

Made in Italy for the European gas

The plant in Rotterdam, the biggest one in Holland and the sixth one in the world for its capacity, has been realized by the joint-venture between Techint E&C Italia-SENER and TSEV Consortium. Gate is one of the biggest terminals LNG (Liquified Natural Gas) in Europe, with initial productive capacity of 12 billion m³/year and three storage tanks of 180.000 m³. The terminal can satisfy natural gas requirements of all population of Netherlands and some part of Europe. The total value of the project is 800 million EUR. The terminal Gate has been nominated for “**The Project LNG of the Year**” by the European Construction Institute (ECI) and by the European Gas Conference Awards, the prize assigned by the organization of the international event in collaboration with the renowned editor Natural Gas Europe.

INVESTMENT
800 MILLION EUR

CAPACITY OF THE
PLANT
12 BILLION M³

AWARD
LNG
OF THE YEAR



Three storage tanks of 180.000 m³



LNG carrier transports liquified natural gas to terminal LNG



3.000 junction boxes of Palazzoli have been installed in the terminal of Rotterdam

ALUPRES-EX Series

THE TERMINAL OF ROTTERDAM



ALUPRES-EX



Risk Profile

All areas of the terminal are classified according to the ATEX directive (primarily Regulation EN60079-10) to guarantee an adequate selection of electrical plants and to reduce to a minimum possibility of eventual loss of combustible materials that may be triggered. The location in the port made possible to identify zone 2 (limited risk) and minimize the presence of zone 1 and zone 0 (the greatest risk).

The Solution: ALUPRES-EX

3.000 ALUPRES-EX junction boxes are installed in the terminal of Rotterdam. Each box is equipped with brass cable glands IP68 "EX e" and terminals EX nA". Each box is predisposed to inner and outer earthing. The boxes meet the regulations EN60079-0, EN60079-15, EN61241-1, EN60529. The qualification of the boxes has been realized in cooperation with the independent laboratory INTEK (certified TUV). The boxes have been tested 100% to guarantee the declared mode of protection ATEX. The whole plant has been certified by Bureau Veritas.