



SPRING

COMMITTEE MEETING

March 21-22, 2023 | Phoenix, AZ



#NFRCMeetings



IGSDB update

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IGSDB work continuing

- ▶ <https://igsdb.lbl.gov>
- ▶ Request a test account from Robin
- ▶ Updates to IGSDB viewer
 - ▶ Matching IGDB V90
 - ▶ WINDOW Glass Library update from IGSDB without downloading from our window.lbl.gov/software website
 - ▶ Updated API documentation



Web interface for browsing the database

IGSDB

Products About Docs Analytics Account

Glazing Shading Download Glazing Records

Drag here to set row groups

ID	NFRC...	Name	Manufacturer *	Appearance *	Type *	IGDB Version *	Acceptance
361	100	Generic Bronze Glass	Generic	Bronze	monolithic	11.4	#
362	101	Generic Bronze Glass	Generic	Bronze	monolithic	11.4	#
363	102	Generic Clear Glass					
364	103	Generic Clear Glass					
365	104	Generic Grey Glass					
9923	105	Generic thin glass 0.6 mm					
9922	106	Generic thin glass 0.75 mm					
9924	107	Generic thin glass 1.1 mm					
11452	108	Generic thin glass 0.5 mm					
11454	109	Generic thin glass 1.5 mm					
11455	110	Generic thin glass with low-e 0.5 mm					
11451	111	Generic thin glass with low-e 0.75 mm					
11453	112	Generic thin glass with low-e 1.1 mm					
11450	113	Generic thin glass with low-e 1.5 mm					

All Products > Comfort E² on Clear

DOWNLOAD

Name	Comfort E ² on Clear
NFRC ID	906
Manufacturer	AGC Glass Co. N.A.
Type	coated-glass
Filename	CMFTE2_2.AFG
Acceptance	#
Coated Side	Front
Coating Name	Comfort E ² LowE
Emissivity front	0.2042575
Emissivity back	0.84
TIR front	0.0
TIR back	None
Appearance	Clear
DB Version	11.4
Thickness	2.1844
Conductivity	1.0
Specular	Yes
Tf Sol	0.7074331
Rf Sol	0.1160435
Rb Sol	0.1034448
Tf Vis	0.8343897
Rf Vis	0.09608006

Wavelength Data Spectrum ☒ .3 to 2.5 microns ☐ .3 to .8 microns ☐ 2 to 7 microns ☐ 0 to 40 microns

Wavelength (microns)

Legend: Rb (blue), Rf (green), Tf (yellow)

Web based submission and checking interface

- ▶ Now good enough it will be used to validate files before getting validated by our old tool
- ▶ We still need to add account management before we can open up to beta testing
- ▶ IGSDb and IGDB will exist in parallel until we can scrap IGDB

Current hurdles

- ▶ Dealing with legacy files
- ▶ Handling other edge cases that were hard to predict

pyWinCalc

- ▶ Python package/interface to use the calculation code used by WINDOW
- ▶ Download from GitHub:
<https://github.com/LBNL-ETA/pyWinCalc>
- ▶ Python is considered by many to be easier to use and run your own custom code compared to using the C++ code WINDOW is running

Thanks!

Any questions?

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