



SUBSTITUTION REQUEST

PROJECT REFERENCE:

DATE:

To:

Address:

Title:

City, State, ZIP:

Company:

Attention:

Email address:

Substitution Request: DCI Hollow Metal (DCI), Fontana, California

The purpose of this communication is for DCI Hollow Metal (DCI) to request approval as a manufacturer for the Specification Section 08110 Hollow Metal Doors and Frames for the above project. Our product meets or exceeds all specifications.

Comparison – Specified Manufacturers are members of either the Steel Door Institute (SDI) or the Hollow Metal Manufacturers Association (HMMA).

DCI Hollow Metal (DCI) is a member of each organization and has always met or exceeded the design specifications of each group.

Contractor's Certification:

All our hollow metal doors and frames adhere to ANSI A250.8 (SDI- 100). All products are A40 galvanized, with factory baked-on primer, exceeding standards. DCI Hollow Metal Standard doors are fully welded, seamless construction, also exceeding industry standards.

Non-Standard Sizes:

DCI Hollow Metal (DCI) is a custom manufacturer. Non-standard sizes, profiles and elevations on the above referenced project pose no problems for this organization.

This Document Certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to the specified product.
- DCI Hollow Metal (DCI) provides an industry-standard one-year limited warranty.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay the progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.



About DCI Hollow Metal (DCI)

DCI Hollow Metal is a family-owned manufacturer specializing in custom quick-ship hollow metal doors and frames. The company was founded in 1981 and is headquartered in Southern California with three other locations nationwide. Our quick ship method has been subject to continuous improvement, enabling the company to deliver custom hollow metal products in a dynamic timeframe. DCI Hollow Metal products are distributed nationwide through an approved distribution network. **All of the company's products are sourced and manufactured using 100% American steel.**

DCI Hollow Metal is proud to be a member of the following professional organizations and subscribes to their tenets and standards:

- Steel Door Institute/ **SDI**
 - Hollow Metal Manufacturers Association / **HMMA**
 - American Architectural Manufacturers Association / **AAMA**
 - National Association of Architectural Metal Manufacturers / **NAAMM**
-

DCI Hollow Metal (DCI) also submits its products for quality assurance standards by industry-recognized authorities. Our quality assurance meets or exceeds that required by ANSI/SDI A250.8 (Steel Door Institute) and HMMA 860 & HMMA 861. Our fire-rated products were tested and listed in strict compliance with provisions of NFPA 80, NFPA 105 NFPA 252, NFPA 257, UL 9, UL 10B, UL 10C, and UL 1784.

Other industry-recognized authorities:

- Steel Door Institute/ **SDI**
- American National Standards Institute / **ANSI**
- Intertek Testing Services / Warnock Hersey
- Underwriters Laboratories / **UL**
- National Fire Protection Agency / **NFPA**



ASSOCIATIONS



Steel Door Institute

Steel Door Institute (SDI) is a non-profit business association that promotes the use of steel doors and frames in the construction industry. Through continuous, rigorous testing, SDI sets standards for the performance, care, and use of steel doors and frames. These standards, known as the Fact File, are used by architects and construction professionals in the United States and throughout the world.



National Association of Architectural Metal Manufacturers

The National Association of Architectural Metal Manufacturers (NAAMM) is the trade association representing manufacturers of a wide range of metal products used chiefly in commercial and industrial building construction.



National Fire Protection Agency

The mission of the international nonprofit NFPA, established in 1896, is to reduce the worldwide burden of fire and other hazards on the quality of life by providing and advocating consensus codes and standards, research, training, and education. NFPA develops, publishes, and disseminates more than 300 consensus codes and standards intended to minimize the possibility and effects of fire and other risks.



Door and Hardware Institute

The Door and Hardware Institute (DHI) is the only professional association dedicated to the Architectural Openings Industry. With the purpose of advancing life safety and security within the built environment, DHI represents the North American openings marketplace as the advocate and primary resource for information, professional development and certification.



Construction Specification Institute

CSI is a national association dedicated to creating standards and formats to improve construction documents and project delivery. Its members are a cross-section of specifiers, architects, engineers, contractors, and building materials suppliers. CSI is renowned in the industry for its rigorous certification programs for professionals.

Licensing



Intertek

The Warnock Hersey Mark (WH) is North America's leading product safety and performance mark for building and construction products. Products bearing the WH Mark indicate compliance with relevant building codes, association criteria, and product safety and performance standards. The mark also signifies that the product's manufacturing site(s) undergo periodic follow-up inspections to ensure ongoing compliance with the originally certified product.



Underwriters Laboratories

Underwriters Laboratories® (UL) is an independent product safety certification organization that has been testing products and writing standards for safety for more than a century. UL evaluates more than 19,000 types of products, components, materials, and systems annually with 20 billion UL Marks appearing on 72,000 manufacturers' products each year.



Projects

The following are notable recent projects designed by other firms for which DCI Hollow Metal (DCI) has furnished hollow metal doors, door frames, side lite and/or transom lite frames, and window frames:

Schools

Desert Sands High School #4

Desert Sands Unified School District, Indio CA 92201

Architect: Ruhnau Ruhnau Clarke, Riverside CA

Construction Manager: Ledesma & Meyer Construction Co., Inc., Rancho Cucamonga CA

Total Openings: 1000

South El Monte High School

El Monte Union High School District, El Monte, CA. 91731

Project Owner: El Monte Union High School District

Construction Manager: RVH Construction Inc., Tustin, CA. 92780

Total Openings: 675

Dorothy McElhinney Middle School

Murrieta Valley Unified School District, Murrieta CA 92562

Architect: WLC Architects, Rancho Cucamonga CA

Construction Manager: EDGE Development, Inc., Temecula CA

Total Openings: 525

Gualberto J. Valadez Middle School

Placentia Unified School District, Placentia CA

Architect: WLC Architects, Rancho Cucamonga CA

Construction Manager: 3D/I in assoc. w/California Construction Management Placentia

Total Openings: 325

New Elementary School Number 18

Rialto Unified School District, Rialto CA 92376

Architect: Garcia & Associates, Rancho Cucamonga CA

Construction Manager: Ledesma & Meyer Construction Co., Inc., Rancho Cucamonga CA

Total Openings: 250



Schools Cont.

University of California San Diego(UCSD)

Project Owner: Regents of the University of California

Construction Manager: PCL Construction Services Inc., San Diego, CA 92121

Total Openings: 160

University of Las Vegas (UNLV)

UNLV School of Medicine, Las Vegas, NV.

Project Owner: UNLV School of Medicine, Las Vegas, NV.

Construction Manager: M.J. Dean Construction Inc., Las Vegas, NV. 89118

Total Openings: 125

Stanford University (SU)

Stanford, CA. 94305

Project Owner: The Board of Trustees of the Leland Standford Jr. University.

Construction Manager: House Construction, San Clemente, CA. 94305

Total Openings: 110

M.L. King Elementary School

Project Owner: Santa Ana Unified School District, Santa Ana, CA.

Construction Manager: McKernan Inc., Redlands, CA. 92375

Total Openings: 99

Healthcare

Holden Forbes Senior Community

Project Owner: US Alliance Holden of Forbes LLC.

Construction Manager: Alliance Residential Builders II G.P. Inc.

Total Openings: 190

San Antonio State Hospital

Project Owner: Texas Health & Human Services Commission

Construction Manager: Vaughn Construction, Universal City, TX. 78148

Total Openings: 75

Mountain View Memory Care

Project Owner: D'Ambrosio Property MV, LLC.

Construction Manager: Swenson Builders, San Jose, CA. 95112

Total Openings: 65



Healthcare Cont.

UCLA Childrens Hospital

Project Owner: County of Los Angeles Department of Public Works
Construction Manager: New Creations Builders, Bell Flower, CA. 90706
Total Openings: 75

YRMC Clinical Lab

Project Owner: Yuma Regional Medical Center
Construction Manager: MJ Harris Construction Services, LLC Birmingham, AL. 35244
Total Openings: 60

Hotels and Housing

Chicken Ranch Casino and Resort

Project Owner: Chicken Ranch Rancheria of Me-Wuk Indians
Construction Manager: Suffolk Construction, San Francisco, CA. 94105
Total Openings: 1200

The Standard | University of Washington Student Housing

Project Owner: The University of Washington, Seattle, WA. 98195
Construction Manager: Landmark Construction, Athens, GA. 30601
Total Openings: 1030

Sheraton San Diego

Project Owner: SSD Operations., DBA Sheraton San Diego Hotel and Marina, San Diego, CA. 92101
Construction Manager: Comren Inc. Tarzana, CA. 91356
Total Openings: 500

Cambria Hotel and Suites

Project Owner: Burbank Industrial Investors, Dallas, TX. 75201
Construction Manager: Pacific Structures SC Inc., Venice, CA. 90291
Total Openings: 270

Long Beach Senior Housing

Project Owner: Mercy Housing California 95 L.P., Los Angeles, CA. 90015
Construction Manager: United Builders Company, Inc., Granada Hills, CA. 91344
Total Openings: 225

Durango Casino and Resort

Project Owner: NP Durango, LLC., Las Vegas, NV. 89135
Construction Manager: W.A. Richardson Builders, LLC., Las Vegas, NV. 89119
Total Openings: 180



Commerical

Sunnyvale Cityline Block 3S

Project Owner: STC Ventures LLC., San Mateo, CA. 94404

Construction Manager: Build Group Inc., San Francisco, CA. 94103

Total Openings: 1500

Facebook Data Center

Project Owner: Facebook Inc., Menlo Park, CA. 94025

Construction Manager: DPR Construction, Redwood, CA. 94063

Total Openings: 975

Google Partner Labotory

Project Owner: Google LLC., Mountain View, CA, 94043

Construction Manager: NOVO Construction Inc., Menlo Park, CA. 94025

Total Openings: 376

Switch The Citadel Campus

Project Owner: Google LLC., Mountain View, CA, 94043

Construction Manager: Layton Construction Co. South Sandy Parkway, Utah 84070

Total Openings: 95

Cutter Aviation

Project Owner: City of Phoenix, Phoenix, AZ. 85027

Construction Manager: GCON Inc., Phoenix, AZ. 85085

Total Openings: 75

Lockheed Martin Cleanroom B156F 100K

Project Owner: Lockheed Martin Corporation, Littleton, CO. 80125

Construction Manager: Hensel Phelps Construction Co., Pleasanton, CA. 94588

Total Openings: 70



Standards As Tough As Steel.™

30200 Detroit Road, Cleveland, OH 44145
Phone: 440 899-0010 Fax: 440 892-1404
www.steeldoorgroup.org

May 24, 2023

To Whom It May Concern:

This letter confirms that DCI meets the Steel Door Institute's rigorous manufacturing, performance, and quality standards, and maintains compliance with the following industry and ANSI standards on a continuous basis:

SDI-113 Std. Practice for Determining the Steady-State Thermal Trans. of Steel Door & Frame Assemblies
SDI-117 Manufacturing Tolerances for Standard Steel Doors & Frames
ANSI/SDI A250.4 Test Procedure and Acceptance Criteria for — Physical Endurance for Steel Doors, Frames and Frame Anchors
ANSI/SDI A250.6 – Hardware Reinforcing on Standard Steel Doors & Frames
ANSI/SDI A250.10 Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames
UL 10C - Positive Pressure Fire Tests of Door Assemblies
ASTM A1008 Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable
ASTM A653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process

Should you have any questions, please advise.

Very truly yours,

J. J. Wherry
Managing Director

Ceco Milan, TN	Curries Mason City, IA	Deansteel San Antonio, TX	DLFI Woburn, MA
DCI Fontana, CA	HMX Huntsville, AL	Mesker Huntsville, AL	MPI Corbin, KY
Pioneer Monroe, LA	Republic McKenzie, TN	Steelcraft Cincinnati, OH	Stiles Ceres, CA



LEED

The U.S. Green Building Council's Leadership in Energy & Environmental Design (LEED®) Green Building Rating System is the nationally accepted benchmark for the design, construction, and operation of high performance green buildings. Through this system, LEED® improves occupant well-being, environmental performance, and economic return on buildings through the use of established and innovative practices, standards, and technologies.

DCI Hollow Metal purchases steel from mill producers as supported by the American Iron and Steel Institute, the American Institute of Steel Construction, and the Institute of Scrap Recycling Industries. These suppliers subscribe to the tenants of the steel recycling resources including the online resource www.recycle-steel.org.

The steel purchases for hollow metal doors and frames constitute both post-consumer and pre-consumer recycled content as formulated by the Fordham University study. This study is accepted as the Keystone formulation for LEED and recycling. The discussion and attached calculations demonstrate conclusively the inherent recycled content of today's steel in North America: to buy steel is to "Buy Recycled".

Based on the current standards, it is a correct statement that DCI Hollow Metal as a manufacturer in North America, purchases steel with a sum of post-consumer recycled content plus $\frac{1}{2}$ of the preconsumer content constitutes at least 10% or 20%, based on cost, of the total value of the materials on the project. Recycle content value is determined by weight. That fraction is then multiplied by the assembly cost to determine the recycled content value.

The combined frame and door Steel Recycle content value – determined by weight is: 68.9

Hollow metal doors and frames manufactured by DCI Hollow Metal are capable of a significant contribution towards the total points awarded under the LEED rating system due to the high recycled content and high reclamation rate of steel doors and frames. Credits applicable to the hollow metal products of DCI Hollow Metal are as follows;

Materials & Resources LEED NC v4 Credit 4: Recycled Content - intended to increase demand for building products that incorporate recycled content materials, therefore reducing impacts resulting from the extraction and processing of virgin raw materials.

Credit 4.1 (1 point) Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of the pre-consumer content constitutes at least 10% (based on cost) of the total value of the materials in the project.



LEED

Credit 4.2 (1 point in addition to MR 4.1) Use materials with recycled content such that the sum of post consumer recycled content plus one-half of the pre-consumer content constitutes at least 20% (based on cost) of the total value of the materials in the project.

Materials & Resources LEED NC v4 Credit 5: Regional Materials - Intended to increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

Credit 5.1 (1 point) Regional materials 20% extracted, processed, and manufactured regionally. Use building materials or products that have been extracted, harvested, or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% (based on cost) of the total materials value. If only a fraction of the material is extracted, harvested, or recovered and manufactured locally, then only that percentage (by weight) shall contribute to the regional value.

Credit 5.2 (1 point in addition to MR 5.1) Regional materials 20% extracted, processed, and manufactured regionally. Use building materials or products that have been extracted, harvested, or recovered, as well as manufactured, within 500 miles of the project site for an additional 10% beyond MR Credit 5.1 (total of 20% based on cost) of the total materials value. If only a fraction of the material is extracted, harvested, or recovered and manufactured locally, then only that percentage (by weight) shall contribute to the regional value.

Relative to Regional Materials credits 5.1 and 5.2, it is important to understand that unlike products harvested from a forest, iron ore is mined around the globe and blended to produce specific grades of steel. There is no process to track ore as it is extracted from its country of origin, transported, and traded on the global commodities markets. As such, it is physically impossible to know where the raw materials for steel doors and frames were extracted. For that reason, DCI Hollow Metal is not in a position to make any statement beyond the recycled content and the place of manufacture for our products.

It is DCI Hollow Metal's intention to support the environment and to provide the Architectural and Construction Industries with the highest quality product with full and explicit conformation to the standards as set by the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED).

Sincerely,
Vice President – Business Development



To whom it may concern:

DCI Hollow Metal Inc. certifies that it is in conformity with the Buy American provisions under §1605 of the American Recovery and Reinvestment Act (ARRA) of 2009.

Per § 176.70, noted below:

- (2) All of the iron, steel, and manufactured goods used in the project are produced or manufactured in the United States.
- (i) Production in the United States of the iron or steel used in the project requires that all manufacturing processes must take place in the United States, except metallurgical processes involving the refinement of steel additives. These requirements do not apply to iron or steel used as components or subcomponents of manufactured goods used in the project.
- (ii) There is no requirement with regard to the origin of components or subcomponents in manufactured goods used in the project, as long as the manufacturing occurs in the United States.

DCI Hollow Metal, with our manufacturing facilities located in Fontana, CA, and Fort Worth, TX are in compliance with section (2)(i).

Additionally, we are in compliance with section (2)(ii) as the materials used in our fabrication process are wholly obtained within the United States of America, from steel suppliers located in southern California. Mill certifications are available for review.

Sincerely,

Vice President
Sales & Marketing



Technical Data

Thermal Properties

Thermal Properties of DCI Hollow Metal
Door and Frame Assemblies
(Tested per SDI-113 and ASTM C1199, C1363, and E1423)

Core	U-Factor (Thermal Transmittance)	R-Value (Thermal Resistance)
Polyurethane	.36	2.77
Polystyrene	.42	2.39
Temp. Rise	.49	2.03
Steel Stiffened (6pcf insulation)	.61	1.63

All doors as operable assemblies with frames, seals, and hardware using hot box method.

R-Value measures the thermal resistance. The higher the R-Value, the more effective its insulation properties.

U-Factor measures the thermal transmittance of the entire door. The lower the U-Factor, the more effective its insulation properties. U-Factor of a door is the reciprocal of its R-Value. ($U=1/R$)

Cycle Counts

The following DCI Hollow Metal
18 gauge doors meet or exceed
requirements for all levels shown:

Steel Stiffened Core = 1,000,000 Cycles

Polystyrene Core = 2,000,000 Cycles

Honeycomb Core = 10,000,000 Cycles



Intertek Testing Services NA Inc.
8431 Murphy Drive
Middleton, WI 53562

Tel +1-608-836-4400
Fax +1-608-831-9279
www.intertek.com

December 7, 2018

Tom Popow
Door Components, Inc.
7980 Redwood Avenue
Fontana, CA 92336

Subject: Status of Door Components, Inc. as an Intertek Client

Dear Mr. Popow,

This letter is in response to your request for proof that Door Components, Inc. is under certification services with Intertek. We have reviewed your files with us and found that currently you have your steel doors and hollow metal frames under certification with Intertek and these doors and frames bear the Warnock Hersey mark as owned and controlled by Intertek. These doors and frames have been tested and are certified to the following standards with Intertek.

- UL 10B – Fire Tests of Door Assemblies
- UL10C – Standard for Positive Pressure Tests of Door Assemblies
- NFPA 80 – Installation of Standard Fire Doors & Fire Windows
- NFPA 252 – Standard for Fire Tests of Door Assemblies
- NFPA 257 – Standard for Fire Tests for Window and Glass Block Assemblies
- UL 9 – Standard for Fire Tests for Window Assemblies
- UL 1784 – Air Leakage Tests of Door Assemblies
- NFPA 105 - Standard for the Installation of Smoke Door Assemblies and Other Opening Protectives

For a complete list of approvals please consult the Intertek Directory of Building Products.

Please feel free to contact us if you have any questions or comments.

Sincerely,

INTERTEK TESTING SERVICES NA INC.

Justin Hendricks
Program Manager - Openings



This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only the sample tested. This report by itself does not imply that the material, product or service is or has ever been under an Intertek certification program.

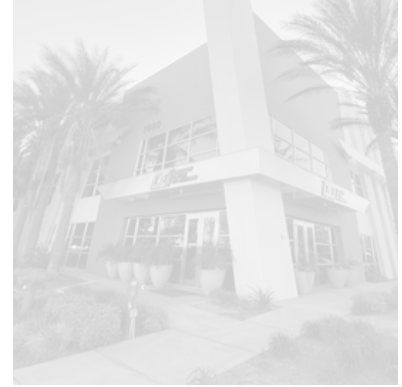




Locations

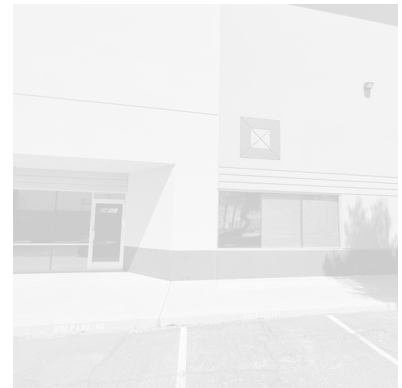
Fontana, CA. Corporate Office

DCI Hollow Metal Manufacturing Plant
7980 Redwood Ave. Fontana, CA. 92336



Phoenix, AZ.

DCI Hollow Metal Distribution Facility
5522 W. Roosevelt St. Suite C Phoenix, AZ. 85043



Fort Worth, TX

DCI Hollow Metal Manufacturing Plant
8300 S. Freeway Bldg C Suite 250 Fort Worth, TX. 76134

