EnerSave®

Uncoated IGUs

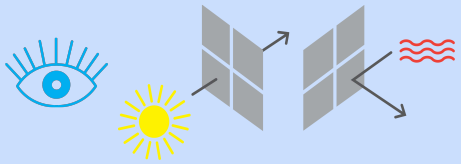
Insulation

PERFORMANCE DATA

PRODUCT CONSTRUCTION			LIGHT TRANSMISSION		LIGHT REFLECTANCE			U VALUE- SI		UV Trans	SHGC
					OUTDOOR		INDOOR	WINTER			
OUTDOOR LITE	INDOOR LITE	MAKE-UP	VISIBLE (%)	SOLAR (%)	VISIBLE (%)	SOLAR (%)	VISIBLE (%)	AIR	ARGON		
EnerSave® Clear											
Clear float	Clear float	4/12/4	80	69	15	13	15	2.7	2.6	0.58	0.75
		5/12/5	79	63	15	12	15	2.7	2.5	0.47	0.72
		6/12/6	78	62	15	12	15	2.7	2.5	0.44	0.71
		8/12/6	77	57	14	11	14	2.7	2.5	0.41	0.66
		10/12/6	76	54	14	10	14	2.7	2.5	0.39	0.64
		12/12/6	75	51	14	10	14	2.7	2.5	0.37	0.61
Clear Lam	Clear float	6.38/12/6	78	58	15	12	15	2.7	1.6	<0.01	0.67
		10.38/12/6	77	55	14	11	15	2.7	1.6	<0.01	0.65
EnerSave® Grey											
Grey float	Clear float	4/12/4	50	46	8	8	13	2.7	2.6	0.25	0.55
		5/12/5	42	37	7	7	12	2.7	2.5	0.18	0.49
		6/12/6	37	33	7	7	12	2.7	2.5	0.15	0.45
		10/12/6	23	21	5	5	12	2.7	2.5	0.11	0.36
		12/12/6	18	16	5	5	11	2.7	2.5	0.08	0.31
6.38 Grey Lam	Clear float	6.38/12/6	37	36	7	7	13	2.7	2.5	<0.01	0.49
SuperGrey	Clear float	6/12/6	8	6	4	4	11	2.7	2.5	0.01	0.21
EnerSave® Obscure											
Translucent Lam	Clear float	**6.38/12/6**	**60**	**47**	**11**	**9**	**14**	**2.7**	**2.5**	**<1**	**0.58**

NB - Performance values for center of glass calculated using LBNL Window 7.3 based on NFRC 100 environmental conditions

GLASSWORKS



EnerSave®Plus

Clear Pyrolytic Low-E IGUs (ETech™ & EVantage™)

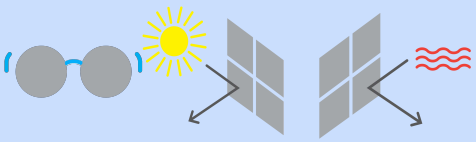
Insulation

PERFORMANCE DATA

PRODUCT CONSTRUCTION			LIGHT TRANSMISSION		LIGHT REFLECTANCE			U VALUE- SI		UV Trans	SHGC
					OUTDOOR		INDOOR	WINTER			
OUTDOOR LITE	INDOOR LITE	MAKE-UP	VISIBLE (%)	SOLAR (%)	VISIBLE (%)	SOLAR (%)	VISIBLE (%)	AIR	ARGON		
EnergyTech™ Clear											
Clear float	EnergyTech	4/12/4	74	57	18	16	17	1.9	1.6	0.44	0.71
		5/12/5	73	54	18	16	17	1.9	1.6	0.39	0.68
		6/12/6	72	52	17	16	16	1.9	1.6	0.35	0.67
		10/12/6	70	46	17	13	16	1.9	1.6	0.32	0.59
		12/12/6	69	44	16	12	16	1.9	1.6	0.29	0.57
Clear Lam	EnergyTech	6.38/12/6	72	50	16	13	16	1.9	1.6	<1	0.74
EnergyTech Clear	Clear float	4/12/4	75	57	17	15	18	1.9	1.6	0.44	0.64
		6/12/6	73	52	16	14	17	1.9	1.6	0.35	0.62
		8/12/6	72	52	16	13	17	1.9	1.6	0.36	0.62
		10/12/6	71	48	16	12	17	1.9	1.6	0.32	0.57
EnergyTech Clear	EnergyTech Clear	4/12/4	69	51	19	17	18	1.9	1.5	0.33	0.62
		6/12/6	67	47	19	16	18	1.9	1.5	0.29	0.59
		8/12/6	67	47	18	16	18	1.8	1.5	0.29	0.59
		10/12/6	65	43	18	13	19	1.8	1.5	0.26	0.55
EVantage™ Clear											
EVantage	Clear float	6/12/6	61	47	27	20	29	2	1.7	0.22	0.56
EVantage	EnergyTech	6/12/6	57	41	29	21	29	1.8	1.5	0.19	0.54

NB - Performance values for center of glass calculated using LBNL Window 7.3 based on NFRC 100 environmental conditions

GLASSWORKS



EnerSave®Plus

Grey Pyrolytic Low-E IGUs (ETech™ & Evantage™)

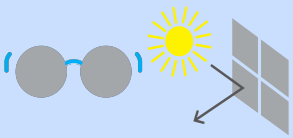
Insulation

PERFORMANCE DATA

PRODUCT CONSTRUCTION			LIGHT TRANSMISSION		LIGHT REFLECTANCE			U VALUE- SI		UV Trans	SHGC
					OUTDOOR		INDOOR	WINTER			
OUTDOOR LITE	INDOOR LITE	MAKE-UP	VISIBLE (%)	SOLAR (%)	VISIBLE (%)	SOLAR (%)	VISIBLE (%)	AIR	ARGON		
EnergyTech™ Grey											
Grey float	EnergyTech Clear	4/12/4	46	38	9	10	15	1.9	1.6	0.19	0.50
		5/12/5	39	31	8	9	15	1.9	1.6	0.16	0.48
		6/12/6	34	27	7	8	14	1.9	1.6	0.12	0.40
		10/12/6	21	18	5	6	14	1.9	1.6	0.07	0.30
		12/12/6	17	16	5	6	14	1.9	1.6	0.06	0.28
6.38 Grey Lam	EnergyTech	6.38/12/6	34	30	7	8	14	1.9	1.6	<1	0.44
EnergyTech Grey	Clear float	4/12/4	45	38	9	9	15	1.9	1.6	0.18	0.45
		6/12/6	35	29	8	8	16	1.9	1.7	0.13	0.39
EnergyTech Grey	EnergyTech Clear	4/12/4	42	33	10	10	17	1.7	1.5	0.15	0.43
		6/12/6	32	26	8	8	17	1.7	1.5	0.10	0.36
EVantage™ Grey											
EVantage Grey	Clear float	6/12/6	29	24	10	9	11	2.6	2.5	8	0.33
EVantage Grey	EnergyTech Clear	6/12/6	25	20	11	9	11	1.6	1.5	7	0.31

NB - Performance values for center of glass calculated using LBNL Window 7.3 based on NFRC 100 environmental conditions

GLASSWORKS



EnerSave® Plus

Pyrolytic Low-E coated IGUs (SolTech™ & Sunergy™)

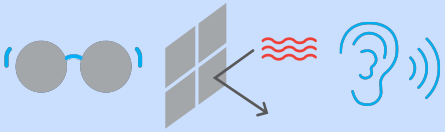
Insulation

PERFORMANCE DATA

PRODUCT CONSTRUCTION			LIGHT TRANSMISSION		LIGHT REFLECTANCE			U VALUE- SI		UV Trans	SHGC
					OUTDOOR		INDOOR	WINTER			
OUTDOOR LITE	INDOOR LITE	MAKE-UP	VISIBLE (%)	SOLAR (%)	VISIBLE (%)	SOLAR (%)	VISIBLE (%)	AIR	ARGON		
SolTech™ Neutral											
SolTech Neutral	Clear float	4/12/4	55	38	12	10	16	1.9	1.6	0.34	0.46
		6/12/6	56	36	12	10	16	1.9	1.6	0.30	0.45
		10/12/6	55	35	11	10	16	2.6	1.6	0.29	0.44
SolTech Neutral	EnergyTech Clear	4/12/4	51	34	13	11	18	1.8	1.5	0.27	0.44
		6/12/6	52	33	13	11	18	1.7	1.5	0.24	0.43
		10/12/6	51	31	13	10	17	1.8	1.5	0.23	0.42
SolTech™ Grey											
SolTech Grey	Clear float	6/12/6	27	19	6	6	14	2.7	2.5	0.10	0.34
	EnergyTech Clear	6/12/6	25	17	7	7	16	1.9	1.5	0.09	0.28
Sunergy™											
Sunergy Clear	Clear float	6/12/6	60	41	14	13	15	2.7	2.5	0.34	0.53
	Grey float	6/12/6	28	21	12	12	6	2.7	2.5	0.11	0.47

NB - Performance values for center of glass calculated using LBNL Window 7.3 based on NFRC 100 environmental conditions

GLASSWORKS



EnerSave®Plus

Pyrolyric Low-E Laminated & Acoustic IGUs (ComfortPlus™ & HushLam™)

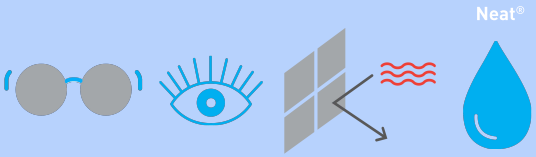
Insulation

PERFORMANCE DATA

PRODUCT CONSTRUCTION			LIGHT TRANSMISSION		LIGHT REFLECTANCE			U VALUE- SI		UV Trans	SHGC
OUTDOOR LITE	INDOOR LITE	MAKE-UP	VISIBLE (%)	SOLAR (%)	OUTDOOR		INDOOR	WINTER			
					VISIBLE (%)	SOLAR (%)	VISIBLE (%)	AIR	ARGON		
ComfortPlus™ Clear											
ComfortPlus Clear	Clear float	6.38/12/6	73	51	16	12	17	1.9	1.6	<0.01	0.60
		10.38/12/6	71	47	16	11	17	1.9	1.6	<0.01	0.55
	EnergyTech Clear	6.38/12/6	68	45	18	14	18	1.7	1.5	<0.01	0.58
ComfortPlus™ Neutral											
ComfortPlus Neutral	Clear float	6.38/12/6	52	34	10	8	15	1.9	1.6	0.03	0.43
	EnergyTech Clear	6.38/12/6	48	30	11	8	17	1.7	1.5	0.02	0.41
ComfortPlus™ Grey											
ComfortPlus Grey	Clear float	6.38/12/6	34	31	7	7	15	1.9	1.6	0.01	0.41
	EnergyTech Clear	6.38/12/6	32	27	7	8	17	1.7	1.5	0.01	0.40
ComfortPlus Clear	Grey float	6.38/12/6	34	26	14	11	6	1.9	1.6	<0.01	0.56
HushLam™ Clear											
Clear float	HushLam Clear	6/12/6.5	79	59	15	12	15	2.6	2.5	0	0.70
		6/12/10.5	78	55	15	12	15	2.6	2.5	0	0.69
		6/12/12.5	77	53	15	12	15	2.6	2.5	0	0.68
HushLam™ Grey											
Grey float	HushLam Clear	6/12/6.5	37	31	7	7	7	2.6	2.5	0	0.45
		6/12/10.5	36	29	7	6	12	2.6	2.5	0	0.44
		6/12/12.5	36	28	7	6	12	2.6	2.5	0	0.43

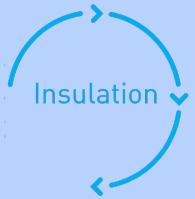
NB - Performance values for center of glass calculated using LBNL Window 7.3 based on NFRC 100 environmental conditions

GLASSWORKS



EnerSave®Advance

ITO Low-E IGUs
(LoE-i89® + Neat®)



PERFORMANCE DATA

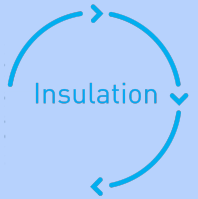
PRODUCT CONSTRUCTION			LIGHT TRANSMISSION		LIGHT REFLECTANCE			U VALUE- SI		UV Trans	SHGC
OUTDOOR LITE	INDOOR LITE	MAKE-UP	VISIBLE (%)	SOLAR (%)	OUTDOOR		INDOOR	WINTER			
					VISIBLE (%)	SOLAR (%)	VISIBLE (%)	AIR	ARGON		
LoE-i89® Clear											
LoE-i89	Clear float	4/12/4	80	62	15	15	15	1.8	1.6	0.53	0.66
		5/12/5	78	56	14	14	14	1.8	1.6	0.46	0.65
		6/12/6	77	54	14	13	14	1.8	1.6	0.44	0.63
LoE-i89	LoE-i89	4/12/4	78	55	14	14	13	1.5	1.3	0.49	0.63
		5/12/5	77	53	14	14	13	1.5	1.3	0.46	0.62
		6/12/6	76	50	14	13	13	1.5	1.3	0.44	0.60
LoE-i89™ Grey											
LoE-i89	Grey float	4/12/4	49	39	12	13	8	1.9	1.6	0.24	0.63
		5/12/5	41	33	12	13	7	1.9	1.6	0.18	0.61
		6/12/6	36	28	12	12	6	1.8	1.6	0.15	0.58
LoE-i89	EnergyTech Grey	4/12/4	44	34	13	14	11	1.5	1.3	0.17	0.56
		6/12/6	35	26	12	12	10	1.5	1.3	0.13	0.53

NB - Performance values for center of glass calculated using LBNL Window 7.3 based on NFRC 100 environmental conditions

GLASSWORKS

EnerSave®Advance

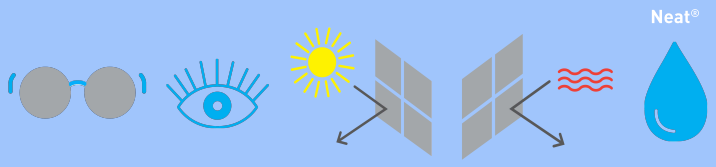
Single Silver Low-E IGUs (Optitherm®)



PERFORMANCE DATA

PRODUCT CONSTRUCTION			LIGHT TRANSMISSION		LIGHT REFLECTANCE			U VALUE- SI		UV Trans	SHGC
					OUTDOOR		INDOOR	WINTER			
OUTDOOR LITE	INDOOR LITE	MAKE-UP	VISIBLE (%)	SOLAR (%)	VISIBLE (%)	SOLAR (%)	VISIBLE (%)	AIR	ARGON		
Optitherm® Clear											
Optitherm	Clear float	4/12/4	80	53	13	27	13	1.7	1.4	0.48	0.58
		5/12/5	79	50	12	25	12	1.7	1.4	0.44	0.57
		6/12/6	78	49	12	23	12	1.7	1.4	0.41	0.56
Clear float	Optitherm	4/12/4	80	53	13	29	27	1.7	1.4	0.48	0.61
		5/12/5	79	50	12	24	25	1.7	1.4	0.44	0.58
		6/12/6	78	49	12	22	23	1.7	1.4	0.41	0.58
LoE-i89 + Neat	Optitherm	4/12/4	78	49	12	20	26	1.6	1.4	0.44	0.57
		5/12/5	78	48	11	19	25	1.6	1.4	0.44	0.56
		6/12/6	77	47	11	18	23	1.6	1.4	0.41	0.55
Optitherm® with Grey											
Optitherm	Grey float	6/12/6	37	25	10	23	5	1.7	1.4	0.14	0.54
Grey float	Optitherm	6/12/6	37	25	6	10	10	1.7	1.4	0.14	0.35
EnergyTech Grey	Optitherm	6/12/6	35	24	7	9	13	1.6	1.4	0.12	0.33

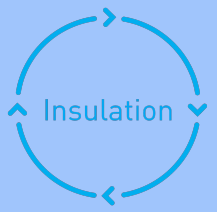
NB - Performance values for center of glass calculated using LBNL Window 7.3 based on NFRC 100 environmental conditions



EnerSave®Ultimate

Triple Silver Low-E IGUs

(LoE³-366® & LoE³-340® + Neat®)



PERFORMANCE DATA

PRODUCT CONSTRUCTION			LIGHT TRANSMISSION		LIGHT REFLECTANCE			U VALUE- SI		UV Trans	SHGC
					OUTDOOR		INDOOR	WINTER			
OUTDOOR LITE	INDOOR LITE	MAKE-UP	VISIBLE (%)	SOLAR (%)	VISIBLE (%)	SOLAR (%)	VISIBLE (%)	AIR	ARGON		
LoE³-366® Neutral											
LoE-366	Clear float	4/12/4	64	25	11	43	13	1.6	1.3	0.05	0.27
		5/12/5	63	24	11	41	12	1.6	1.3	0.04	0.27
		6/12/6	62	23	11	38	12	1.6	1.3	0.04	0.27
		8/12/8	60	22	11	34	12	1.6	1.3	0.04	0.27
LoE-366	LoE-i89	4/12/4	63	24	11	43	11	1.3	1.1	0.04	0.27
		5/12/5	62	23	11	41	11	1.3	1.1	0.04	0.27
		6/12/6	61	23	11	38	11	1.3	1.1	0.04	0.26
LoE³-366® with tinted float											
LoE-366	Grey float	4/12/4	39	15	9	43	7	1.6	1.3	0.02	0.26
		6/12/6	29	11	9	38	6	1.6	1.3	0.01	0.26
		8/12/6	29	11	9	34	6	1.6	1.3	0.01	0.26
LoE-366	Bronze float	4/12/4	44	17	10	43	8	1.6	1.3	0.02	0.26
		6/12/6	34	13	9	38	6	1.6	1.3	0.01	0.26
		8/12/6	34	13	9	34	6	1.6	1.3	0.01	0.26
LoE³-340® Blueish											
LoE-340	Clear float	6/12/6	36	13	13	28	15	1.6	1.3	0.02	0.18
		8/12/8	36	13	13	32	15	1.6	1.3	0.02	0.18
LoE-340	LoE-i89	6/12/6	37	14	13	36	14	1.3	1.1	0.02	0.18

NB - Performance values for center of glass calculated using LBNL Window 7.3 based on NFRC 100 environmental conditions

GLASSWORKS