

Green Houses Material, applications, accessories, warranty and much more....

Present by **Amit Israeli**



HILLVIEW NURSERIES
MARLON ST



ASIAN GREENHOUSE
MARLON CS



TRANSKOED RESEARCH FARM
MARVEC CS PREMIUM



COW SHED ROOFLIGHTS
MARVEC CS PREMIUM



UDDER GREENHOUSE
MARLON CST



COMMERCIAL GREENHOUSE
MARLON CS



HOG BARN ROOFLIGHTS
MARVEC CS PREMIUM



FARM WAREHOUSE
MARVEC CS HI-IMPACT



GREATMILLS GARDEN CENTRE
MARLON ST



FARM BUILDING VENTILATION
MARLON ST



CHITTING SHED
MARVEC CS HI-IMPACT



GARDEN CLOCHES
MARVEC CS PREMIUM



COMMERCIAL GREENHOUSE
MARLON CS



UDDERAGRI BUILDING
MARLON ST & CLICKFIX



COW SHED CLADDING
MARVEC CS AGRI



HOG BARN CLADDING
MARVEC CS AGRI





Subjects:

- Available products
- Sheets Performances
- Warranties
- Energy Saving
- Accessories
- R&D
- Q&A



Available Products:

- PC Multiwall 6 & 8 mm 2 walls
- PC Multiwall 6 & 8 mm 3 walls
- PC Corrugated greca 76/18
- FRP Corrugated greca 76/18
- PMMA Corrugated greca 76/18
- PC Multiwall 6, 8 & 10 mm 4 walls
- PC Multiwall 8,10 & 16mm 5 walls
- PE Multiwall 3.5 & 5mm
- PMMA 8mm & 16mm
- PC Greca, 8,10 & 16mm with ZeroLT (zero Light Transmission)

All with the customary anti-drop treatment, 10 or 15 years warranty

Products Comparison

	LT	Insulation	Defuse	warranty	Impact / Strength	cost
PE	Very High	Very Low	Very Low	Very Low	Very Low	\$
Doable PE	High	good	Low	Very Low	Very Low	\$\$
Greca PC	Very High	low	Very Low	Very Good	Good	\$\$
Doable wall PC	High	High	Very Good	Very Good	Very Good	\$\$\$
Multi-wall PC	Very Good	Very High	High	Very Good	Very High	\$\$\$
Solexx	Low	High	Very High	Good	Good	\$\$\$
Glass	Very High	Low	Very Low	Very High	Very Low	\$\$

Available Products (cont.)

Twinwall (Twin) - thicknesses 4, 6, 8, 10 & 30mm

Thickness	U-Value
4mm	3.9
6mm	3.7
8mm	3.4
10mm	3.2
30mm	2.6

Fourwall (Four) - thicknesses 8mm & 10mm

Thickness	U-Value
8mm	2.8
10mm	2.5

Triplewall (Triple) - thickness 16mm

Thickness	U-Value
16mm	2.4

M Wall (M) - thickness 16mm

Thickness	U-Value
16mm	2.2

16x32mm M Wall (M) - improved clarity

Thickness	U-Value
16mm	2.5

X Wall (X) - thickness 16mm

Thickness	U-Value
16mm	2.0

FiveWall (Five) - thicknesses 16 & 25mm

Thickness	U-Value
16mm	1.9
25mm	1.6

7X Wall (7X) - thicknesses 20mm & 25mm

Thickness	U-Value
20mm	1.6
25mm	1.4

Sevenwall (Seven) - thicknesses 32 & 35mm

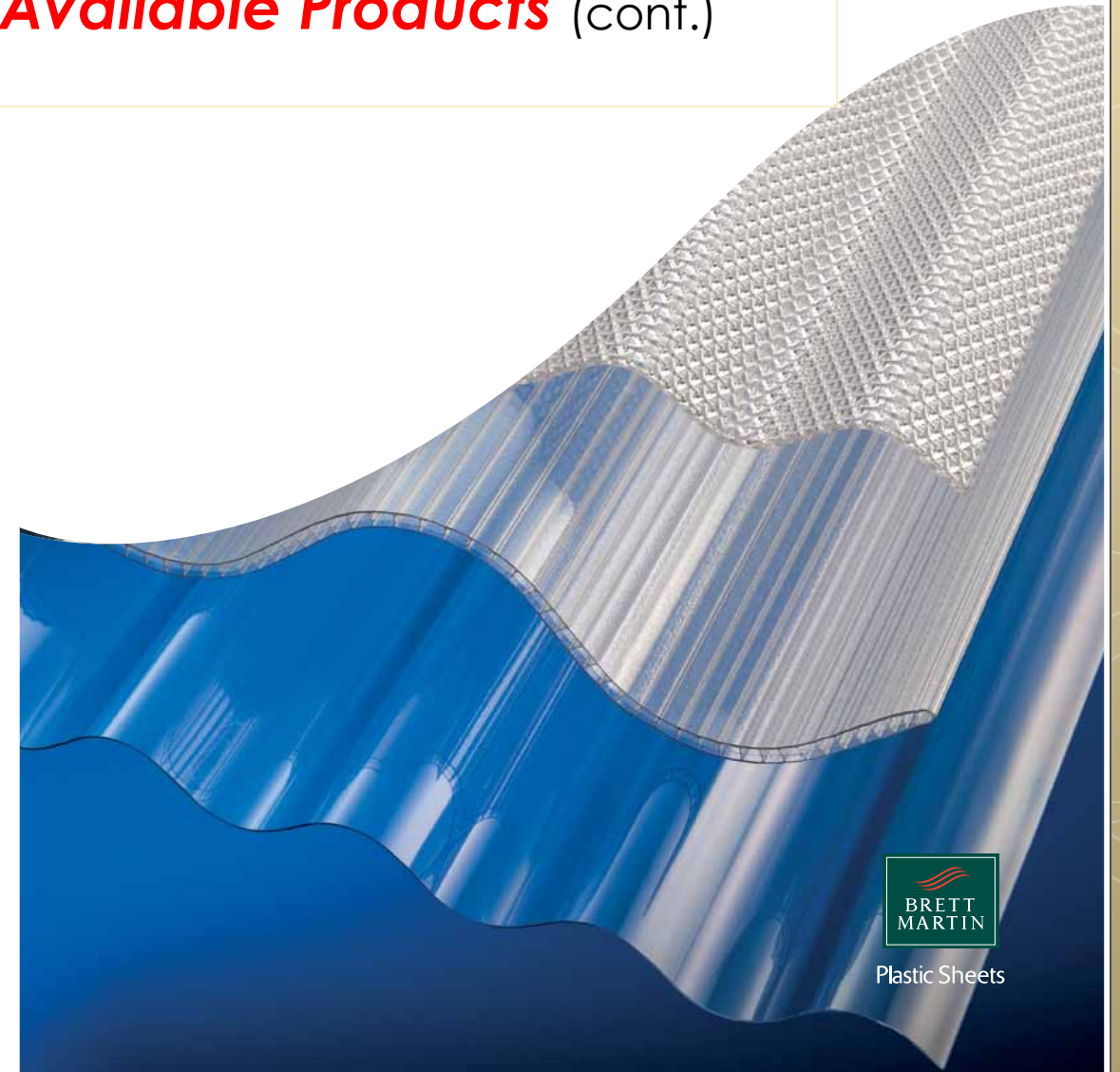
Thickness	U-Value
32mm	1.25
35mm	1.2

XX wall (XX) - thicknesses 32 & 35mm

Thickness	U-Value
32mm	1.4
35mm	1.4

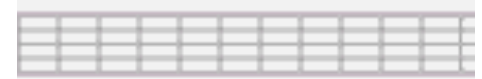
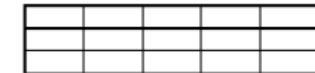
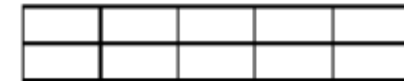
Tenwall - thicknesses 32, 35, 40 & 55mm

Thickness	U-Value
32mm	1.14
35mm	1.08
40mm	0.99
55mm	0.83



Sheets Performances

Thickness	Number of walls	Weight Lb/sqf	Light transmission %	U value
10 mm	2	0.35	77	0.53
10 mm	3	0.35	73	0.48
10 mm	4	0.36	70	0.44
10 mm	5	0.36	67	0.42



Thickness	Thickness mm	Light transmission %	U value
Standard solid corrugated greca 76/18	0.8	89	1.23
MW corrugated greca 76/18	2.5	83	0.83

Sheets Performances

iP-Plastic-GM™ 76/18 CLEAR 3mm(1/8") (GM = Greca Millerighe; Millerighe = 1000 lines) ***Impact-modified corrugated acrylic sheets***

Boxed shaped / trapezoidal corrugated sheets

Length : up to 23'; Width : 1045 mm / 41.14"

Thickness 3 mm – 1/8"

Color: clear; Surface: flat top and lines on bottom.

Advantages:

LT – 94%

Haze – 96%

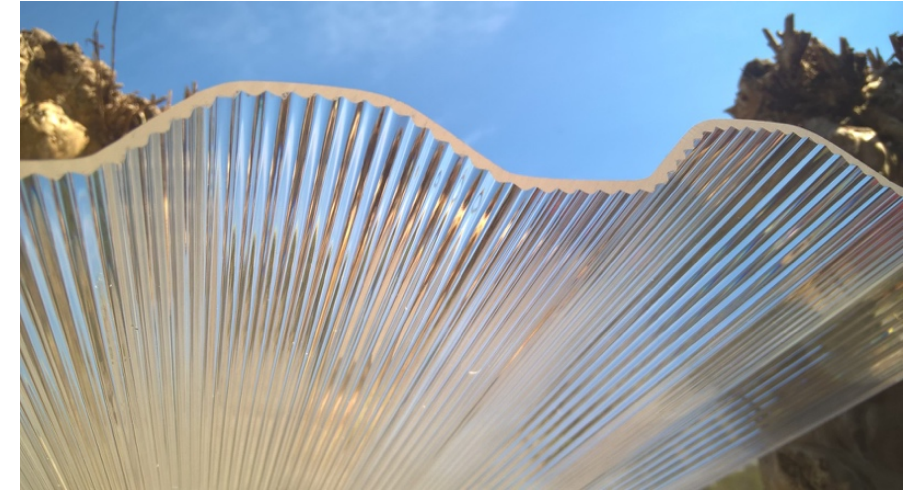
Allow UV light into the building = allow bees & insects to “see” the flowers

30 years warranty* against loss of LIGHT TRANSMISSION and against YELLOWING of the sheets

life time performance of the Anti-Fog effect: The lines at the bottom of the sheet perform as a PERMANENT Anti fog.

You will not need to make any treatment any longer on the sheet.

SAVE TIME AND MONEY, NO MORE CONDENSATION ON YOUR GREENHOUSE EVER AGAIN



* Please contact us for full & official warranty

CALCULATION OF ENERGY SAVING FOR REPLACEMENT OF TRANSPARENT WINDOWS

Mongolia - Netafim

NOTE: please fill in only fields highlighted in red

1. SURFACE

Transparent area subject to replacement, including any profiles or frames useful for installation.

S = 100000 ft²

2. THERMAL TRANSMITTANCE

Thermal transmittance values related to the glass surface installed (U1) and the new one (U2)

iP-Plastic, 2-Walls, 8 mm ← choose the type of existing glazing

U1 = 0.564 Btu/ft² h °F ← thermal transmittance of the existing glazing

iP-Plastic, 4-Walls, 10 mm ← choose the type of the new glazing sheet

U2 = 0.440 Btu/ft² h °F ← thermal transmittance of the new glazing

ΔU = 0.123 Btu/ft² h °F

3. TEMPERATURE

Values of mean temperature relative to the internal environment (Tin) and the external environment (Tout)

Tin = 65 °F

	January	February	March	April	May	June	July	August	September	October	November	December	
Tout =	-13	-22	10	28	43	55	63	59	45	32	8.6	-7.6	°F
ΔT =	78	87	55	37	22	10	2	6	20	33	56.4	72.6	°F

- Information about mean temperatures can be found at www.intellicast.com - Section Historic Averages of your own city
- It is assumed that in summer the air conditioning system has the same costs of management of the heating in winter

4. FUEL

Type of fuel used for the heating system

Fuel = Natural gas ← choose the type of fuel used for the heating system

Pt = 978 Btu/ft³

Price = 0.025 \$/ft³

5. SAVING

Savings in fuel and money due to the replacement of the glass surface with another one with a better thermal insulation

	January	February	March	April	May	June	July	August	September	October	November	December	
Rq =	696661	701847	491235	239855	147371	43217	8932	26795	129652	221056	487490	648431	ft ³ /m
Re =	17417	17546	12281	5996	3684	1080	223	670	3241	5526	12187	16211	\$/mo

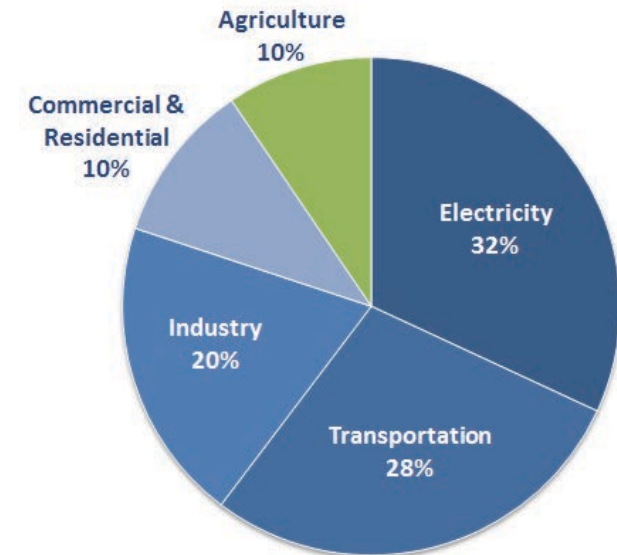


Amount of fuel saved
Rq = 3842540 ft³
Money saved
Re = 96064 \$



Energy Calculation

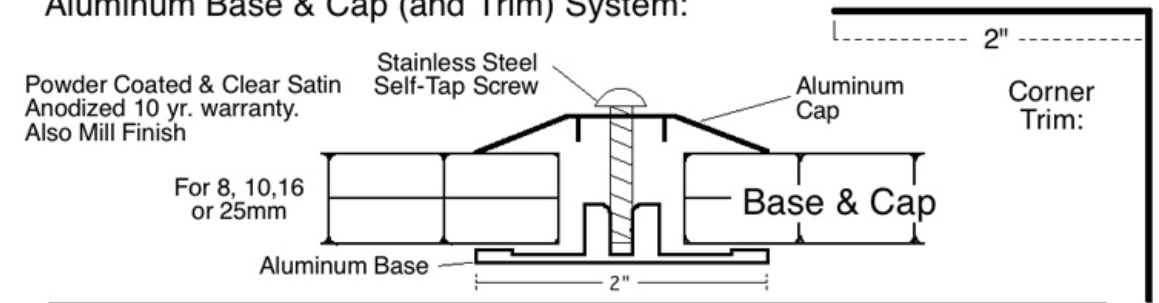
Pay More
to Pay Less



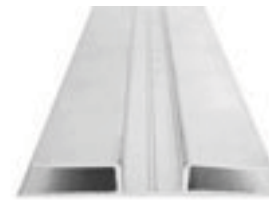
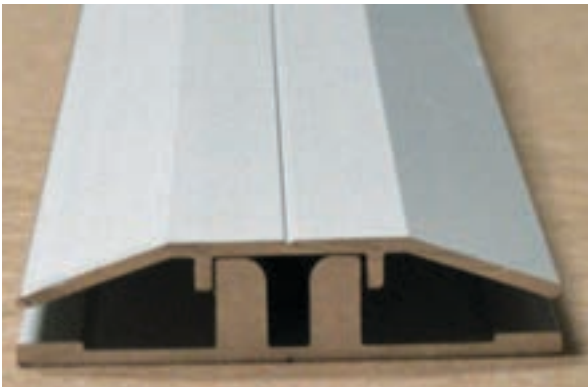
Accessories

- Aluminum Profiles: Base & Cap; H
- Aluminum Profile: U
- PC Profiles: Base & Cap; H
- Profiles: Base & Cap; H
- Tape (Solid & Vented)
- Screws & Washers

Aluminum Base & Cap (and Trim) System:



U-Profile: White-Bronze 8, 10, 16, 25mm - Anodized 8, 16, 25mm - Mill Finish 8 & 16mm



R&D



**MARLON ST
CLEAR**

For maximum light
transmission



**MARLON ST
BRONZE**

Solar controlling tint



**MARLON ST
OPAL**

Virtually opaque for softer
light and privacy



**MARLON ST
BRONZE OPAL**

Bronze external finish with
an opal internal surface



**MARLON ST
HEATGUARD OPAL**

Silver grey external finish
with an opal internal surface

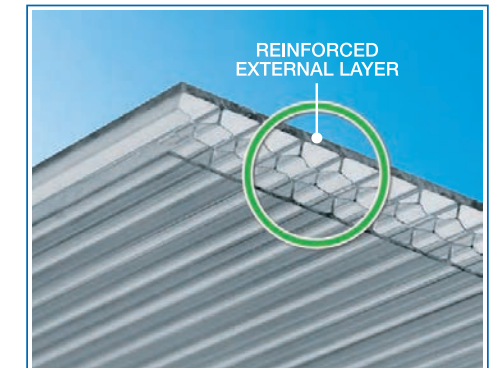


**MARLON ST
IR BLUE**

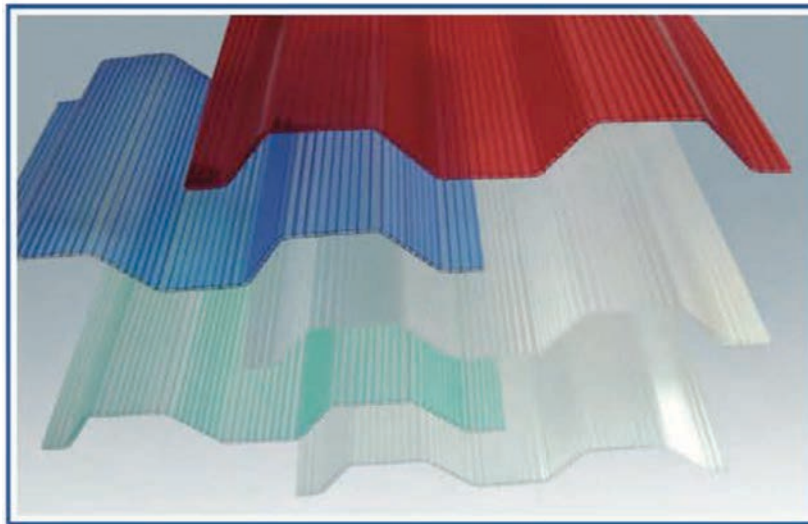
Transparent sheet, reduces
temperatures by up to 7%

- Colors (Heat reduction; defuse;)
- Anti-Fog
- Fire Rated
- Special Structure
- Any Others...

REINFORCED



4 mm • 6 mm



4/6 mm ONDAPIÙ



HEAT SEALED SHEET ENDS

Amit Israeli – Career Highlights:



ipPlastic

- **Polygal Israel – VP Operation**
Responsible for all production related operations, including engineering, raw materials development, manufacturing, storage, shipping and more.
- **Polygal USA – President & CEO**
X2 Polygal USA sales and cut costs by over 37%.
- **Gallina USA – President & CEO**
Founded, established and led Gallina USA with Italian partners.
- **AmeriLux (Sabic) – General Manager**
Develop the U.S. architectural market.
- **Co-Ex (Koscon) – Consultant**
Consulting on the DIY market, architectural market and few special OEM customers.
- **Founder & CEO; 4Sons Consulting Services, Madison, WI**
4Sons is a consulting company for product innovation, development, and scaling needs.



ip Plastic

Contact

Amit Israeli – 4Sons, Inc. – Owner

608-359-1750

Promoting Plastic Solutions



amit@4sons.biz

4821 Tocora Lane, Madison, WI 53711

Israel: **03-374-3386** Efax: **262-565-4353**