# 08 11 13 Hollow Metal Doors and Frames

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+ollo) metal doors and !rames shall com#ly ) ith <ational *ssociation o! *rchitectural " etal " anu!acturers * <S30< * * " " + " " * =811>8 ?@uide S#eci!ications !or Commercial +ollo) " etal oors and FramesA, and must also com#ly ) ith * <S- U: 11>2, 1>C and 1B=C' Fire rated door-0.958493(t) 5.734d a602574(a) 0.5 Firrchhötai $45025(125) 0.73401255(107)(-5) - C31251(48)70(r5)*44.48051((rB)) 2023
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# 08 12 16 luminum Frames

# 08 1! 16 Flus " #ood Doors

Flush ) ood doors shall com#ly ) ith F indo ) and oor " anu!acturers \* ssociation \$F " \*% -'S' 1 \* 6>11'

Unless s#eci!ied other) ise, interior doors shall be solid core) ood doors) ith) ood veneer!aces or!actory!inished' 3btain!lush) ood doors!rom single manu!acturer and single su##lier'

\*Il doors are to be installed ) ith hollo ) metal !ra

Plastic laminate i! s#eci!ied shall con!orm to < , " \* +P :'

-nterior ) ood doors shall carry a li!etime ) arranty by the door manu!acturer' The ) arranty shall include veneer delamination and ) ar#ing'

Submit manu!acturer;s standard ) arranty !orm in ) hich manu!acturer agrees to re#air or re#lace doors that !ail in materials or ) or/manshi# !or the li!e o! installation' Failures include, but are not limited to Far#ing \$bo), cu#, or t) ist% more than 10C inch in a C61by1=C1inch section telegra#hing o! core construction in !ace veneers exceeding >'>1 inch in a 71inch s#an' The ) arranty shall also include installation and !inishing o! re#lacement doors'

### 08 31 13 \$\$ess Doors and Frames

Provide access doors ) here indicated and at the !ollo ) ing locations#

- 1' -n ) alls to #rovide access to valves, reset buttons, controls manometers, #lumbing !ittings at toilets, mechanical !ilter ban/s, mechanical access hatches, areas re(uiring ) or/ access !or unit re#lacement and other areas re(uiring access !or o#timal o#eration and maintenance o! e(ui#ment or !ittings'
- 6' -n ceilings to #rovide access to valves, duct dam#ers, !ire and smo/e dam#ers, meters, registers, +9 \* C !ilter units, remote duct dam#ers, remote !ire dam#ers, remote electrical \*unction boxes, access hatches and other areas re (uiring access !or o#timal o#eration and maintenance o! e (ui#ment or !ittings'

S#eci!y !ire1rated access doors ) here re (uired in !ire1rated assemblies'
-nstall doors !lush ) ith adlacent !inish sur!aces or recessed to receive !inish material'
S#eci!y !or each door !ace material, a #roduct submittal o! at least 7 by G inches in si4e, in s#eci!ied !inish'

3 btain each ty#e o! access door and !rame !rom single source !rom single manu!acturer'

### 08 33 13 %oiling %ounter Doors

## 08 33 23 O&er "ead %oiling Doors

#### 08 36 13 'e\$tional Doors

## 08 !1 13 luminum Framed (ntran\$es and 'torefronts

, ntrances shall com#ly ) ith a##licable #rovisions in the U'S' \*rchitectural 5 Trans#ortation 2arriers Com#liance 2oard;s \* \*1\*2\* \*ccessibility @uidelines, T\*S, T : . , and -CC0\* < S-\*11B'1' TTUS FPBC standard is ) ide stile doors'

Pairs o! double doors shall have a removable mullion ) ith electric stri/e unless a##roval is given by Texas Tech to deviate !rom this re(uirement'

@lass in entrances and store!ronts shall be !ully tem#ered \$FT% sa!ety ty#e, tinted ) ith lo ) , Coatings'

, ntrances ) ill be designed to ) ithstand ) ind loads #er F " @lobal's recommendations' S#eci!y that the installer ) ill be a manu!acturer;s authori4ed re#resentative ) ho is trained and a##roved !or installation o! units re (uired !or this #rolect' . e!erences shall be #rovided u#on re (uest'

9erily actual locations o! structural su##orts !or aluminum1!ramed systems by !ield measurements be!ore !abrication and indicate measurements on Sho# ra ) ings'
Submit manu!acturer;s standard ) arranty !orm in ) hich manu!acturer agrees to re#air or

re#lace com#onents o! aluminum1!ramed systems that do not com#ly ) ith re(uirements or that !ail in materials or ) or/manshi#!or G years !rom substantial com#letion or #er manu!acturer's standard ) arranty ) hichever is greatest'

3 btain aluminum !ramed entrances and store!ronts !rom single manu!acturer and single su##lier'

# 08 !! 13 Gla)ed luminum %urtain #all

# 08 \*1 13 luminum #indows

Provide !ixed non1o#erable aluminum ) indo ) assemblies throughout the #rolect' The TTU cam#us standard is , FC3 Series 88>> or a##roved e(ual) ith Tech-vory or clear anodi4ed aluminum !inish' 3#erable ) indo ) s ) ill only be s#eci!ied #er the 3) ner re(uest'

Facilities Planning and Construction

Division 08

TTU University and TTU Police'

3 ther !inishes may be considered but ) ill be sublect to a##roval by the o) ner'
The function of mortise locks will be stan ar i!e as follows"

	Sargent	Corbin0 . uss ) in
	=6>>	":66>>
Service0Storeroom	>C	GB
3!!ice	GG	G1
Passage	1G	1>
ormitory	6G	8G
Classroom	7B	GG
, ntrance	C7	8B
2athroom	8G	6>

The function of Sargent #0 line c\$lin rical locks will be as follows"

Service0Storeroom	1>@>C
3!!ice	1>@>G
Passage	1>@1G
ormitory	1>@6G
Classroom	1>@7B
2athroom	1>@8G

3 ther !unctions desired, but not listed, shall be selected !rom the same series designated in sections \$8% and \$B%, and shall have the a##roval o! the "anaging irector o! Physical Plant' @eneral guidelines !or !unction selection#

- 1' 3#eration o! the inside lever shall al) ays automatically retract all loc/ing mechanisms to allo) exit !rom the s#ace' The only exce#tions are dead bolt loc/s o#erated by thumb turns and0or /eyed cylinders on doors bet) een rooms and not classi!ied as exit doors'
- 6': imited access areas such as e(ui#ment storage areas, stoc/ rooms, mechanical e(ui#ment rooms, etc', should be e(ui##ed) ith loc/s) ith a rigid lever !unction to ensure that the door is al) ays loc/ed) hen closed and is o#erable! rom the outside) ith /ey only and inside by the lever' These doors may or may not be e(ui##ed) ith door closers, de#ending on room!unction'\* II mechanical e(ui#ment rooms and custodial rooms shall be e(ui##ed) ith rigid outside lever! unction' The outside lever shall also be /nurled' These rooms shall also be e(ui##ed) ith a door closer'
- 7' \*reas re(uiring higher security should be e(ui##ed) ith loc/s having dead bolt

Division 08 - C	)peninas
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!unctions and ) ithout toggle or #ush button o#tions' The loc/s should be loc/ed or

acce#table items'

Deying o! buildings, areas ) ithin buildings, or individual s#aces shall be designated by the building user in coordination ) ith the University : oc/ Sho#' \*II loc/s in ne) construction, renovations, or re1/eying #rolects shall be /eyed to the Sargent restricted /ey) ay as designated by the Security Systems "anager' <o exce#tions) ill be considered !or the Sargent restricted /ey) ay' \*II contractor su##lied loc/sets, exit devices and other /eyed hard) are shall be su##lied ) ith Sargent restricted /ey) ay cylinders' The TTU: oc/ Sho# shall assign those restricted /ey) ays' The only exce#tion to this ) ould be in small renovation or remodel #rolects, ) ith the a##roval o! the Texas Tech University :oc/ Sho#' \*II #ermanent loc/ cylinders and associated com#onents ) ill be removed !rom the hard ) are and delivered to the TTU :oc/ Sho# !or /eying and installation by the University : oc/ Sho#' Contractors shall use test cylinders on all /eyed hard) are to insure #ro#er!it o! the #ermanent cylinders in the hard) are' Contractors shall #rovide tem#orary cylinders !or security during construction' Submit manu!acturer;s standard ) arranty !orm in ) hich the manu!acturer agrees to re#air or re#lace com#onents o! door hard) are that !ail in materials or ) or/manshi# ) ithin the s#eci!ied ) arranty #eriod' Failures include, but are not limited to structural !ailures including excessive dellection, crac/ing, or brea/age, !aulty o#eration o! doors and door hard) are, and deterioration o! metals, metal !inishes, and other materials beyond normal ) eathering and use' The ) arranty #eriod shall be three years !rom date o! Substantial Com#letion, unless other ) ise indicated belo) H

- 1', xit devices 6 years !rom date o! Substantial Com#letion'
- 6' "anual closers# 1> years !rom date o! Substantial Com#letion'

2eginning at Substantial Com#letion, #rovide t) elve months !ull maintenance by s/illed em#loyees o! door hard) are -nstaller' -nclude (uarterly #reventive maintenance, re#air or re#lacement o!) orn or de!ective com#onents, lubrication, cleaning, and adjusting as re(uired !or #ro#er door and door hard) are o#eration' Provide #arts and su##lies that are the same as those used in the manulacture and installation(i) 4.19291(o) 0.590251(n) 0.590251(!) -5.162.7406(d) 11.4

Division 08 - Openings
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08 00 00 Gla)ing

, xterior insulated gla4ed units \$-@U% are re(uired to meet current ado#ted , nergy Code #er!ormance re(uirements as regulated by the State , nergy Conservation 3!!ice \$S, C3%' htt##00))) 'seco'c#a'state'tx'us0tbec0state!unded'#h#

@lass !or exterior insulated gla4ed units \$-@U% a##lications shall be tem#ered', xterior insulated gla4ed units are not re(uired to be gas1!illed but are to have a :o)1, coating a##lied to the L6 sur!ace o! the exterior #ane o! glass':o)1, coating is to be #rovided) ith the #yrolytic a##lication #rocess'

Consideration !or s#utter coated :o)1, glass may be given by the FP5C Prolect Team i! #ro#osed glass meets aesthetic design intent characteristics relative to color, transmittance and re!lectance', xterior #ane visible light re!lectance shall not exceed\_\_\_\_\_\_M', xterior insulated glass units are to exhibit a slight gray tint \$, xam#le# 9iracon 9<, 1J187 Crystal @ray%' 3) ner ) ill a##rove glass color, tint and re!lectance !rom gla4ing sam#les and #rolect moc/u#s' Submit a manu!acturer's standard) arranty !orm in) hich manu!acturer agrees that the original glass in the ) indo) s and doors) ill be !ree !rom !ailure o! the air seal or any other de!ects) hich obstructs vision through the glass or a!!ects the insulating (ualities !or a #eriod o! 1> years' The guarantee shall not cover glass brea/age !rom #hysical abuse, earth (ua/e, storm, or similar causes'

Consideration should also be given to the use o! tinted glass, sunshade materials, and any other devices that ) ill #revent excessive solar gain'

Fire glass ) hich is s#eci!ied to have Under) riters' : aboratory's a##roval shall have the label le!t on the glass' Texas Tech ) ill remove the labels a!ter acce#tance o! the building' irection o! ) ire \$i'e', hori4ontal0vertical or diagonal% shall be s#eci!ied by the \*rchitect'

#### 08 83 00 Mirrors

Submit descri#tion o! materials and #rocess used to #roduce each ty#e o! silvered !lat glass mirror s#eci!ied that indicates sources o! glass, glass coating com#onents, edge sealer, and (uality1control #rovisions'

Submit to use a (uali!ied installer ) ho em#loys glass installers !or this Prolect ) ho are certi!ied under the <ational @lass \*ssociation;s Certi!ied @lass -nstaller Program'

3 btain mirrors !rom single source !rom single manu!acturer'

o not install mirrors until ambient tem#erature and humidity conditions are maintained at levels

indicated !or !inal occu#ancy'

Submit a manulacturer;s standard ) arranty lorm in ) hich mirror manulacturer agrees to re#lace mirrors that deteriorate ) ithin s#ecilied ) arranty #eriod' eterioration ol mirrors is delined as delects develo#ed !rom normal use that are not attributed to mirror brea/age or to maintaining and cleaning mirrors contrary to manulacturer;s ) ritten instructions' elects include discoloration, blac/ s#ots, and clouding ol the silver !ilm' F arranty #eriod shall be G years !rom date ol Substantial Com#letion'

S#eci!y to install mirrors in com#liance ) ith mirror manu!acturer;s ) ritten instructions and ) ith re!erenced @ \* < \* #ublications' " ount mirrors accurately in #lace in a manner that avoids distorting re!lected images and com#lies ) ith \* \*, and T\*S'

## 08 88 13 Fire Resistant Gla)ing

## 08 ,11, Fi-ed .ou&ers