



Quick-Lock® adhesive-bonded Joint



## Bondstrand® WD GRE pipe for dry deluge systems and firemains

Gasunie is the national distributor in the Netherlands of LNG. Located on the Maasvlakte, Gasunie operates a LNG Peak Shaving facility which supplies gas in case of extra demand in the Rotterdam area.

Tank 301 contains Nitrogen and Tank 302 and Tank 303 are LNG domes with a total volume of 120.000 m<sup>3</sup> liquid gas. The sprinkler system of T-301 is executed with fire protected Bondstrand WD and contains 216 pieces sprinkler nozzles. T-302 and T-303 are executed with a vertical Bondstrand WD riser pipe which supplies water to the central spreading unit. Both tanks also include 32 pieces of sprinkler units on the pump islands on top of the LNG domes.



Nitrogen tank 301



Riser pipe to central spreading unit (T-302)



Sprinkler line bent around tank



Riser pipe to sprinkler system

### Project

Dry deluge sprinkler systems and firemains for N.V. Nederlandse Gasunie – Groningen, The Netherlands

### Client

Amerplastics B.V., Terneuzen – The Netherlands

### Pipe system

Bondstrand 2000M-WD in 2, 3, 4 and 6 inch (50, 80, 100 and 150 mm), Bondstrand 2416-WD in 8 inch (200 mm) with Quick-Lock (2-6 inch/50-150 mm) and Taper/Taper (8 inch/200 mm) adhesive bonded joints. Bondstrand WD has a fire endurance rating of modified Level 3.

### Operating conditions

	<b>2000M-WD</b>	<b>2416-WD</b>
Operating pressure	7 bar	7 bar
Operating temp	Ambient	Ambient
Design pressure	11 bar	11 bar
Design temp	50 °C	50 °C
Test pressure	15.7 bar	15.7 bar

### Installation date

January - May 2009