SECTION 07 44 19

CERAMIC WALL PANEL SYSTEM

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\*\* NOTE TO SPECIFIER \*\* DSA - Deutsche Steinzeug America, Inc.; ceramic wall panel system.
This section is based on the products of DSA - Deutsche Steinzeug America, Inc., which is located at:
367 Curie Dr.
Alpharetta, GA 30005
Toll Free Tel: 800-584-5501
Tel: 770-442-5500
Fax: 770-442-5502
Email: [request info (info@agrob-buchtal.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=DSA++Deutsche+Steinzeug+America+Inc&coid=31108&rep=&fax=770-442-5502&message=RE:%20Spec%20Question%20(07443dsa):%20%20&mf=)
Web: <https://www.agrob-buchtal.de/en/>
 [ [Click Here](http://www.arcat.com/arcatcos/cos31/arc31108.html) ] for additional information.
Evolving in 1992 after a merger by the traditional Deutsche Steinzeug Cremer & Breuer AG and AGROB Wessel Servais AG companies, the AGROB BUCHTAL tile range picks up on a history which dates far back into the 18th century. Architects all over the world appreciate the freedom, of design offered by the enormous variety of ceramic wall and tile products for a wide variety of applications - supplemented by individual customized products. Comprehensive consulting and relief from routine tasks has been provided by the AGROB BUCHTAL Architects' Service for more than six decades.
The company's expertise is reflected in the high quality of AGROB BUCHTAL brand tiles and is based on solid know-how as well as marketable innovations. Giving rise to quality ceramics made in Germany, which save money over the long term thanks to the cleaning-friendly HT-coating. As a pioneer in the development of slip-resistant tiles, the company also sets benchmarks in this area. With a view to taking responsibility for the future, AGROB BUCHTAL promotes green building in accordance with the specifications of both national and international certification agencies.
Close co-operation with the tile retail trade and architects enables AGROB BUCHTAL to strengthen a partnership, which has been successful for everyone involved for several generations. This includes manifold sales promotion materials as well as a committed field service or on-going dialogue with architects. This success story played out against the backdrop of the brand history can be seen in numerous design prizes, highlighting the aesthetics and function of AGROB BUCHTAL brand tiles ranging from decorative earthenware wall tiles through extruded earthenware to rectified porcelain tiles in XXL formats.

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Ceramic Wall Panel Systems of the following types:
			1. Plank System (KeraTwin).
			2. Profile System (KeraShape).
			3. Tile System (KerAion).
			4. Thermal Insulation Composite System (KeraJoin).
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 05 40 00 - Cold-Formed Metal Framing.
		2. Section 07 27 19 - Plastic Sheet Air Barriers .
		3. Section 07 27 00 - Air Barriers.
		4. Section 07 20 00 - Thermal Protection.
		5. Section 07 60 00 - Flashing and Sheet Metal.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. Deutsches Institut fur Normung (DIN):
			1. DIN EN 14411 - Ceramic Tiles - Definition, classification, characteristics, assessment, and verification of constancy of performance and marking.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data:
			1. Manufacturer's data sheets on each product to be used.
			2. Preparation instructions and recommendations.
			3. Storage and handling requirements and recommendations.
			4. Typical installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
		2. Verification Samples: For each finish product specified, two full size samples representing actual product, color, and patterns.
		3. Shop Drawings: Include elevations of layout, details of materials, construction and finish. Include relationship with adjacent construction.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.
		2. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
		3. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project. Delete if not required.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
			1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
			2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
			3. Retain mock-up during construction as a standard for comparison with completed work.
			4. Do not alter or remove mock-up until work is completed or removal is authorized.
	1. DELIVERY, STORAGE, AND HANDLING
		1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
		2. Protect from damage due to weather, excessive temperature, and construction operations.
	2. PROJECT CONDITIONS
		1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
	3. WARRANTY
		1. Manufacturer's Warranty: Provide manufacturer's standard limited warranty.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: DSA - Deutsche Steinzeug America, Inc., which is located at: 367 Curie Dr.; Alpharetta, GA 30005; Toll Free Tel: 800-584-5501; Tel: 770-442-5500; Fax: 770-442-5502; Email: [request info (info@agrob-buchtal.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=DSA++Deutsche+Steinzeug+America+Inc&coid=31108&rep=&fax=770-442-5502&message=RE:%20Spec%20Question%20(07443dsa):%20%20&mf=); Web: <https://www.agrob-buchtal.de/en/>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* With its variety of colors, formats and surface finishes, KeraTwin offers the architect enormous freedom of design. And as diverse fastening alternatives ensure technical and structural versatility, this system offers the appropriate solution to any challenge - even on difficult bases. Delete if not required.

* 1. CERAMIC WALL PLANK SYSTEM
		1. Panel Basis of Design: KeraTwin; as manufactured by Deutsche Steinzeug America, Inc./AGROB BUCHTAL.
			1. Standards Compliance: DIN EN 14411, group All-a.
			2. Plank Thickness: 20 mm (0.79 inches).
			3. Weight: 32 kg/sq.m (0.045 psi).

\*\* NOTE TO SPECIFIER \*\* Delete surface profiles not required.

* + - 1. Surface Profile: Smooth.
			2. Surface Profile: Grooved panel.
			3. Surface Profile: Grooved panel positive.
			4. Surface Profile: Stripy pattern.
			5. Surface Profile: Shed profile.
			6. Surface Profile: Brushed surface.
			7. Surface Profile: Sine wave.
			8. Surface Profile: New Wave.

\*\* NOTE TO SPECIFIER \*\* Delete plank heights not required.

* + - 1. Plank Height: 150 mm (5.91 inches).
			2. Plank Height: 175 mm (6.89 inches).
			3. Plank Height: 200 mm (7.87 inches).
			4. Plank Height: 225 mm (8.86 inches).
			5. Plank Height: 250 mm (9.84 inches).
			6. Plank Height: 275 mm (10.8 inches).
			7. Plank Height: 300 mm (11.8 inches).
			8. Plank Height: 325 mm (12.8 inches).
			9. Plank Height: 350 mm (13.8 inches).
			10. Plank Height: 375 mm (14.8 inches).
			11. Plank Height: 400 mm (15.7 inches).
			12. Plank Height: 450 mm (17.7 inches).
			13. Plank Height: 500 mm (19.7 inches).
			14. Plank Height: 550 mm (21.7 inches).
			15. Plank Height: 600 mm (23.6 inches).

\*\* NOTE TO SPECIFIER \*\* 900 mm is maximum length for 150 mm and 175 mm planks. 1200 mm is maximum length for 200 mm and 225 mm planks. 1500 mm is maximum length for 250 mm and 275 mm planks. 1800 mm is maximum length for all other sizes. Delete plank lengths not required.

* + - 1. Plank Length: 900 mm (35.4 inches).
			2. Plank Length: 1200 mm (47.2 inches).
			3. Plank Length: 1500 mm (59.1 inches).
			4. Plank Length: 1800 mm (70.9 inches).
			5. Plank Length: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete finishes and color options not required.

* + - 1. Finish: SpectraView glazed, silky-matt.
				1. Color: To be selected by Architect.
				2. Color: As indicated on Drawings.
				3. Color: \_\_\_\_\_.
			2. Finish: SpectraView contrasting colors glazed, glossy.
				1. Color: To be selected by Architect.
				2. Color: As indicated on Drawings.
				3. Color: \_\_\_\_\_.
			3. Finish: Nature unglazed.
				1. Color: To be selected by Architect.
				2. Color: As indicated on Drawings.
				3. Color: \_\_\_\_\_.
			4. Finish: Design unglazed.
				1. Color: To be selected by Architect.
				2. Color: As indicated on Drawings.
				3. Color: \_\_\_\_\_.
			5. Finish: Design glazed.
				1. Color: To be selected by Architect.
				2. Color: As indicated on Drawings.
				3. Color: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete Paragraph if not required.

* + - 1. Special Shapes:

\*\* NOTE TO SPECIFIER \*\* Delete shapes not required.

* + - * 1. Mitre-cut panels for corners.
				2. Mitre-cut panels with undercut for corners.
				3. Corner profile 90.
				4. 3D profile for corners.
		1. Fastening System:

\*\* NOTE TO SPECIFIER \*\* Delete fastening systems not required.

* + - 1. KeraTwin K20 Vertical.
			2. KeraTwin K20 Vertical T-profile.
			3. KeraTwin K20 Vertical Omega profile.
			4. KeraTwin K20 Omega V.
			5. KeraTwin K20 Omega S.
			6. KeraTwin K20 Clamp System.

\*\* NOTE TO SPECIFIER \*\* With its extensive bandwidth, the KeraShape is primarily aligned towards setting highlights and supporting architects in realizing individual concepts. Apart from their function as elements of architectural design, these molded parts also serve entirely practically purposes as visual and sun protection. Delete if not required.

* 1. CERAMIC WALL PROFILE SYSTEM
		1. Panel Basis of Design: KeraShape; as manufactured by Deutsche Steinzeug America, Inc./AGROB BUCHTAL.

\*\* NOTE TO SPECIFIER \*\* Delete profiles not required.

* + - 1. Profile: Rectangular, 50 x 60 mm (2.0 x 2.4 inches).
				1. Weight: 4.29 kg/m (0.240 lb/inch).
			2. Profile: Rectangular, 60 x 60 mm (2.4 x 2.4 inches).
				1. Weight: 4.49 kg/m (0.251 lb/inch).
			3. Profile: Rectangular, 50 x 100 mm (2.0 x 3.9 inches).
				1. Weight: 6.84 kg/m (0.383 lb/inch).
			4. Profile: Lamellar, 140 x 60 mm (5.5 x 2.4 inches).
				1. Weight: 9.00 kg/m (0.504 lb/inch).

\*\* NOTE TO SPECIFIER \*\* 1200 mm is maximum length for Lamellar profile. 1500 mm is maximum length for 50 x 100 mm profile. 1800 mm is maximum length for other sizes. Delete lengths not required.

* + - 1. Length: 1200 mm (47.2 inches).
			2. Length: 1500 mm (59.1 inches).
			3. Length: 1800 mm (70.9 inches).
			4. Length: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete finishes and color options not required.

* + - 1. Finish: SpectraView glazed, silky-matt.
				1. Color: To be selected by Architect.
				2. Color: As indicated on Drawings.
				3. Color: \_\_\_\_\_.
			2. Finish: SpectraView contrasting colors glazed, glossy.
				1. Color: To be selected by Architect.
				2. Color: As indicated on Drawings.
				3. Color: \_\_\_\_\_.
			3. Finish: Natura unglazed.
				1. Color: To be selected by Architect.
				2. Color: As indicated on Drawings.
				3. Color: \_\_\_\_\_.
		1. Fastening System:

\*\* NOTE TO SPECIFIER \*\* Delete fastening systems not required.

* + - 1. Horizontal laying.
			2. Vertical laying.

\*\* NOTE TO SPECIFIER \*\* Used world-wide for decades, the KerAion facade system also offers - besides low weight and special fastening technique - alternatives to the otherwise quite usual board formats. In addition to rectangular panels, square panels in the large formats are also available, which are particularly suitable for the facade design of big buildings. Delete if not required.

* 1. CERAMIC WALL TILE SYSTEM
		1. Panel Basis of Design: KerAion; as manufactured by Deutsche Steinzeug America, Inc./AGROB BUCHTAL.

\*\* NOTE TO SPECIFIER \*\* Delete profiles not required.

* + - 1. Profile: KerAion Quadro:
				1. Thickness: 8 mm (0.31 inches).
				2. Weight: 18.5 kg/sq.m. (0.0263 psi).

\*\* NOTE TO SPECIFIER \*\* Delete sizes not required.

* + - * 1. Tile Size: 60 x 60 cm (23.6 x 23.6 inches).
				2. Tile Size: 60 x 90 cm (23.6 x 35.4 inches).
				3. Tile Size: 90 x 90 cm (35.4 x 35.4 inches).
				4. Tile Size: 90 x 120 cm (35.4 x 47.2 inches).
				5. Tile Size: 120 x 120 cm (47.2 x 47.2 inches).
			1. Profile: KerAion K8.
				1. Thickness: 8 mm (0.31 inches).
				2. Weight: 18.0 kg/sq.m. (0.0256 psi).

\*\* NOTE TO SPECIFIER \*\* Delete size not required.

* + - * 1. Tile Size: 60 x 60 cm (23.6 x 23.6 inches).
				2. Tile Size: 60 x 90 cm (23.6 x 35.4 inches).

\*\* NOTE TO SPECIFIER \*\* Delete finishes and color options not required.

* + - 1. Finish: SpectraView glazed, silky-matt.
				1. Color: To be selected by Architect.
				2. Color: As indicated on Drawings.
				3. Color: \_\_\_\_\_.
			2. Finish: SpectraView contrasting colors glazed, glossy.
				1. Color: To be selected by Architect.
				2. Color: As indicated on Drawings.
				3. Color: \_\_\_\_\_.
			3. Finish: Design glazed.
				1. Color: To be selected by Architect.
				2. Color: As indicated on Drawings.
				3. Color: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete Paragraph if not required.

* + - 1. Special Shapes:

\*\* NOTE TO SPECIFIER \*\* Delete shapes not required.

* + - * 1. Corner profile 90.
				2. 3D profile for corners.
				3. Radial corner piece.
				4. 3D profile for corners.
		1. Fastening System:

\*\* NOTE TO SPECIFIER \*\* Clasp system and bearing profile are for KerAion Quadro. Clamp system is for KerAion K8. Delete fastening systems not required.

* + - 1. Clasp system.
			2. Bearing profile.
			3. Clamp system.

\*\* NOTE TO SPECIFIER \*\* Energy-saving, noise-insulating, weatherproof and attractive over the long term: ceramic thermal insulation composite systems (TICS) fulfil all requirements on a perfect building shell, whereby the ceramic covering not only proves to be durable and color-fast - the large selection of sizes, surfaces and colors also offers extensive possibilities for design. Special customized products - a particular strength of AGROB BUCHTAL - reveal additional levels of freedom. Delete if not required.

* 1. CERAMIC THERMAL INSULATION COMPOSITE SYSTEM
		1. Basis of Design: KeraJoin; as manufactured by Deutsche Steinzeug America, Inc./AGROB BUCHTAL.
			1. Performance and Design Requirements
				1. Standards Compliance: DIN EN 14411.
				2. Frost resistant.
				3. UV-resistant.

\*\* NOTE TO SPECIFIER \*\* Delete system not required.

* + - 1. System: KeraJoin Craft:

\*\* NOTE TO SPECIFIER \*\* Delete profiles not required.

* + - * 1. Profile: Strip tile, 62 x 250 mm (2.44 x 9.84 inches).
				2. Profile: Strip tile, skirting, 62 x 250 mm (2.44 x 9.84 inches).
				3. Profile: Strip tile, wave profile, 62 x 250 mm (2.44 x 9.84 inches).
				4. Profile: V-pointed profile, 62 x 300 mm (2.44 x 11.8 inches).
				5. Profile: Grooved profile, 62 x 300 mm (2.44 x 11.8 inches).
				6. Profile: Double-tip tile, 136 x 310 mm (5.35 x 12.2 inches).

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - * 1. Color: To be selected by Architect.
				2. Color: As indicated on Drawings.
				3. Color: \_\_\_\_\_.
			1. System: KeraJoin ChromaPlural:

\*\* NOTE TO SPECIFIER \*\* Delete profiles not required.

* + - * 1. Size: 10 x 10 mm (0.39 x 0.39 inches).
				2. Size: 25 x 25 mm (0.98 x 0.98 inches).
				3. Size: 50 x 50 mm (1.97 x 1.97 inches).
				4. Size: 100 x 100 mm (3.94 x 3.94 inches).
				5. Size: 62 x 250 mm (2.44 x 9.84 inches).
				6. Size: 100 x 200 mm (3.94 x 7.87 inches).
				7. Size: 100 x 300 mm (3.94 x 11.8 inches).
				8. Size: 125 x 125 mm (4.92 x 4.92 inches).
				9. Size: 125 x 250 mm (4.92 x 9.84 inches).
				10. Size: 150 x 150 mm (5.91 x 5.91 inches).
				11. Size: 150 x 300 mm (5.91 x 11.8 inches).
				12. Size: 200 x 200 mm (7.87 x 7.87 inches).
				13. Size: 250 x 250 mm (9.84 x 9.84 inches).
				14. Size: 300 x 300 mm (11.8 x 11.8 inches).
				15. Profile: Strip tile, wave profile, 62 x 250 mm (2.44 x 9.84 inches).
				16. Profile: V-pointed profile, 62 x 300 mm (2.44 x 11.8 inches).
				17. Profile: Grooved profile, 62 x 300 mm (2.44 x 11.8 inches).
				18. Profile: Double-tip tile, 136 x 310 mm (5.35 x 12.2 inches).

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - * 1. Color: To be selected by Architect.
				2. Color: As indicated on Drawings.
				3. Color: \_\_\_\_\_.
		1. Accessory Components:

\*\* NOTE TO SPECIFIER \*\* Delete insulation option not required.

* + - 1. Insulation: Mineral fiber board insulation, as recommended by system manufacturer.
			2. Insulation: Polystyrene board insulation, as recommended by system manufacturer.
			3. Insulation retaining wall plugs, as recommended by system manufacturer.
			4. Bonding mortar with reinforcing mesh, as recommended by system manufacturer.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly constructed and prepared.
		2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions, approved submittals and in proper relationship with adjacent construction.
			1. Install in configuration as indicated on the Drawings.
			2. Set panels aligned, level, and plumb.
			3. Maintain consistent joint widths.
			4. Replace damaged or defaced panels prior to Substantial Completion.
	4. CLEANING AND PROTECTION
		1. Clean products in accordance with the manufacturer's recommendations.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION