



**PRODUCT**

**Grayt-R™**

(25,45, 65 and 100 psi)

**MANUFACTURER**

Plaza Concepts, Inc.  
+1 914 337 6071

**REPRESENTATIVE**

**GENERAL INFORMATION**

**TYPICAL USE**

Made in an environmentally responsible CFC-free manufacturing process Grayt-R closed-cell, extruded polystyrene, rigid insulation is engineered to provide efficient, durable, predictable and long-term R-value for all types of installations such as walls, roofing, plaza, parking deck and waterproofing as well as under slab, concrete floor, foundations, roadway, rail bed, and cold storage. Lightweight, high strength, stackable and reusable PCI XPS is also a critical component of the well-established, Protected Roof Membrane Assembly (PRMA) (aka Inverted Roof IRMA). This popular design, especially in the open joint, loose-laid, raised deck configuration, can reduce injuries often associated with cracked walking surfaces and setting beds and facilitate inspection, access to conduits below and membrane leak repairs at a much lower cost. Attractive low weight recreational areas can easily be created on plazas, patios, and roofs.

**SUBSTRATES**

As PRMA typical substrates include a protection layer, drainage mat or an approved, compatible waterproof membrane. We invite you to discuss options with our Technical Department.

**LIMITATIONS**

Consideration should be given to the physical pressures, including wind and loading that will affect the installation. Like all structures, roof and plaza decks are dynamic and may require consultation with technical experts during design. Workmanship will also prove critical to long term performance. Consult the manufacturers of any product that the XPS rests on for their protection instructions. Expect settling. Consult Plaza Concepts about issues relating to wind, parapet wall heights building heights, live and dead loads. Read more about XPS and wind at [www.plazaconcepts.com/technote508](http://www.plazaconcepts.com/technote508). Read more about paving slabs at [www.plazaconcepts.com/ICPITechSpecNumber14](http://www.plazaconcepts.com/ICPITechSpecNumber14) For informational purposes only. PCI makes no claim, express or implied that this product is fit for any particular project or purpose, which is the sole responsibility of the design professional.

**PHYSICAL PROPERTIES**

| <u>Thickness</u>                                                                                    | <u>Dimensions</u>                    |
|-----------------------------------------------------------------------------------------------------|--------------------------------------|
| 25, 30, 38, 40, 50, 60, 76, 80, 100mm                                                               | 400 or 600 x 2400 mm                 |
| (1," 1.5," 2," 3," 4,"(±¼"))                                                                        | (16 or 24 x 94.5 inch)               |
| Tapered as well as custom dimensions are available. Call Standard product has 22 drainage channels. |                                      |
| R-value                                                                                             | 5.6 per 25 mm (1")                   |
| Composition: Closed-cell, Extruded Polystyrene                                                      |                                      |
| Compressive Strength-meets or exceeds,                                                              |                                      |
| XPS 25                                                                                              | ASTM C 578 Type X 200 kPa (25 psi)   |
| XPS 40                                                                                              | ASTM C 578 Type VI 300 kPa (43 psi)  |
| XPS 60                                                                                              | ASTM C 578 Type VII 450 kPa (65 psi) |
| Water Absorption- Meets or exceeds ASTM C272 (.05)                                                  |                                      |

**INSTALLATION CONSIDERATIONS**

IMPORTANT wind issues should be discussed with our Tech Department or experts such as roof consultants and engineers. Installation should also be in accordance with the most recent instructions of the over-burden and membrane suppliers, and in compliance with typical industry standards like those of the ASCE, NRCA, SPRI and RCI as well as applicable building code requirements. Instruments such as: chalk lines, water and laser levels can help establish reference points. There are benefits and drawbacks to the various design methods. The PCI Tech. Department can assist with the various design options.

**TECHNICAL ASSISTANCE**

Contact Plaza Concepts

**WARRANTY PROGRAM**

Standard 5 year, as well as optional 10, 15 and 20 year warranties are available. A Full System Warranty that includes the waterproof membrane and over-burden is available through our membrane partners. Call for further information.

**AVAILABILITY AND COST**

Contact Plaza Concepts or our local representative