

EASE Material Base Sorted by Classification

EASE Name	DOS Name	EASE Description	Notes
Reference Materials			
ABSORBER	absorber.mat	Totally Sound-Absorbing	EASE's default material
â = 10%	10%.mat	10% Sound Absorbing	All values .10
â = 20%	20%.mat	20% Sound Absorbing	All values .20
â = 30%	30%.mat	30% Sound Absorbing	All values .30
â = 40%	40%.mat	40% Sound Absorbing	All values .40
â = 50%	50%.mat	50% Sound absorbing	All values .50
â = 60%	60%.mat	60% Sound Absorbing	All values .60
â = 70%	70%.mat	70% Sound Absorbing	All values .70
â = 80%	80%.mat	80% Sound Absorbing	All values .80
â = 90%	90%.mat	90% sound absorbing	All values .90
MIRROR	mirror.mat	Ideal Sound Reflector	All values 0
LINEAR	linear.mat	linear Frequency Dependence	Linear increase in abs. from low to high frequencies
Common Construction, Walls			
CCLY BRICK	cclbrick.mat	Bricks compressed clay	Normal unpainted bricks
CLAY BRICK	claybrick.mat	Bricks clay	Normal unpainted bricks
CINDBLK R	cindblkr.mat	CINDER OR CONCRETE BLOCKS ROUGH	Careful, this is unpainted. Paint will drastically reduce the abs. coefficient.
CINDBLK S	cindblks.mat	CINDER OR CONCRETE BLOCKS SMOOTH	Careful, this is unpainted. Paint will drastically reduce the abs. coefficient.
CONCRETE R	concreter.mat	Concrete wall or floor (Rough)	Concrete rough, also rocks, ice for hockey rink before the Zamboni.
CONCRETE S	concretes.mat	Concrete wall or floor (Smooth)	Also Ice for hockey rinks after the Zamboni.
GYP 12.5MM	gyp125mm.mat	Plaster board 12.5mm on 3cm air	Gypsum Board, Sheetrock, Drywall, all the same stuff.
GYP 2X 5/8	gyp2x58.mat	CONSTRUCTION #8 2 LAYER 5/8"	Gypsum Board, Sheetrock, Drywall, all the same stuff.
GYP5/8CEIL	gyp58ceil.mat	5/8" THK MOUNTED 16" CNTR WITH GLS	Gypsum Board, Sheetrock, Drywall, all the same stuff.
GYP 9.5MM	gyp95mm.mat	Plaster board 9.5mm on 5cm air	Gypsum Board, Sheetrock, Drywall, all the same stuff.
GYPBRD 1/2	gypbrd12.mat	1/2" DRYWALL	Gypsum Board, Sheetrock, Drywall, all the same stuff.
GYPBRD 5/8	gypbrd58.mat	5/8" THK MOUNTED 16" CNTR WITH GLS	Gypsum Board, Sheetrock, Drywall, all the same stuff.
MARBLE	marble.mat	MARBLE	Marble
MASONRY PT	masonrypt.mat	MASONRY PAINTED	Painted bricks or concrete.
PNTD BRICK	pntdbrick.mat	UNGLAZED, PAINTED	Painted bricks or concrete.
PLAST/LTHR	plastlthr.mat	ROUGH FINISH ON LATH	Plaster on metal lath, basically concrete.
PLAST/LTHS	plastlths.mat	SMOOTH FINISH ON LATH	Plaster on metal lath, basically concrete.
PLAST/TILE	plasttile.mat	GYPSUM OR LIME SMOOTH FINISH ON TILE	Plaster on metal lath, basically concrete.
TILE, GLAZD	tileglazd.mat	GLAZED TILE	Floor or wall tile.
UNGL BRICK	unglbrick.mat	UNGLAZED	Unglazed bricks
WDPANEL 16	wdpanel16.mat	Wood panelled wall 16mm on 4cm air	5/8" wood paneling on furring strips
WDPANEL 18	wdpanel18.mat	Wood panelled wall 18mm on 4cm air	11/16" wood paneling on furring strips
Common Construction, Floors			
CARPT COMM	carptcomm.mat	COMMERCIAL GRADE CARPET	Commercial "level loop" carpet, minimal pad
CARPT CONC	carptconc.mat	Concrete floor with thin carpet	Commercial "level loop" carpet on concrete floor, no pad
CARPT HVY	carpthvy.mat	HEAVY ON CONCRETE	Residential carpet
CARPT INOT	carptinot.mat	INDOOR-OUTDOOR CARPET	The green stuff at Home Depot
CARPT LPAD	carptlpad.mat	LATEX BACKING ON 40 OZ HAIRFELT	Carpet with re-bond pad and vapor barrier.
CARPT PAD	carptpad.mat	ON 40 OZ HAIRFELT OR FOAM RUBBER	Carpet with re-bond pad
HARDWD CRT	hardwdcrt.mat	WOOD PARQUET IN ASPHALT ON CONCRETE	Wood tile floor
PARQT CON	parqtcon.mat	WOOD PARQUET IN ASPHALT ON CONCRETE	Wood tile floor
PARQUET FL	parquetfl.mat	Wooden parquet floor	Wood tile floor
TBLE TP WD	tbletpwd.mat	Wooden parquet floor	Wood tile floor
TILE, FLOOR	tilefloor.mat	LINOLEUM, ASPHALT, RUBBER, CORK TILE	Most any non-ceramic tile floor.
TERRAZZO	terrazzo.mat	CONCRETE OR TERRAZZO	Polished concrete flooring
WOOD FLR	woodflr.mat	Wooden floor on beams	T & G hardwood, can also be used as ceiling material.
WOODFLR CP	woodflrcp.mat	Wooden floor with thin carpet	T & G hardwood, with carpet over.
WOODFLR LN	woodflrln.mat	Wooden floor covered with linoleum	T & G hardwood, with linoleum flooring over.
WOOF LR CON	wooflrcon.mat	Wooden floor or linoleum on concrete	Hardwood, glued to concrete.
WOOF LR HWD	wooflrhwd.mat	HARDWOOD FLOOR ON BEAMS	T & G hardwood, can also be used as ceiling material.
Common Construction, Windows and Doors			
PLATGLS1/4	platglsl14.mat	1/4" PLATE GLASS	Heavy plate glass.
DOOR HOLLW	doorhollw.mat	Door	Hollow door, masonite or hardboard skinned.
DOOR SOLID	doorsolid.mat	Door, 1 3/4" SOLID CORE WOOD	Solid wood or steel door.
WIND GLASS	windglass.mat	ORDINARY WINDOW GLASS	Plain old window glass
WINDOW DS	windowds.mat	Double pane glass	Plain old window glass, double paned
WINDOW SP	windowsp.mat	Single pane glass	Plain old window glass
Common Construction, Ceilings			
ACDECK 1.5	acdeck15.mat	1.5" THK FBGLS 16GA PERF STL DECK	Steel acoustic decking, perforated with fiberglass over
ACDECK 2.5	acdeck25.mat	2" THK ACOUS DECK 16GA PERF STL DECK	Steel acoustic decking, perforated with fiberglass over
CIRRUS	cirrus.mat	CIRRUS CEILING MATERIAL ARMSTONG	Armstrong Ceiling tile. Sixteen inch/400 mm back space assumed.
CIRRUS 75	cirrus75.mat	CIRRUS 75 CEILING MATERIAL ARMSTONG	Armstrong Ceiling tile. Sixteen inch/400 mm back space assumed.
CORTEGA	cortega.mat	CORTEGA CEILING MATERIAL ARMSTONG	Armstrong Ceiling tile. Sixteen inch/400 mm back space assumed.
NUB CLG 1"	nubclg1.mat	1" NUBBY CEILING MATERIAL ARMSTRONG	Armstrong ceiling panels.
PEBBLEWOOD	pebblewood.mat	RESIDENTIAL CEILING MATERIAL .10NRC	Residential ceiling, glued on.
SANSERRA T	sanserrat.mat	SANSERRA TRAVERTONE	Armstrong Ceiling tile. Sixteen inch/400 mm back space assumed.
SBV CIRRUS	sbvcirrus.mat	SCORED BEVELED REGULAR CIRRUS	Armstrong Ceiling tile. Sixteen inch/400 mm back space assumed.
SNLKCORTG	sndlkcortg.mat	SECOND LOOK CORTEGA CEILING MATERIAL	Armstrong Ceiling tile. Sixteen inch/400 mm back space assumed.
TEG CIRRUS	tegcirrus.mat	REGULAR CIRRUS CEILING	Armstrong Ceiling tile. Sixteen inch/400 mm back space assumed.
TEXTURED	textured.mat	RESIDENTIAL CEILING MATERIAL .55NRC	Residential ceiling, glued on.
TUNDRA 1"	tundra1.mat	1" OPEN PLAN TUNDRA CEILING MATERIAL	Armstrong Ceiling tile. Sixteen inch/400 mm back space assumed.

ULTIMA	ultima.mat	ULTIMA CEILING MATERIAL ARMSTONG	Armstrong Ceiling tile. Sixteen inch/400 mm back space assumed.
Common Construction, Sheet Goods			
CHPBRD16MM	chpbrd16mm.mat	Chip board 16mm on 3cm air	Chipboard, also OSB. Thin panels supported only at edges
CHPBRD25MM	chpbrd25mm.mat	Chip board 25mm on 3cm air	Chipboard, also OSB. Thin panels supported only at edges
CHPBRD 8MM	chpbrd8mm.mat	Chip board 8mm on 3cm air	Chipboard, also OSB. Thin panels supported only at edges
FIB/BD AIR	fibbdair.mat	1/2" MOUNTED OVER 1" AIR SPACE	Fiberboard. Thin panels supported only at edges
FIB/BD PTD	fibbdptd.mat	1/2" MNT SOLID BCK SOME PAINTED	Fiberboard. Thin panels supported only at edges
FIB/BD UP	fibbdup.mat	1/2" MOUNTED/SOLID BACKING UNPAINTED	Fiberboard. Thin panels supported only at edges
FLEXBOARD	flexboard.mat	3/16" ASBESTOS MNT OVER 2" AIR SPACE	Panel supported only at edges
HARDBOARD	hardboard.mat	1/8" MOUNTED OVER 2" AIR SPACE	Door skin, Thin panels supported only at edges.
MASONITE	masonite.mat	1/2" MNT/OVER 1" AIR SPACE	Door skin, Thin panels supported only at edges.
PLYWD 1/2	plywd12.mat	1/2" THICK OVR/2"4" AIR SP.	Panel supported only at edges
PLYWD 1/4	plywd14.mat	1/4" MNT/OVR 3" AIR SPACE	Panel supported only at edges
PLYWD 2"	plywd2.mat	2"GLUED TO 2 1/2" PLASTER ON LATH	Might as well be concrete
PLYWD 3/8	plywd38.mat	3/8"	Panel supported only at edges
PLYWD 6MM	plywd6mm.mat	Plywood panelling 6mm on 5cm air	Panel supported only at edges
STEEL	steel.mat	steel	Fairly heavy sheet steel
Insulation, Common			
3" FIB INSL	3fibinsl.mat	FIBGLS FACED W KRAFT PAPER 3.5"THK	Pink stuff, R11, Kraft paper towards noise.
6" FIB INSL	6fibinsl.mat	FIBGLS FACED W KRAFT PAPER 6"THK	Pink stuff, R19, Kraft paper towards noise.
CELOTEX	celotex.mat	1"THK AP INSULATION W/FOIL SURFACE	Rigid fiberglass board w/vapor barrier
FIB/GLS 1"	fibgls1.mat	AF 100 1" MOUNTING 4	Rigid fiberglass board, Owens Corning 703 or equal.
FIB/GLS1"A	fibgls1a.mat	AF 530 1" MOUNTING 4	Rigid fiberglass board, Owens Corning 703 or equal.
FIB/GLS 2"	fibgls2.mat	AF 100 2" MOUNTING 4	Rigid fiberglass board, Owens Corning 703 or equal.
FIB/GLS2"A	fibgls2a.mat	AF 530 2" MOUNTING 4	Rigid fiberglass board, Owens Corning 703 or equal.
FIB/GLS4"A	fibgls4a.mat	AF 530 4" MOUNTING 4	Rigid fiberglass board, Owens Corning 703 or equal.
Seating, Occupied			
PUB IN WDP	pubinwdp.mat	CONGREGATION IN WOODEN PEWS	People sitting in wooden pews, fully occupied
PUBLIC TKC	publictkc.mat	Public on thick upholstered chairs	People sitting in well upholstered chairs, fully occupied
PUBLIC TNC	publictnc.mat	Public on thin upholstered chairs	People sitting in lightly upholstered chairs, fully occupied
PUBLIC WC	publicwc.mat	Public on wooden chairs	People sitting in un-upholstered chairs, fully occupied
STDNTS WC	stdntswc.mat	STUDENTS IN WOODEN SEATS	Some grad student measured his friends.
Seating, Unoccupied			
MTSEAT FAB	mtseatfab.mat	FAB.WELL UPOLST. SEATS UNOCCUP	Empty seats, fabric (get it, M T Seat ... say it aloud)
MTSEAT LTH	mtseatlh.mat	LEATHER UPOLST SEATS UNOCCUP	Empty seats, leather
MTSEAT WD	mtseatwd.mat	CHAIR,METAL OR WOOD UNOCCUP	Empty seats, wood
Acoustical Treatments, Generic			
ACOUSTILE	acoustile.mat	SUFACE TILE GLAZED/PERFORATED(AIR)	Generic acoustic tile, glue on, the kind with big perforations.
AC PLASTER	acplaster.mat	1/2" Thick Zonolite	Generic acoustical plaster.
DRAPE MED	drapedmed.mat	Draperies medium	Draped to 1/2 area; i.e. 20 feet of drapes over 10 feet of surface.
DRAPE THIN	drapedthin.mat	Draperies thin	Draped to 1/2 area; i.e. 20 feet of drapes over 10 feet of surface.
DRAPE THK	drapedthk.mat	Draperies thick	Draped to 1/2 area; i.e. 20 feet of drapes over 10 feet of surface.
GLS/WL 1"	glswl1.mat	1" MNT/SOLID BACKING COVERED/FABRIC	Glass wool
GLS/WL 2"	glswl2.mat	MNT 1" AIR SPACE OPEN WEAVE	Glass wool
Plaster20_0.5	plaster20_0.5.m	Absorbion Coefficient 0.5 Zoll	Generic acoustical plaster.
Plaster20_1_0.25	plaster20_1.25	Absorbion Coefficient 1 1/4 Zoll	Generic acoustical plaster.
Plaster20_1	plaster20_1.mat	Absorbion Coefficient 1 Zoll	Generic acoustical plaster.
ROCKWOOL 1	rockwool1.mat	2" THICK MNT/SOLID BCK	Rock Wool is also called Mineral Wool; made from furnace slag.
ROCKWOOL 2	rockwool2.mat	MOUNTED OVER 1" AIR SPACE	Rock Wool is also called Mineral Wool; made from furnace slag.
ROCKWOOL 3	rockwool3.mat	MOUNTED OVER 2" AIR SPACE	Rock Wool is also called Mineral Wool; made from furnace slag.
SPRAY ACOU	sprayacou.mat	SPRAYED CELLULOSE FIBERS 1" ON CONC	Spray on cellulose fiber insulation. This is not ICC K13.
URETH PANE	urethpane.mat	1"THK URETHANE FOAM PANEL	Packing foam. Remove from room before it catches fire.
VELOUR HVY	velourhvy.mat	HEAVY 18oz DRAPED TO 1/2 AREA	Theatrical borders
VELOUR LT	velourlt.mat	LIGHT (10 oz) HUNG TOUCHING WALL	Theatrical borders
VELOUR MED	velourmed.mat	MED. 14oz DRAPED TO 1/2 AREA	Theatrical borders
Acoustical Treatments, Commercial Products, by Vendor			
Armstrong			
NUB WALL1"	nubwall1.mat	1" NUBBY WALL MATERIALS ARMSTRONG	Armstrong wall panels.
SS60FR701A	ss60fr701a.mat	SS60 FR701A WALL MATERIALS ARMSTRONG	Armstrong wall panels.
SS85CLASSC	ss85classc.mat	SS85 CLASSIC VINYL WALL MATERIALS	Armstrong wall panels.
SS85FR701A	ss85fr701a.mat	SS85 FR701A WALL MATERIALS ARMSTRONG	Armstrong wall panels.
Illbruck			
SONEX 2"	sonex2.mat	SONEX 2" THICK ON FLOOR	Convuluted foam, "egg crate" style.
SONEX 3"	sonex3.mat	SONEX 3" THICK ON FLOOR	Convuluted foam, "egg crate" style.
SONEX 4"	sonex4.mat	SONEX 4" ON FLOOR	Convuluted foam, "egg crate" style.
MBI			
BAFL 1"15F	baf115f.mat	1"X1.5# W/FABRIC COVER	Hanging acoustical baffle.
BAFL1"3P2M	baf113p2m.mat	1"THK 3#CORE W/2MIL PLASTIC COVER	Hanging acoustical baffle.
BAFL1.5"15	baf11515.mat	1.5"THK 1.5LB CORE W/2MIL PLAS COVER	Hanging acoustical baffle.
BAFL2"15P	baf1215p.mat	2"THK 1.5LB CORE W/2MIL PLAS COVER	Hanging acoustical baffle.
BAFL2"15P3	baf1215p3.mat	2"THK 1.5LB CORE W/3MIL PLAS COVER	Hanging acoustical baffle.
BAFL2" 2F	baf122f.mat	2"THK 2LB CORE FABRIC COVERED	Hanging acoustical baffle.
BAFL2"2PP	baf122pp.mat	2"THK 2LB CORE W/2MIL PERF PLAS COVE	Hanging acoustical baffle.

COLORSON1	colorson1.mat	1"THK#6 CORE FABRIC COVERED PANEL	Wall panel, fabric covered rigid fiberglass One inch thick.
COLORSON2	colorson2.mat	2"THK #6CORE FABRIC COV PANEL	Wall panel, fabric covered rigid fiberglass. Two inches thick.
2" LAPNDRY	2lapndry.mat	2"THK .75LB 3MIL PERF PLAS COVER	Hanging acoustical baffle.
4" LAPNDRY	4lapndry.mat	4"THK .75LB 3MIL PERF PLAS COVER	Hanging acoustical baffle.
PILLOWBAFL	pillowbaf1.mat	PILLOBAFFLE 1" THK MOUNTED HANGING	Hanging acoustical baffle.
RPG			
2DGYD DIFF	2dgyd1diff.mat	RPG 2 DEMENSIONAL GYPSUM DIFFUSOR	Diffuser
ABBFUSOR	abffusor.mat	RPG FABRIC WRAP ABS/DIFF PANEL	Diffuser
ABS BLOCK	absblock.mat	GLZD TILE,RAND PERF 8"X16" TILES/GLS	Absorber/Diffuser concrete block.
DIF BLK1	difblk1.mat	RPG CONCRETE DIFFUSER BLK UNPAINTED	Absorber/Diffuser concrete block.
DIF BLK2	difblk2.mat	RPG CONCRETE DIFFUSER BLK PAINTED	Absorber/Diffuser concrete block.
DIFFRACTAL	diffractal.mat	RPG WOOD ONE DIMENSIONAL DIFFRACTAL	Diffuser
FLUTTER	flutter.mat	RPG WOOD ONE FLUTTER CONTROL MOULDNG	Diffuser
OMNIFUSOR	omnifusor.mat	2-D DIFFUSOR	Diffuser
QUAD DIFSR	quaddifsr.mat	RPG THERMOFORMED QUADRATIC DIFFUSOR	Diffuser
QUAD R DIF	quadrdif.mat	RPG WOOD QUADRATIC RESIDUE DIFFUSOR	Diffuser
QUAD T DIF	quadtif.mat	RPG CLR PLAS QUADRATIC RESIDUE DIFFU	Diffuser
PYRMID DIF	pyrmiddif.mat	RPG PYRAMIDAL DIFFUSOR	Diffuser
Tectum			
TECTUM109	tectum109.mat	1" on 2X2 WITH 21/2" R8 NOISE BARRR	Compressed wood fiber absorber panel. Impact resistant.
TECTUM1.5A	tectum15a.mat	1.5" ON A MTG	Compressed wood fiber absorber panel. Impact resistant.
TECTUM15C4	tectum15c4.mat	1.5" ON C-40 MTG	Compressed wood fiber absorber panel. Impact resistant.
TECTUM15D2	tectum15d2.mat	1.5" ON D-20 MTG	Compressed wood fiber absorber panel. Impact resistant.
TECTUM1A	tectum1a.mat	1" on A MTG	Compressed wood fiber absorber panel. Impact resistant.
TECTUM1C20	tectum1c20.mat	1" on C-20 MTG	Compressed wood fiber absorber panel. Impact resistant.
TECTUM1C40	tectum1c40.mat	1" on C-40 MTG	Compressed wood fiber absorber panel. Impact resistant.
TECTUM1D20	tectum1d20.mat	1" on D-20 MTG	Compressed wood fiber absorber panel. Impact resistant.
TECTUM2C40	tectum2c40.mat	2" ON C-40 MTG	Compressed wood fiber absorber panel. Impact resistant.
TECTUM2CA	tectum2ca.mat	2" ON A MTG	Compressed wood fiber absorber panel. Impact resistant.
TECTUM2D20	tectum2d20.mat	2" ON D-20 MTG	Compressed wood fiber absorber panel. Impact resistant.
Acoustical Treatments, Shop Built			
500HZPANEL	500hzpanel.mat	500 Hz Helmholtz Resonator w/f	See "Master Handbook of Acoustics, 4th ed." for construction details.
PERFPANEL1	perfp1.mat	perfp1 .18% on 8" cavity w/4"f	See "Master Handbook of Acoustics, 4th ed." for construction details.
PERFPANEL2	perfp2.mat	perfp2 .79% on 8" cavity w/4"f	See "Master Handbook of Acoustics, 4th ed." for construction details.
PERFPANEL3	perfp3.mat	perfp3 1.4% on 8" cavity w/4"f	See "Master Handbook of Acoustics, 4th ed." for construction details.
PERFPANEL4	perfp4.mat	perfp4 8.7% on 8" cavity w/4"f	See "Master Handbook of Acoustics, 4th ed." for construction details.
PERFPANEL5	perfp5.mat	perfp5 .18% on 4" cavity w/2"f	See "Master Handbook of Acoustics, 4th ed." for construction details.
PERFPANEL6	perfp6.mat	perfp6 .79% on 4" cavity w/2"f	See "Master Handbook of Acoustics, 4th ed." for construction details.
PERFPANEL7	perfp7.mat	perfp7 1.4% on 4" cavity w/2"f	See "Master Handbook of Acoustics, 4th ed." for construction details.
PERFPANEL8	perfp8.mat	perfp8 8.7% on 4" cavity w/2"f	See "Master Handbook of Acoustics, 4th ed." for construction details.
Other Materials			
BED	bed.mat	BED, HOSPITAL OR SINGLE	
GRASS	grass.mat	GRASS,MARION BLUEGRASS 2" HIGH	
GRAVEL	gravel.mat	GRAVEL, LOOSE MOIST 4" THK	
LAKE/POND	lakepond.mat	LAKE MODERATLY SMOOTH	
POOL/SWIM	poolswim.mat	SWIMMING POOL	
SNOW	snow.mat	SNOW, FRESHLY FALLEN 4" THK	
SOIL	soil.mat	SOIL,ROUGH	
TREES	trees.mat	TREES,FIRS 20 SQ FT GRD AREA PERTREE	
Unknown, no details			
WOOD GRID0	woodgrid0.mat	Wooden grid 90/15mm on 6cm air + gw	No details available
WOOD GRID1	woodgrid1.mat	Wooden grid 35/15mm on 2cm air	No details available
WOOD GRID1	woodgrid1.mat	Wooden grid 35/15mm on 2cm air	No details available
WOOD GRID2	woodgrid2.mat	Wooden grid 35/15mm on 2cm glasswool	No details available
WOOD GRID3	woodgrid3.mat	Wooden grid 35/15mm on 40cm air	No details available
WOOD GRID4	woodgrid4.mat	Wooden grid 35/15mm on 40cm glasswo	No details available
WOOD GRID5	woodgrid5.mat	Wooden grid 60/15mm on 40cm air + gw	No details available
WOOD GRID6	woodgrid6.mat	Wooden grid 120/15mm on 40cm glassw.	No details available
WOOD GRID7	woodgrid7.mat	Wooden grid 90/15mm on 40cm air + gw	No details available
WOOD GRID8	woodgrid8.mat	Wooden grid 90/15mm on 40cm air only	No details available
WOOD GRID9	woodgrid9.mat	Wooden grid 90/15mm on 6cm air only	No details available