 563 323 208 145 107 82 65 53	22 Ga. Designated Gage of Steel 24 Ga. 22 Ga. Gage of Panel	2 2 3 2 3 3 3 4 2 3 3 4 5 6 50 50 50 50 50 50 50 50 50 50 50 50 50	2 3 4 2 3 4 5 6 7 7 8 8 9 7 8 8 9 7 8 8 9 7 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9	POS POS POS POS POS POS POS Total Thick. (In.) 0.0241 0.0316 Load Type POS POS POS POS	527 363 447 419 743 513 634 594 of Ameri Panel Weight (lbs. / ft. <sup>2</sup> ) 1.31 1.72 1.50 4700 323 397 373 666	297 208 257 241 418 292 3633 340 <b>can Buil</b> <b>can Buil</b>	190 134 167 156 268 188 234 219 dings C Top In compression Sx (In, <sup>3</sup> / ft.) 0.075 Maximum 2.50 169 119 148 139 240	132 94 117 109 186 131 163 153 <b>ompany</b> n Ma K-IN. 1.59 2.25 <b>Total Ur</b> Span Ler 3.00 118 83 104 97 166	97 69 86 80 136 97 1200 113 <b>18" See</b> (In. <sup>4</sup> / ft.) 0.057 <b>iform Loo</b> 0.057 <b>iform Loo</b> 0.866 611 711 1222 <b>iform Loo</b> 0.866 <b>iform Loo</b> 0.866 <b>iform Loo</b> 0.866 <b>iform Loo</b> 0.866 <b>iform Loo</b> 0.867 <b>iform Loo</b> 0.867 <b>iform Loo</b> 0.866 <b>iform Loo</b> 0.867 <b>iform Loo</b> 0.867	74 53 66 62 105 74 92 86 100 80 100 50 100 80 100 100 80 100 100 80 100 100 1	59 42 52 49 83 59 73 68 anel Ma K-IN. 1.14 1.14 1.14 1.159 52 37 4.50 52 37 4.60	47 34 42 40 67 59 55 <b>Fb</b> KSI 30 30 30 <b>5.00</b> 42 30 38 35 60
4 POS 528 302 195 136 100 77 61 49	22 Ga. Designated Gage of Steel 24 Ga. 22 Ga. Gage of Panel 24 Ga.	Enginee Steel Yield KSI 50 50 N	2 3 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	POS POS POS POS POS POS POS POS POS Total Thick. (In.) 0.0241 0.0316 Load Type POS POS POS POS POS POS	527 363 447 419 743 613 634 594 <b>of Ameri</b> <b>Panel</b> (lbs. / ft. <sup>2</sup> ) 1.31 1.72 <b>1.50</b> 470 323 397 373 6666	297 208 257 241 418 292 363 340 <b>can Bui</b> <b>can Bui</b> <b>can</b>	190 134 167 156 268 288 234 219 dings C Top In compressio Sx (In. <sup>3</sup> / ft.) 0.053 0.075 Maximum 2.50 169 119 148 139 240 240 2.50	132 94 1177 109 186 131 163 153 <b>ompany</b> n <u>Ma</u> K-IN. 1.59 2.25 <b>Total Ur</b> Span Let 3.00 1118 83 104 97 166	97 69 866 800 1336 97 120 113 18" Sec (In. <sup>4</sup> / ft.) 0.039 0.057 160m Loo 0.057 866 611 766 711 222 866 811 712 825 825 835 845 845 845 845 845 845 845 84	74 53 66 62 105 74 92 86 <b>IMLoc P</b> Bottom In compression <b>Sx</b> (In. <sup>3</sup> / ft.) 0.038 0.053 <b>ad in PSI</b> 4.00 66 4.77 59 55 59 44	59 42 52 49 83 59 73 68 anel Ma K-IN. 1.14 1.59 52 377 466 43 74 52	47 34 42 40 67 59 55 55 55 55 55 55 55 55 55 55 55 55
	22 Ga. Designated Gage of Steel 24 Ga. 22 Ga. Gage of Panel 24 Ga.	Enginee Steel KSI 50 50 N C Spr 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 3 4 5 6 7 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	POS POS POS POS POS POS POS Total Thick. (In.) 0.0241 0.0316 Load Type POS POS POS POS POS POS POS	527 363 447 419 743 513 634 594 <b>of Ameri</b> Panel Weight (lbs. / ft. <sup>2</sup> ) 1.31 1.72 <b>1.50</b> 470 323 397 373 666 456 563	297 208 257 241 418 292 363 340 <b>Can Bui</b> <b>C</b> <b>k</b> (In. <sup>4</sup> / ft.) 0.085 0.112 <b>X</b> 200 265 185 2299 215 375 375 2250 2250 2250 2255 2259 215 375 375 2260	190 134 1677 156 268 188 234 219 dings C Top In compression 0.055 0.075 Maximum 2.50 169 119 148 139 240 167 208	132 94 117 109 186 131 163 153 <b>ompany</b> <b>Ma</b> K-IN. 1.59 2.25 <b>Total Ur</b> <b>Span Ler</b> <b>3.00</b> 118 83 104 97 166 117 145	97 69 866 800 136 97 1200 113 <b>18" Sez</b> (In. <sup>4</sup> / ft.) 0.037 0.057 <b>iform Los</b> 96 61 766 61 771 1222 86 107 107 102 102 102 102 102 102 102 102	74 53 66 62 105 74 92 86 86 80 100 P Bottom In In compressic 0.038 0.053 ad in PSI 4.00 66 4.00 66 4.7 59 55 94 66 88	59 42 52 49 83 59 73 68 anel n Ma K-IN 1.15 9 - 52 52 37 466 43 74 52 65	47 34 42 40 67 47 59 55 <b>Fb</b> KSI 30 30 30 30 30 30 30 30 30 30 30 42 33 8 35 60 42 42 335

1. The panels are checked for bending (B), shear (S), combined bending and shear (B+S) and deflection (D). The controlling check is noted in the table. Deflection is limited to span/60.

Section Properties are calculated in accordance with the 2007 North American Specification for the Design of Cold-Formed Steel Structural Members.
Minimum yield strength of 24 and 22 gage steel is 50,000 psi.

4. Steel panels are either aluminum-zinc alloy or G-90 coated. The base metal thickness is used in determining section properties. 5. Positive load (POS) is applied inward toward the panel supports and is applied to the outer surface of the full panel cross-section.