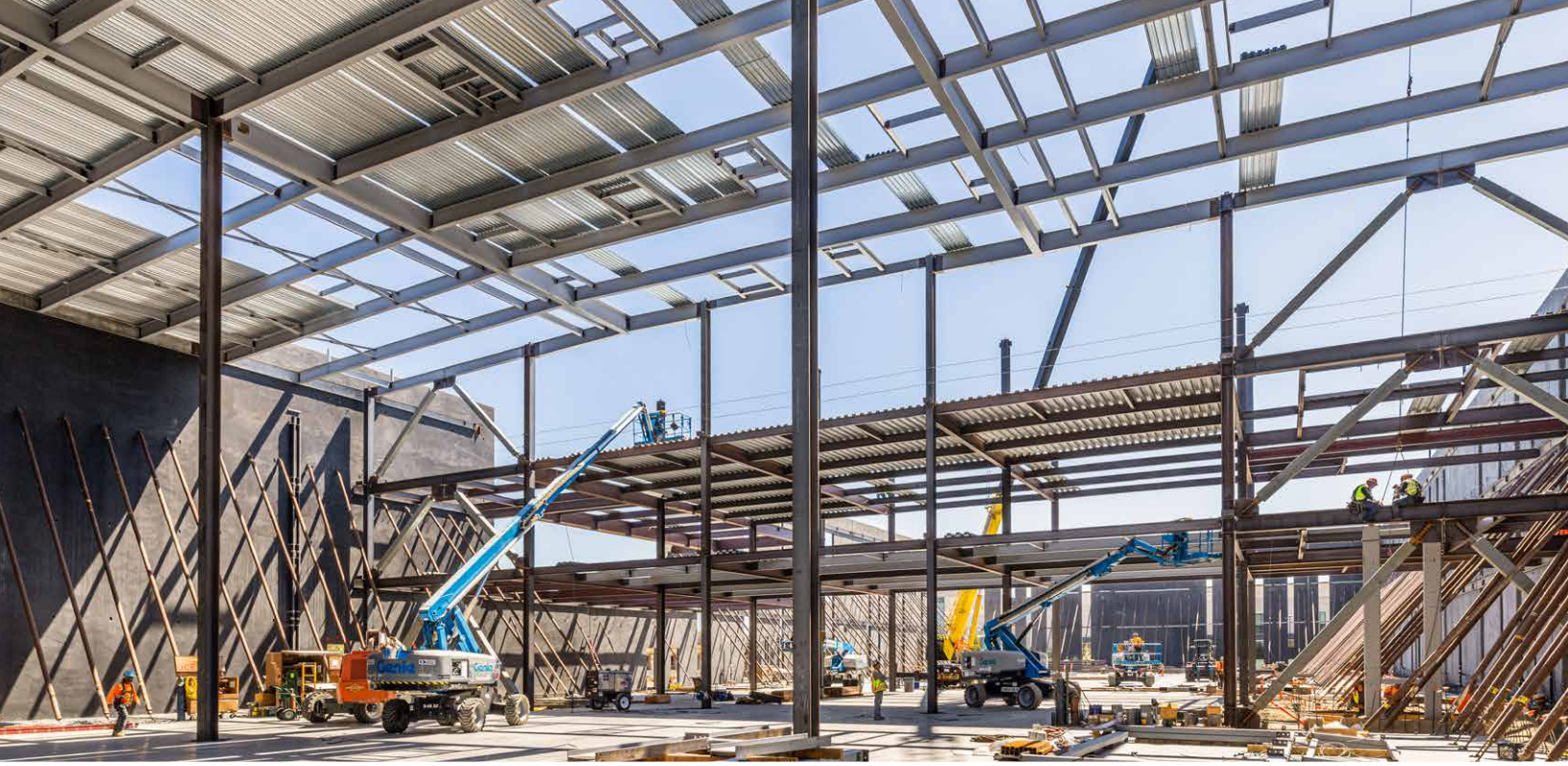
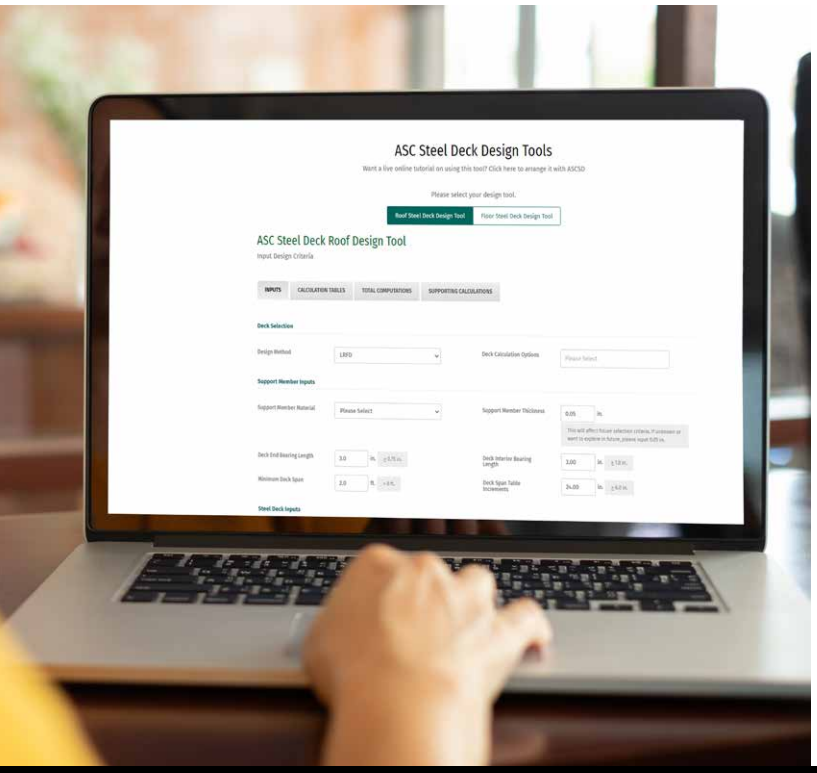


ONLINE CALCULATION TOOL

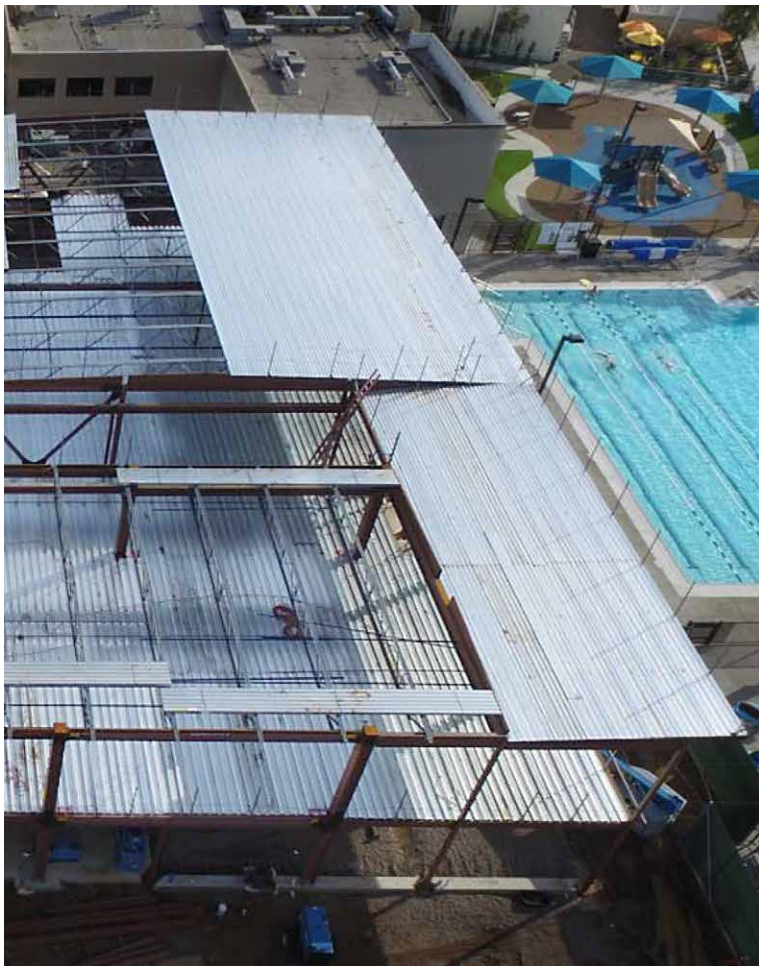


ROOF DECK

ASC Steel Deck is an industry leader offering products that meet the needs of the most complex conditions and demands for structural performance and design.

ASC STEEL DECK®

Who We Are



Our Company

ASC Steel Deck is a structural steel deck manufacturer leading the way through an unmatched commitment to the success of our customers. ASC Steel Deck prides itself on delivering the best-in-class service experience, easily accessible technical data, and having to most knowledgeable and responsive team in the industry.

Serving the Western United States since the 1970s, ASC Steel Deck has operated under different business names (ASC Pacific, BHP Steel Building Products, and IMSA Building Products). Since 2002, we have operated as ASC Steel Deck, a division of ASC Profiles LLC. While the name of the company has changed over the years, our continuous dedication to product innovation, high-quality steel deck products, and exceptional customer service has made ASC Steel Deck a trusted leader in the industry.

Industry Leadership Through Innovation

ASC Steel Deck was the first West Coast manufacturer to incorporate diaphragm shear and superimposed load tables based on ANSI/SDI C-2017 Standard for Composite Steel Floor Deck-Slabs. This standard was adopted for inclusion in the 2018 IBC.

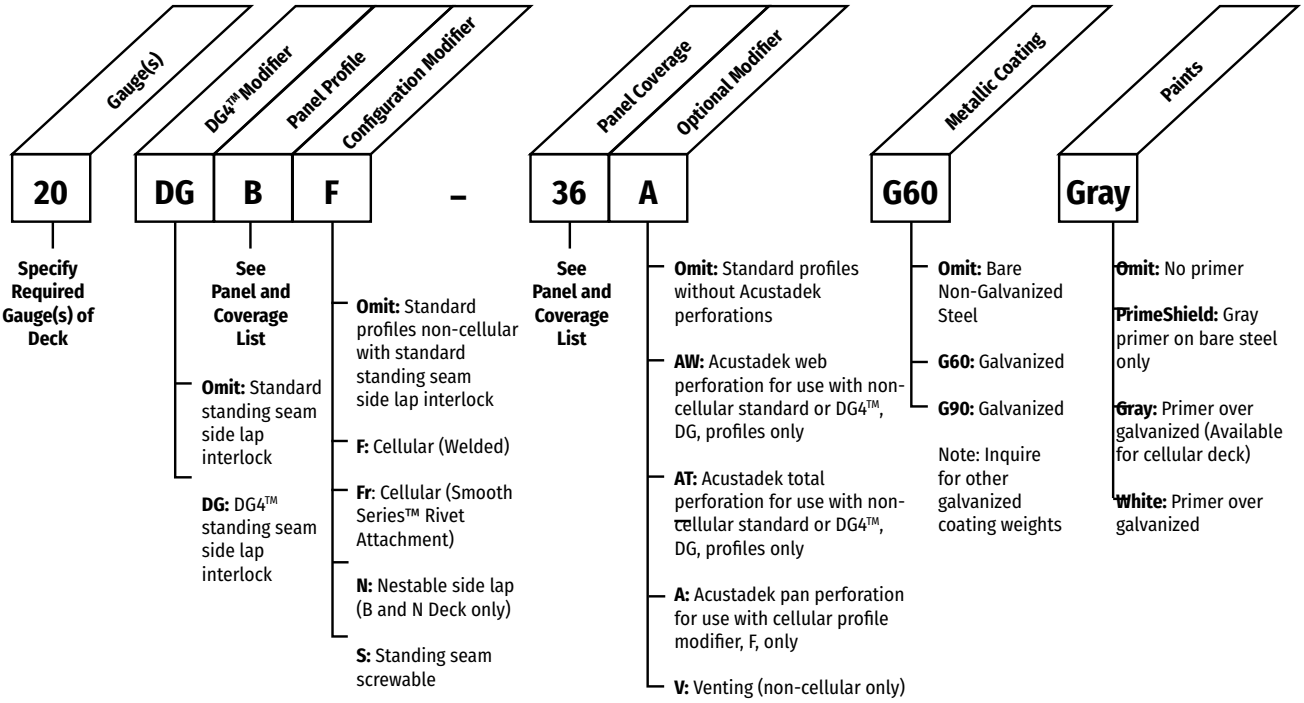
ASC Steel Deck has also led the way in providing innovative products which reduce installation costs at the highest level of performance. Several examples include:

- **Smooth Series™** - A rivet attachment for our portfolio of cellular deck products offers a blemish free attachment solution, eliminating the need for field touch up and saving on labor costs and time. **New to the West Coast.**
- **N-32® Roof Deck** - A 32" wide by 3" deep roof deck profile providing a 10% improvement in steel utilization and up to 20% reduction in installation costs as compared to the industry standard N-24 panel.

DECK PROFILE & COVERAGE LIST

Panel	Coverage
B	36 inches
N	32 inches
2W	36 inches
3W	36 inches
CP	32 inches
4.5D	12 inches
4.5DF	24 inches
6D	12 inches
6DF	24 inches
7.5D	12 inches
7.5DF	24 inches

Figure 1.2.3: **PRODUCT OFFER DESCRIPTION**



Prime Shield®

PrimeShield is prime painted cold-rolled, ASTM 1008, steel deck. The standard gray primer is applied to both the top and underside of the steel deck. This primer is suitable for use in many UL fire rated assemblies. The prime paint is intended to be an impermanent interim coating to protect the bare cold-rolled steel, for a short period, from ordinary atmospheric conditions prior to weathertighting the building. PrimeShield should receive a finish paint system if left exposed in the interior of a building. This 0.3mil water-based acrylic primer provides a good base for most field-applied paint systems. ASC Steel Deck is not responsible for the adhesion of paint systems applied in the field.

Cellular Deck

Cellular deck is a good choice when a flat appearance on the underside of steel deck is desired. Cellular deck is manufactured from a top fluted section of steel deck referred to as the beam and a flat bottom section referred to as the pan. The male and female side seam interlock is formed on the edges of the pan.
The welded method offers resistance welds in accordance with UL 209. There is one row of resistance welds in each low flute of the beam.

The new Smooth Series™ rivet attachment is flush with the exposed bottom surface, eliminating "bumps" and burn marks and the need for touch-ups in the field. Smooth Series rivets are available in galvanized and white finish, complementing our factory applied Prime Shield® primer gray and white finish cellular deck. The high quality rivet attachments are uniformly repeated along the deck profile.

All attachments to the underside of riveted cellular deck and Acustadek for the support of suspended items shall be made at low flute location only. The design professional is responsible for checking if the connection to the low flute material has sufficient capacity to resist the suspended load.

This product should not be used in floor assemblies where spray on fire proofing is to be applied to the bottom surface of the deck.

Cellular deck beam and pan may be manufactured out of the same gauge or out of different gauges. The following shows how to correctly specify the desired beam and pan gauge combination.

Specify Cellular Deck Gauge "xx/yy"
- The first (xx) is the gauge of the beam (top fluted section)
- The second number (yy) is the gauge of the pan (the bottom flat section with the side seam)

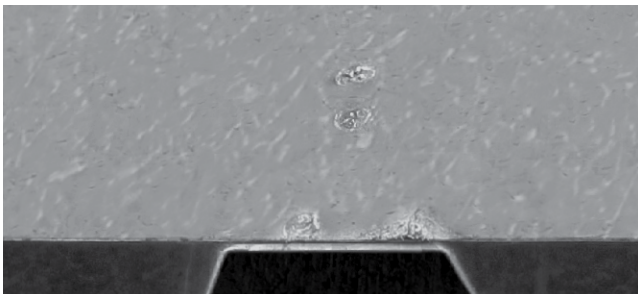


Figure 1.2.4: WELDED ATTACHMENT
(Pictured from bottomside)

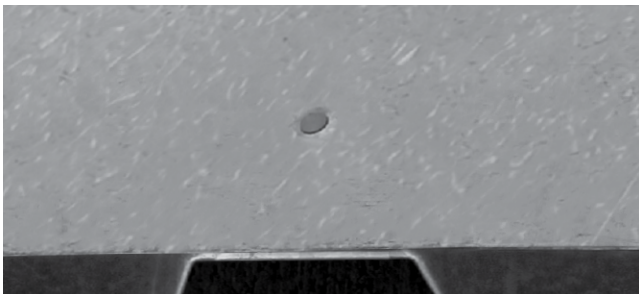


Figure 1.2.5: SMOOTH SERIES™ RIVET ATTACHMENT
(Pictured from bottomside)

Roof Deck Product Offer

ASC Steel Deck offers a robust product offer. Our lightweight steel deck profiles have depths that range from ⅞" to 7½". Panel lengths range from 5 feet to 45 feet. Steel deck panels are supplied with both galvanized and painted finishes to meet an array of project finish requirements.

Product Description

To assist designers with specifying the correct steel deck profile, see Figure 1.2.3 (on previous page), which details how to specify the intended product. Following these guidelines will help to eliminate requests for information and change orders due to insufficient product descriptions in the plans and specifications. Designers can be assured that the product delivered is the product intended. Simply specify the gauge, panel profile, panel coverage, metallic/paint coating, and any modifiers appropriate for the desired product.

Deck Panel Lengths

All ASC Steel Deck products are manufactured to the specified length for the project. The following table summarizes the minimum and maximum lengths that can be manufactured for each profile.

Figure 1.2.1: **MANUFACTURED PANEL LENGTHS**

Profile		Factory Cut Length	
		Minimum	Maximum
Non-cellular	B-36, N-32, 2W-36, 3W-36	3'-6"	45'-0"
	CP-32	4'-0"	45'-0"
Cellular	BF-36, NF-32, 2WF-36, WF-36	5'-0"	40'-0"

Tolerances

ASC Steel Deck manufactures to industry standard tolerances. The tolerances are summarized as follows.

Figure 1.2.2: **PANEL TOLERANCES**

Length	±1/2"
Coverage Width	-3/8" +3/4"
Sweep	1/4" in 10' length
Square	1/8" per foot width

Finish Options

ASC Steel Deck offers several finish options that are appropriate for a variety of applications. Our standard G60 galvanized finish is suitable for most applications, offering excellent corrosion protection and compatibility with fire proofing when used in UL fire rated assemblies. We also offer PrimeShield®, an economical prime paint system over bare cold rolled steel. PrimeShield offers the steel limited interim protection from rusting during transport and erection before the weather-tight roof system is applied. PrimeShield should not be used in high humidity or corrosive environments. Prime paint over galvanized steel deck can also be specified to obtain the benefit of the corrosion protection of galvanized steel deck with a factory applied prime paint substrate.

Galvanized

ASC Steel Deck offers steel deck products that are galvanized in accordance with ASTM A 653. The standard galvanized coating is G60 (0.6 ounce per square foot). G-90 (0.9 ounce per square foot) is recommended for high humidity and corrosive conditions. G-40 (0.4 ounce per square foot) may be specified for greater economy. Heavier galvanized finishes than G-90 can be specified for more severe environmental conditions and exposures. Inquire for product availability and minimum order sizes for G-40 or galvanizing heavier than G-90.

All ASC Steel Deck galvanized decks are manufactured from chemically treated steel coil in accordance with ASTM A 653. Chemical treatment is often referred to as passivation. The chemical treatment protects the galvanized steel from developing white rust during storage and transport of both coil and finished product. Some field-applied paint systems may not be compatible with the chemical treatment. The paint manufacture should be consulted to determine how the deck should be prepared prior to painting. ASC Steel Deck is not responsible for the adhesion of field applied primers and paints.

Galvanized with Prime Paint

ASC Steel Deck offers all of its standard galvanized options with factory applied prime paint on the underside of the deck. The prime paint is available in standard gray. White primer is also available. The standard 0.3mil water-based gray acrylic primer has been specially developed to provide superior adhesion to the galvanized steel deck and is suitable for use in many UL fire rated assemblies. Factory applied primer is an impermanent interim coating that is intended to have finish paint applied after the deck is installed. The galvanized with prime paint option may eliminate the need for any special surface preparation for field applied paint applications which is often a requirement for chemically treated bare galvanized steel deck panels. ASC Steel Deck is not responsible for the adhesion of paint systems applied in the field.

Cellular deck is offered with a galvanized steel pan or a prime paint over galvanized steel pan. This 0.3mil gray primer is applied to the underside of the pan prior to resistance welding or riveting the cellular deck beam to the pan. Our new Smooth Series™ rivet attachment is flush with the exposed bottom surface, omitting visible "bumps" and burn marks, as well as eliminating the cost of touch-ups associated with resistance welded deck products. Resistance welded deck, the current industry standard, leaves burn marks on the pan which generally require cleaning and touch-up prior to the application of a finish paint system being applied. Touching up the burn marks is generally much more cost effective than preparing an unpainted, chemically treated surface for the application of a field primer. The prime painted galvanized pan provides a good substrate for the application of most field-applied paint systems. ASC Steel Deck is not responsible for the adhesion of paint systems applied in the field.

Roof Deck Panel Features and Benefits

DGB-36/B-36

1½ " depth, 36" coverage, 5' to 12' Optimal Span(s)

●●●●● Excellent Diaphragm Shear

Web and Total Perforated Acustadek® Options

- DG4™ produces the highest shear diaphragms in the industry for 1½" decks
- Highest shear lowest cost 36/7/4 attachment pattern in industry
- Published tables for welded, pinned, and screwed attachments to supports

DGN-32/N-32®

3 " depth, 32" coverage, 10' to 16' Optimal Span(s)

●●●●○ Good Diaphragm Shear

Web and Total Perforated Acustadek® Options

- DG4™ produces the highest shear diaphragms in the industry for 3 inch decks
- Wider 32" panel results in the most labor efficient 3" N Deck in the industry
- Lightest weight 3" N deck per square foot in the industry

BN-36 NESTABLE

1½ " depth, 36" coverage, 5' to 12' Optimal Span(s)

●●●○○ Good Diaphragm Shear

No Acustadek® Option

- Nestable configuration for screwed side lap attachment
- Meets Steel Deck Institute SDI wide rib requirements

NN-32™ NESTABLE

3" depth, 32" coverage, 10' to 16' Optimal Span(s)

●●○○○ Modest Diaphragm Shear

No Acustadek® Option

- Nestable configuration for screwed side lap attachment
- Replaces Steel Deck Institute SDI Deep Rib (DR) roof decks

DGBF-36/BF-36

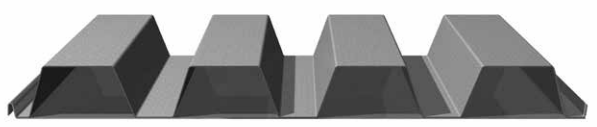
1½ " depth, 36" coverage, 8' to 14' Optimal Span(s)

●●●●● Excellent Diaphragm Shear

Pan Perforated Acustadek® Option (Available with Smooth Series™ rivet attachments or welded)

- Aesthetic flat pan underside
- Longer Spanning than non-cellular profile
- DG4™ side-lap attachment provides the same benefits as non-cellular

DGNF-32/NF-32



3" depth, 32" coverage, 14' to 20' Optimal Span(s)

●●●○○ Good Diaphragm Shear

Pan Perforated Acustadek® Option (Available with Smooth Series™ rivet attachments or welded)

- Aesthetic flat pan underside
- Longer Spanning than non-cellular profile
- DG4™ side-lap attachment provides the same benefits as non-cellular

Roof Deck Panel Features and Benefits Cont.

DG2WH-36/2WH-36 (Roof Deck)

2” depth, 36” coverage, 8’ to 14’ Optimal Span(s)

●●●○○ Good Diaphragm Shear

No Acustadek® Option

- DG4™ side-lap attachment for good shear performance
- Most economical panel per square foot for the span capacity
- Meets Steel Deck Institute SDI 2”x12” requirements

DG3WxH-36/3WxH-36 (Roof Deck)

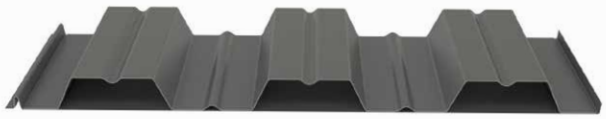
3” depth, 36” coverage, 11’ to 20’ Optimal Span(s)

●●●○○ Good Diaphragm Shear

No Acustadek® Option

- DG4™ side-lap attachment for good shear performance
- Meets Steel Deck Institute SDI 3”x12” requirements

DG2WHF-36/2WHF-36 (Roof Deck)



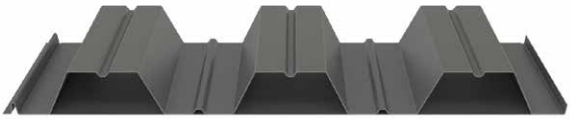
2” depth, 36” coverage, 10’ to 20’ Optimal Span(s)

●●●○○ Good Diaphragm Shear

Pan perforated Acustadek® Option

- Aesthetic flat pan underside
- Longer Spanning than non-cellular profile
- Most economical panel per square foot
- Meets Steel Deck Institute SDI 2”x12” requirements

DG3WxHF-36/3WxHF-36 (Roof Deck)



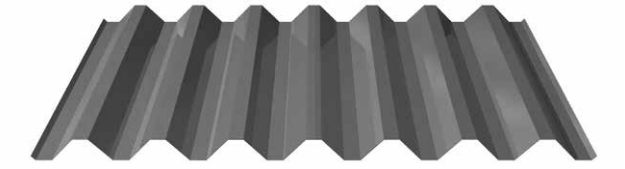
3” depth, 36” coverage, 14’ to 22’ Optimal Span(s)

●●●○○ Good Diaphragm Shear

Pan perforated Acustadek® Option

- Aesthetic flat pan underside
- Longer Spanning than non-cellular profile
- Meets Steel Deck Institute SDI 2”x12” requirements

C1.4-32/CP-32 (CF1⅜)



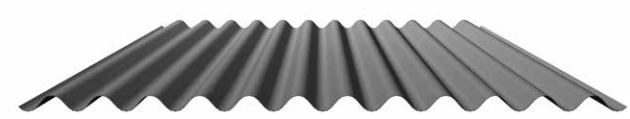
1⅜” depth, 32” coverage, 5’ to 10’ Optimal Span(s)

●●○○○ Modest Diaphragm Shear

No Acustadek® Options

- C1.4-32 is suitable for exposed roofing and siding conditions
- CP-32 is manufactured with a side lap rolled in vent for use with lightweight insulating concrete fill

C0.9-32 (CF⅞)



⅞” depth, 32” coverage, 1’ to 5’ Optimal Span(s)

●●○○○ Low/Modest Diaphragm Shear

No Acustadek® Options

Non-composite deck

- Good for short span conditions

Roof Deck Panel Features and Benefits Cont.

4.5D-12

Non-composite deck
4½ inch depth, 12 inch coverage
12 foot to 21 foot Span Range

No Acustadek® Option

- Allows for longest unshored spans
- For use when metal deck is used as a leave in place form

4.5DF-24

Non-composite deck
4½ inch depth, 24 inch coverage
15 foot to 21 foot Span Range

Pan Perforated Acustadek® Option

- Aesthetic flat pan underside
- Allows for longer unshored span when metal deck is used as a leave in place form
- Longer unshored span than non-cellular profile
- For use when metal deck is used as a leave in place form

6D-12

Non-composite deck
6 inch depth, 12 inch coverage
14 foot to 25 foot Span Range

No Acustadek® Option

- Allows for longest unshored spans
- For use when metal deck is used as a leave in place form

6DF-24

Non-composite deck
6 inch depth, 24 inch coverage
15 foot to 25 foot Span Range

Pan Perforated Acustadek® Option

- Aesthetic flat pan underside
- Allows for longer unshored span when metal deck is used as a leave in place form
- Longer unshored span than non-cellular profile
- For use when metal deck is used as a leave in place form

7.5D-12

Non-composite deck
7½ inch depth, 12 inch coverage
16 foot to 26 foot Span Range

No Acustadek® Option

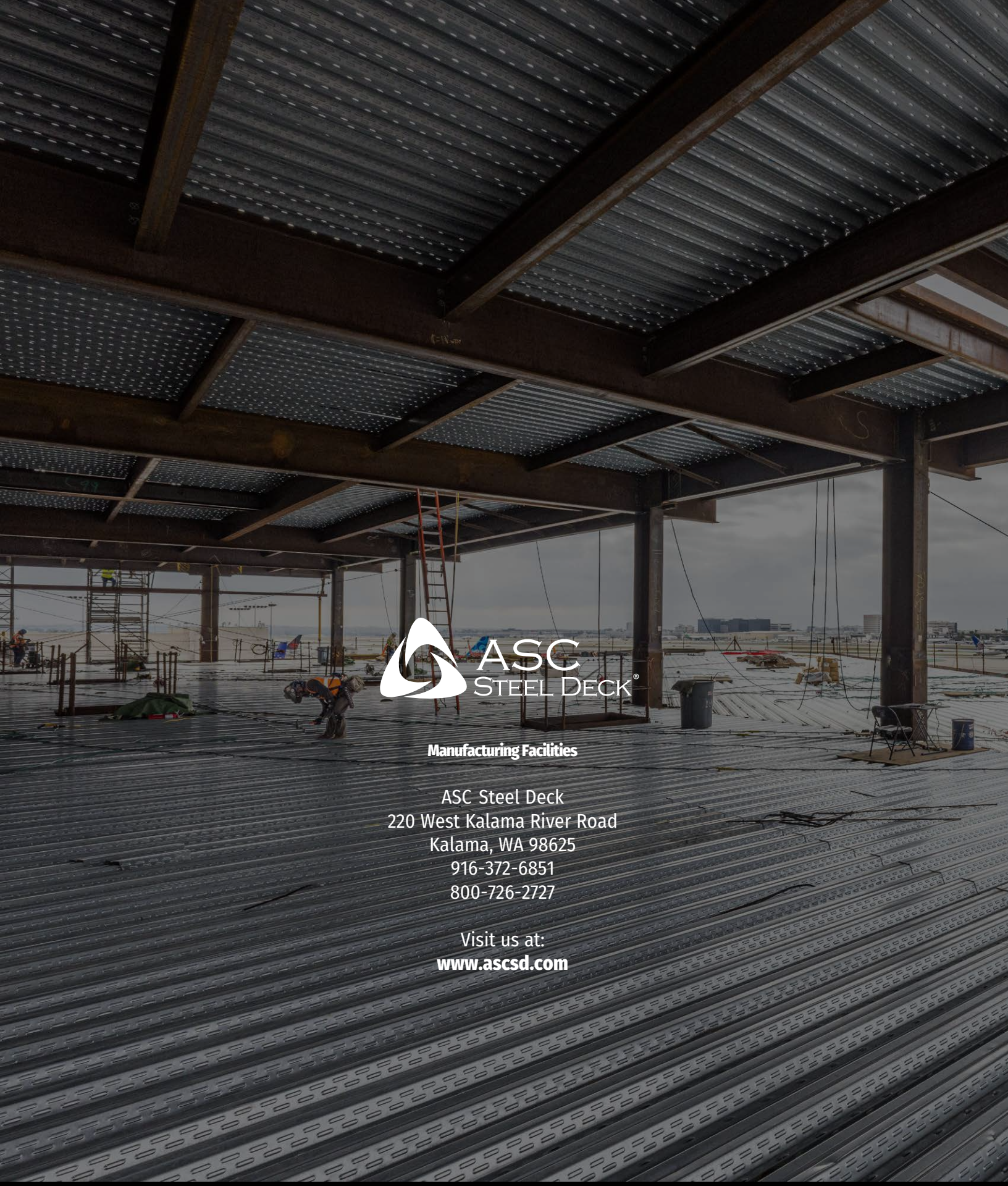
- Allows for longest unshored spans
- For use when metal deck is used as a leave in place form

7.5DF-24

Non-composite deck
7½ inch depth, 24 inch coverage
16 foot to 27 foot Span Range

Pan Perforated Acustadek® Option

- Aesthetic flat pan underside
- Allows for longer unshored span when metal deck is used as a leave in place form
- Longer unshored span than non-cellular profile
- For use when metal deck is used as a leave in place form



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