

# ***SELF DRILLING SCREWS***

**Invisible Strength  
Visible Impact**





**APL APOLLO SG FASTENERS is proud to introduce premium Self Drilling Screws (SDS) that are suitable for all types of roofing.**

We highly recommend using fasteners that are specifically designed for color coated roofing. Inferior quality fasteners not only cause damage to the roofing sheets but can also lead to corrosion. Self Drilling Screws eliminate the need for separate drilling and tapping operations, which makes the installation process more economical. At APL APOLLO SG FASTENERS, we use advanced forging technology and follow strict manufacturing specifications to ensure a clean, sharp, and consistent drill point. Our protective coatings provide high corrosion resistance and durability, making these fasteners suitable for demanding construction applications. These eco-friendly fasteners are free from harmful substances like chromates and silicates, which can cause hydrogen embrittlement and lead to structural failures.

**Benefits of Using APL APOLLO SG FASTENERS Self Drilling Screw:**

1. **Design:** The best-designed drill points for various thicknesses, ensuring smooth drilling.
2. **Coating:** Zinc, Xylon, or Ruspert coating that offers long-lasting rust protection.
3. **Testing:** Passed multiple tests to meet international standards (DIN, ASTM) and has been proven to endure 100 hours of salt spray tests for galvanized coatings, and 1000 hours for Ruspert coatings.
4. **Raw Material:** Made from high-quality Carbon Steel C-1022, ensuring durability.
5. **Head Style:** Hexagonal design for easy handling and installation.
6. **EPDM Washer:** A low carbon EPDM washer ensures the screw's longevity and provides a secure seal.
7. **Availability:** Ready stock in sizes 19mm, 25mm, 35mm, 45mm, 55mm, and 65mm.
8. **Packaging:** Superior packaging in small boxes and cartons.

**Comparison to SS Screws:**

300 Series SS fasteners are resistant to hydrogen embrittlement failures. However, they are not suitable for use with aluminum or steel panels. In these cases, SS fasteners cause a sacrificial reaction that can degrade the panel and loosen the fastener.

APL APOLLO SG Self Drilling Screws undergo a dual-hardening process, making them stronger and more resistant to hydrogen embrittlement, ensuring a longer-lasting solution.

Sizes Available:

Size	Drive	Coating (Zinc/Xylan)	Thread/ Inch	Drill Point	Flange Head Dia (MM)	Major Thread Dia (MM)	Minor Thread Dia (MM)	Salt Spray Test (hrs)	
								Zinc	Xylan
10X19	HEX	Zinc/Xylan	15	#3	13.50±0.50	4.10±0.05	3.80±0.05	100	1000
10X25	HEX	Zinc/Xylan	15	#3	13.50±0.50	4.10±0.05	3.80±0.05	100	1000
12X25	HEX	Zinc/Xylan	15	#4	13.50±0.50	5.40±0.05	4.30±0.05	100	1000
12X35	HEX	Zinc/Xylan	15	#4	13.50±0.50	5.40±0.05	4.30±0.05	100	1000
12X45	HEX	Zinc/Xylan	15	#4	13.50±0.50	5.40±0.05	4.30±0.05	100	1000
12X55	HEX	Zinc/Xylan	15	#4	13.50±0.50	5.40±0.05	4.30±0.05	100	1000
12X65	HEX	Zinc/Xylan	15	#4	13.50±0.50	5.40±0.05	4.30±0.05	100	1000

Installation Instructions:

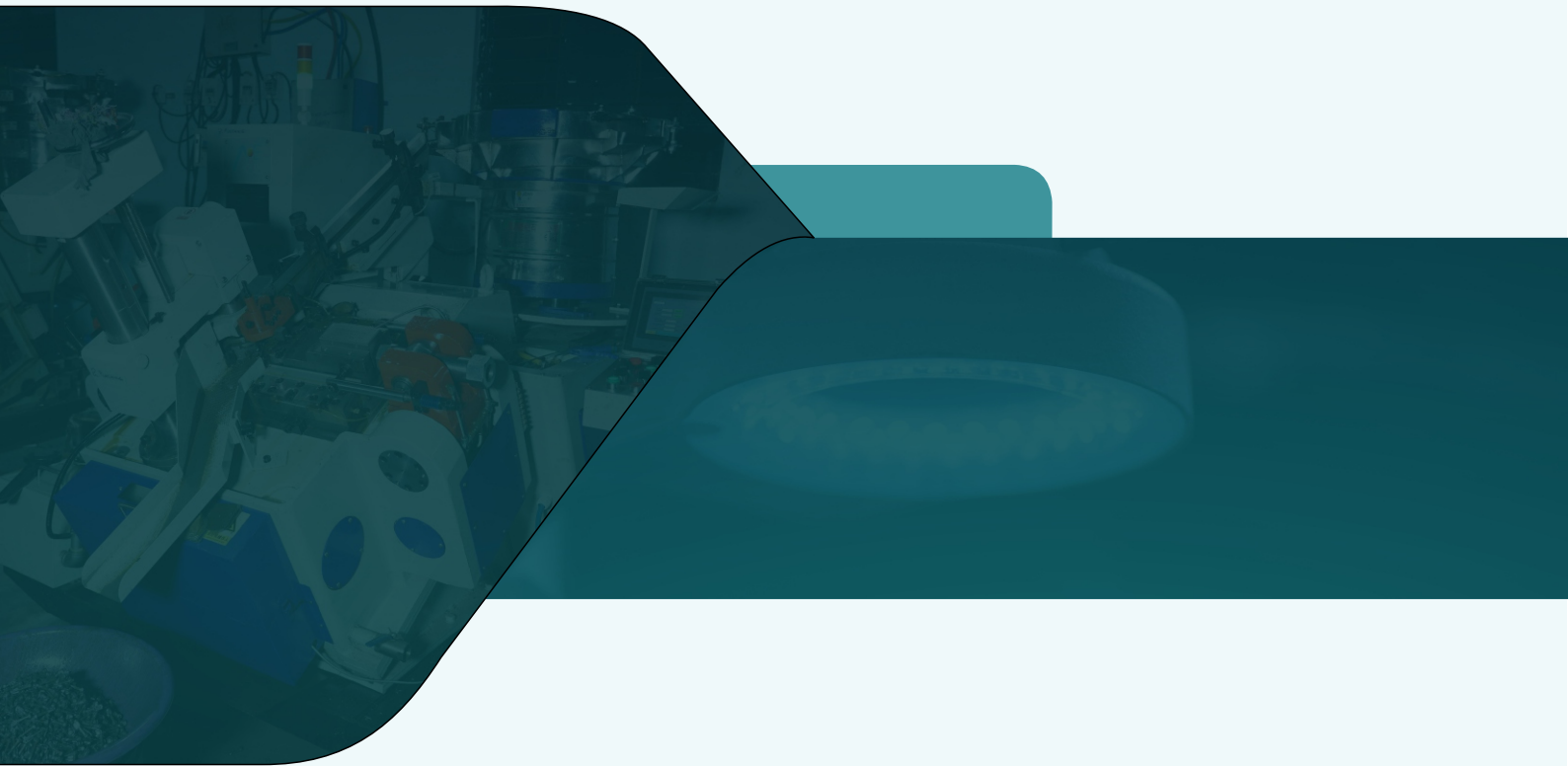
It is essential to use the proper rpm, depth setting, and torque when installing APL APOLLO SG screws. Install the screws perpendicular to the surface being worked on. The self-drilling feature allows the screw to drill through the base material before tapping the threads. Avoid applying excessive pressure, as it can slow down the screw installation speed and increase the risk of drill tip failure. A variable-speed screwdriver will help start the screw precisely and drive it at the correct speed.

Torque Considerations for Screw Fastening Applications:

**Soft Joint Applications:** These include typical applications such as drywall fastening, exterior sheathing, metal framing, HVAC ducts, and plywood to metal connections.

**Hard Joint Applications:** These are typical applications involving metal decking (both frame and sideline), metal siding (both frame and sideline), exterior façade and window glazing, as well as applications where stripping of the base material may occur.





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