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P100 - Training
2021

The Facilities Standards for the Public Buildings Service

This session is being recorded.

Architecture and Interior Design
(2nd half of Chapter 3)

Figure 8: U.S. Courthouse
San Diego, CA

3
ARCHITECTURE AND INTERIOR DESIGN

Jane Schuster

**Workplace Strategist
Center for Workplace Strategy**

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INTERIOR DESIGN TECHNICAL COMMITTEE

Jane Schuster - CO
Kevin Kelly - CO
Liz Kahn - R3
Laurie Fox - R8
Stacey Fong - R9

P100 (2021) Change Requests

External Stakeholders

↓

Industry Organizations
e.g. Green Circle, USGBC, UL, PNNL, Vinyl Institute, Carpet and Rug Industry, QPC

Manufacturers
e.g. Rockfon, Lutron, Shaw

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↓

Office of Design & Construction - CO & Regional

Facilities Management

Regional SME's

OGP - OFHPB

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Interiors: Today's Focus

3.4 Interior Performance Table

Glazing
Flooring
Coatings
Wall Covering
Acoustical Ceilings

3.5 Interior Construction & Interior Finishes Performance Attributes

Construction Products and Materials
Interior Finishes and Materials
Acoustics

3.7 Workplace Performance Requirements

3.8 Workplace Performance Attributes

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3.4
Interior Performance Table

Wall Covering Type II	
Durability	
Baseline	Compliance to W-101 (2011)
Tier 1	Compliance to W-101 (2011)
Tier 2	Compliance to W-101 (2011)
Tier 3	Compliance to W-101 (2011)
M & V	Manufacturer Provided Specifications
Plans & Specs	N/A
Calculations & Analysis	W 101 Physical Test Requirements
References	
Basis of Design	Describe durability requirements.
Construction Verification	Verify compliance through product submittal information.
Maintenance	
Baseline	Scrubbability - 300 cycles/ min Washability - 100 cycles/ min
Tier 1	Scrubbability - 300 cycles/ min Washability - 100 cycles/ min
Tier 2	Scrubbability - 300 cycles/ min Washability - 100 cycles/ min
Tier 3	Scrubbability - 300 cycles/ min Washability - 100 cycles/ min
M & V	Manufacturer Provided Specifications
Plans & Specs	ASTM F 793
Calculations & Analysis	W 101 Physical Test Requirements
References	
Basis of Design	Describe maintenance requirements.
Construction Verification	Verify compliance through product submittal information.
Environmental – Wall Covering	
Baseline	Comply with IgCC-2018 Section 901.4.1.4.3 (9.4.1.4.3) Third-Party Multi-attribute Certification - NSF/ANSI 342 for wall covering products.
Tier 1	Comply with IgCC-2018 Section 901.4.1.4.3 (9.4.1.4.3) Third-Party Multi-attribute Certification - NSF/ANSI 342 for wall covering products.
Tier 2	Comply with IgCC-2018 Section 901.4.1.4.3 (9.4.1.4.3) Third-Party Multi-attribute Certification - NSF/ANSI 342 for wall covering products.
Tier 3	Comply with IgCC-2018 Section 901.4.1.4.3 (9.4.1.4.3) Third-Party Multi-attribute Certification - NSF/ANSI 342 for wall covering products.
M & V	Provide 3rd Party NSF/ANSI 342 Certificate; Recycled content must be calculated in terms of total product weight
Plans & Specs	N/A
Calculations & Analysis	W 101 Physical Test Requirements
References	
Basis of Design	Document the percent recycled content.
Construction Verification	Verify compliance through product submittal information and manufacturer certification.
Environmental – Ceiling and Wall Assemblies	
Baseline	Comply with IgCC-2018 Section 801.4.2.6 (8.4.2.6) Ceiling and Wall Assemblies and Systems.
Tier 1	Comply with IgCC-2018 Section 801.4.2.6 (8.4.2.6) Ceiling and Wall Assemblies and Systems.
Tier 2	Comply with IgCC-2018 Section 801.4.2.6 (8.4.2.6) Ceiling and Wall Assemblies and Systems and GREENGUARD Gold

Updated Performance Tables

Updated

Previous

Note:
Acoustic performance relocation

Metal Stud Partitions

	Construction
Baseline	3-5/8" x min. 25 ga. metal studs @ 24" o.c., 5/8" gypsum board, with Greenguard Gold certification, each side (max. deflection L/240)
Tier 1	3-5/8" x min. 25 ga. metal studs @ 24" o.c., 5/8" gypsum board, with Greenguard Gold certification, each side (max. deflection L/240)
Tier 2	3-5/8" x min. 16 ga. light gage metal framing studs @ 16" o.c., 2 layers 5/8" gypsum board, with Greenguard Gold certification, 9 ga. wire mesh between studs and gypsum each side (max. deflection L/360)
Tier 3	N/A
M & V	N/A
Plans & Specs	ASTM C 645, ASTM C 1396,
Calculations & Analysis	N/A
References	
Basis of Design	Describe partition construction.
Construction Verification	Verify compliance through design submittals, shop drawings and product submittal information.

	Durability (Impact Resistance)
Baseline	Standard
Tier 1	Standard
Tier 2	High
Tier 3	N/A
M & V	N/A
Plans & Specs	N/A
Calculations & Analysis	N/A
References	
Basis of Design	Describe impact resistance requirement, when applicable.
Construction Verification	Verify compliance through product submittal information.

	Height
Baseline	Deck to Ceiling with plenum barrier
Tier 1	Deck to Slab or Deck to Ceiling with plenum barrier or Deck to Deck Above
Tier 2	Deck to Slab or Deck Above
Tier 3	N/A

Previous table

Attribute	Baseline	★ Tier 1 High Performance	★★ Tier 2 High Performance	★★★ Tier 3 High Performance	Measurement & Verification	Plans & Specs	Calculations & Analysis	Design	Construction
3.5.1.9 Metal Stud Partitions									
Construction	3-5/8" x min. 25 ga. metal studs @ 24" o.c., 5/8" gypsum board, with Greenguard Gold certification, each side (max. deflection L/240)	3-5/8" x min. 25 ga. metal studs @ 16" o.c., 5/8" gypsum board, with Greenguard Gold certification, each side (max. deflection L/360)	3-5/8" x min. 16 ga. light gage metal framing studs @ 16" o.c., 2 layers 5/8" gypsum board, , with Greenguard Gold certification, 9 ga. wire mesh between studs and gypsum each side (max. deflection L/360)	N/A	N/A	ASTM C 645, ASTM C 1396, Greenguard Gold	N/A	Describe partition construction. Document envrionmental testing requirements for gypsum board	Verify compliance through design submittals, shop drawings and product submittal information.
Durability (Impact Resistance)	Standard	Standard	High	N/A	N/A	N/A	N/A	Describe impact resistance requirement, when applicable.	Verify compliance through product submittal information.
Height	Deck to Ceiling	Deck to Slab or Deck Above	Deck to Slab or Deck Above	N/A	N/A	N/A	N/A	Describe partition height requirements.	Verify compliance through design submittals.
Acoustics	STC 40	STC 45	STC 50	N/A	N/A	ASTM E 90	N/A	Document partition assembly STC rating.	Verify STC ratings through product submittals during construction for compliance.
Security	No Rating	No Rating	SCIF	N/A	N/A	N/A	Required for FE and BR ratings	Document security requirement.	Verify compliance through design submittals and shop drawings

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Wood Framed Interior Lights

Tier 3:
Removed Teak and Rosewood

Now matches types of wood in Tier 1 & 2

- Sustainability
- Avoidance on imported exotic woods
- Threatened species

Wood Framed Interior Lights	
Construction	
Baseline	Field fabricated and finished. Painted birch, poplar, or clear softwood. AWI Custom grade.
Tier 1	Shop fabricated with field applied clear or tinted stain. Oak, maple, cherry, walnut, or similar hardwood. AWI custom grade.
Tier 2	Shop fabricated and finished with clear or tinted stain. Oak, maple, cherry, walnut, or similar hardwood. AWI premium grade.
Tier 3	Shop fabricated and finished with clear or tinted stain. Oak, maple, cherry, walnut, or similar hardwood. AWI premium grade.
M & V	N/A
Plans & Specs	N/A
Calculations & Analysis	N/A
References	
Basis of Design	Describe construction of wood framed interior lights.
Construction Verification	Verify through mockup, shop drawing submittal and product submittal information.

Broadloom / Carpet Tile

Baseline Only:

Durability:
- **CRI Model Specification for TARR**
  - Selection based on foot traffic
  - Increase product selections
  - Decreased overall costs

CRI Updates:
- **Follows industry standards**
- **Updated with innovations**

Broadloom/Carpet Tile	
Durability	
Baseline	Refer to CRI Model Specification for TARR Recommendation.
Tier 1	
Tier 2	
Tier 3	
M & V	
Plans & Specs	NSF/ANSI 140 and reference IgCC
Calculations & Analysis	
References	
Basis of Design	TARR classification => 3.0 TARR Moderate/Heavy Private Offices, Training, Conference, Courtrooms =>3.5 TARR Severe Open Office, Cafeteria, Corridors, Lobbies
Construction Verification	Verify compliance through mockup and product submittal information.

Resilient Flooring

Environmental Updates:

GREENGUARD Gold
- **Added to VCT, Sheet Vinyl, Rubber Tile, Linoleum**
  - Most utilized product emission certification
  - Stringent pass/fail criteria
- **Already utilized throughout P100**
- **Cost for certification and/or emissions testing**

PRODUCT CERTIFIED FOR
LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818

GREENGUARD GOLD

Environmental	
Baseline	Comply with IgCC-2018 Section 901.4.1.4.3 (9.4.1.4.3) Third-Party Multi-attribute Certification. NSF-332 Silver and GREENGUARD Gold
Tier 1	Comply with IgCC-2018 Section 901.4.1.4.3 (9.4.1.4.3) Third-Party Multi-attribute Certification. NSF-332 Gold and GREENGUARD Gold
Tier 2	Comply with IgCC-2018 Section 901.4.1.4.3 (9.4.1.4.3) Third-Party Multi-attribute Certification. NSF-332 Platinum and GREENGUARD Gold
Tier 3	Comply with IgCC-2018 Section 901.4.1.4.3 (9.4.1.4.3) Third-Party Multi-attribute Certification. Cradle to Cradle Bronze and GREENGUARD Gold

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Luxury Vinyl Tile & Plank

New Section!

LVT → Mimics tile

LVP → Mimics hardwood

+ Low cost compared to stone/wood
+ Low maintenance
+ Comfort
+ Water-resistant
+ Durable
+ Easy to install

- Emit VOCs after installation

Luxury Vinyl Tile (LVT) and Luxury Vinyl Plank (LVP)	
Durability	
Baseline	(LVT/LVP - ASTM F1700 Class III
Tier 1	LVT/LVP - ASTM F1700 Class III
Tier 2	LVT/LVP - ASTM F1700 Class III
Tier 3	LVT/LVP - ASTM F1700 Class III
M & V	Document Product Size and Thickness based on Application.
Plans & Specs	LVT/LVP - ASTM F1700 Class III
Calculations & Analysis	N/A
References	
Basis of Design	Describe type of backing, when applicable. Identify installation: Glue down or Loose Lay. Identify Required Wear Layer for Application.
Construction Verification	Verify compliance through mockup and product submittal information.
Static Load - Verify application if rolling traffic/dynamic load is a required attribute	
Baseline	ASTM F970 compliance, depression less than 5 mil after 24 hours. Method cites 250 psi max.
Tier 1	ASTM F970 compliance, depression less than 5 mil after 24 hours. Method cites 250 psi max.
Tier 2	ASTM F970 compliance, depression less than 5 mil after 24 hours. Method cites 250 psi max.
Tier 3	ASTM F970 compliance, depression less than 5 mil after 24 hours. Method cites 250 psi max.
M & V	Document static load in PSI.
Plans & Specs	ASTM F970 Standard Test Method for Measuring Recovery Properties of Floor Coverings after Static Loading
Calculations & Analysis	If dynamic load is required, determine maximum and verify with product technical specifications.
References	
Basis of Design	Document static limit load rating as compliant with ASTM F970.
Construction Verification	Verify compliance through product submittal information.

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Interior Architectural Coatings (Paint)

Environmental Updates:

Removed VOC level requirement

Replaced with IgCC-2018 compliance
- Section 801.4.2.2 Paints & Coatings
  - Specifically names products/applications
  - References Green Seal 11 (durability)
  - Comprehensive requirements for paint emissions

Interior Architectural Coatings (Paint)

	Environmental
Baseline	Comply with IgCC-2018 Section 801.4.2.2 (8.4.2.2) Paints and Coatings
Tier 1	Comply with IgCC-2018 Section 801.4.2.2 (8.4.2.2) Paints and Coatings
Tier 2	Comply with IgCC-2018 Section 801.4.2.2 (8.4.2.2) Paints and Coatings
Tier 3	Comply with IgCC-2018 Section 801.4.2.2 (8.4.2.2) Paints and Coatings and certified to the Cradle to Cradle Bronze
M & V	N/A
Plans & Specs	SCAQMD's Rule 1113 or Green Seal 11
Calculations & Analysis	N/A
References	
Basis of Design	Document requirements in basis of design.
Construction Verification	Verify compliance through product submittal information, manufacturer certification.

IgCC
2018
INTERNATIONAL
GREEN CONSTRUCTION CODE

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Acoustical Ceilings

Removed Attributes:
- Privacy Index
- Sound Masking
- Reverberation Time
- Scratch Resistance

Maintenance:
- Removed ASTM D2486

Environmental
- Baseline recycled content increase

Acoustical Ceilings	
Surface Texture	
Baseline	Fine textures with perforations
Tier 1	Smooth White acoustical
Tier 2	
Tier 3	
M & V	
Plans & Specs	
Calculations & Analysis	
References	
Basis of Design	Describe surface texture for each ceiling type
Construction Verification	Verify compliance through product submittal information and manufacturer certification

Maintenance	
Baseline	Vacuum with soft brush attachment
Tier 1	Vacuum with soft brush attachment
Tier 2	
Tier 3	
M & V	Provide manufacturer's written cleaning instructions
Plans & Specs	
Calculations & Analysis	
References	
Basis of Design	Verify compliance through product submittal information and manufacturer certification
Construction Verification	Verify compliance through product submittal information and manufacturer certification

Environmental - Recycled Content	
Baseline	Total Recycled Content ≥ 80%
Tier 1	Total Recycled Content ≥ 80%
Tier 2	
Tier 3	
M & V	N/A
Plans & Specs	ISO 14021
Calculations & Analysis	N/A
References	
Basis of Design	Describe total recycled content, light reflectance, and emission requirements.
Construction Verification	Verify compliance through product submittal information, Product data Sheet;

80%

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3.5
Interior Construction & Interior Finishes Performance Attributes

Construction Products

Materials and Finish Materials

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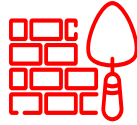
Construction Products:
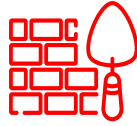# **Doors**

Solid Core Wood Doors

May include vision panels - but features cannot change their level of performance

Hollow Metal Doors

May include vision panels - but features cannot change their level of performance

Glazed Aluminum Doors

Typically fully glazed.
For interior use.
Do not have a fire rating.
Not bullet resistant or forced entry protected

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Construction Products:
Fire Rated Doors

Door Assembly
- Doorway
- Door
- Frame
- Hardware

Rated Door Types
- Flush
- Solid Core Wood
- Hollow Metal

Doorway

Hardware

Frame

Door

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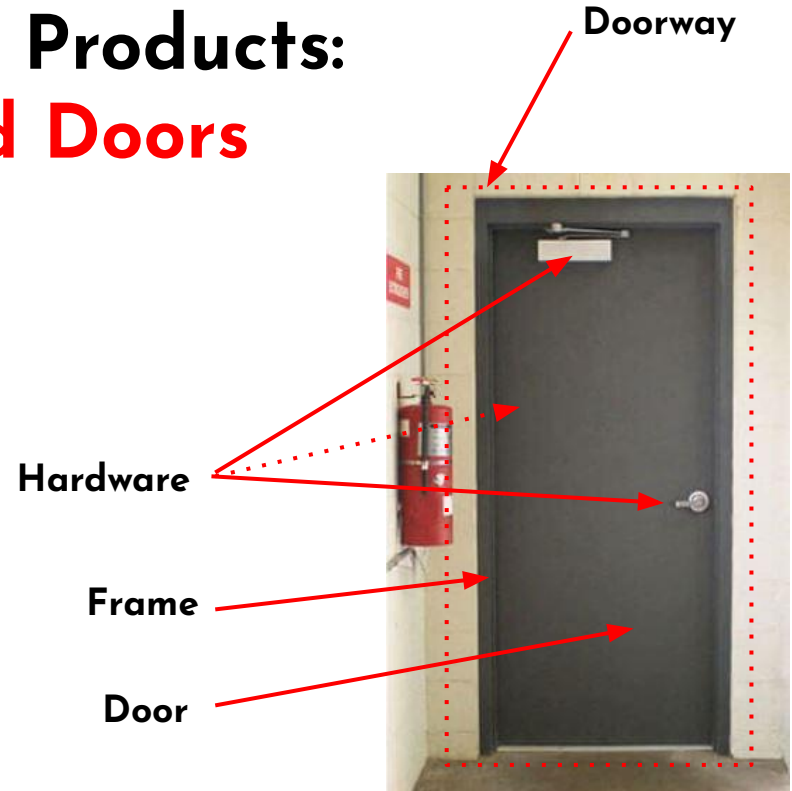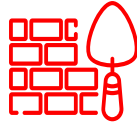
Construction Products: Types of Door Cores

Solid Core Wood Doors	
Construction	
Baseline	Bonded stave core; AWI Custom Grade; 5-ply; Field applied paint
Tier 1	Bonded particle board core; AWI Custom Grade; 5-ply; Hardwood veneer; Field applied finish
Tier 2	Bonded structural composite core; AWI Premium Grade; 5-ply; Factory finish
Tier 3	Bonded structural composite core; AWI Premium Grade; 5-ply; Factory finish
M & V	N/A
Plans & Specs	WDMA I.S-1. A; AWI Architectural Woodwork Quality Standards
Calculations & Analysis	N/A

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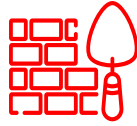
Construction Products: Types of Door Cores
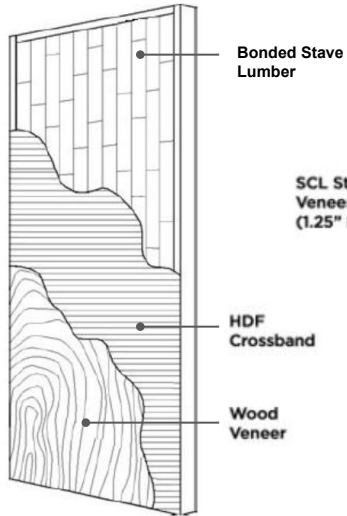
Bonded Stave Lumber

HDF Crossband

Wood Veneer

Bonded Stave Core

SCL Rail with Veneer Edge Band (1.25" Prior to Trim)

SCL Stile with Veneer Edge Band (1.25" Prior to Trim)

Wood Based Particleboard Core

HDF Crossband
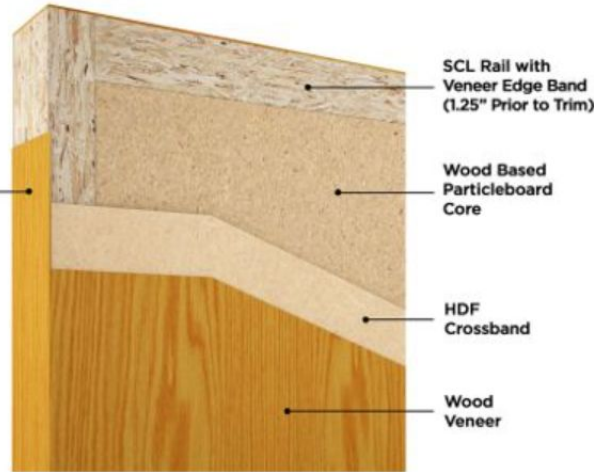
Wood Veneer

Bonded Particle Board Core
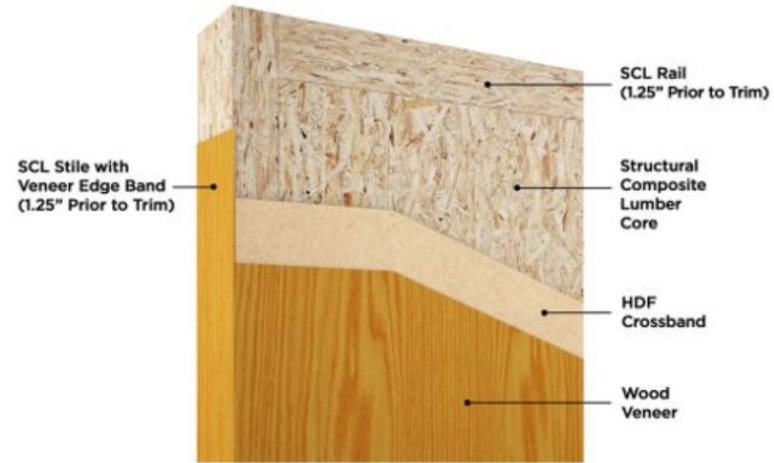
SCL Rail (1.25" Prior to Trim)

SCL Stile with Veneer Edge Band (1.25" Prior to Trim)

Structural Composite Lumber Core

HDF Crossband

Wood Veneer

Bonded Structural Composite Lumber Core (SCL)

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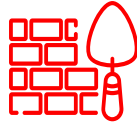
Construction Products:
Types of Door Cores
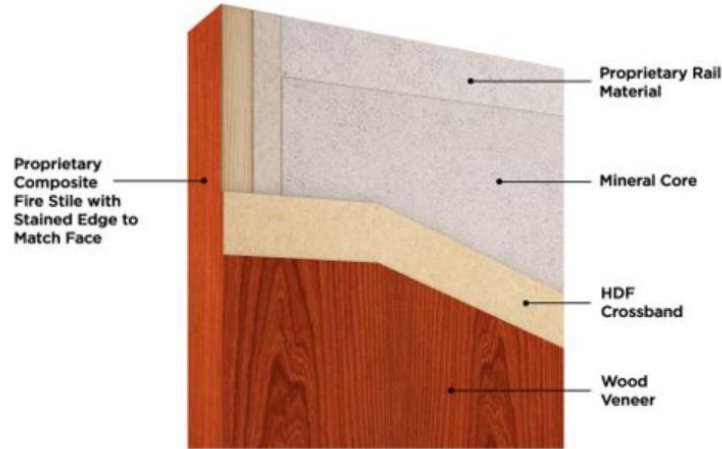
Mineral Core
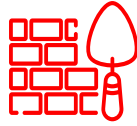
Construction Products: Interior Glazing

Wood Framed Lights

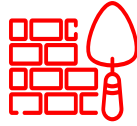No fire rating available

Hollow Metal Framed Lights

May be fire rated if dimensions comply

Aluminum Framed Lights

No fire rating available

Hollow Metal Framed Light

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Construction Products:
Types of Partitions

Metal Stud Partitions   Metal stud construction with gypsum board

Masonry Partitions   Concrete masonry wall with metal furring and gypsum board

Demountable Partitions   Prefabricated assembly designed to be installed and relocated

Operable Partitions   Wall partitions that move on a track system

Metal stud partition

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Demountable Partitions

Why select a demountable wall?

- ◦ Quick install, less waste
- ◦ Coordination between trades is simplified
- ◦ May contribute to LEED credits.
- ◦ Most importantly: **Workplace change is constant**

Photo credit: DIRTT

Construction Products

Materials and Finish Materials

Interior Finishes:
Interior Coatings (aka: paint)

Specify Low VOCs for all Tiers

Comply with IgCC-2018 Section 801.4.2.2 (8.4.2.2)

SCAQMD 1113 or GreenSeal 11

Interior Finishes:
Type II Wallcovering

Durability Attributes of Type II
- Washability
- Scrubbability
- Abrasion Resistance
- Breaking Strength
- Crocking
- Stain Resistance
- Tear Resistance

20-28 oz per linear yard

Steiner Tunnel Test Apparatus

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"A designer has a duty to create timeless design. To be timeless you have to think really far into the future, not next year, not in two years but in 20 years minimum."

— Phillip Starck

Kevin Kelly

Senior Architect
Center for Workplace Strategy

3.5.3
Acoustics

Why Acoustics Matter

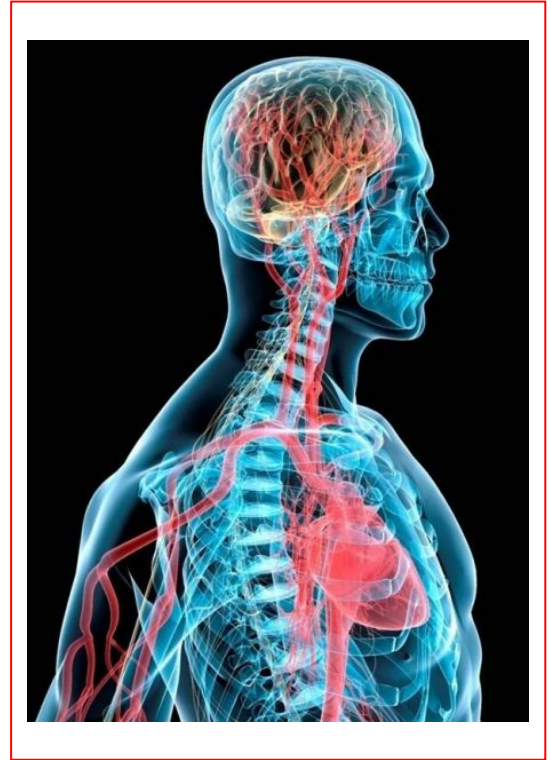## Mental & Behavioral Effects

- Increased aggressiveness
- Decreased problem solving
- Comprehension problems

Clinical Manifestations

- Elevated blood pressure
- Fatigue
- Ulcers
- Heart attacks

Info courtesy of Dr. Gary Madaras, Rockfon Corp.

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Top Workplace Complaints

71%
Acoustics
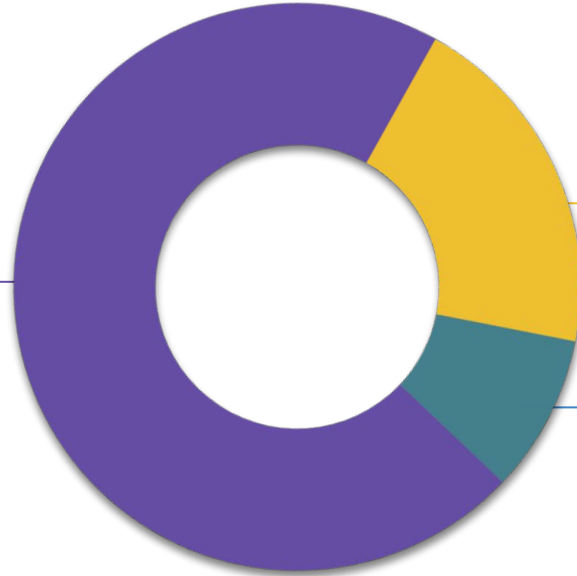
20%
Air Quality

9%
Lighting

Data credit: Gensler Workplace Research and UC Berkeley

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Key Concepts for Acoustics

Speech Privacy

Provide areas for private conversations.

Background Sound

Background sound masks distracting noises but is not distracting.

Absorption

Finishes absorb sound and control reverberation.

Noise Isolation

Limited external environmental noise.

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Acoustic Terminology

Sound Transmission Class (STC)

Measurement for the effectiveness of construction materials to reduce sound transmission between rooms.

Noise Isolation Class (NIC)

Field measurement of the room to room noise reduction.

Noise Reduction Coefficient (NRC)

Rating of how much an acoustic product can absorb.

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Acoustical Performance

STC 35
Loud speech audible, but not intelligible

STC 40
Onset of "privacy"

STC 45
Loud speech barely audible

STC 50
Shouting barely audible

STC 55
Musical instruments can be faintly heard.

STC 60
Superior Soundproofing

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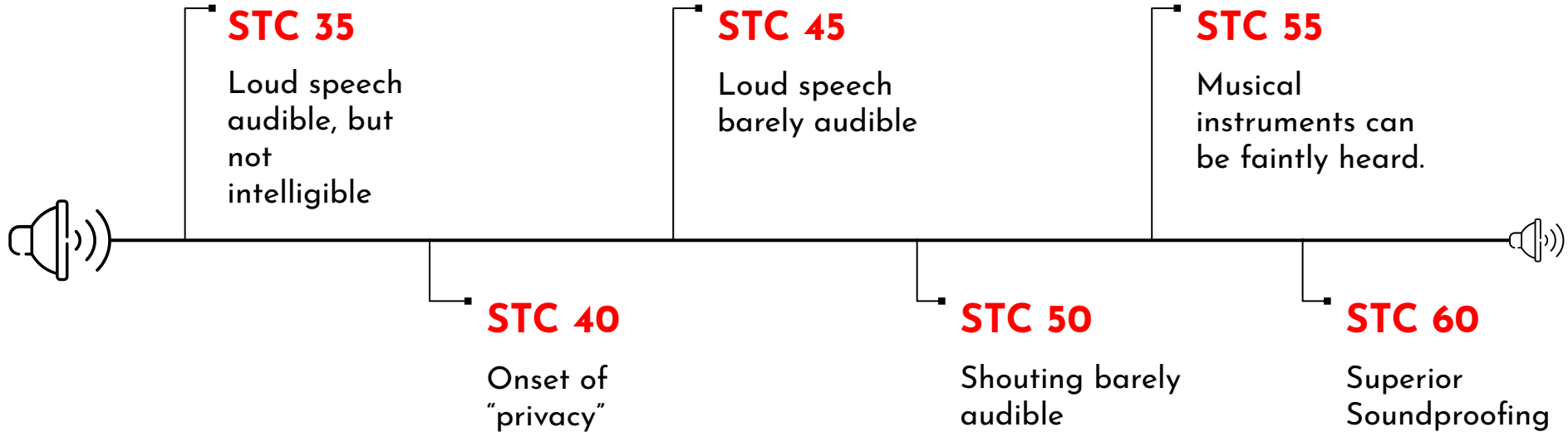
Recommended NICs

NIC 53
Teleconference
Room

NIC 48
Training Facilities
& Meeting Rooms

NIC 31-45
Private Offices

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Noise Isolation & Speech Privacy

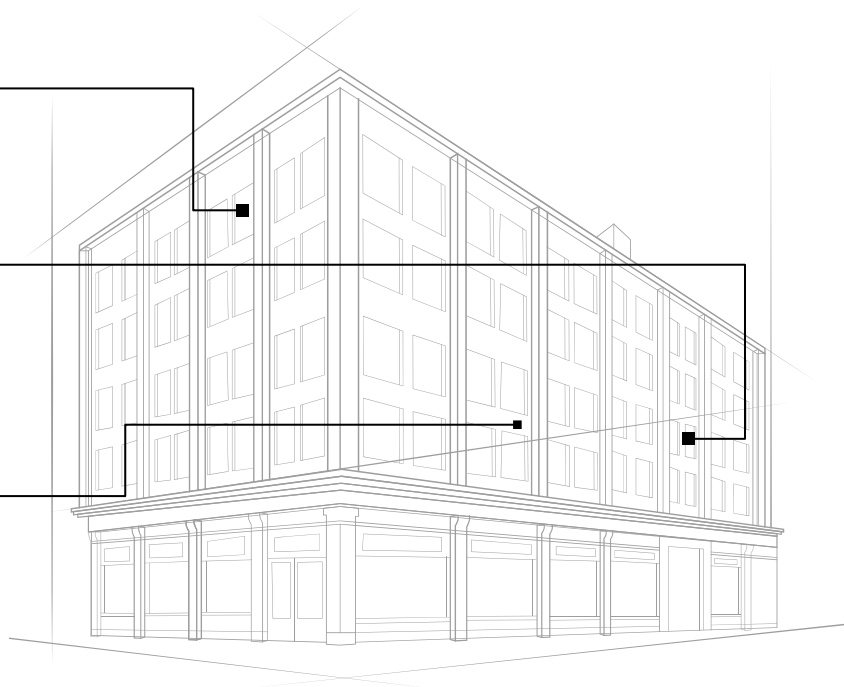| Table 3.1b Background Sound, Noise Isolation and Speech Privacy						
Space	Performance Level	Descriptor	Mechanical Noise (RC/NC)	Electronic Sound Masking Level (dBA)[1]	Minimum Noise Isolation (NIC)[2]	Minimum Privacy (PI/SPP)[3]
Training rooms	Baseline	Deskbound, interactive	30 min - 35 max	n/a	48	78 SPP
Meeting rooms	Tier 1	Frequent tele/video conferencing	25 min - 30 max	n/a	53	78 SPP
	Baseline	Infrequent tele/video conferencing	30 min - 35 max	n/a	48	78 SPP
	Baseline	Less than 6 person capacity	30 min - 35 max	n/a	45	75 SPP
Private offices	Tier 1	High speech privacy	35 max	40-42	45	85 SPP
	Baseline (masking)	Normal speech privacy, deskbound, concentrative	35 max	40-42	35	75 SPP
	Baseline (no masking)	Normal speech privacy, internally mobile, interactive	35 min - 40 max	n/a	40	75 SPP
Quiet rooms	Baseline (no masking)	Individual or small group, interactive	35 min - 40 max	n/a	45	80 SPP
	Baseline (masking)	Individual or small group, concentrative	35 max	40-42	40	80 SPP

Sound Absorption & Reverberation

Table 3.1a Sound Absorption and Reverberation					
Space	Performance Level	Descriptor	Ceiling (SAA/NRC)[1]	Walls (SAA/NRC)[2]	Time (Seconds) (RT60)[3]
Training rooms	Baseline	Deskbound, interactive	0.80/100%	0.8/25%	0.6
Meeting rooms	Tier 1	Frequent tele/video conferencing	0.90/100%	0.8/25%	0.5
	Baseline	Infrequent tele/video conferencing	0.80/100%	0.8/25%	0.6
	Baseline	Less than 6 person capacity	0.80/100%	n/a	0.6
Private offices	Tier 1	High speech privacy	0.85/100%	n/a	0.6
	Baseline (masking)	Normal speech privacy, deskbound, concentrative	0.8/100%	n/a	0.6
	Baseline (no masking)	Normal speech privacy, internally mobile, interactive	0.75/100%	n/a	0.6
Quiet rooms	Baseline (no masking)	Individual or small group, interactive	0.75/100%	n/a	0.6
	Baseline (masking)	Individual or small group, concentrative	0.75/100%	n/a	0.6
Misc. enclosed spaces	Baseline	Short occupancy, no speech privacy	0.70/100%	n/a	0.8
Open plan offices	Tier 1	High density occupancy, internally mobile or interactive	0.90/100%	0.8/25%	0.8
	Baseline	Low density occupancy, deskbound and concentrative	0.80/100%	n/a	0.8
Child care center	Baseline		0.90/100%	0.70/25%	0.5

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3.7
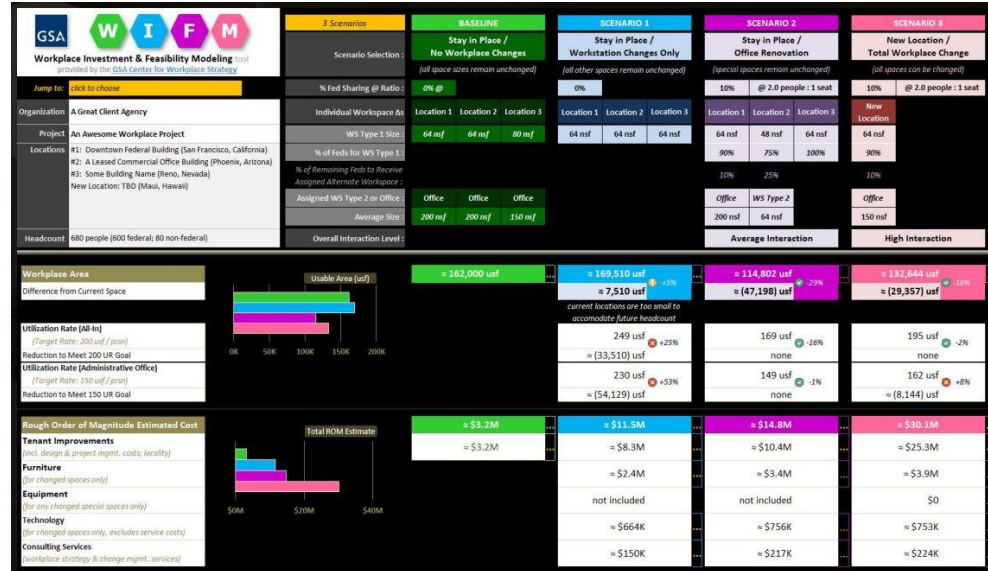
Workplace Performance Requirements

Workplace Investment & Feasibility Tool (WIFM)

Excel-based tool used to:

- Investigate strategies
- Explore co-location efficiencies
- Establish ROM
- Compare scenarios
- Jump start requirements

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Total Work(place) Scorecard

Located at SFTool.gov

Online interactive tool used to:
- Benchmark and measure *potential* workspace improvements

Previous version was Excel-based

Updated to include health and well-being

Progress Summary
View Instructions
% = percent complete

I. ENGAGEMENT   4/10 Points
1.1 Engagement   100 %

II. HEALTH, COMFORT and PERFORMANCE   34.64/50 Points
2.1 Air Quality   100 %
2.2 Thermal Comfort   100 %
2.3 Light   100 %
2.4 Acoustics   100 %
2.5 Physical and Musculoskeletal Health   100 %

III. WORKSPACE FLEXIBILITY, EQUITY, & MOBILITY   17.5/30 Points
3.1 Flexibility   100 %
3.2 Mobility & Connectivity   100 %
3.3 Equity   100 %

IV. SENSE OF PLACE   7.5/10 Points
4.1 Sense of place   100 %

V. EXTRA CREDIT   5.5/10 Points
5.1 Extra credit   100 %

69.14 / 100 total points

GSA

3.8

Workplace Performance Attributes

An Effective Workplace

Early Engagement Pays Dividends

Workspace

Real Estate

Human Performance

An Effective Workplace Strategy

Supplies & Equipment

Business Processes

Technology

GSA

Early Engagement is Best

PBS Project Lifecycle

| Identification	Initiation	Planning	Execution	Closeout	Operations
• **Strategic Requirements** *(high level project outcomes)* • Client Project Agreement	• **Functional Requirements** *(more refined requirements)* • early schedule and budget developed	• **Technical Requirements** *(incl. agency build-out requirements)* • obtain funding commitment	• **Final Requirements Package** • project award / design / construction	• final Inspections / punchlist • rent payments begin	• occupancy • continuous business relationship

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Balanced Scorecard Approach

*office, at home, and elsewhere

Balanced Scorecard Approach

Ensures all focus areas are considered equally
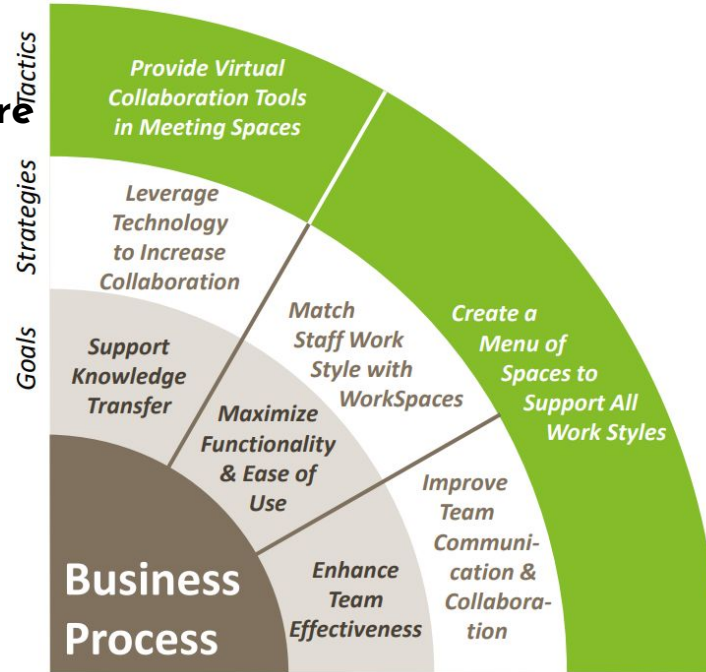
Thanks for your attention & interest!

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