



Pro-R Duct Static Pressure Capabilities

The Pro-R Duct system is a pre-insulated patented outdoor duct solution developed by Ducts and Cleats. The Pro-R system can achieve static pressures from -10 up to +10 w.g.

Pro-R uses KoolDuct as an interior component, built per SMACNA phenolic standards ANSI-22. Pro-R adds an additional aluminum duct built per SMACNA standards around the KoolDuct as a protective weatherproofing for outdoor applications. Pro-R uses the SMACNA phenolic reinforcement standards as a starting point and uses additional proprietary reinforcement methods to go above and beyond for higher static pressure needs. These include our ProTruss reinforcement system which integrates with tie rod supports and connects from flange to flange of the duct. The reinforcement level increases as the static pressure requirements increase. The aluminum outer duct also serves as further structural reinforcement and utilizes integrated TDC flanges which are further reinforced with steel angles. The reinforcement methods and innovative design allow the duct to reach these design requirements and not have deflection above SMACNA limits.

*Note: SMACNA phenolic standards limits of 4" are based on the Kingspan KoolDuct product by itself (no weather barrier, outer metal shell or additional truss reinforcement system), which is designed for indoor applications and a different product/solution than our Pro-R Duct system.

Pro-R Duct Construction and Reinforcement Example

