



Product Data Sheet



Description

Owens Corning™ QuietR® Duct Board is a rigid, resin bonded fibrous glass board with a tough, damage-resistant, flame retardant, reinforced aluminum foil (FRK) facing. When fabricated into duct systems, it combines excellent thermal and acoustical insulating properties with substantially airtight transmission of air when all joints are sealed with UL 181A listed closures.

QuietR® Duct Board features a durable mat air stream surface that isolates the glass fiber substrate from the airstream and inhibits penetration of the insulation by dirt, dust and other pollutants. This durable air stream surface makes it easy to clean the duct system using methods and equipment described in North American Insulation Manufacturers Association (NAIMA) Publication AH122, Cleaning Fibrous Glass Insulated Duct Systems, Recommended Practice.

Key Features

- Absorbs noise and reduces popping noises caused by expansion, contraction and vibration.
- Assured thermal R-value performance.
- Bacterial and fungal growth resistant with an EPA registered biocide that protects the air stream surface from microbial growth.
- Thermal/acoustical insulation board plus jacket forms a single component duct system, thus reducing inspection time.
- Lightweight boards are easier to transport and handle than insulated sheet metal ducts.
- Virtually eliminates air leakage thus saving energy and removing the need for system overdesign.

Product Applications

QuietR® Duct Board may be used to fabricate components for indoor commercial and residential heating, ventilating and air conditioning duct systems operating at static pressures to ± 2 in. w.g. (500 Pa), internal air temperatures 40°F (4°C) to 250°F (121°C), and air velocities to 6,000 fpm (30.5 m/s). Straight duct sections, elbows, tees, offsets and other system elements can quickly and easily be fabricated at the shop or on the job and assembled into a complete air transmission system using these lightweight, thermally efficient boards.

UL Class I Air Duct

National Fire Protection Association Standards NFPA 90A and 90B for air conditioning and ventilating systems require air ducts to be Class 0 or I. The tests set stringent requirements on fire safety as well as ruggedness. To meet Class I air duct requirements, the system

Typical Physical Properties

Property	Test Method	Value
Maximum Operating Temperature Limits	UL 181A/ULC S140	Internal: 250°F (121°C) External: 150°F (66°C)
Maximum Air Velocity	UL 181A/ULC S140 Erosion Test	6,000 fpm (30.5 m/s)
Static Pressure Limit	UL 181A/ULC S140	± 2 in. w.g. (500 Pa)
Water Vapor Sorption	ASTM C109	< 0.5% by weight at 120°F (49°C), 95% R.H.
Mold Growth	UL 181A/ULC S140	Meets requirements
Fungal Resistance	ASTM C21	Meets requirements
Bacteria Resistance	ASTM C22	Meets requirements
Surface Burning Characteristics Flame Spread Smoke Developed	UL 723A/ULC S102	≤ 25 ≤ 50
Fire Retardancy	UL 181A/ULC S140	Flame Penetration: 30 min.

1. The surface burning characteristics of these products have been determined in accordance with UL 723A/ULC S102. This standard should be used to measure and describe the properties of materials, products or assemblies in response to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire hazard or fire risk of materials, products or assemblies under actual fire conditions. However, results of this test may be used as elements of a fire risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard of a particular end use. Values are reported to the nearest 5 rating.

Duct Board Product Data Sheet

Camilla Rothe

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the Camilla Rothe text bar.

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Power ,1996 ASHRAE Product Specification File ,1982 1982 ASHRAE Product Specification File ,1982 *The Safety Officer's Concise Desk Reference* Daniel Patrick O'Brien,2016-04-19 As a safety manager in today's work environment you wear hats in many different fields Sometimes you need only a specific formula or drawing to understand the current situation This resource supplies it Or maybe you want to know where to find more information on a specific subject This resource has it The Safety Officer's Concise Desk Reference gives them the essentials to get through the task immediately before them by providing the information they need to understand the issues and solve their problems effectively It covers the basics in a user friendly format with specific references of where and how to obtain additional information on a broad range of subjects including industrial hygiene ergonomics risk management fire safety and workers compensation With an extensive list of references and a glossary of terms this book supplies a quick and accurate source of essential safety information *ASHRAE Journal* ,1995 *Building Operating Management* ,1996 Sweet's Catalog File ,1992

Consulting-specifying Engineer ,1997 **ASHRAE Handbook & Product Directory** American Society of Heating, Refrigerating and Air-Conditioning Engineers,1979 **Heating, Piping, and Air Conditioning** ,1963 Vols for May 1929 Dec 1958 include the Journal of the American Society of Heating and Air Conditioning Engineers called in 1929 54 American Society of Heating and Ventilating Engineers in Journal section **The Complete Technology Book on Fibre Glass, Optical Glass and Reinforced Plastics** NIIR Board of Consultants and Engineers,2006-10-01 Although many natural materials were used in the past by man answering his instinctive urges to prevent heat loss from or entry into his dwellings no material in modern technology has satisfied the all around requirements as has fiber Glass Fiber glass optical glass and reinforced plastics have important applications and uses in the making of various products Fiberglass is a lightweight extremely strong and robust material Although strength properties are somewhat lower than carbon fiber and it is less stiff the material is typically far less brittle and the raw materials are much less expensive Its bulk strength and weight properties are also very favorable when compared to metals and it can be easily formed using molding processes Fibre glass behaves as a thermal insulation because of its entrapment of small cells of air and prevention of movement of the air in those cells In acoustical applications fibre glass presents to advancing sound waves a myriad of small anechoic chambers which reflect the sound inward from many diverse surfaces until it becomes blotted out Optical glass is a high glass material that has been seen specifically formulated to possess certain desirable characteristics that effect the propagation of light The two primary parameters that define the basic types of optical glass are its refractive index and its dispersion Transportation on wheel is of special significance to the reinforced plastics industry on a number of counts Suppliers of reinforced plastics parts are often called upon to furnish prototypes of products being considered for auto truck and bus applications Performance and quality demands on materials used in aerospace vehicles have given rise to many plastics developments and have kept profits in the

plastics industry at a higher level than those in other major markets Some of the fundamentals of the book are fibres based on natural polymers fibres based on synthetic polymers fibre glass blown wool or insulation products and their applications fibre glass in wall construction for reduced sound transmission ceramic fibre papers ceramic fibre textiles commercial polymerization processes continuous filament fibre forming methods marine applications reinforced plastics for transportation on wheels plastics in aircraft and aerospace structural laminate bag molding process reinforced molding compounds filament winding etc The present book contains processes and other valuable information for fiber glass optical glass and reinforced plastics This is very resourceful book for entrepreneurs technocrats institutions researches etc TAGS Fibre Production from Ceramic Crucibles Production of Fibre Optic Elements How Optical Fiber is Made Making Optical Fibers Optical Fibre Manufacture Optical Fiber Manufacturing Manufacturing Optical Components Optical Component Manufacturing Optical Component Production Optical Manufacturing Equipment Fiber Optic Component and Equipment Manufacturing Fibre Reinforced Plastic Fiber Reinforced Plastic Manufacturing Process Reinforced Plastic Industry Reinforced Plastic Manufacturing Methods Reinforced Plastics Production Reinforced Plastic Manufacturing Production of Reinforced Plastic Ophthalmic glass Reinforced Molding Compounds Sheet Molding Compound Laminate Bag Molding Process Plastics for Aerospace Plastics in Aircraft Reinforced Plastics for Transportation on Wheels Optics Manufacturing Process Manufacturing Optical Glass Ophthalmic Glass Manufacturing Optical Fiber Method for Manufacturing Optical Glass Manufacture of Optical Fibers Manufacturing Process of Optical Fibers Reinforced Plastic Manufacturing Plant Blowing Wool Insulation Blowing Wool Fiberglass Insulation Fiberglass Blowing Wool Insulation Fiber Glass Blowing Wool Construction Fiberglass Fiberglass in Wall Construction Thermal Insulation Metal Buildings Fabricated Fibre Glass Duct Equipment Insulation Marine Equipment Insulation Marine Products Ceramic Fibre Papers Ceramic Fibre Textiles Bulk Fibres Paints Varnishes and Solvents Filtration of Hydraulic Oil Filtration of Swimming Pool Water Glass Fibre Paper Co Polymer Composition Polymerization Process Commercial Polymerization Process Continuous Filament Fibre Forming Methods Fibre Drawing Falcon Window Frame Moldings Matched Die Molding Fabric Mat and Preform Filament Winding Filament Winding Machines Pyrolyzed and Graphitized Plastics Boat Construction NPCS Niir Process Technology Books Business Consultancy Business Consultant Project Identification and Selection Preparation of Project Profiles Startup Business Guidance Business Guidance to Clients Startup Project Startup Ideas Project for Startups Startup Project Plan Business Start Up Business Plan for Startup Business Great Opportunity for Startup Small Start Up Business Project Best Small and Cottage Scale Industries Startup India Stand Up India Small Scale Industries New Small Scale Ideas for Optics Manufacturing Industry Fibre Production Business Ideas You Can Start on Your Own Indian Optical Fiber Manufacturing Industry Small Scale Optics Manufacturing Guide to Starting and Operating Small Business Business Ideas for Reinforced Plastic Manufacturing How to Start Reinforced Plastic Manufacturing Business Starting Optical Fiber Manufacturing Start Your Own Reinforced Plastic

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The Top Books of the Year Duct Board Product Data Sheet The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. Duct Board Product Data Sheet : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Duct Board Product Data Sheet : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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