

PROJECT REFERENCE

AUM COMPLEX

**Armaflex[®], ArmaSound[®],
Arma-Chek[®]**

- **Summary**

Trinidad is one of the world's largest producers of methanol and ammonia. In Point Lisas a rapidly growing industrial estate has developed where the recent construction of an Ammonia-Urea-Melamine (AUM) complex represents a new record investment. In this complex, around 6,400 tonnes of steel and other materials were used for the pipes alone.

The engineering company KBR (Houston, Texas) selected ArmaSound Industrial Systems for thermal and acoustic insulation.

- **Place**

Point Lisas, Trinidad

- **Specifier / Engineer**

KBR (Houston, Texas)

- **Contractor**

MAN Ferrostaal (Essen)

- **Market segment**

Petrochemical industry

- **Application**

Acoustic systems

- **Insulation systems used**

ArmaSound Industrial System D,
ArmaSound Barrier E, Arma-Chek R



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Thanks to significant oil and gas reserves, a remarkable petrochemical industry has emerged in Trinidad over the past few years. In Point Lisas a rapidly growing industrial estate has developed where the recent construction of an Ammonia- Urea-Melamine (AUM) complex represents a new record investment. Here Methanol Holdings (Trinidad) Limited produces liquid fertilizer for the agricultural sector and melamine for the furniture, textile and automotive industries. As the prime contractor, the German company MAN Ferrostaal (Essen) is responsible for the project. In this complex, around 6,400 tonnes of steel and other materials were used for the pipes alone.

The engineering company KBR (Houston, Texas) selected ArmaSound Industrial Systems for thermal and acoustic insulation. The Armacell insulation constructions meet the requirements of the international standard ISO 15665. Acoustic insulation for pipes, valves and flanges'. KBR specified the new ArmaSound Industrial System D, which was developed specifically for Class D of Shell Specification DEP Nr. 31.46.00.31.

This sandwich construction, which meets the highest noise control requirements, consists of a multilayered insulation system. The closed-cell insulation material Armaflex provides the insulated installations with reliable protection against water ingress and energy losses. The acoustic foam ArmaSound RD 240 has excellent sound absorption properties and reduces noise from the installations considerably. ArmaSound Industrial System D benefits from a double layer of this material (two 25 mm sheets). Noise control is further optimized by the use of a layer of ArmaSound Barrier E, a sound control barrier mat made of vinyl.

The rubber-based cladding system Arma-Chek R protects the installations effectively against corrosion under insulation (CUI) and

mechanical impact. In comparison to traditional insulation constructions, ArmaSound Industrial Systems meet the target requirements with a reduced insulation construction and weight. Furthermore, the fibre-free systems offer benefits during installation and are easier to maintain.

Approximately 1,200 m² of ArmaSound Industrial Systems were installed on pipes and other plant components. The insulation company Kaefer was responsible for the detailed insulation engineering in this project. An Armacell application specialist provided the local insulation contractors with training in the application of the new insulation system beforehand. The ammonia production facilities went into operation, some three months ahead of schedule.



Finished bend at Ammonia-Urea-Melamine (AUM) complex.

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