

Seminaries and Institutes of Religion (S&I) - (C.E.S.)

STANDARD PLAN INFORMATION NOTICE

Physical Facilities Department

This notice addresses new information that may be helpful in your work with the S&I standard plan program. Please take time to review the information in order to understand its potential impact on construction work under your stewardship.

Date of Notification: *April 8, 2008*

Information Title:

Pre-Set Interior Color Schemes for Seminaries and Institutes of Religion

Information:

Pre-set Interior Color Scheme selections have now been established for use in all new Seminary & Institute Standard Plans for the U.S. and Canada. The options are limited to Navy and Burgundy schemes with additional option for either broadloom carpet or carpet tile. Carpet samples will be sent to PM's and FM's in areas doing the majority of S&I projects (mainly Utah, Idaho and NASW). Other areas should request carpet samples from S&I (CES)-HQ Physical Facility Representatives as needed for their projects.

Instructions for Implementation:

This instructional information applies to all new domestic projects unless changes require a delay, re-order of construction materials, change order resulting in a cost increase or modification of existing construction work. All interior and exterior selections should be determined by the CES Area Director or his designee, in conjunction with the Church Project Manager or Facilities Manager. Color boards will no longer be required to be submitted for interior schemes except when requested by the S&I Physical Facilities Representative on non-standard S&I projects. Representations of exterior masonry elements and other exterior finishes (fascia, EIFS, etc.) are hereby requested to be sent in electronic format to the S&I Physical Facilities Representative for review on each project.

Attachments:

- *Pre-set Interior Color Scheme Schedules for Seminaries & Institutes of Religion*
- *New Construction Vendor Directory*
- *Specification Sections 06 4005, 09 3013, 09 6813, 09 6816, 09 7226, 09 7313, 09 9001, 10 1123, 10 2113, 10 2227, 12 6113, & 12 6713*

Distribution:

√ Area Project Managers (US/CAN)	√ Kali Edwards, CES (S&I Division Secretary)
√ Project Managers (US/CAN)	√ Randy Hulbert, CES (S&I Division Director)
√ Regional Facilities Mgrs. (US/CAN)	√ Terry Cano, AEC
√ Facilities Managers (US/CAN)	√ Don Hein, AEC
	√ Michael Jenson, TSP

Pre-Set Interior Color Scheme Schedule for Seminaries & Institutes of Religion

Physical Facilities Department

Burgundy 1 Scheme

Category 1: Owner Provided Products / Sole Source Mfgs & Pre-Set Colors

PRODUCT Product Provided by Owner	MANUFACTURER Sole Source Mfg Determined by Owner (Prior to bid)	STYLE Style Determined by Owner (Prior to bid)	PRE-SET COLOR Pre-Set Color Determined by Owner (Prior to bid)
Carpet	Lees	Nauvoo	407 Columbine
Pew, Choir Seat, Padded Folding Chair Fabric	Interface Fabrics	Topography 54122	8402
Padded Stacking Chair Fabric	Momentum	Hue	Currant
Lounge Chair Fabric (burgundy) Lounge Chair Fabric (blue)	DesignTex	Dakar 2556-901 Dakar 2556-403	Shiraz Indigo
Steno Chair Fabric	Interface Fabrics	5604	4200
Executive Swivel Chair Fabric	JSI	Tuffcloth	T128 Claret
Office Side Chair Fabric	Interface Fabrics	54016	4242
Tackboard	ADP Lemco		Sterling

Category 2: Contractor Provided Products / Approved Bidders List & Pre-Set Colors

PRODUCT Product Provided by Contractor (Competitive Bid)	MANUFACTURER(S) Approved Mfgs as Listed in Specification (Using Owner Pre-Set Schemes)	STYLE(S) Approved Styles as Listed in Specification (Using Owner Pre-Set Schemes)	PRE-SET COLOR(S) Approved Pre-Set Colors as Listed in Specifications (select after award of bid)
Wood Stain			LDS Oak 95
Sisal	FiberWorks Design Materials Ronarco		Jacinth
Ceiling Tile	Armstrong	CSP	White
Mini-blinds	Graber Levelor	Classic Riviera	112 Alabaster 112 Alabaster
Ceramic Tile	DAL Tile Interceramic Tile	0135 Almond (field color) / 0100 White (accent color) Canvas 112 (field color) / Bone 110 (accent color)	
Paver Tile	DAL Tile Interceramic Tile	Porcealto Graniti Intertech	CD05 Bianco Alpi Dotti Ivory
Plastic Laminate	WilsonArt Nevamar Formica		4170-60 MR-7-2T 300-58
Acoustic Wall Carpeting	Wall Resources	Impressions	Stone

Category 3: Contractor Provided Products / Standards*

PRODUCT Product Provided by Contractor (Competitive Bid)	MFG STANDARD Approved Mfgs Listed in Specification	STYLE STANDARD Approved Styles Listed in Specification	COLOR STANDARD*
Paint	Sherwin-Williams		SW6098
Paint - Door jambs	Sherwin-Williams		SW6098 Gloss
Metal Toilet Compartments	Metpar		Almond 300

*Contractor provided products should match the color standard as closely as possible.

Pre-Set Interior Color Scheme Schedule for Seminaries & Institutes of Religion

Physical Facilities Department

Burgundy 2 Scheme

Category 1: Owner Provided Products / Sole Source Mfgs & Pre-Set Colors

PRODUCT Product Provided by Owner	MANUFACTURER Sole Source Mfg Determined by Owner (Prior to bid)	STYLE Style Determined by Owner (Prior to bid)	PRE-SET COLOR Pre-Set Color Determined by Owner (Prior to bid)
Carpet	Mannington	LDS Horizon	Medallion
Pew, Choir Seat, Padded Folding Chair Fabric	Interface Fabrics	Revival	8406
Padded Stacking Chair Fabric	Momentum	Hue	Currant
Lounge Chair Fabric (burgundy) Lounge Chair Fabric (blue)	DesignTex	Dakar 2556-901 Dakar 2556-403	Shiraz Indigo
Steno Chair Fabric	Interface Fabrics	5604	4200
Executive Swivel Chair Fabric	JSI	Tuffcloth	T128 Claret
Office Side Chair Fabric	Interface Fabrics	54016	4242
Tackboard	ADP Lemco		Sterling

Category 2: Contractor Provided Products / Approved Bidders List & Pre-Set Colors

PRODUCT Product Provided by Contractor (Competitive Bid)	MANUFACTURER(S) Approved Mfgs as Listed in Specification (Using Owner Pre-Set Schemes)	STYLE(S) Approved Styles as Listed in Specification (Using Owner Pre-Set Schemes)	PRE-SET COLOR(S) Approved Pre-Set Colors as Listed in Specifications (select after award of bid)
Wood Stain			LDS Oak 95
Sisal	FiberWorks Design Materials Ronarco		Jacinth
Ceiling Tile	Armstrong	CSP	White
Mini-blinds	Graber Levelor	Classic Riviera	112 Alabaster 112 Alabaster
Ceramic Tile	DAL Tile Interceramic Tile	0135 Almond (field color) / 0100 White (accent color) Canvas 112 (field color) / Bone 110 (accent color)	
Paver Tile	DAL Tile Interceramic Tile	Porcealto Graniti Intertech	CD05 Bianco Alpi Dotti Ivory
Plastic Laminate	WilsonArt Nevamar Formica		4170-60 MR-7-2T 300-58
Acoustic Wall Carpeting	Wall Resources	Impressions	Stone

Category 3: Contractor Provided Products / Standards*

PRODUCT Product Provided by Contractor (Competitive Bid)	MFG STANDARD Approved Mfgs Listed in Specification	STYLE STANDARD Approved Styles Listed in Specification	COLOR STANDARD*
Paint	Sherwin-Williams		SW6098
Paint-Door jambs	Sherwin-Williams		SW6098 Gloss
Metal Toilet Compartments	Metpar		Almond 300

*Contractor provided products should match the color standard as closely as possible.

Pre-Set Interior Color Scheme Schedule for Seminaries & Institutes of Religion

Physical Facilities Department

Burgundy 3 Scheme

Category 1: Owner Provided Products / Sole Source Mfgs & Pre-Set Colors

PRODUCT Product Provided by Owner	MANUFACTURER Sole Source Mfg Determined by Owner (Prior to bid)	STYLE Style Determined by Owner (Prior to bid)	PRE-SET COLOR Pre-Set Color Determined by Owner (Prior to bid)
Carpet	Mannington	LDS Axis Modular	Medallion
Pew, Choir Seat, Padded Folding Chair Fabric	Interface Fabrics	Revival	8406
Padded Stacking Chair Fabric	Momentum	Hue	Currant
Lounge Chair Fabric (burgundy) Lounge Chair Fabric (blue)	DesignTex	Dakar 2556-901 Dakar 2556-403	Shiraz Indigo
Steno Chair Fabric	Interface Fabrics	5604	4200
Executive Swivel Chair Fabric	JSI	Tuffcloth	T128 Claret
Office Side Chair Fabric	Interface Fabrics	54016	4242
Tackboard	ADP Lemco		Sterling

Category 2: Contractor Provided Products / Approved Bidders List & Pre-Set Colors

PRODUCT Product Provided by Contractor (Competitive Bid)	MANUFACTURER(S) Approved Mfgs as Listed in Specification (Using Owner Pre-Set Schemes)	STYLE(S) Approved Styles as Listed in Specification (Using Owner Pre-Set Schemes)	PRE-SET COLOR(S) Approved Pre-Set Colors as Listed in Specifications (select after award of bid)
Wood Stain			LDS Oak 95
Sisal	FiberWorks Design Materials Ronarco		Jacinth
Ceiling Tile	Armstrong	CSP	White
Mini-blinds	Graber Levelor	Classic Riviera	112 Alabaster 112 Alabaster
Ceramic Tile	DAL Tile Interceramic Tile	0135 Almond (field color) / 0100 White (accent color) Canvas 112 (field color) / Bone 110 (accent color)	
Paver Tile	DAL Tile Interceramic Tile	Porcealto Graniti Intertech	CD05 Bianco Alpi Dotti Ivory
Plastic Laminate	WilsonArt Nevamar Formica		4170-60 MR-7-2T 300-58
Acoustic Wall Carpeting	Wall Resources	Impressions	Stone

Category 3: Contractor Provided Products / Standards*

PRODUCT Product Provided by Contractor (Competitive Bid)	MFG STANDARD Approved Mfgs Listed in Specification	STYLE STANDARD Approved Styles Listed in Specification	COLOR STANDARD*
Paint	Sherwin-Williams		SW6098
Paint-Door jambs	Sherwin-Williams		SW6098 Gloss
Metal Toilet Compartments	Metpar		Almond 300

*Contractor provided products should match the color standard as closely as possible.

Pre-Set Interior Color Scheme Schedule for Seminaries & Institutes of Religion

Physical Facilities Department

Burgundy 4 Scheme

Category 1: Owner Provided Products / Sole Source Mfgs & Pre-Set Colors

PRODUCT Product Provided by Owner	MANUFACTURER Sole Source Mfg Determined by Owner (Prior to bid)	STYLE Style Determined by Owner (Prior to bid)	PRE-SET COLOR Pre-Set Color Determined by Owner (Prior to bid)
Carpet	Interface	Panorama	Redrock
Pew, Choir Seat, Padded Folding Chair Fabric	Interface Fabrics	Topography 54122	8402
Padded Stacking Chair Fabric	Momentum	Hue	Currant
Lounge Chair Fabric (burgundy) Lounge Chair Fabric (blue)	DesignTex	Dakar 2556-901 Dakar 2556-403	Shiraz Indigo
Steno Chair Fabric	Interface Fabrics	5604	4200
Executive Swivel Chair Fabric	JSI	Tuffcloth	T128 Claret
Office Side Chair Fabric	Interface Fabrics	54016	4242
Tackboard	ADP Lemco		Sterling

Category 2: Contractor Provided Products / Approved Bidders List & Pre-Set Colors

PRODUCT Product Provided by Contractor (Competitive Bid)	MANUFACTURER(S) Approved Mfgs as Listed in Specification (Using Owner Pre-Set Schemes)	STYLE(S) Approved Styles as Listed in Specification (Using Owner Pre-Set Schemes)	PRE-SET COLOR(S) Approved Pre-Set Colors as Listed in Specifications (select after award of bid)
Wood Stain			LDS Oak 95
Sisal	FiberWorks Design Materials Ronarco		Jacinth
Ceiling Tile	Armstrong	CSP	White
Mini-blinds	Graber Levelor	Classic Riviera	112 Alabaster 112 Alabaster
Ceramic Tile	DAL Tile Interceramic Tile	0135 Almond (field color) / 0100 White (accent color) Canvas 112 (field color) / Bone 110 (accent color)	
Paver Tile	DAL Tile Interceramic Tile	Porcealto Graniti Intertech	CD05 Bianco Alpi Dotti Ivory
Plastic Laminate	WilsonArt Nevamar Formica		4170-60 MR-7-2T 300-58
Acoustic Wall Carpeting	Wall Resources	Impressions	Stone

Category 3: Contractor Provided Products / Standards*

PRODUCT Product Provided by Contractor (Competitive Bid)	MFG STANDARD Approved Mfgs Listed in Specification	STYLE STANDARD Approved Styles Listed in Specification	COLOR STANDARD*
Paint	Sherwin-Williams		SW6098
Paint-Door jambs	Sherwin-Williams		SW6098 Gloss
Metal Toilet Compartments	Metpar		Almond 300

*Contractor provided products should match the color standard as closely as possible.

Pre-Set Interior Color Scheme Schedule for Seminaries & Institutes of Religion

Physical Facilities Department

Navy 1 Scheme

Category 1: Owner Provided Products / Sole Source Mfgs & Pre-Set Colors

PRODUCT Product Provided by Owner	MANUFACTURER Sole Source Mfg Determined by Owner (Prior to bid)	STYLE Style Determined by Owner (Prior to bid)	PRE-SET COLOR Pre-Set Color Determined by Owner (Prior to bid)
Carpet	Lees	Nauvoo	405 Bountiful
Pew, Choir Seat, Padded Folding Chair Fabric	Interface Fabrics	Topography 54122	0604
Padded Stacking Chair Fabric	Momentum	Transit	Midnight
Lounge Chair Fabric (burgundy) Lounge Chair Fabric (blue)	DesignTex	Dakar 2556-901 Dakar 2556-403	Shiraz Indigo
Steno Chair Fabric	Interface Fabrics	5604	1400
Executive Swivel Chair Fabric	JSI	Tuffcloth	T133 Indigo
Office Side Chair Fabric	Interface Fabrics	54016	8464
Tackboard	ADP Lemco		Sterling

Category 2: Contractor Provided Products / Approved Bidders List & Pre-Set Colors

PRODUCT Product Provided by Contractor (Competitive Bid)	MANUFACTURER(S) Approved Mfgs as Listed in Specification (Using Owner Pre-Set Schemes)	STYLE(S) Approved Styles as Listed in Specification (Using Owner Pre-Set Schemes)	PRE-SET COLOR(S) Approved Pre-Set Colors as Listed in Specifications (select after award of bid)
Wood Stain			LDS Oak 95
Sisal	FiberWorks Design Materials Ronarco		Jacinth
Ceiling Tile	Armstrong	CSP	White
Mini-blinds	Graber Levelor	Classic Riviera	112 Alabaster 112 Alabaster
Ceramic Tile	DAL Tile Interceramic Tile	0135 Almond (field color) / 0100 White (accent color) Canvas 112 (field color) / Bone 110 (accent color)	
Paver Tile	DAL Tile Interceramic Tile	Porcealto Graniti Intertech	CD05 Bianco Alpi Dotti Ivory
Plastic Laminate	WilsonArt Nevamar Formica		4170-60 MR-7-2T 300-58
Acoustic Wall Carpeting	Wall Resources	Impressions	Stone

Category 3: Contractor Provided Products / Standards*

PRODUCT Product Provided by Contractor (Competitive Bid)	MFG STANDARD Approved Mfgs Listed in Specification	STYLE STANDARD Approved Styles Listed in Specification	COLOR STANDARD*
Paint	Sherwin-Williams		SW6098
Paint-Door jambs	Sherwin-Williams		SW6098 Gloss
Metal Toilet Compartments	Metpar		Almond 300

*Contractor provided products should match the color standard as closely as possible.

Pre-Set Interior Color Scheme Schedule for Seminaries & Institutes of Religion

Physical Facilities Department

Navy 2 Scheme

Category 1: Owner Provided Products / Sole Source Mfgs & Pre-Set Colors

PRODUCT Product Provided by Owner	MANUFACTURER Sole Source Mfg Determined by Owner (Prior to bid)	STYLE Style Determined by Owner (Prior to bid)	PRE-SET COLOR Pre-Set Color Determined by Owner (Prior to bid)
Carpet	Mannington	LDS Horizon	Ocean
Pew, Choir Seat, Padded Folding Chair Fabric	Interface Fabrics	Revival	0604
Padded Stacking Chair Fabric	Momentum	Transit	Midnight
Lounge Chair Fabric (burgundy) Lounge Chair Fabric (blue)	DesignTex	Dakar 2556-901 Dakar 2556-403	Shiraz Indigo
Steno Chair Fabric	Interface Fabrics	5604	1400
Executive Swivel Chair Fabric	JSI	Tuffcloth	T133 Indigo
Office Side Chair Fabric	Interface Fabrics	54016	8464
Tackboard	ADP Lemco		Sterling

Category 2: Contractor Provided Products / Approved Bidders List & Pre-Set Colors

PRODUCT Product Provided by Contractor (Competitive Bid)	MANUFACTURER(S) Approved Mfgs as Listed in Specification (Using Owner Pre-Set Schemes)	STYLE(S) Approved Styles as Listed in Specification (Using Owner Pre-Set Schemes)	PRE-SET COLOR(S) Approved Pre-Set Colors as Listed in Specifications (select after award of bid)
Wood Stain			LDS Oak 95
Sisal	FiberWorks Design Materials Ronarco		Jacinth
Ceiling Tile	Armstrong	CSP	White
Mini-blinds	Graber Levelor	Classic Riviera	112 Alabaster 112 Alabaster
Ceramic Tile	DAL Tile Interceramic Tile	0135 Almond (field color) / 0100 White (accent color) Canvas 112 (field color) / Bone 110 (accent color)	
Paver Tile	DAL Tile Interceramic Tile	Porcealto Graniti Intertech	CD05 Bianco Alpi Dotti Ivory
Plastic Laminate	WilsonArt Nevamar Formica		4170-60 MR-7-2T 300-58
Acoustic Wall Carpeting	Wall Resources	Impressions	Stone

Category 3: Contractor Provided Products / Standards*

PRODUCT Product Provided by Contractor (Competitive Bid)	MFG STANDARD Approved Mfgs Listed in Specification	STYLE STANDARD Approved Styles Listed in Specification	COLOR STANDARD*
Paint	Sherwin-Williams		SW6098
Paint-Door jambs	Sherwin-Williams		SW6098 Gloss
Metal Toilet Compartments	Metpar		Almond 300

*Contractor provided products should match the color standard as closely as possible.

Pre-Set Interior Color Scheme Schedule for Seminaries & Institutes of Religion

Physical Facilities Department

Navy 3 Scheme

Category 1: Owner Provided Products / Sole Source Mfgs & Pre-Set Colors

PRODUCT Product Provided by Owner	MANUFACTURER Sole Source Mfg Determined by Owner (Prior to bid)	STYLE Style Determined by Owner (Prior to bid)	PRE-SET COLOR Pre-Set Color Determined by Owner (Prior to bid)
Carpet	Mannington	LDS Axis Modular	Ocean
Pew, Choir Seat, Padded Folding Chair Fabric	Interface Fabrics	Revival	0604
Padded Stacking Chair Fabric	Momentum	Transit	Midnight
Lounge Chair Fabric (burgundy) Lounge Chair Fabric (blue)	DesignTex	Dakar 2556-901 Dakar 2556-403	Shiraz Indigo
Steno Chair Fabric	Interface Fabrics	5604	1400
Executive Swivel Chair Fabric	JSI	Tuffcloth	T133 Indigo
Office Side Chair Fabric	Interface Fabrics	54016	8464
Tackboard	ADP Lemco		Sterling

Category 2: Contractor Provided Products / Approved Bidders List & Pre-Set Colors

PRODUCT Product Provided by Contractor (Competitive Bid)	MANUFACTURER(S) Approved Mfgs as Listed in Specification (Using Owner Pre-Set Schemes)	STYLE(S) Approved Styles as Listed in Specification (Using Owner Pre-Set Schemes)	PRE-SET COLOR(S) Approved Pre-Set Colors as Listed in Specifications (select after award of bid)
Wood Stain			LDS Oak 95
Sisal	FiberWorks Design Materials Ronarco		Jacinth
Ceiling Tile	Armstrong	CSP	White
Mini-blinds	Graber Levelor	Classic Riviera	112 Alabaster 112 Alabaster
Ceramic Tile	DAL Tile Interceramic Tile	0135 Almond (field color) / 0100 White (accent color) Canvas 112 (field color) / Bone 110 (accent color)	
Paver Tile	DAL Tile Interceramic Tile	Porcealto Graniti Intertech	CD05 Bianco Alpi Dotti Ivory
Plastic Laminate	WilsonArt Nevamar Formica		4170-60 MR-7-2T 300-58
Acoustic Wall Carpeting	Wall Resources	Impressions	Stone

Category 3: Contractor Provided Products / Standards*

PRODUCT Product Provided by Contractor (Competitive Bid)	MFG STANDARD Approved Mfgs Listed in Specification	STYLE STANDARD Approved Styles Listed in Specification	COLOR STANDARD*
Paint	Sherwin-Williams		SW6098
Paint-Door jambs	Sherwin-Williams		SW6098 Gloss
Metal Toilet Compartments	Metpar		Almond 300

*Contractor provided products should match the color standard as closely as possible.

Pre-Set Interior Color Scheme Schedule for Seminaries & Institutes of Religion

Physical Facilities Department

Navy 4 Scheme

Category 1: Owner Provided Products / Sole Source Mfgs & Pre-Set Colors

PRODUCT Product Provided by Owner	MANUFACTURER Sole Source Mfg Determined by Owner (Prior to bid)	STYLE Style Determined by Owner (Prior to bid)	PRE-SET COLOR Pre-Set Color Determined by Owner (Prior to bid)
Carpet	Interface	Panorama	Denim
Pew, Choir Seat, Padded Folding Chair Fabric	Interface Fabrics	Topography 54122	0604
Padded Stacking Chair Fabric	Momentum	Transit	Midnight
Lounge Chair Fabric (burgundy) Lounge Chair Fabric (blue)	DesignTex	Dakar 2556-901 Dakar 2556-403	Shiraz Indigo
Steno Chair Fabric	Interface Fabrics	5604	1400
Executive Swivel Chair Fabric	JSI	Tuffcloth	T133 Indigo
Office Side Chair Fabric	Interface Fabrics	54016	8464
Tackboard	ADP Lemco		Sterling

Category 2: Contractor Provided Products / Approved Bidders List & Pre-Set Colors

PRODUCT Product Provided by Contractor (Competitive Bid)	MANUFACTURER(S) Approved Mfgs as Listed in Specification (Using Owner Pre-Set Schemes)	STYLE(S) Approved Styles as Listed in Specification (Using Owner Pre-Set Schemes)	PRE-SET COLOR(S) Approved Pre-Set Colors as Listed in Specifications (select after award of bid)
Wood Stain			LDS Oak 95
Sisal	FiberWorks Design Materials Ronarco		Jacinth
Ceiling Tile	Armstrong	CSP	White
Mini-blinds	Graber Levelor	Classic Riviera	112 Alabaster 112 Alabaster
Ceramic Tile	DAL Tile Interceramic Tile	0135 Almond (field color) / 0100 White (accent color) Canvas 112 (field color) / Bone 110 (accent color)	
Paver Tile	DAL Tile Interceramic Tile	Porcealto Graniti Intertech	CD05 Bianco Alpi Dotti Ivory
Plastic Laminate	WilsonArt Nevamar Formica		4170-60 MR-7-2T 300-58
Acoustic Wall Carpeting	Wall Resources	Impressions	Stone

Category 3: Contractor Provided Products / Standards*

PRODUCT Product Provided by Contractor (Competitive Bid)	MFG STANDARD Approved Mfgs Listed in Specification	STYLE STANDARD Approved Styles Listed in Specification	COLOR STANDARD*
Paint	Sherwin-Williams		SW6098
Paint-Door jambs	Sherwin-Williams		SW6098 Gloss
Metal Toilet Compartments	Metpar		Almond 300

*Contractor provided products should match the color standard as closely as possible.

New Construction Vendor Directory

for Fabric and Product Samples

Seminaries & Institutes of Religion

Physical Facilities Department

Product Item	Building Stain Color	Fabric Pattern Name Color Scheme and Number	Company/Manufacturer	Contact for Samples / Prod Info
Carpet	Oak 95	Nauvoo Burgundy 1: 407 - Columbine Navy 1: 405 - Bountiful	Lees 535 West 800 South Bountiful UT 84010 Office: (801) 397-5626 Toll Free Office(800) 523-5555 Toll Free Fax (866) 268-8794 Office Fax (801) 397-0048 Contacts: Doug Garner, Regional Mgr Mobil: (801) 755-4447 doug@certifiedsales.org Michael Bush, Estimator michael@certifiedsales.org Todd Davis, Scheduler todd@certifiedsales.org	For Samples: Lees Carpets Mill LeAnn (800) 523-5647 x36643 For Product Info: Jerry Bell: office: (801) 266-6722 cell: (801) 557-0206 (800) 523-5647 x36104 jrbell01@msn.com
		LDS Horizon Burgundy 2: Medallion Navy 2: Ocean	Mannington -- Flooring Services 2020 West Industrial Circle SLC, UT 84104 (801) 487-3600 x102 (801) 466-5330 (Fax)	For Samples: Mannington Mill: (800) 241-2262 x8045
		LDS Axis Modular Burgundy 3: Medallion Sapphire 3: Ocean	Contacts: Marie Davis SLC#: (888) 487-3600 x102 Mobil: (801) 509-5879 Marie@flooringservices.com	Product Info: Steve Vaughn office: (801) 572-6311 Mobil: (801) 898 8602 Voice: (800) 241-2262 x8518
		Panorama Burgundy 4: Red Rock Navy 4: Denim	Interface Flooring Resource Utah 360 West 600 South Salt Lake City, UT 84101 (801) 355-9300 lori.longhurst@resourceutah.com	For Samples: Barry Ryskamp (801) 582-2809 barry.ryskamp@us.interfaceinc.com
Pew, Choir Seat, Padded Folding Chair	Oak 95	Revival #47002 Burgundy 2,3 8406 Navy 2,3 0604	Interface Fabric 304 East Main Street P.O. Box 530 Elkin, NC 28621 (336) 835-2211	Ted, Manoli, or Cal Silverstate Suppliers office: (801) 972-6770 toll free: (800) 453-5777 Beth Krebill Interface Fabric (616) 554-2286 beth.krebill@interfacefabric.com
		Topography #54122 Burgundy 1,4: 8402 Navy 1,4: 0604		

Product Item	Building Stain Color	Fabric Pattern Name Color Scheme and Number	Company/Manufacturer	Contact for Samples / Prod Info
Padded Stacking Chair	Oak 95	Hue Burgundy - all: Currant Transit Navy - all: Midnight	Momentum Textiles 17801 Fitch Street Irvine, CA 92614 (949) 833-8886	Customer Service: (800) 366-6839 Gail Talley: gtalley@momtex.com
Lounge Chairs	Oak 95	Dakar 2556 All schemes Shiraz 901 Indigo 403	Designtex 595 South Broadway Suite 107E Denver, CO 80209 (800) 221-1540	Deborah Warren (801) 520-4964 dwarren@dtex.com
Steno Chair	Oak 95	#5604 Burgundy - all: 4200 Navy - all: 1400	Interface Fabric 304 East Main Street P.O. Box 530 Elkin, NC 28621 (336) 835-2211	Beth Krebill Interface Fabric (616) 554-2286 beth.krebill@interfacefabric.com
Executive Swivel Chair	Oak 95	Tuffcloth Burgundy - all: T128 Claret Navy - all: T133 Indigo	JSI	Customer Service: (800) 621-5250
Office Side Chair	Oak 95	Chameleon #54016 Burgundy - all: 4242 Navy - all: 8464	Interface Fabric 304 East Main Street P.O. Box 530 Elkin, NC 28621 (336) 835-2211	Beth Krebill Interface Fabric (616) 554-2286 beth.krebill@interfacefabric.com
Tackboard	Oak 95	Burgundy - all: Sterling BR-077 Navy - all: Sterling BR-077	ADP Lemco Corp. West Jordan, UT (800) 575-3626 (801) 280-4000	Customer Service: (800) 575-3626
Wood Stain	Oak 95	LDS 95 Burgundy - all: Oak 95 Navy - all: Oak 95	The Church of Jesus Christ of Latter-day Saints A&E Division / Worldwide Standard Plans Section 50 East North Temple Salt Lake City, UT 84150	DeeAnn Williams office:(801) 240-2472

Product Item	Building Stain Color	Fabric Pattern Name Color Scheme and Number	Company/Manufacturer	Contact for Samples / Prod Info
Sisal	Oak 95	Burgundy - all: #334 Jacinth Navy - all: #334 Jacinth	Fibreworks Louisville, KY (800) 843-0063 (502) 499-9944 www.fibreworks.com	Customer Service: (800) 843-0063
		Burgundy - all: #0250 Jacinth Navy - all: #0250 Jacinth	Design Materials Kansas City, KS (800) 654-6451 www.dmikc.com	Customer Service (800) 654-6451
		Burgundy - all: #34 Jacinth Navy - all: #34 Jacinth	Ronarco Nipomo, CA (805) 929-2152 alors1@juno.com	Chris Hawkins: office: (805) 929-2152
Ceiling Tile	Oak 95	CSP Burgundy - all: White Navy - all: White	Armstrong Lancaster, PA (888) 234-5464 (717) 397-0611 www.ceiling.com	Customer Service: (888) 234-5464
Paint	Oak 95	Burgundy - all: SW6098 Navy - all: SW6098	Sherwin Williams	See specifications:
Plastic Laminate	Oak 95	All schemes 4170-60 All schemes MR-7-2T All schemes 300-58	Wilsonart Nevamar Formica	See specifications:
Ceramic Tile (walls)	Oak 95	Semi-gloss or Matte All schemes 0100 White 0135 Almond	DAL Tile 3037 South 300 West Salt Lake City, UT 84115 (801) 487-9901	Lisa Prunty (801) 487-9901 (801) 301-3879 cell lisa.prunty@daltile.com
		IC Brites All schemes Bone 110 Canvas 112	Interceramic 2940 South 300 West Unit E Salt Lake City, UT 84115 (801) 467-8453	James Allred (801) 467-8453 (801) 493-9353 cell jallred@interceramicusa.com
Paver Tile (8"x8" and 12"x12")	Oak 95	Porcealto Graniti All schemes CD05 Bianco Alpi	DAL Tile see above	see above
		Intertech All schemes Dotti Ivory	Interceramic see above	see above
Metal Toilet Compartments	Oak 95	All schemes Almond 300	Metpar	See Specifications:
Acoustic Wall Carpeting	Oak 95	Impressions All schemes Stone	Hytex	Wall Resources Kim Dominguez (800) 323-8226 kdominguez@wallresources.com

SECTION 12 6113**UPHOLSTERED AUDIENCE SEATING****PART 1 - GENERAL****1.1 SUMMARY**

A. Related Requirements:

1. Section 01 1200: Owner will furnish and install upholstered audience seating shown on Rostrum. This Section establishes quality of materials and installation for information of Contractor, Architect, and Owner's Representatives.

PART 2 - PRODUCTS**2.1 OWNER-FURNISHED PRODUCTS**

A. Manufacturer:

1. Category Two Approved Product. See Section 01 6200 for definitions of Categories.
 - a. Model 41273, 21 inch 533 mm wide by Irwin Seating, Grand Rapids, MI
www.irwinseating.com.

B. Description:

1. Stain Color:
 - a. Red Oak arm rests with LDS 95 stain.
 - b. Red Oak arm rests with LDS Cherry stain.
2. Upholstery Color And Pattern:
 - a. Emerald '1': Chatham Revival, 0717 Emerald.
 - b. Emerald '2': Chatham Topography 54122, 7702 Emerald.
 - c. Emerald '3': Chatham Topography 54122, 7702 Emerald.
 - d. Garnet '1': Chatham Revival, 8406 Garnet.
 - e. Garnet '2': Chatham Revival, 8406 Garnet.
 - f. Garnet '3': Chatham Topography 54122: 8402 Garnet.
 - g. Sapphire '1': Chatham Topography 54122: 0604 Sapphire.
 - h. Sapphire '2': Chatham Revival, 0604 Sapphire.
 - i. Sapphire '3': Chatham Topography 54122: 0604 Sapphire.
 - j. Chatham Revival: 0604 Sapphire, 0717 Emerald, 8406 Garnet.
 - k. Chatham Topography 54122: 0604 Sapphire, 7702 Emerald.
 - l. Chatham Topography 54122: 8402 Garnet.
3. Upholstery Color And Pattern:
 - a. Burgundy '1': Chatham Topography 54122, 8402 Garnet.
 - b. Burgundy '2': Chatham Revival, 8406 Garnet.
 - c. Burgundy '3': Chatham Revival, 8406 Garnet.
 - d. Burgundy '4': Chatham. Topography 54122, 8402 Garnet
 - e. Navy '1': Chatham Topography 54122, 0604 Sapphire.
 - f. Navy '2': Chatham Revival, 0604 Sapphire.
 - g. Navy '3': Chatham Revival, 0604 Sapphire.
 - h. Navy '4': Chatham Topography 54122, 0604 Sapphire.
 - i. Chatham Revival: 0604 Sapphire, 0717 Emerald, 8406 Garnet.
 - j. Chatham Topography 54122: 0604 Sapphire, 7702 Emerald, 8402 Garnet.

C. Seating:

1. Bookrack on every other chair.
2. Suspension substrate and foam type seat cushion.
3. Plastic laminate decorative insert in aisle standard.

PART 3 - EXECUTION**3.1 INSTALLATION**

- A. Assemble and install Rostrum seating in accordance with Manufacturer's assembly and installation manual that shall be included with each shipment. Do not proceed without this manual.
- B. Punch holes through carpet with **1/2 inch 13 mm** hollow punch and drill guide holes for screws with **5/32 inch 4 mm** drill.

END OF SECTION

SECTION 12 6713**PEWS****PART 1 - GENERAL****1.1 SUMMARY**

A. Related Requirements:

1. Section 01 1200: Owner will furnish and install Pews. This Section establishes quality of materials and installation for information of Contractor, Architect, and Owner's Representatives.

1.2 SUBMITTALS

A. Action Submittals:

1. Samples: Sample of Red Oak showing stain and finish to be used on pews. Include formulation of stain used. Sample will be used as standard for evaluating pew finish provided.

B. Closeout Submittals:

1. Warranty Documentation: Include final, executed copy of warranty in Operations And Maintenance Manual specified in Section 01 7800.

1.3 WARRANTY

A. Form of Guarantee:

<Insert Name and Address of Supplier > does hereby guarantee the furniture covered in your order of **<Insert Date>** and our order **<Insert Order No.>** against defects for 5 years, if equipment is left fastened to floor in building where our Supervisor and his erection crew installed it. If defects do show up, we will replace or repair the defective parts without cost to the Owner. This Warrantee does not cover damage to pews caused by undue exposure to the elements, by vandalism, or by any cause other than defects in workmanship or materials under ordinary usage. If this equipment is removed from building or taken up from floor and put back, this Warranty will be void.

<Insert Name of Company>
<Insert Duly Authorized Agent>

PART 2 - PRODUCTS**2.1 OWNER-FURNISHED PRODUCTS**

A. Manufacturer:

1. Marshall Company, Payette, ID www.marshallpews.com.
2. Sauder Manufacturing Co, Archbold, OH www.sauderworship.com.

B. Performance:

1. Design Criteria:
 - a. Wood Exposed To View: Solid FAS grade Appalachian grown oak with 6 percent maximum moisture content during construction and hand sorted for uniform texture and color matching. No mineral grains will be acceptable.
 - b. Pew Type:
 - 1) Solid Wood Seat And Back, unupholstered.
 - 2) Upholstered Seat, Solid Wood Back.

3) Upholstered Seat And Back.

C. Materials:

1. Wood Thickness:
 - a. Ends: 1-3/4 inches 44 mm minimum thickness.
 - b. Supports: 1-1/4 inches 32 mm minimum thickness.
 - c. Upholstered Backs: 4/4 inches 25 mm thick minimum by 4-1/2 inches 113 mm maximum width stock.
 - d. Upholstered Seats: 5/4 inches 32 mm thick minimum by 4-1/2 inches 113 mm maximum width stock.
2. Foam: 1.8 lbs per cu ft density polyurethane foam with minimum ILD of 45 lb for seats and 32 lbs for backs.
3. Upholstery Color And Pattern:
 - a. Emerald '1': Chatham Revival, 0717 Emerald.
 - b. Emerald '2': Chatham Topography 54122, 7702 Emerald.
 - c. Emerald '3': Chatham Topography 54122, 7702 Emerald.
 - d. Garnet '1': Chatham Revival, 8406 Garnet.
 - e. Garnet '2': Chatham Revival, 8406 Garnet.
 - f. Garnet '3': Chatham Topography 54122: 8402 Garnet.
 - g. Sapphire '1': Chatham Topography 54122: 0604 Sapphire.
 - h. Sapphire '2': Chatham Revival, 0604 Sapphire.
 - i. Sapphire '3': Chatham Topography 54122: 0604 Sapphire.
 - j. Chatham Revival: 0604 Sapphire, 0717 Emerald, 8406 Garnet.
 - k. Chatham Topography 54122: 0604 Sapphire, 7702 Emerald.
 - l. Chatham Topography 54122: 8402 Garnet.
4. Upholstery Color And Pattern:
 - a. Burgundy '1': Chatham Topography 54122, 8402 Garnet.
 - b. Burgundy '2': Chatham Revival, 8406 Garnet.
 - c. Burgundy '3': Chatham Revival, 8406 Garnet.
 - d. Burgundy '4': Chatham. Topography 54122, 8402 Garnet
 - e. Navy '1': Chatham Topography 54122, 0604 Sapphire.
 - f. Navy '2': Chatham Revival, 0604 Sapphire.
 - g. Navy '3': Chatham Revival, 0604 Sapphire.
 - h. Navy '4': Chatham Topography 54122, 0604 Sapphire.
 - i. Chatham Revival: 0604 Sapphire, 0717 Emerald, 8406 Garnet.
 - j. Chatham Topography 54122: 0604 Sapphire, 7702 Emerald, 8402 Garnet.
5. Glue: U S Plywood JMK514, Prestoset, Weldwood, Perkins L-100, or Architect approved equal.
6. Hymn Book Racks: Of size to receive two hymn books. Provide one rack between each pair of supports.
7. Miscellaneous Hardware: Manufacturer to supply necessary screws, washers, and miscellaneous hardware for complete pew assembly and installation.

D. Fabrication:

1. Pew Body:
 - a. Assemble with specified lumber in random widths and lengths.
 - b. Tongue and groove joints are preferred, however, butt joints with glue line rip saw are acceptable providing Manufacturer will guarantee satisfactory performance.
 - c. Pew bodies 150 inches 3 750 mm or less in length shall be one piece. Longer pews may be assembled with blind joint. Joint shall occur over support.
2. Pew Ends:
 - a. Rift block construction is preferred, however, edge-glued construction is acceptable provided Manufacturer will guarantee satisfactory performance.
 - b. Minimum Thickness: 1-3/4 inches 44 mm.
 - c. Rout end 1/2 inch 13 mm deep to receive back and seat.
 - d. Wedge and screw pew body to end.
3. Pew Supports
 - a. Rift block or edge-glued construction of 1-1/4 inches 32 mm minimum thickness.
 - b. Terminate supports within 2 inches 50 mm of cap rail.
 - c. Seat and back shall be in full contact with support member so no wedging is required at seat and no molding is required to hide joint with pew back.

- d. 72 inches 1 800 mm maximum spacing between supports.
- E. Finishes:
- 1. Factory Finish:
 - a. Stain:
 - 1) Penetrating, non-fading sealer-stain hand wiped to obtain best possible uniform color.
 - 2) LDS Cherry custom Chestnut color.
 - 3) LDS 95 Light Oak.
 - b. Filler: Use of filler is not required if high quality finish can be achieved without it.
 - c. Sealer: Apply one hot coat of lacquer sealer followed by hand sanding with No. 240 wet or dry paper.
 - d. Apply three coats of lacquer using no reducer to thin material. Lightly sand between coats.
 - e. Finish surface shall be free of skips, runs, sags, or lacquer dust.

2.2 SOURCE QUALITY CONTROL

- A. Identification: Permanently identify Manufacturer's name, address, model, and fabric color on under side of each pew.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Attach securely to floor with concealed fasteners. Figure '8' clips or angles are not acceptable.
- B. Spacing and alignment shall be uniform and true.
- C. When installing over carpet, punch holes through carpet with hollow cutting tool. Do not drill.

END OF SECTION

SECTION 06 4005**PLASTIC LAMINATE****PART 1 - GENERAL****1.1 SUMMARY**

- A. Products Furnished But Not Installed Under This Section:
 - 1. Wall-hung counters.
 - 2. Countertops for custom casework.
- B. Related Requirements:
 - 1. Section 06 2001:
 - a. Installation of wall-hung counters.
 - b. Installation of countertops for custom casework.
 - 2. Section 06 4001: Common Architectural Woodwork Requirements.
 - 3. Section 22 4200: Plumbing Fixtures.

1.2 REFERENCES

- A. Reference Standards:
 - 1. American National Standards Institute:
 - a. ANSI A161.2-1979 (R1987), 'Performance Standards for Fabricated High Pressure Decorative Laminate Countertops.'
 - 2. National Electrical Manufacturer's Association / American National Standards Institute:
 - a. NEMA / ANSI LD-3-2005, 'High Pressure Decorative Laminates.'

1.3 SUBMITTALS

- A. Action Submittals:
 - 1. Product Data: Color selections.
- B. Closeout Submittals:
 - 1. Operation And Maintenance Data:
 - a. Include following information in Operation And Maintenance Manual specified in Section 01 7800:
 - 1) Manufacturer's literature for plastic laminate.
 - 2) Color selections.

PART 2 - PRODUCTS**2.1 MATERIALS**

- A. Manufacturers:
 - 1. Type Two Acceptable Manufacturers:
 - a. Formica, Cincinnati, OH www.formica.com, all matte finish.
 - b. Nevamar, Odenton, MD www.nevamar.com.
 - c. WilsonArt, Temple, TX www.wilsonart.com.
 - d. Equal as approved by Architect before bidding. See Section 01 6200.
- B. Plastic Laminates:
 - 1. Quality:

- a. Countertops:
 - 1) Post-formed front edge and backsplash, except where detailed otherwise, with plastic laminate meeting requirements of ANSI / NEMA LD 3: PF 42.
 - a) Vertical Applications: GP 28.
 - b) Horizontal (other than countertops): GP 38.
 - 2) No raised lip on front edge.
 - b. Balancing Material: BK 20.
 - c. AWI Quality Grade: Premium.
2. Assemblies:
 - a. Countertops shall meet requirements of ANSI A161.2.
 - b. Adhesives for other than post-formed types shall be spray grade, high heat resistant, neoprene contact adhesive.
 3. Category Four Acceptable Colors. See Section 01 6200 for definition of Categories:
 - a. No. 300-58 by Formica.
 - b. No. MR-7-2T, textured, by Nevamar.
 - c. No. 4170-60 by WilsonArt.

PART 3 - EXECUTION: Not Used

END OF SECTION

SECTION 09 3013**CERAMIC TILING****PART 1 - GENERAL****1.1 SUMMARY**

- A. Includes But Not Limited To:
 - 1. Furnish and install ceramic tile and tile setting materials and accessories as described in Contract Documents.
- B. Related Requirements:
 - 1. Section 09 2900: Backerboard behind ceramic tile, except for joint reinforcing.

1.2 REFERENCES

- A. Reference Standard:
 - 1. American National Standards Institute:
 - a. ANSI A118.1-1999, 'Specifications for Dry-Set Portland Cement Mortar.'
 - b. ANSI A118.4-1999, 'Specifications for Latex Portland Cement Mortar.'
 - c. ANSI A118.12-2005, 'Specifications for Crack Isolation Membranes for Thin-set Ceramic Tile and Dimension Stone Installations.'
 - d. ANSI A118.10-1999, 'Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installations.'
 - e. ANSI A137.1-1988, 'Ceramic Tile.'
 - 2. ASTM International:
 - a. ASTM A 185-05a, 'Standard Specification for Steel Welded Wire Fabric, Plain, for Concrete Reinforcement.'
 - b. ASTM C 144-03, 'Standard Specification for Aggregate for Masonry Mortar.'
 - c. ASTM C 150-05, 'Standard Specification for Portland Cement.'
 - d. ASTM C 206-03, 'Standard Specification for Finishing Hydrated Lime.'
 - e. ASTM C 207-06, 'Standard Specification for Hydrated Lime for Masonry Purposes.'
 - f. ASTM C 04, 'Standard Specification for Metal Lath.'
 - 3. Tile Council of North America:
 - a. TCNA Handbook, 'Handbook for Ceramic Tile Installation, 2006.'

1.3 SUBMITTALS

- A. Action Submittals:
 - 1. Samples:
 - a. 24 inch 600 mm square sample on specified tile backer showing all types of tile, grout, and colors specified in this Section. 1/2 of sample board shall show floor tile and 1/2 shall show wall tile.
 - b. One sample of each type of base tile and trim piece to be used on Project.
- B. Informational Submittals:
 - 1. Certificates: Master grade certificate.
- C. Closeout Submittals:
 - 1. Operations And Maintenance Data: Include following in Operations And Maintenance Manual specified in Section 01 7800:
 - a. Manufacturer's cut sheets of materials used in installed system.
 - b. Cleaning and maintenance instructions.
 - c. Tile color and pattern selections.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store packaged materials in their original unopened containers with labels intact until time of use. Store and handle materials in a manner to prevent damage or contamination by water, freezing, or foreign matter.
- B. Keep grade seals intact and cartons dry until tile are used.

1.5 FIELD CONDITIONS

- A. Ambient Conditions: Keep ambient temperatures of area to receive tile work and surface temperatures of substrates at **50 deg F 10 deg C** minimum during preparation of mortar bed, laying of tile, and for 72 hours after completion of tile work. Use electric heat to prevent discoloration of grout.

1.6 WARRANTY

- A. 25 year warranty on Installation and materials.

PART 2 - PRODUCTS

2.1 SYSTEMS

- A. Category Two National Contract Suppliers. See Section 01 6200 for definitions of Categories.
 - 1. Contact following suppliers to procure components of tile assembly:
 - a. Daltile And Stone, Salt Lake City, UT. LDS Project Coordinators: Russ Green and Larry McCleary, (801) 487-9901, FAX 801-487-045 larry.mccleary@daltile.com.
 - b. Interceramic Tile and Stone Gallery, Salt Lake City, UT. LDS Project Coordinators: Mike Kelsch and James Allred, (801) 467-8453, FAX 8014678469 slc@interceramicusa.com.
- B. Performance:
 - 1. Design Criteria:
 - a. Paver Tile: Standard grade porcelain tile, solid color throughout, graded in accordance with ANSI A137.1-1988.
 - b. Ceramic Tile:
 - 1) Tile shall be standard quality, white or off-white body, square or cushion edge, graded in accordance with ANSI A137.1.
 - 2) Square edge, white body, lug type wall tile. Field wall tile shall have two lugs on each edge to assure uniform joint, approximately **0.040 inch one mm**.
 - 3) External and internal corner pieces shall be standard grade.
 - c. Font Floor And Font Stair Treads: Porcelain mosaic tile with non-slip, non-abrasive surface.
 - 2. Capabilities:
 - a. Paver Tile:
 - 1) Water Absorption when tested in accordance with ASTM C 373: 0.1 to 0.5 percent.
 - 2) Abrasive Wear Resistance when tested in accordance with ASTM C 501: 275 minimum.
 - 3) Breaking Strength when tested in accordance with ASTM C 648: 300 lbs minimum.
 - 4) Bond Strength when tested in accordance with ASTM C 482: 200 psi minimum.
 - 5) Coefficient of Friction when tested in accordance with ASTM C1028: 0.6 COF minimum.
- C. Description:
 - 1. Paver Tile:
 - a. Tile Sizes:
 - 1) Spaces Without Floor Drains: **12 inches 300 mm** square minimum.
 - 2) Spaces With Floor Drains: **8 inches 200 mm** square.

- 3) Cove Base: 6 inches by 8 inches 150 mm by 200 mm.
- b. Category Four Approved Colors. See Section 01 6200 for definitions of Categories.
 - 1) CD05 Bianco Alpi by Daltille.
 - 2) Dotti Ivory by Interceramic.
- 2. Ceramic Tile:
 - a. Wall Tile:
 - 1) Size: 4-1/4 inches by 4-1/4 inches 108 mm by 108 mm.
 - 2) Category Four Approved Colors. See Section 01 6200 for definitions of Categories.
 - a) Room Walls And Font Walls: 0135 Almond by Daltille; Canvas 112 by Interceramic.
 - b) Accent Color: 0100 White by Daltille; Bone 110 by Interceramic.
- D. Materials:
 - 1. Paver Tile:
 - a. Category Four Approved Products. See Section 01 6200 for definition of Categories.
 - 1) Porcealto Graniti by Daltille.
 - 2) Intertech by Interceramic.
 - 2. Wall Tile:
 - a. Category Four Approved Products. See Section 01 6200 for definition of Categories.
 - 1) Semi-Gloss or Matte by Dal-Tile.
 - 2) IC Brites or Mattes or Bold Tones Series by Interceramics.
 - 3. Setting Bed:
 - a. Portland Cement: Meet requirements of ASTM C 150, Type 1, designation shall appear on bag.
 - b. Hydrated Lime:
 - 1) Meet requirements of one of following:
 - a) ASTM C 206.
 - b) ASTM C 207, Type S (designation shall appear on bag).
 - c. Sand: Clean, washed, well-graded, meeting requirements of ASTM C 144 with gradation of 100 percent passing No. 8 sieve with not over 5 percent passing No. 100 sieve.
 - d. Acrylic Latex Additive:
 - 1) Type Two Acceptable Products:
 - a) CUSTOM: As recommended by Manufacturer.
 - b) LATICRETE: As recommended by Manufacturer.
 - c) MAPEI: As recommended by Manufacturer.
 - d) MER-KRETE: As recommended by Manufacturer.
 - 4. Metal Trim:
 - a. Category Four Approved Products. See Section 01 6200 for definitions of Categories.
 - 1) Tile / Carpet Junction: Schluter-RENO-AETK.
 - 2) Over Expansion Joints In Slabs: Schluter DILEX-BWS, color G, PG, or HB as selected by Architect.
 - 5. Joint Sealants:
 - a. Standard color to closely match grout joints as selected by Architect.
 - b. Category Four Approved Products. See Section 01 6200 for definitions of Categories.
 - 1) Tub, Tile, And Ceramic Silicone Sealant by Dow Corning.
 - 2) Sanitary 1700 by Momentive Performance Materials.
 - 3) Latisil Sealant by Laticrete.
 - 4) Pro-Select Kitchen And Bath Silicone Sealant by Sherwin Williams.
 - 6. Backer Board Joint Reinforcing: 2 inch 50 mm wide glass fiber mesh tape.
 - 7. Tile Setting Products:
 - a. Use only products of same Manufacturer to validate warranty, unless otherwise acceptable to VMR Supplier.
 - b. Latex-Portland Cement Mortar For Floors:
 - 1) Meet requirements of ANSI A118.4 for manufactured mortar.
 - 2) Category Four Approved Products. See Section 01 6200 for definitions of Categories.
 - a) CUSTOM: Custom Megalite Modified Crack Isolation Thinset.
 - b) LATICRETE: Hydro Ban.
 - c) MAPEI: Mapelastic 315.
 - d) MER-KRETE: BFP Waterproof And Crack Isolation
 - c. Dry-Set Portland Cement Mortar For Walls:

- 1) Meet requirements of ANSI A118.1 for manufactured mortar.
- 2) Category Four Approved Products. See Section 01 6200 for definitions of Categories.
 - a) CUSTOM: Megalite Thinset.
 - b) LATICRETE: 254 Platinum Thinset.
 - c) MAPEI: Ultraflex 3.
 - d) MER-KRETE: 735 Premium Flex.
- d. Floor Grout:
 - 1) Color:
 - a) CUSTOM: No. 145 Light Smoke.
 - b) LATICRETE: No. 24 Natural Grey.
 - c) MAPEI: No. 11 Sahara Beige.
 - d) MER-KRETE: D-153 Buckskin.
- e. Wall Grout:
 - 1) Color:
 - a) CUSTOM: No. 381 Bright White.
 - b) LATICRETE: No. 44 Bright White.
 - c) MAPEI: No. 00 White.
 - d) MER-KRETE: D-11 Snow White
 - 2) Category Four Approved Products. See Section 01 6200 for definitions of Categories.
 - a) CUSTOM: PolyBlend Non-Sanded Grout.
 - b) LATICRETE: 1600 Series Unsanded Dry Set Wall Grout with 1776 Grout Admix Plus additive.
 - c) MAPEI: Keracolor-U Unsanded Polymer-Modified Grout.
 - d) MER-KRETE: Non-Sanded Color Grout, latex modified.

E. Mixes:

1. Setting Beds:

	Portland Cement	Dry Sand	Damp Sand	Hydrated Lime*
Floor Mix	One Part	5 Parts	4 Part	1/10 Part
Wall Mix	One Part	- -	5-1/2 to 7 Parts	1/2 Part

* Optional

PART 3 - EXECUTION:**3.1 INSTALLERS**

A. Approved Installers. See Section 01 4300.

1. <Insert Approved tile Installer>.
2. <Insert Approved tile Installer>.
3. <Insert Approved tile Installer>.

B. Tile installers shall be pre-approved and included in Contract Documents by Addendum.

3.2 EXAMINATION

A. Site Verification of Conditions:

1. Plane of Vertical Surfaces: 1/8 inch in 8 feet 3 mm in 2 400 mm from required plane. Shall be plumb and true with square corners.
2. Variation In Slab Grade: Plus or minus 1/8 inch 3 mm in any 10 feet 3 m of floor slab and distance between high point and low point of slab of 1/2 inch 12 mm.
 - a. Slab Testing Procedure: Place ends of straightedge on 3/8 inch 9 mm high shims. Floor is satisfactory if 1/4 inch 6 mm diameter steel rod rolled under straightedge will not touch anywhere along 10 foot 3 meter length and 1/2 inch 12 mm diameter steel rod will not fit under straightedge anywhere along 10 foot 3 meter length.

3. Notify Architect in writing if surfaces are not acceptable to install tile. Do not lay tile over unsuitable surface. Commencing installation constitutes acceptance of surfaces and approval of existing conditions.

3.3 PREPARATION

- A. Allow concrete to cure for 28 days minimum before application of setting bed.

3.4 INSTALLATION

- A. Interface With Other Work:

1. Grounds, anchors, plugs, hangers, door frames, electrical, mechanical, and other work in or behind tile shall be installed before tile work is started.

- B. Special Techniques:

1. Install in accordance with following TCNA installation methods:
 - a. Flush Concrete Slabs without Isolation Membrane: TCNA F115.
 - b. Flush Concrete Slabs with Isolation Membrane: TCNA F125A.
 - c. Setting Bed on Concrete Slab: TCNA F111 without reinforcing.
 - d. Walls: TCNA W245.
 - e. Tile Cove Base: TCNA Flush style.

- C. General:

1. Install tile in pattern indicated. Align joints when adjoining tiles on floor, base, walls, and trim are same size. Adjust to minimize tile cutting and to avoid tile less than half size. Center and balance areas of tile if possible.
2. Extend tile into recesses and under equipment and fixtures to form a complete covering without interruption.
3. Maintain heights of tilework in full courses to nearest obtainable dimension where heights are given in feet and inches meters and millimeters and are not required to fill vertical spaces exactly.
4. Install cut tile with cuts on outer edges of field. Provide straight cuts that align with adjacent materials. When possible, smooth cut edges of tile or use appropriate cutter or wet saw to produce smooth cuts. Do not install tile with jagged or flaked edges.
5. Terminate tile neatly at obstructions, edges, and corners, without disruption of pattern or joint alignment. Fit tile closely where edges are to be covered by trim, escutcheons, or similar devices.
6. Provide straight tile joints of uniform width, subject to variance in tolerance allowed in tile size. Make joints smooth and even, without voids, cracks, or excess mortar or grout.
7. Accessories in tilework shall be evenly spaced, properly centered with tile joints, and level, plumb, and true to correct projection.
8. Install tile before mortar has started initial cure. For thin set mortar application, use a notch trowel that will achieve the recommended coverage of mortar after tiles have been installed.
9. Do not spread more mortar than can be covered within 10 to 15 minutes. If 'skinning' occurs, remove mortar and spread fresh material. Spread mortar with notches running in one direction, perpendicular to pressing, pushing and pulling of tile during placement.
10. Place tile in fresh mortar, press, push and pull tile slightly to achieve as near 100 percent coverage and contact of tile with setting material and substrate as possible. Coverage shall be 85 percent minimum and be sufficiently distributed to give full support of the tile. Support corners and edges with mortar leaving no hollow corners or edges.
11. Install so there is 1/8 inch 3 mm of mortar between tile and substrate after proper bedding. Periodically remove sheets or individual tiles to assure proper bond coverage consistent with industry specifications. If coverage is found to be insufficient, use a larger size notch trowel.
12. Use a beating block and hammer or rubber mallet so faces and edges of individual tiles are flush and level with faces and edges of adjacent tiles, and to reduce lippage.
13. Leave finished installation clean and free of cracked, chipped, broken, unbonded, and otherwise defective tile work.

- D. Application On Concrete:
1. On Setting Bed: Apply setting bed to depth equal to depression in slab minus **1/2 inch 13 mm**. Properly cure before installing tile.
 2. Clean substrate surface thoroughly. Dampen if very dry, but do not saturate.
 3. Install tile with 100 percent contact with mortar bed. Obtaining 100 percent contact may require troweling mortar layer on back of each tile before placing on mortar bed.
 4. Install base by topset method. Allow for expansion joint directly above any expansion or control joints in slab.
 5. Insert temporary filler in expansion joints.
- E. Application on Walls:
1. On Glass Mat Gypsum Tile Backer Over Framing: Embed fiberglass reinforcing tape at joints with mortar used to adhere tile.
 2. Dampen dry backings as determined by environmental conditions and Manufacturer's recommendations to achieve cure.
 3. Allow for sealant joints full height at room corners in wall tile. Insert temporary filler in expansion joints.
- F. Application of Joint Sealants And Grout:
1. Firmly set tile before applying joint sealants or grout. This requires 48 hours minimum.
 2. Remove spacers or ropes before applying joint sealants or grouting. Apply sealants before applying grout.
 3. Apply backer rod and joint sealants at expansion joints. Apply bead of sealant at junction of base and floor tile.
 4. Before grouting entire area, do a test area to assure there will be no permanent staining or discoloration of tile and to verify that excess grout can be easily removed from tile surface. If necessary, pre-coat exposed surfaces of tile with a grout release recommended by Grout Manufacturer to facilitate removal of excess grout.
 5. Use clean buckets and mixing tools. Use sufficient pressure and flow grout in progressively to avoid air pockets and voids.
 6. Apply grout to produce full, smooth grout joints of uniform width, and free of voids and gaps. Fill joints of cushion edge tile to depth of cushion. Fill joints of square edge tile flush with surface.
 7. Remove excess grout from surface of tile before it loses its plasticity or begins to set.
 8. Finished grout shall be uniform in color, smooth, and without voids, pin holes, or low spots.
- G. Curing: Keep installation at **65 to 85 deg F 18 to 30 deg C** during first 8 hours of cure. Shade area completely from sun during this period.

3.5 CLEANING

- A. If one has been used, remove grout release and clean tile surfaces so they are free of grout residue and foreign matter. If a grout haze or residue remains, use a suitable grout haze remover or cleaner. Flush surface with clean water before and after cleaning.

3.6 PROTECTION

- A. Close to traffic areas where tile is being set and other tile work being done. Keep closed until tile is firmly set. Before, during, and after grouting, keep area clean, dry, and free from foreign materials and airflow that will interfere with setting and curing of grout.
- B. Newly tiled floors shall not be walked on nor worked on without using kneeling boards or equivalent protection of tiled surface.
- C. After cleaning, provide protective covering and maintain conditions protecting tile work from damage and deterioration. Where tiled surfaces will be subject to equipment or wheel traffic or heavy construction traffic, cover protective covering with **1/4 inch 6 mm** hardboard, plywood, or similar material.

Project Number

Project Date

Project Name

END OF SECTION

SECTION 09 6813**TILE CARPETING****PART 1 - GENERAL****1.1 SUMMARY**

A. Related Requirements:

1. Section 01 1200: Carpet tiles are excluded from Contract and provided by Owner. This specification establishes quality of materials and installation for information of Contractor, Architect, and Owner's Representatives.

1.2 SUBMITTALS

A. Closeout Submittals:

1. Operations And Maintenance: Include following in Operations And Maintenance Manual specified in Section 01 7800.
 - a. Manufacturer's literature.
 - b. Color and style selection.

B. Maintenance Material Submittals:

1. Extra Stock Materials: Leave carpet tiles equivalent to 15 percent of number installed as attic stock. Tie securely and wrap in protective cover.

PART 2 - PRODUCTS**2.1 OWNER-FURNISHED PRODUCTS**

A. Manufacturer:

1. Lees Commercial Carpets, Greensboro, NC (800) 523-5647 or (336) 379-2000
www.leescarpets.com.

B. Description:

1. Pattern And Color:
 - a. Burgundy 3 Scheme: Mannington, LDS Axis Modular, Medallion.
 - b. Burgundy 4 Scheme: Interface, Panarama, Red Rock.
 - c. Navy 3 Scheme: Mannington, LDS Axis Modular, Ocean.
 - d. Navy 4 Scheme: Interface, Panarama, Denim.
2. Size: 18 OR 24 inches square, at Manufacturer's option.

C. Materials:

1. Carpet Tiles:
 - a. Approved Product.
 - 1) StepUp Modular DD762 by Lees Commercial Carpets, Greensboro, NC (800) 523-5647 or (336) 379-2000 www.leescarpets.com.
2. Trim: Provide trim around unrestrained edges of carpet tiles.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Floor Preparation: Prepare floor substrate in accordance with Carpet And Rug Institute (CRI) best practices to receive carpet installation and to provide installation that meets Carpet Manufacturer's warranty requirements.

END OF SECTION

SECTION 09 6816**SHEET CARPETING: Urethane Cushion, Direct Glue****PART 1 - GENERAL****1.1 SUMMARY**

- A. Related Requirements:
1. Section 01 1200: Carpet and rubber base is excluded from Contract and provided by Owner after Substantial Completion. This specification establishes quality of materials and installation for information Owner's Representatives.
 2. Project Manager will:
 - a. Maintain conditions inside building to levels normal at occupancy of building. These conditions will be maintained from three days before beginning of carpet installation through completion of installation.
 - b. Maintain fresh air ventilation after installation for 72 hours minimum or until lingering odors are gone.
 - c. Not allow traffic of any kind on newly installed carpet for 24 hours minimum after installation is completed nor allow wheeled traffic of any kind or placement of furniture or equipment on carpet for 48 hours minimum after completion of carpet installation.
 - d. Provide dumpster for debris resulting from carpet installation and cleanup.

1.2 REFERENCES

- A. Reference Standards:
1. ASTM International:
 - a. ASTM F 1861-02, 'Standard Specification for Resilient Wall Base.

1.3 ADMINISTRATIVE REQUIREMENTS

- A. Pre-Installation Conference:
1. Schedule carpet pre-installation conference same day installation of carpet is to begin.
 2. Review condition of subfloor to determine required patching, cleanliness requirements, and other work necessary to prepare subfloor for installation of carpet.
 3. Review results of previous slab vapor emission and pH tests performed on new concrete subfloor.
 4. Review building modifications that are necessary to accommodate carpet installation.
 5. Review environmental conditions for acceptability for beginning floor preparation and carpet installation.

1.4 SUBMITTALS

- A. Closeout Submittals:
1. Warranty Documentation: Include final, executed copy of warranty in Operations And Maintenance Manual specified in Section 01 7800.
- B. Maintenance Material Submittals:
1. Extra Stock Materials: Leave excess pieces of carpet, **6 feet square 1 800 sq mm** or larger, and **25 lineal feet 8 meters** minimum of carpet cove base. Roll up and tie securely.

1.5 QUALITY ASSURANCE

- A. Qualifications: Carpet installer shall be qualified and approved by Carpet Manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials and accessories necessary for completion of carpet installation to site before beginning installation of carpet. Do not deliver materials before date scheduled for installation.

1.7 WARRANTY

- A. Provide Carpet Manufacturer's 15-year warranty on carpet system including specific workmanship warranties for appearance retention, delamination, edge raveling, fuzzing, pilling, and other textural changes which can be controlled through proper manufacturing. Warranty shall also cover defects in installation workmanship and installation materials. Warranty terms will include inspection of defective area within 15 days of receipt of written notice from Owner and completion of corrective work within 45 days, unless other arrangements are made in writing with Owner on case-by-case basis. If carpet defect or installation defect continues to appear after two separate notices for correction from Owner, carpet where defects have occurred shall be replaced.

PART 2 - PRODUCTS

2.1 OWNER-FURNISHED PRODUCTS

- A. Manufacturers:
1. Category One Approved Suppliers. See Section 01 6200 for definitions of Categories.
 - a. Mannington Commercial Carpets, Calhoun, GA: Help Line Voice Mail (800) 241-2262, ext 8045, (888) 487-3600, or (801) 487-3600.
 - b. Lees, Division of Mohawk Carpets, Glasgow, VA: Help Line (800) 523-5555 or (801) 397-5626.
- B. Description:
1. Colors / Patterns:
 - a. Manufacturer and Color:
 - 1) Burgundy '1': Lees Nauvoo, 407 Columbine.
 - 2) Burgundy '2': Mannington LDS Horizon, Medallion.
 - 3) Navy '1': Lees Nauvoo, 405 Bountiful.
 - 4) Navy '2': Mannington LDS Horizon, Ocean.
- C. Materials:
1. General: Materials supplied for carpet installation shall be complete package from a specified Carpet Manufacturer. Do not mix items from material packages of different carpet manufacturers.
 2. Carpet Base: 4-1/2 inch 115 mm wide base made of same carpet from manufacturer as used in each room, but without cushion backing. Top edge of base serged with 1-1/4 inch 32 mm polyester binding fabric to coordinate with Owner's color scheme. Roll edges of binding fabric under and sew along top edge of carpet cove base.
 3. Carpet Accessories: Snap-in vinyl reducer strips and vinyl track.
 4. Floor Leveling Compound, Floor Patching Compound, And Latex Underlayment: As recommended and approved by Carpet Manufacturer.
 5. Resilient Base And Accessories:
 - a. General:
 - 1) Molded or extruded meeting requirements of ASTM F 1861, Type TS:
 - a) Vulcanized SBR rubber, free from objectionable odors, blisters, cracks, and other defects affecting appearance or serviceability of rubber, and not containing fabric.

- b) Color pigments used shall be highly fade-resistant, insoluble in water, and resistant to light, alkali, and cleaning agents.
- b. Base:
 - 1) Size: 1/8 inch by 4 inch 3 mm by 100 mm.
 - 2) Style: 1/2 inch standard toe.
- c. Stair Skirts: Cut from stock 1/8 inch 3 mm thick by maximum length available to contour and profile of stairs. Gap between skirt and stair shall not exceed 3/16 inch.
- d. Adhesive: Best for work as recommended by Manufacturer.
- e. Category Four Approved Manufacturers And Colors. See Section 01 6200 for definitions of Categories.
 - 1) Wallflower TS, 014 Medium Gray by Flexco by ESD Flooring Systems, Tuscumbia, AL www.marleyflexco.com.
 - 2) Pinnacle TS, RP150 Dark Gray by Roppe Rubber Corporation, Fostoria, OH www.roppe.com.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions:
 - 1. Variation In Grade: Plus or minus 1/8 inch 3 mm in any 10 feet 3 m of floor slab and distance between high point and low point of slab of 1/2 inch 12 mm.
 - 2. Testing Procedure: Place ends of straightedge on 3/8 inch 9 mm high shims. Floor is satisfactory if 1/4 inch 6 mm diameter steel rod rolled under straightedge will not touch anywhere along 10 foot 3 meter length and 1/2 inch 12 mm diameter steel rod will not fit under straightedge anywhere along 10 foot 3 meter length.
 - 3. Notify Facilities Manager in writing if floor surface is not acceptable to install carpet. Do not lay carpet over unsuitable surface. Commencing installation constitutes acceptance of floor and approval of existing conditions.

3.2 PREPARATION

- A. Floor Preparation: Prepare floor substrate in accordance with Carpet And Rug Institute (CRI) best practices to receive carpet installation and to provide installation that meets warranty requirements.

3.3 INSTALLATION

- A. Carpet:
 - 1. Seaming Requirements:
 - a. Lay rooms parallel to respective Corridors. Seam to permit best use of available carpet.
 - b. Quarter turning allowed only at cross-Corridors longer than 24 feet 7 meters.
 - c. Use single or double seams at doorways. Run nap of pieced carpet in same direction.
 - d. Seal seams in accordance with Carpet Manufacturer's instructions and according to CRI Bulletin 104 and 105 as applicable. Seam carpet base only at inside corners.
 - e. Generally, install carpet on Rostrum first, Chapel second, Overflow third, and then remainder of building.
 - f. Install carpet under edge of metal thresholds where possible. Use specified carpet accessories at exposed edges.
- B. Resilient Base And Accessories:
 - 1. Install in manner to produce smooth, even finished surfaces tightly jointed and accurately aligned.
 - 2. Fit specified items tightly. Use fillers where necessary. Fit neatly against projections, piping, electrical service outlets, etc.
 - 3. Secure specified items with specified adhesive. Cement substantially to vertical surfaces including rubber base to cabinet work base.

4. Line up top and bottom lines of base throughout.
5. Roll until firm bond has been established. Leave level, free from buckles, cracks, and projecting edges.

3.4 FIELD QUALITY CONTROL

A. Field Testing:

1. Within one month before Substantial Completion of new buildings or additions, General Contractor will have tested slab for water vapor emissions by placing dome moisture-testing (RMA) kits as follows:
 - a. One test near center of North wall in room to be carpeted.
 - b. One test near center of South wall in room to be carpeted.
 - c. One test near center of Chapel.
 - d. One test at lowest grade of floor to be carpeted.
2. pH tests will also have been performed in conjunction with each vapor emission test.
3. Copies of General Contractor's test results will be available to Carpet Manufacturer before pre-installation conference specified in PART 1 above.

B. Field Inspections:

1. Unacceptable carpet after installation shall include but not be limited to:
 - a. Delaminating carpet from backings.
 - b. Fiber loss less than specified.
 - c. Edge raveling.
 - d. Fuzzing of carpet fibers.
 - e. Pilling of carpet fibers.
 - f. Appearance retention less than control samples attached to Agreement.
 - g. Dye bleeding.
 - h. Zippering fibers in carpet.
 - i. Color streaking.
 - j. Irregular tufts of fiber.
2. Unacceptable workmanship shall include but not be limited to:
 - a. Improper floor preparation before installation.
 - b. Failure of adhesive to completely adhere carpet to floor resulting in bubbles, ridges, or ripples where carpet has separated from floor.
 - c. Seams that do not comply with specified requirements.
 - 1) Raveled or untrimmed seams.
 - 2) Seams not sealed, level, straight, or even.
 - 3) Open seams.
 - 4) Seams visibly open when viewed by Project Manager from standing position.
 - d. Failure to properly install carpet next to walls and door frames to eliminate gaps or puckering of carpet.
 - e. Use of unspecified carpet.
 - f. Carpet base ends not finished to terminate at door frames or vertical trim shall have 45 degree angle 'birdsmouth' finish.
 - g. Adhesive exposed on carpet, on carpet base, beyond edges of carpet base, and on other surfaces of building.
 - h. Carpet base that is not scribed to fit against floor with no gaps.
 - i. Carpet base attached by means other than acceptable carpet base adhesive.
3. Unacceptable carpeting will be rejected and shall be repaired or replaced at no additional cost to Owner. Facilities Manager will determine reasonable location of acceptable transition points for removal of unacceptable carpet. Minimum replacement size shall be:
 - a. Between nearest existing seams,
 - b. Between natural transition points, or
 - c. **12 feet 3 600 mm** of running length.

3.5 CLEANING

- A. Remove rubbish, wrapping paper, scraps, and trimmings from project site and deposit in Owner furnished dumpster.

END OF SECTION

SECTION 09 7226**SISAL WALL COVERING****PART 1 - GENERAL****1.1 SUMMARY**

- A. Includes But Not Limited To:
 - 1. Furnishing and installing wall covering 'Type A' as described in Contract Documents.
- B. Related Requirements:
 - 1. Section 06 4512: Wood trim for sisal wall covering.
 - 2. Section 09 2900: Priming of gypsum board.

1.2 SUBMITTALS

- A. Action Submittals:
 - 1. Product Data:
 - a. Manufacturer's literature or cut sheet.
 - b. Maintenance instructions.
 - c. Color and pattern selection.
- B. Informational Submittals:
 - 1. Test And Evaluation Reports: Copies of flame spread certification and 'Room-Corner Test.'

1.3 QUALITY ASSURANCE

- A. Regulatory Requirements:
 - 1. Wall covering shall have Class A flame spread rating.
 - 2. Passage of UBC 8-2 'Room-Corner Test' is required for system. Adhesive cited in test literature is required for installation of wall covering on Project.

PART 2 - PRODUCTS**2.1 MANUFACTURERS**

- A. Manufacturer List:
 - 1. Chapco, Chicago, IL www.chapco-adhesive.com.
 - 2. Design Materials Inc, Kansas City, KS www.dmikc.com.
 - 3. Fibreworks, Louisville, KY www.fibreworks.com.
 - 4. Roberts Consolidated Industries, Div QEP, Henderson, NV www.robertsconsolidated.com.
 - 5. Ronarco / US, Nipomo, CA www.sisal.ws.

2.2 DESCRIPTION

- A. Colors:
 - 1. Category Four Approved Products. See Section 01 6200 for definitions of Categories.
 - a. Color 0250 Jacinth by Design Materials Inc.
 - b. Color 334 Jacinth by Fibreworks.
 - c. Color C34 Jacinth by Ronarco.

2.3 MATERIALS

- A. Sisal Wall Covering:
 - 1. 100 percent fire-treated sisal yarn.
 - 2. 11/64 inch pile height, 48 oz/sq yd minimum. Sisal to be installed full height on walls shall be furnished in 9, 12, or 13 foot wide goods.
 - 3. Reversible weave type, without backing.

2.4 ACCESSORY PRODUCTS

- A. Wall Covering Adhesive:
 - 1. Category Four Approved Products. See Section 01 6200 for definitions of Categories.
 - a. CIC 257 Adhesive by Fibreworks.
 - b. Sisal Adhesive No. 1-422 by Design Materials.
 - c. #90 by Chapco for Ronarco.
- B. Seam Cement:
 - 1. Type Two Acceptable Products:
 - a. Roberts 4015 Seam Cement by Roberts Consolidated Industries.
 - b. Equal as recommended by Wall Covering Manufacturer with approval of Architect before installation. See Section 01 6200.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Prime or size surfaces other than gypsum board with material recommended by Wall Covering Manufacturer.

3.2 INSTALLATION

- A. Apply wall covering in accordance with Manufacturer's instructions, available on DVD from Owner through Architect.
- B. Using specified adhesive, glue continuously to surface to be covered with wall covering. Apply adhesive in accordance with Manufacturer's recommendations.
- C. Run 'ribs' in weaving horizontally (panel style) when installing wall covering full height. If sisal installed only as wainscoting, 'ribs' may be installed vertically. Install wall covering so it extends to within 1/8 inch of floor slab.

END OF SECTION

SECTION 09 7313**ACOUSTIC WALL CARPETING****PART 1 - GENERAL****1.1 SUMMARY**

- A. Includes But Not Limited To:
 - 1. Furnish and install wall covering 'Type 'C' as described in Contract Documents.
- B. Related Requirements:
 - 1. Section 06 4512: Hardwood trim.

1.2 REFERENCES

- A. Reference Standards:
 - 1. ASTM International:
 - a. ASTM E 84-06, 'Test Method for Surface Burning Characteristics of Building Materials.'

1.3 SUBMITTALS

- A. Informational Submittals:
 - 1. Manufacturer Instructions: Printed installation instructions.
- B. Closeout Submittals:
 - 1. Operation And Maintenance Data:
 - a. Manufacturer's literature or cut sheet.
 - b. Cleaning and maintenance instructions.
 - c. Color and pattern selection.

1.4 QUALITY ASSURANCE

- A. Regulatory Requirements:
 - 1. Class A in accordance with ASTM E-84.
 - 2. Passes UBC 8-2 (formerly 42-2 corner burn test).
- B. Qualifications:
 - 1. Installers: Minimum 2 years experience installing specified wall fabric. Upon request, submit list of five installations minimum within 50 mile 80 km radius of Project.

PART 2 - PRODUCTS**2.1 SYSTEM**

- A. Manufacturer:
 - 1. Approved Supplier. See Section 01 4300.
 - a. Wall Resources, Salt Lake City, UT (800) 323-8226.
- B. Description:
 - 1. Colors / Patterns:
 - a. No. 18-03 Stone Impressions.

- C. Performance:
 - 1. Design Criteria:
 - a. NCR Ratings:
 - 1) 0.60 over acoustical backer board.
 - 2) 0.20 over gypsum board.
 - b. Velcro Resistance: No pilling after 100 pulls of industrial grade hook.
- D. Materials:
 - 1. Acoustical Fabric Wall Covering:
 - a. Velcro-enhanced structural acoustical wall covering.
 - b. Weight:
 - 1) 60 ounces per lineal yard.
 - 2) 20 ounces per square yard.
 - c. Width: 108 inches minimum.
 - d. Fiber: Fossfibre, 100 percent solution dyed polyester staple fiber.
 - e. Category Four Approved Products. See Section 01 6200 for definitions of Categories.
 - 1) Hytex 'Impressions' distributed by Wall Resources.

2.2 ACCESSORY PRODUCTS

- A. Adhesive:
 - 1. Type Two Acceptable Products:
 - a. Gardner-Gibson, Columbus, OH www.gardner-gibson.com.
 - 1) Primer: Dynamite No. 221 Acrylic Wallcovering Primer.
 - 2) Adhesive: Dynamite No. 0433 Heavy Duty Clay Strippable Adhesive.
 - b. Equal as recommended by Wall Fabric Manufacturer and approved by Architect, before use. See Section 01 6200.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Interface With Other Work: Coordinate with Section 10 2227 for material used on folding panel partitions.
- B. Apply one coat of specified primer to surface to receive wall carpet and allow to dry overnight.
- C. Apply first coat of specified adhesive at full strength. Apply adhesive to 100 percent of surface to be covered with wall carpet and allow to dry overnight
- D. Dry hang wall carpeting with second application of wall covering adhesive at full strength. Allow adhesive to tack before installing wall carpet.
- E. Apply wall carpet horizontally (railroad) and so weave runs same throughout building. No exposed horizontal joints allowed.
- F. Butt joints above windows and doors are not allowed.

3.2 CLOSE-OUT ACTIVITIES

- A. Instruction of Owner:
 - 1. Instruct Owner in proper maintenance and cleaning methods for acoustical wall carpet.

END OF SECTION

SECTION 09 9001**COMMON PAINTING AND COATING REQUIREMENTS****PART 1 - GENERAL****1.1 SUMMARY**

- A. Includes But Not Limited To:
1. Common procedures and requirements for field-applied painting and coating.
- B. Related Requirements:
1. Section 05 0503: Quality of shop priming of steel and iron.
 2. Section 07 9213: Quality of Elastomeric Joint Sealants.
 3. Section 09 2900: Priming of gypsum board before texturing.
 4. Section 09 9413: Textured finishing.
 5. Divisions 22 and 23: Painting of plumbing and HVAC identification, refrigerant line insulation, and duct interiors.
 6. Section 32 1723: Pavement Marking.

1.2 REFERENCES

- A. Reference Standards:
1. Master Painters Institute:
 - a. MPI(a), Mar 2001, 'Architectural Painting Specification Manual.'
- B. Definitions:
1. Gloss Levels:
 - a. Specified paint gloss level shall be defined as sheen rating of applied paint, in accordance with following terms and values, unless specified otherwise for a specific paint system.

Gloss Level '1'	Traditional matte finish - flat	0 to 5 units at 60 degrees to 10 units maximum at 85 degrees.
Gloss Level '2'	High side sheen flat - 'velvet-like' finish	10 units maximum at 60 degrees and 10 to 35 units at 85 degrees.
Gloss Level '3'	Traditional 'eggshell-like' finish	10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees.
Gloss Level '4'	'Satin-like' finish	20 to 35 units at 60 degrees and 35 units minimum at 85 degrees.
Gloss Level '5'	Traditional semi-gloss	35 to 70 units at 60 degrees.
Gloss Level '6'	Traditional gloss	70 to 85 units at 60 degrees.
Gloss Level '7'	High gloss	More than 85 units at 60 degrees.

2. Properly Painted Surface: Surface that is uniform in appearance, color, and sheen and free of foreign material, lumps, skins, runs, sags, holidays, misses, strike-through, and insufficient coverage. Surface free of drips, spatters, spills, and overspray caused by Paint Applicator. Compliance will be determined when viewed without magnification at a distance of 5 feet minimum under normal lighting conditions and from normal viewing position (MPI(a), PDCA P1.92).
3. Damage Caused By Others: Damage caused by individuals other than those under direct control of Painting Applicator (MPI(a), PDCA P1.92).
4. Latent Damage: Damage or conditions beyond control of Painting Applicator caused by conditions not apparent at time of initial painting or coating work.

1.3 ADMINISTRATIVE REQUIREMENTS

- A. Pre-Installation Conferences:

1. Participate in pre-installation conference specified in Section 09 2900 to review finish requirements of gypsum wallboard.
2. Schedule painting pre-installation conference after delivery of paint but before or at same time as application of field samples.

1.4 SUBMITTALS

A. Action Submittals:

1. Product Data:
 - a. Include following information for each painting system, arranged in same order as in Project Manual.
 - 1) Manufacturer's cut sheet for each component of each system indicating ingredients and percentages by weight and by volume, environmental restrictions for application, and film thicknesses and spread rates.
 - 2) Copies of appropriate entries from MPI Approved Product List. Products from MPI Approved Product List is mandatory for Sections 09 9112, 09 9123 and 09 9124. If proposed manufacturer has products listed for these three Sections, but not for other Sections, Architect may approve products submitted by proposed manufacturer for other Sections.
 - 3) Confirmation of colors selected and that each area to be painted or coated has color selected for it.
2. Samples: Provide two 4 inch by 6 inch 100 by 150 mm minimum draw-down cards for each paint or coating color selected for this Project.

B. Informational Submittals:

1. Manufacturer Instructions: Manufacturer's substrate preparation instructions and application instruction for each painting system used on Project.

C. Closeout Submittals:

1. Operations And Maintenance Data: Include following in Operations And Maintenance Manual specified in Section 01 7800:
 - a. Manufacturer's cut sheet for each component of each system.
 - b. Schedule showing rooms and surfaces where each system was used.

D. Maintenance Materials Submittals:

1. Extra Stock Materials:
 - a. Provide painting materials in Manufacturer's original containers and with original labels in each color used. Label each can with color name, mixture instructions, date, and anticipated shelf life.
 - b. Provide one quart of each finish coat and one pint of each primer and of each undercoat in each color used.

1.5 QUALITY ASSURANCE

- ##### A. Regulatory Requirements:
- Paint and painting materials shall be free of lead and mercury, and have VOC levels acceptable to local jurisdiction.

B. Field Samples:

1. Before application of any paint system, meet on Project site with Architect, Owner's representative, and Manufacturer's representative. Architect may select one surface for application of each paint system specified. This process will include establishing acceptable substrate conditions required for Project before application of paints and coatings.
2. Apply paint systems to surfaces indicated by Architect following procedures outlined in Contract Documents and Product Data submission specified above.
3. After approval of samples, proceed with application of paint system throughout Project. Approved samples will serve as standard of acceptability.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver specified products in sealed, original containers with Manufacturer's original labels intact on each container. Deliver amount of materials necessary to meet Project requirements in single shipment. Notify Architect two working days before delivery of coatings.
- B. Store materials in single place.
- C. Keep storage area clean and rectify any damage to area at completion of work of this Section. Maintain storage area at 55 deg F 13 deg C minimum.

1.7 FIELD CONDITIONS

- A. Ambient Conditions:
 - 1. Perform painting operations at temperature and humidity conditions recommended by Manufacturer for each operation and for each product.
 - 2. Apply painting systems at lighting level of 540 Lux (50 foot candles) minimum on surfaces to be painted. Inspection of painting work shall take place under same lighting conditions as application. If painting and coating work is applied under temporary lighting, deficiencies discovered upon installation of permanent lighting will be considered latent damage as defined in MPI Manual, PDCA P1-92

PART 2 - PRODUCTS

2.1 SYSTEMS

- A. Performance:
 - 1. Design Criteria:
 - a. Color Levels:
 - 1) Color Level II:
 - a) Number and placement of interior and exterior paint colors and gloss levels shall be as defined by Color Level II from MPI Manual, PDCA P3-93 as modified in following paragraph.
 - b) No more than one paint color or gloss level will be selected for same substrate within designated interior rooms or exterior areas.
 - 2) Color Level III:
 - a) Number and placement of interior and exterior paint colors and gloss levels shall be Color Level III from MPI Manual, PDCA P3-93 as modified in following paragraph.
 - b) Several paint colors or gloss levels will be selected for same substrate within designated interior rooms or exterior areas.
- B. Materials:
 - 1. Materials used for any painting system shall be from single manufacturer unless approved otherwise in writing by painting system manufacturers and by Architect. Include manufacturer approvals in Product Data submittal.
 - 2. Linseed oil, shellac, turpentine, and other painting materials shall be pure, be compatible with other coating materials, bear identifying labels on containers, and be of highest quality of an approved manufacturer listed in MPI manuals. Tinting color shall be best grade of type recommended by Manufacturer of paint or stain used on Project.

PART 3 - EXECUTION

3.1 APPROVED APPLICATORS

- A. <Insert Approved Paint Applicator>.
- B. <Insert Approved Paint Applicator>.
- C. Approved painting company shall be pre-approved and included in Construction Documents by Addendum.
- D. Applicator shall have experience in application of specified products for five years minimum and be acceptable to Architect and Paint Manufacturer.

3.2 EXAMINATION

- A. Directing applicator to begin painting and coating work will indicate that substrates to receive painting and coating materials have been previously inspected as part of work of other Sections and are complete and ready for application of painting and coating systems as specified in those Sections.
- B. Before beginning work of this Section, examine, and test surfaces to be painted or coated for adhesion of painting and coating systems. Report in writing to Architect of conditions that will adversely affect adhesion of painting and coating work. Do not apply painting and coating systems until party responsible for adverse condition has corrected adverse condition.
- C. Report defects in substrates that become apparent after application of primer or first finish coat to Architect in writing and do not proceed with further work on defective substrate until such defects are corrected by party responsible for defect.

3.3 PREPARATION

- A. Protection Of In-Place Conditions:
 - 1. Protect other finish work and adjacent materials during painting. Do not splatter, drip, or paint surfaces not intended to be painted. These items will not be spelled out in detail but pay special attention to the following:
 - a. Do not paint finish copper, bronze, chromium plate, nickel, stainless steel, anodized aluminum, or monel metal except as explicitly specified.
 - b. Keep cones of ceiling speakers completely free of paint. In all cases where painting of metal speaker grilles is required, paint without grilles mounted to speakers and without grilles on ceiling.
- B. Surface Preparation:
 - 1. Prepare surfaces in accordance with MPI requirements and requirements of Manufacturer for each painting system specified, unless instructed differently in Contract Documents. Bring conflicts to attention of Architect in writing.
 - 2. Fill minor holes and cracks in wood surfaces to receive paint or stain.
 - 3. Surfaces to be painted shall be clean and free of loose dirt. Clean and dust surfaces before painting or finishing.
 - 4. Do no exterior painting while surface is damp, unless recommended by Manufacturer, nor during rainy or frosty weather. Interior surfaces shall be dry before painting. Moisture content of materials to be painted shall be within tolerances acceptable to Paint Manufacturer.
 - 5. Sand woodwork smooth in direction of grain leaving no sanding marks. Clean surfaces before proceeding with stain or first coat application.

3.4 APPLICATION

- A. Interface With Other Work:
 - 1. Coordinate with other trades for materials and systems that require painting before installation.
 - 2. Schedule painting and coating work to begin when work upon which painting and coating work is dependent has been completed. Schedule installation of pre-finished and non-painted items, which are to be installed on painted surfaces, after application of final finishes.
- B. Paint or finish complete all surfaces to be painted or coated as described in Contract Documents, including but not limited to following items.
 - 1. Finish casework and wood trims that are specified to be installed under Section 06 2001 and that are not called out to be factory- or shop-finished. Back prime wood elements to be installed against concrete or masonry or that may be subjected to moisture.
 - 2. Paint mechanical, electrical, and audio/visual items that require field painting as indicated in Contract Documents. These include but are not limited to:
 - a. Gas pipe from gas meter into building.
 - b. Mechanical flues and pipes penetrating roof.
 - c. Electrical panel and disconnect enclosures.
 - d. Metal protective structures for refrigerant lines.
 - 3. Metal reveals at ceiling access doors.
 - 4. Paint inside of chases in occupied spaces flat black for 18 inches 450 mm or beyond sightline, whichever is greater.
- C. Apply sealant in gaps 3/16 inch and smaller between two substrates that are both to be painted or coated. Sealants in other gaps furnished and installed under Section 07 9213.
- D. On wood to receive a transparent finish, putty nail holes in wood after application of stain using natural colored type to match wood stain color. Bring putty flush with adjoining surfaces.
- E. In multiple coat paint work, tint each succeeding coat with slightly lighter color, but approximating shade of final coat, so it is possible to check application of specified number of coats. Tint final coat to required color.
- F. Spread materials smoothly and evenly. Apply coats to not less than wet and dry film thicknesses and at spreading rates for specified products as recommended by Manufacturer.
- G. Touch up suction spots after application of first finish coat.
- H. Paint shall be thoroughly dry and surfaces clean before applying succeeding coats.
- I. Use fine sandpaper between coats as necessary to produce even, smooth surfaces.
- J. Make edges of paint adjoining other materials or colors clean, sharp, and without overlapping.
- K. Finished work shall be a 'Properly Painted Surface' as defined in this Section.

3.5 ADJUSTMENT

- A. Correct deficiencies in workmanship as required to leave surfaces in conformance with 'Properly Painted Surface,' as defined in this Section. Correction of 'Latent Damage' and 'Damage Caused By Others,' as defined in this Section, is not included in work of this Section.

3.6 CLEANING

- A. Remove rags and waste used in painting operations from building each night. Take every precaution to avoid danger of fire.

- B. As work proceeds and upon completion of work of any painting Section, remove paint spots from floors, walls, glass, or other surfaces and leave work clean, orderly, and in acceptable condition. Remove debris caused by work of paint Sections from premises.

END OF SECTION

ATTACHMENTS**PART 4 - PAINT COLOR SCHEDULE**

- A. Colors:
 - 1. Interior:
 - a. Class One Color Quality Standards. See Section 01 6200.
 - 1) Interior Gypsum Board, Plaster: SW6098 by Sherwin Williams.
 - 2) Interior Metal: SW6098 by Sherwin Williams.
 - 2. Exterior:
 - a. Class One Color Quality Standards. See Section 01 6200.
 - 1) Exterior Metal: **<Insert Product and Color>** by **<Insert Manufacturer>**.
 - 2) Exterior CMU, Concrete, Stucco: **<Insert Product and Color>** by **<Insert Manufacturer>**.
 - 3) Exterior Wood: **<Insert Product and Color>** by **<Insert Manufacturer>**.

SECTION 10 1123**FIXED TACKBOARDS****PART 1 - GENERAL****1.1 SUMMARY**

- A. Products Installed But Not Furnished Under This Section:
 - 1. Tackboards and specified hardware: Visual Display Board Type 2.
- B. Related Requirements:
 - 1. Section 01 6400: Owner will furnish Tackboards. PART 2 of this Section establishes quality of materials for information of Contractor, Architect, and Owner's Representatives.
 - 2. Section 06 1100: Blocking.

1.2 SUBMITTALS

- A. Informational Submittals:
 - 1. Manufacturer Instructions: Published installation instructions.
- B. Closeout Submittals:
 - 1. Operations And Maintenance Data: Include following information in Operations And Maintenance Manual specified in Section 01 7800.
 - a. Manufacturer's literature or cut sheet.
 - b. Maintenance instructions.
 - c. Color selections.

1.3 WARRANTY

- A. Manufacturer's standard five-year warranty against faulty workmanship and materials.

PART 2 - PRODUCTS**2.1 OWNER FURNISHED PRODUCTS**

- A. Manufacturer:
 - 1. ADP Lemco Corporation, West Jordan, UT www.adplemco.com.
- B. Description:
 - 1. Color:
 - a. Sterling.
- C. Tackboard:
 - 1. **1/4 inch 6 mm** natural cork faced with 15 oz cloth supported vinyl meeting requirements of Fed Spec CCC-W-408 Type 2 and UL rated for 25 flame spread minimum.
 - 2. Backing: C-D grade plugged and touch sanded plywood or particle board, back primed or foil covered.
 - 3. Trim:
 - a. Extruded 6063-T5 alloy aluminum with satin etched, natural aluminum anodized finish.
 - b. Extrusions shall match thickness of units without wedging.
 - c. Round all sharp edges.
 - d. **2 inch 50 mm** high map rail.

4. Map Clips:
 - a. Manufacturer's standard.
 - b. Provide two map clips on each tackboard.
 5. Mounting Hardware: Suitable for wall conditions
- D. Fabrication:
1. Prefabricate units at factory and ship to jobsite in one piece. Units shall be of first quality and lamination done by approved standards of industry. Furnish printed cleaning instructions with each shipment.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Mount boards square and level. Shim as necessary to provide permanent installation and smooth operation. Anchor boards securely to wall following Manufacturer's written installation Instructions. Anchor concealed hangers with screws at 24 inches on center.
- B. Mounting fasteners shall penetrate framing lumber or blocking **1-1/2 inch 38 mm** minimum. Use toggle bolts or expansion bolts in masonry walls.
- C. After attaching map clips, apply permanently attached end cap or screw to prevent removal of map clips.

END OF SECTION

SECTION 10 2113**METAL TOILET COMPARTMENTS****PART 1 - GENERAL****1.1 SUMMARY**

- A. Includes But Not Limited To:
 - 1. Furnish and install metal toilet compartments as described in Contract Documents.
- B. Related Requirements:
 - 1. Section 06 1100: Blocking in wood framing for compartment installation and door bumper.
 - 2. Section 09 2216: Blocking in non-load-bearing metal framing for compartment installation and door bumper.
 - 3. Section 10 2813: Commercial Toilet Accessories.

1.2 REFERENCES

- A. Reference Standards:
 - 1. ASTM International:
 - a. ASTM B 86-05, 'Standard Specification for Zinc and Zinc-Aluminum (ZA) Alloy Foundry and Die Castings.'

1.3 SUBMITTALS

- A. Action Submittals:
 - 1. Product Data: Color selection.
- B. Closeout Submittals:
 - 1. Operations And Maintenance Data: Include following in Operations And Maintenance Manual specified in Section 01 7800.
 - a. Manufacturer's literature or cut sheet.
 - b. Color selection.

PART 2 - PRODUCTS**2.1 MANUFACTURERS**

- A. Type One Acceptable Manufacturers:
 - 1. Accurate Partitions Inc, Lyons, IL www.accuratepartitions.com.
 - 2. AMPCO Products Inc, Miami, FL www.ampco.com.
 - 3. Flush-Metal Partition Corp, Maspeth, NY www.flushmetal.com.
 - 4. Global Steel Products Corp, Eastanollee, GA www.globalpartitions.com.
 - 5. Hadrian Inc, Mentor, OH www.hadrian-inc.com.
 - 6. Knickerbocker Partitions Corp, Freeport, NY www.knickerbockerpartition.com.
 - 7. Metpar, Westbury, NY www.metpar.com.
 - 8. Equal as Approved by Architect before bidding. See Section 01 6200.

2.2 MANUFACTURED UNITS

- A. Toilet And Miscellaneous Partitions:

1. Floor-mounted, overhead-braced.
 2. Panels:
 - a. Core type, galvanized bonderized steel sheets (minimum 0.00015 inch 0.004 mm zinc coating), edges bound interlocked with drawn molding welded on corners.
 - 1) Panels, Pilasters, And Screens: 20 ga one mm minimum.
 - 2) Doors: 22 ga 0.08 mm minimum.
 - b. Anchors: Non-corrosive.
 3. Posts And Headrails: 20 ga one mm minimum of same construction and finish as panels. One per stall.
 4. Plinths: Stainless Steel.
 5. Hardware:
 - a. Each Door:
 - 1) Gravity type hinges with double handed, nylon bottom cam, adjustable for partial door closing position, bottom hinge finished flush with door bottom.
 - 2) Sliding door bolt.
 - 3) Door strike and keeper with rubber bumper.
 - 4) Coat hook / door bumper.
 - b. Finish: US 26.
 - c. Meet requirements of ASTM B 86, Alloy AG 40A.
- B. Urinal Partition: Basic construction same as panels above, floor mounted. Minimum width shall be 16 inches 400 mm.

2.3 FINISHES

- A. Finish And Color:
1. Powder-coated paint finish.
 2. Class One Color Quality Standards. See Section 01 6200.
 - a. Accurate: 920 Almond.
 - b. Global: Almond 2103
 - c. Hadrian: Almond 603
 - d. Knickerbocker: Almond 1111
 - e. Metpar: Almond 300

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that necessary blocking has been installed in framed walls for partition installation and for place where coat hook / door bumper will strike wall.

3.2 INSTALLATION

- A. Install pilasters rigid, plumb, and level. Anchor pilaster to floor with 3/8 inch 10 mm minimum threaded studs in expansion shields embedded 2 inches 50 mm into concrete slab below setting bed.
- B. Secure panels to walls with two stirrup brackets minimum attached near top and bottom of each panel. Use fasteners of length to provide one inch 25 mm embedment into blocking or masonry.
- C. Secure overhead brace to face sheets with two fasteners minimum per face. Set door tops parallel with brace. Set door bottom 12 inches 300 mm above floor.
- D. Plinth to be level with and snug to floor.

3.3 ADJUSTING

- A. Lubricate hardware as recommended by Manufacturer.
- B. Set hinges on out-swinging doors to return to nearly closed position.
- C. Perform final adjustments to pilaster leveling devices, door hardware, and other operating parts of partition assembly just before Substantial Completion.

3.4 CLEANING

- A. Remove protective masking. Clean exposed surfaces of partitions, hardware, fittings, and accessories.
- B. Touch-up minor scratches and other finish imperfections using materials and methods recommended by Manufacturer. Replace damaged or severely scratched materials with new materials.

END OF SECTION

SECTION 10 2227**FOLDING PANEL PARTITIONS****PART 1 - GENERAL****1.1 SUMMARY**

- A. Includes But Not Limited To:
 - 1. Furnish and install motor-operated folding panel partitions as described in Contract Documents.
- B. Related Requirements:
 - 1. Section 06 1100: Framing and headers for support of folding panel partitions.
 - 2. Section 06 2001: Installation of floor guide track.
 - 3. Section 06 4512: Hardwood jambs, trim, and chair rail on partition.

1.2 REFERENCES

- A. Submittal Standards:
 - 1. ASTM International:
 - a. ASTM E 84-06, 'Standard Test Method for Surface Burning Characteristics of Building Materials.'
 - b. ASTM E 90-04, 'Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.'
 - c. ASTM E 336-05, 'Standard Test Method for Measurement of Airborne Sound Attenuation in Buildings.'
 - d. ASTM E 413-04, 'Classification for Rating Sound Insulation.'
 - e. ASTM E 557-00, Guide for Installation of Operable Partitions.'

1.3 SUBMITTALS

- A. Action Submittals:
 - 1. Product Data: Color selections.
 - 2. Shop Drawings:
 - a. Fully describe partition fabrication, layout, and installation. Include but not limited to following items:
 - 1) Details of track, trolleys, hardware, etc.
 - 2) Loading to be imposed in supporting structure.
 - 3) Anchorage, accessory items, and finishes.
 - 4) Electrical details for motor and switches.
- B. Informational Submittals:
 - 1. Test And Evaluation Reports: Written sound test reports by test facility showing panels installed meet specified rating for sound.
 - 2. Manufacturer Instructions: Written installation instructions.
- C. Closeout Submittals:
 - 1. Operations And Maintenance Data: Include following information in Operations And Maintenance Manuals specified in Section 01 7800:
 - a. Manufacturer's literature.
 - b. Color selections.
 - c. Manufacturer's maintenance instructions.
 - 2. Warranty Documentation: Include final, executed copy of warranty in Operations And Maintenance Manuals specified in Section 01 7800.

1.4 QUALITY ASSURANCE

- A. Qualifications:
1. Installers: Installation of folding panel partitions shall be by crews trained and certified by Manufacturer and with minimum five years experience installing folding panel partitions similar to those specified in this Section.

1.5 SEQUENCING

- A. Coordination:
1. Coordinate location of blocking and support for chair rails in classrooms with Division 06.
 2. Coordinate with Section 09 7313 for acoustic wall carpeting and Section 09 7226 for sisal wall covering to be installed on folding panel partitions.
 3. Coordinate location of floor pin guide track.

1.6 WARRANTY

- A. Provide three-year warranty on folding partition installation and on folding partition and other related items provided by Manufacturer. Warranty to begin at date of Substantial Completion.

1.7 MAINTENANCE

- A. Extra Materials:
1. Provide two keys for electric drive system.
 2. Provide appropriate repair parts and tools unique to minor partition maintenance and adjustment at completion of installation.

PART 2 - PRODUCTS

2.1 MANUFACTURED UNITS

- A. Manufacturer:
1. Category Three Approved Product. See Section 01 6200 for definitions of Categories.
 - a. Spacesetter Acousti-Seal 933E by Modernfold, Greenfield, IN, distributed by Alder's, Midvale, UT (801) 262-9700 www.alders.com.
- B. Performance:
1. Design Criteria:
 - a. Series of continuously hinged flat panels, electrically operated, top supported with operable seals.
 - b. When closed, operable wall shall be lockable by key for electric drive.
 - c. Capability to mount motor for electric drive at stack end or at opposite end and still provide proper operation.
 - d. Panel finish shall have Class 'A' flame spread rating when tested in accordance with ASTM E 84.
 - e. Acoustical folding panel partitions shall have STC rating of 50 minimum when tested in accordance with ASTM E 90 and calculated in accordance with ASTM E 413.
 - f. Acoustical folding panel partitions shall have NIC rating of 33 minimum field measured on installed partition in accordance with ASTM E 336 and calculated in accordance with ASTM E 413 and when installed on header configuration and surrounding construction shown on Contract Documents.
 - g. Door Operation:
 - 1) Key operated electrical motor drive. Use two control stations wired in series and located diagonally on opposite sides and on opposite ends of partition.

- 2) Provide chain drive attached to lead panel to pull partition across opening.
- 3) Final Closure: Positive pressure on stack jamb closure.

C. Materials:

1. Panels:
 - a. Nominal 3 inch 75 mm thick in Manufacturer's standard 48 inch 1 200 mm maximum width.
 - b. Panel weight of 9 pounds per square foot maximum.
 - c. Panel Skins shall be one of following at manufacturer's option:
 - 1) 1/2 inch 13 mm medium density fiber board (MDF).
 - 2) Steel faced gypsum board.
 - d. Provide minimum 4 inch 100 mm wood blocking to receive hardwood chair rails to be provided under Division 06.
2. Hinges: Full leaf butt hinges.
3. Trim:
 - a. Plain edge on panel edges. Vertical trim not allowed unless sisal wall covering is required.
 - b. With astragals, provide minimum groove appearance at vertical joints.
4. Sound Seals:
 - a. Vertical Sound Seals:
 - 1) Provide steel astragals between panels in each panel edge.
 - 2) Reversible tongue and groove configuration permitting universal panel operation.
 - 3) Rigid plastic astragals are not acceptable.
 - b. Horizontal Top Seals: Continuous contact multi-finger vinyl sweep seals.
 - c. Bottom Seal: Floating floor seals providing minimum one inch 25 mm operating drop as panels are positioned.
5. Suspension System:
 - a. Type No. 14 track, rated for 425 pounds 193 kg of total carrier weight panel.
 - b. Track Supports: Adjustable steel hanger brackets connected to structural steel by pairs of 3/8 inch 10 mm diameter thread rods.
6. Motor:
 - a. One horsepower, 60 hertz, 115v single-phase electric motor.
 - b. Provide drive unit motor equipped with limit switches to prevent over-extension and with adjustable clutch type overload device.

D. Fabrication:

1. Attach hinges directly to panel frame. Provide further support using welding hinge anchor plates within panel directly to frame. Hinges mounted into panel edge or vertical astragal are not acceptable.
2. Chair Rail: Provide internal structure to support chair rail located 27 inches 675 mm from floor to bottom of rail.

E. Finishes:

1. Acoustical Fabric Wall Covering:
 - a. Velcro-enhanced structural acoustical wall covering.
 - b. Weight:
 - 1) 60 ounces per lineal yard.
 - 2) 20 ounces per square yard.
 - c. Width: 108 to 110 inches.
 - d. Fiber:
 - 1) Fossfibre: 100 percent solution dyed polyester staple fiber.
 - 2) Color: #18-03 Stone Impressions.
 - e. Adhesive:
 - 1) Acceptable Manufacturers:
 - a) Gardner-Gibson, Tampa, FL www.gardner-gibson.com.
 - b) Primer: Dynamite No. 221 Acrylic Wallcovering Primer.
 - c) Adhesive: Dynamite No. 0433 Heavy Duty Clay Strippable Adhesive.
 - d) Equals as recommended by Wall Carpet Manufacturer and approved by Architect before use. See Section 01 6200.
 - f. Approved Product:
 - 1) Hytex 'Impressions' distributed by Wall Resources, Salt Lake City, UT (801) 268-8700 or (800) 323-8226.

2. Sisal Wall Covering:
 - a. 100 percent fire-treated sisal yarn.
 - b. 11/64 inch pile height, 48 oz/sq yd minimum. Sisal to be installed full height on walls shall be furnished in 9, 12, or 13 foot wide goods.
 - c. Reversible weave type, without backing.
 - d. Color selected by Architect from CES approved colors.
 - e. Approved Products:
 - 1) Color 0250 Jacinth by Design Materials Inc.
 - 2) Color 334 Jacinth by Fibreworks.
 - 3) Color 34 Jacinth by Ronarco.
3. Wall Covering Adhesive:
 - a. Approved Products:
 - 1) CIC 257 Adhesive by Fibreworks.
 - 2) Sisal Adhesive No. 1-422 by Design Materials.
 - 3) #90 by Chapco for Ronarco.
4. Seam Cement:
 - a. Acceptable Products:
 - 1) Roberts 4015 Seam Cement by Roberts Consolidated Industries.
 - 2) Equal as recommended by Wall Covering Manufacturer with approval of Architect before installation. See Section 01 6200.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions: Examine fully prepared openings for suitability for successful installation and compliance with Contract Documents. Notify Architect in writing of unsatisfactory conditions or non-compliance. Do not install in unsatisfactory openings.

3.2 INSTALLATION

- A. Installation shall comply with requirements of ASTM E 557.

3.3 FIELD QUALITY CONTROL

- A. Field Tests:
 1. Installer shall test completed assembly using own sound source and instruments. Make corrections required to meet specified NIC rating. When completed, notify Architect and Door Manufacturer in writing that partition is ready for testing by Architect's Sound / Acoustic Consultant.
 2. Architect's Sound / Acoustic Consultant will test finished, installed folding panel partition assemblies to determine NIC ratings specified above. Notify Door Manufacturer minimum 48 hours in writing prior to test time, verifying specific date in writing.
 3. Testing will occur at time of sound system balancing.
 4. If partitions do not meet specified NIC requirements or if partitions are not ready for testing, make necessary corrections and pay for additional fees and expenses required for subsequent testing.

3.4 CLEANING

- A. Clean up debris and waste material related to installation.

3.5 CLOSE-OUT ACTIVITIES

A. Instruction Of Owner:

1. After installation and when folding panel partition is fully operational, provide minimum two hour instruction and demonstration period concerning operation and maintenance of folding panel partitions.
2. Those to be included in instruction period are Architect, Owner's Representative, Seminary Principal / Institute Director, and Facilities Manager.

END OF SECTION

SECTION 10 2227**FOLDING PANEL PARTITIONS****PART 1 - GENERAL****1.1 SUMMARY**

- A. Includes But Not Limited To:
 - 1. Furnish and install manually operated folding panel partitions as described in Contract Documents.
- B. Related Requirements:
 - 1. Section 06 1100: Framing and headers for support of folding panel partitions.
 - 2. Section 06 4512: Hardwood jambs, trim, and chair rail on partition.

1.2 REFERENCES

- A. Reference Standards:
 - 1. ASTM International:
 - a. ASTM E 84-06, 'Standard Test Method for Surface Burning Characteristics of Building Materials.'
 - b. ASTM E 90-04, 'Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.'
 - c. ASTM E 336-05, 'Standard Test Method for Measurement of Airborne Sound Attenuation in Buildings.'
 - d. ASTM E 413-04, 'Classification for Rating Sound Insulation.'
 - e. ASTM E 557-00, 'Guide for Installation of Operable Partitions.'

1.3 SUBMITTALS

- A. Action Submittals;
 - 1. Product Data: Color selections.
 - 2. Shop Drawings:
 - a. Fully describe partition fabrication, layout, and installation.
 - b. Include but not limited to following:
 - 1) Details of track, trolleys, hardware, etc.
 - 2) Loading to be imposed in supporting structure.
 - 3) Anchorage, accessory items, and finishes.
 - 4) Right or left hand configuration.
- B. Informational Submittals:
 - 1. Test And Evaluation Reports: Written sound test reports by test facility showing panels installed meet specified rating for sound.
 - 2. Manufacturer Instructions: Written installation and operation instructions.
- C. Closeout Submittals:
 - 1. Operations And Maintenance Data: Include following in Operations And Maintenance Manuals specified in Section 01 7800:
 - a. Manufacturer's literature.
 - b. Color selections.
 - c. Manufacturer's maintenance instructions.
 - 2. Warranty Documentation: Include copy of final, executed warranty in Operations And Maintenance Manuals specified in Section 01 7800.

D. Maintenance Material Submittals:

1. Spare Parts:
 - a. Provide three keys for securing panel wall when closed.
 - b. Provide two extra handles required for closing jamb and lowering bottom seal for panel wall.
2. Tools: Provide appropriate repair parts and tools unique to minor partition maintenance and adjustment at completion of installation.

1.4 QUALITY ASSURANCE

A. Qualifications:

1. Installers: Installation of folding panel partitions shall be by crews trained and certified by Manufacturer and with minimum five years experience installing folding panel partitions similar to those specified in this Section.

1.5 WARRANTY

- A. Provide three-year warranty on folding partition installation and on folding partition and other related items provided by Manufacturer. Warranty to begin at date of Substantial Completion.

PART 2 - PRODUCTS**2.1 MANUFACTURED UNITS**

A. Manufacturer:

1. Category Three Approved Product. See Section 01 6200 for definitions of Categories.
 - a. Spacesetter Model 202 by Modernfold, Greenfield, IN, distributed by Alder's, Midvale, UT (801) 262-9700 www.alders.com.

B. Performance:

1. Design Criteria:
 - a. Operable wall shall be series of manually operated flat panels in two hinged pair groupings, top supported with floor seals.
 - b. When closed, operable wall shall be lockable either by key or removable operation key used for closure of jamb and manually operated bottom seals.
 - c. Panel finish shall have Class 'A' flame spread rating when tested in accordance with ASTM E 84.
 - d. Acoustical folding panel partitions shall have STC rating of 50 minimum when tested in accordance with ASTM E 90 and calculated in accordance with ASTM E 413.
 - e. Acoustical folding panel partitions shall have NIC rating of 33 minimum field measured on installed partition in accordance with ASTM E 336 and calculated in accordance with ASTM E 413 and when installed on header configuration and surrounding construction shown on Contract Documents.
 - f. Door Operation:
 - 1) Manual.
 - 2) Final Closure:
 - a) Automatic: Expandable closure panel to seal wall by means of applying pressure on total door when closed.
 - b) Manual: Lever closure expanding jamb with removable key handle.

C. Materials:

1. Panels:
 - a. Nominal 2-3/4 inch 69 mm thick in Manufacturer's standard 48 inch 1 200 mm maximum width.
 - b. Panel weight of 9 pounds per sq ft maximum.
 - c. Panel Skins shall be one of following at Manufacturer's option:

- 1) 1/2 inch 13 mm medium density fiber board (MDF).
 - 2) Steel faced gypsum board.
 - d. Provide minimum 4 inch 100 mm wood blocking to receive hardwood chair rails to be provided under Division 06.
 2. Trim:
 - a. Plain edge on panel edges. Vertical trim not allowed.
 - b. With astragals, provide minimum groove appearance at vertical joints.
 3. Sound Seals:
 - a. Vertical Sound Seals:
 - 1) Provide steel astragals between panels in each panel edge.
 - 2) Reversible tongue and groove configuration permitting universal panel operation.
 - 3) Rigid plastic astragals are not acceptable.
 - b. Horizontal Top Seals: Continuous contact multi-finger vinyl sweep seals.
 - c. Bottom Seal:
 - 1) Provide one of following at Manufacturer's Option:
 - a) Automatic operable bottom providing one inch 25 mm minimum operating drop as panels are positioned.
 - b) Manually operated bottom seals using removable key handle providing one inch 25 mm minimum operating drop.
 - c) Angle jamb closure with lock.
 4. Closure Handle:
 - a. Provide single handle for operation of closing door and for operating bottom seal.
 - b. Same handle shall operate both functions.
 5. Suspension System:
 - a. Type 425 track, rated for 425 pounds 193 kg of total carrier weight panel.
 - b. Track Support: Adjustable steel hanger brackets connected to structural steel by pairs of 3/8 inch 10 mm diameter thread rods.
- D. Fabrication:
1. Chair Rail: Provide internal structure to support chair rail located 27 inches 675 mm from floor to bottom of rail.
- E. Finishes:
1. Acoustical Fabric Wall Covering:
 - a. Velcro-enhanced structural acoustic wall carpeting.
 - b. Weight:
 - 1) 60 ounces per lineal yard.
 - 2) 20 ounces per square yard.
 - c. Width: 108 to 110 inches.
 - d. Fiber:
 - 1) Fossfibre: 100 percent solution dyed polyester staple fiber.
 - 2) Color: #18-03 Stone Impressions.
 - e. Approved Products:
 - 1) Hytex 'Impressions' distributed by Wall Resources, Salt Lake City, UT (800) 323-8226 or (801) 268-8700.
 2. Adhesive:
 - a. Acceptable Products:
 - 1) Gardner-Gibson, Tampa, FL www.gardner-gibson.com.
 - a) Primer: Dynamite No. 221 Acrylic Wallcovering Primer.
 - b) Adhesive: Dynamite No. 0433 Heavy Duty Clay Strippable Adhesive.
 - 2) Equal as recommended by Wall Carpet Manufacturer and approved by Architect before use. See Section 01 6200.

PART 3 - EXECUTION**3.1 EXAMINATION**

- A. Verification of Conditions: Examine fully prepared openings for suitability for successful installation and compliance with Contract Documents. Notify Architect in writing of unsatisfactory conditions or non-compliance. Do not install in unsatisfactory openings.

3.2 INSTALLATION

- A. Interface With Other Work:
 - 1. Coordinate location of blocking and support for chair rails in classrooms with Division 06.
 - 2. Coordinate with Section 09 7313 for acoustic wall carpeting to be installed on folding panel partitions.
- B. Installation shall comply with requirements of ASTM E 557.

3.3 FIELD QUALITY CONTROL

- A. Field Tests:
 - 1. Installer shall test completed assembly using own sound source and instruments. Make corrections required to meet specified NIC rating. When completed, notify Architect and Door Manufacturer in writing that partition is ready for testing by Architect's Sound / Acoustic Consultant.
 - 2. Architect's Sound / Acoustic Consultant will test finished, installed folding panel partition assemblies to determine NIC ratings specified above. Notify Door Manufacturer minimum 48 hours in writing prior to test time, verifying specific date in writing.
 - 3. Testing will occur at time of sound system balancing.
 - 4. If partitions do not meet specified NIC requirements or if partitions are not ready for testing, make necessary corrections and pay for additional fees and expenses required for subsequent testing.

3.4 CLEANING

- A. Clean up debris and waste material related to installation.

3.5 DEMONSTRATION

- A. Instruction:
 - 1. After installation and when folding panel partition is fully operational, provide minimum one hour instruction and demonstration period concerning operation and maintenance of folding panel partitions.
 - 2. Those to be included in instruction period are Architect, Owner's Representative, Seminary Principal/Institute Director, and Facilities Manager.

END OF SECTION