



TURKISH PRECAST CONCRETE INDUSTRY

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GENERAL INFORMATION

Population : 72 000 000

Area : 780 000 sq. Km (App. 1.2 times the size of France)

Gross Domestic Product : \$ 960.5 billion

GDP per Capita : \$ 12 300.-

CONSTRUCTION SECTOR

Turnover Domestic : \$ 33.5 billion

International : \$ 19.5 billion (354 projects in 69 countries)

Cement Production : 62 737 000 ton

Steel Production : 10 630 000 ton (construction steel)

Concrete Prod. : 83 000 000 m³

On Site : app. 2 000 000 m³

Ready Mix : 79 700 000 m³

Precast : 1 300 000 m³



PRECAST CONCRETE INDUSTRY - EXISTING PROFILE

Total No. of Firms : 101	TPCA Members - 27
	Non-Members - 74
Total No. of Plants : 11	TPCA Members – 34
Total Employment : 7 000	TPCA Members – 3 830

Average employm. per plant : 112 (TPCA members)

Composition of Workforce (TPCA) : **10 % Technical** (eng.s & arch.s)
67 % Workers & admin.
23 % Sub-contractor



PRODUCTION (m³)

Production of Precast Concrete Industry in 2010

	TPCA Member		Non-Member		Total Production	
	Poduction Volume	Market Share	Poduction Volume	Market Share	Poduction Volume	Market Share
Building Elements	389.859	0,299	175.024	0,134	564.883	0,433
Infrastructure	230.111	0,176	142.910	0,110	373.021	0,286
Sreet Furniture	182.018	0,140	164.683	0,126	346.701	0,266
S.C. Poles	19.002	0,015	0	-	19.002	0,015
Total	820.990	0,630	482.617	0,370	1.303.607	1,000



BREAKDOWN OF MEMBERS' PRODUCTION BY CLIENTS and PRODUCT GROUPS

PUBLIC SECTOR

PRIVATE SECTOR

TOTAL

	Poduction Volume	Market Share	Poduction Volume	Market Share	Poduction Volume	Market Share
Building Elements	2.880	0,00	386.779	0,47	389.859	0,47
Infrastructure	93.995	0,11	136.116	0,17	230.111	0,28
Street Furniture	45.610	0,06	136.408	0,17	182.018	0,22
S.C. Poles	-	-	19.002	0,02	19.002	0,02
Total	142.485	0,17	678.305	0,83	820.990	1,00

GENERAL CHARACTERISTICS

- **Market share of members is 63 % but they constitute 27 % of the total no. of firms**
- **Building components account for app. 40 % of the overall production**
- **Industrial buildings (factories) is where precast concrete is most extensively used**
- **85 % of all factories are built by structural precast**

PRODUCT RANGE - BUILDING COMPONENTS

Beams (all sections) (max. length: 38 m.)

Columns (max. Height: 29 m.)

Roof trusses (max. span: 40.9 m.)

Prestressed hollow core slabs & panels

T and TT floor panels

Purlins

Architectural precast elements

Concrete blocks



PRODUCT RANGE

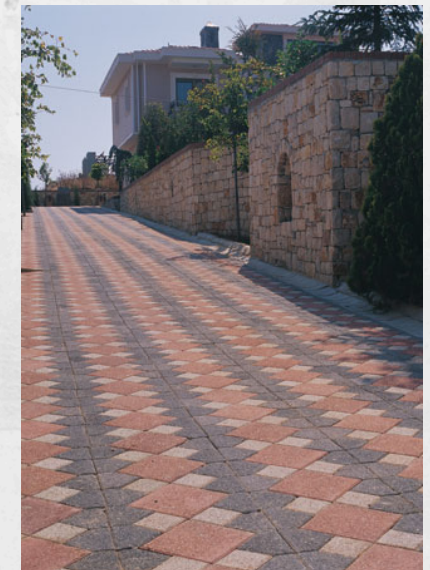
Infrastructure

- Pipes (max. diameter: 360 cm)
- Culverts
- Segments for subway tunnels
- Railway sleepers
- Bridge beams and girders
- Spun concrete poles (max. length: 25 m.)
- Transformer stations



Paving Blocks and Street Furniture

- Paving stones
- Curb stones
- Landscape elements
- Street furniture





TURKISH PRECAST CONCRETE ASSOCIATION

- **Founded in 1984**
- **Aim :** **To promote precast concrete in the country**
 - To search for solutions to common economical and technical problems of its members**
 - To support R&D activities to improve the level of quality**
 - To provide a framework to facilitate exchange of information**



TURKISH PRECAST CONCRETE ASSOCIATION

Activities

- Quality certification

(in collaboration with TSI in certifying precast producers. Two stage control: project; production and erection. Project control-TPCA; production and erection control-TSI)

- Supporting R&D Projects
- Lobbying
- Best practice awards (five categories)
- Publications (a quarterly journal, bi-monthly news bulletin, annual statistics and other technical publications)
- Scholarships for arch. and eng. post-grad. students
- Contacts with other organizations at international level