

Isoray 3.3 & Isoray 6

Manufactured in: Italy





APPLICATION

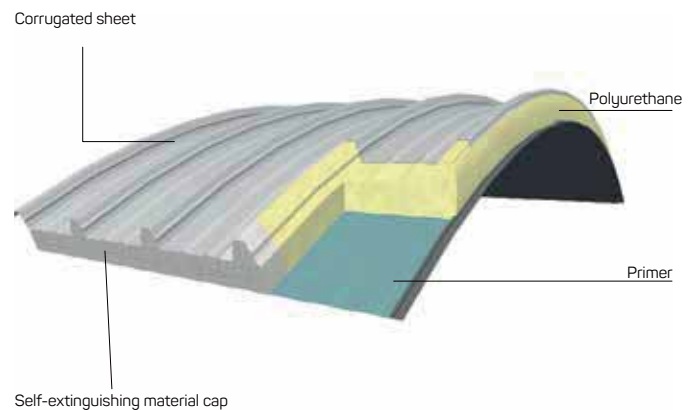
Isoray is a precurved thermo-insulated roof panel. It is designed for roofs that are principally placed on prefabricated structures made of prestressed concrete: it guarantees waterproofness, high thermal insulation and high load resistance.

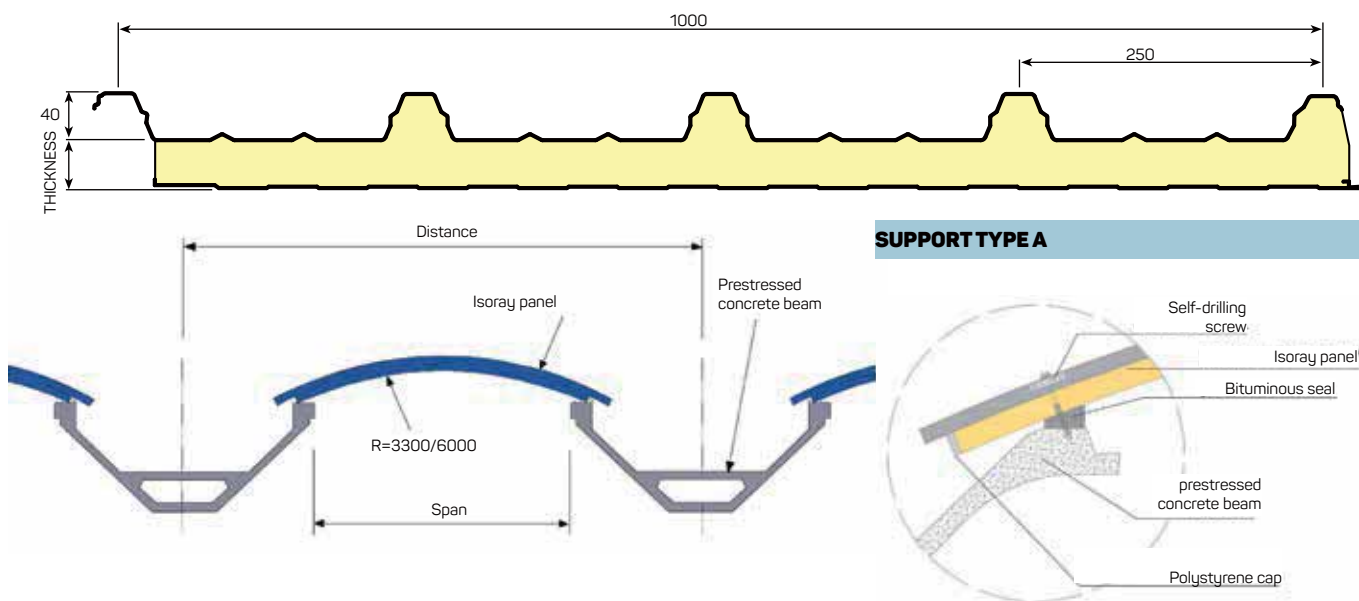
CHARACTERISTICS

The panel allows you to create curved roofs with a radius of 3.3 m to 6 m, even if it is curved, with the 5 ribs sheet, it shows a high load resistance. The fixing is made at the end of the support structure thanks to steel self-drilling screws.

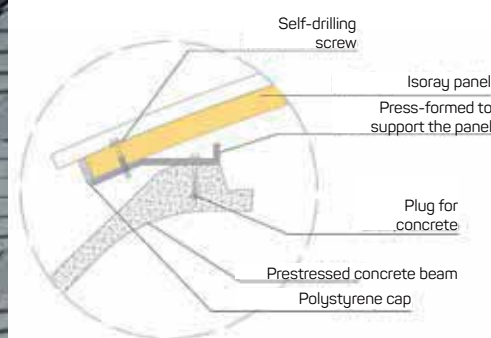
ADVANTAGES

It shows high results of thermal insulation even with a flat roof that is appropriate also for prefabricated elements in prestressed concrete. Isoray is a monolithic solution with a high mechanical resistance and a high thermal insulation power.





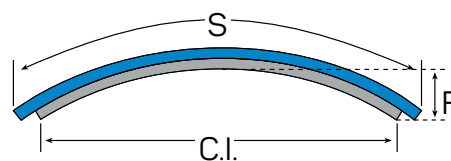
SUPPORT TYPE B



For more information on assembly and fixing systems, please contact Isopan

DEVELOPMENT - CHORD - DEFLECTION (The measures refer to a 40 mm thick panel)

ISORAY 3.3 (measures in cm)			ISORAY 6 (measures in cm)		
Internal chord C.I.	Development S	Deflection F	Internal chord C.I.	Development S	Deflection F
107	120	4	150	162	5
137	151	7	200	214	8
158	173	10	250	265	13
177	194	12	300	317	19
196	214	15	350	370	26
216	235	18	400	423	34
236	257	22	450	477	44
255	278	26	500	533	55
260	284	27	-	-	-
275	300	30	-	-	-



**ACCEPTABLE LOADS (LOAD BEARING SCHEME (kg/m²))**

ISORAY 3.3 with 0.5 mm thick steel faces						
CORE THICKNESS mm	CALCULATED DEFLECTION m					
	1	1,5	2	2,5	2,75	3
40	410	370	290	250	230	210
50	490	425	340	280	260	240
60	590	490	380	300	220	260

ISORAY 3.3 with 0.6 mm thick external aluminium face and 0.5 mm thick internal steel face						
CORE THICKNESS mm	CALCULATED DEFLECTION m					
	1	1,5	2	2,5	2,75	3
40	400	250	210	180	165	150
50	480	315	260	210	185	170
60	580	380	290	230	195	180

ISORAY 6 with 0.5 mm thick steel faces										
CORE THICKNESS mm	CALCULATED DEFLECTION m									
	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5
40	390	256	190	190	170	150	110	85	75	62
50	490	323	240	220	200	170	130	100	83	67
60	590	390	280	240	220	190	150	120	90	73
80	800	520	348	283	264	234	198	173	117	91
100	913	588	383	305	282	255	224	200		

PANEL ISORAY 6 with 0.6 mm thick external aluminium face and 0.5 mm thick internal steel face										
CORE THICKNESS mm	CALCULATED DEFLECTION m									
	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5
40	390	256	190	182	150	130	80	70	60	50
50	490	323	240	210	170	150	100	85	65	52
60	590	390	270	230	180	160	110	105	70	55
80	787	511	342	271	218	197	145	127	82	65
100	889	573	372	292	233	215	164	140		

Note : the red values indicate the acceptable loads for a panel anchored to the support.

The data's reported in the tables are only indicative. The designer has to check them according to the specific application.

Deflection limit 1/200 ℓ

PANEL THICKNESS mm	K		PANEL WEIGHT (kg/m²) WITH STEEL SHEETS 0,5 mm
	Kcal/m² h°C	Watt/m² K	
40	0,38	0,45	10,3
50	0,32	0,38	10,7
60	0,27	0,32	11,2
80	0,22	0,25	11,9
100	0,18	0,20	12,7

DIMENSION TOLERANCE

DEVIATION mm	
Length of curvature	± 5 mm with L ≤ 3000 / ± 10 mm with L > 3000
Width	± 2
Thickness	± 2
Chord	± 3 %
Radius of curvature	± 2 %
Coupling (Dev. < 3000mm)	± 4 mm
Coupling (Dev. ≥ 3000mm)	± 5 mm