

 Saint-Gobain PAM 91, Avenue de la libération F - 54076 Nancy 10	
Unique Identification Code of the product-type: AI001A Declaration of performances N° DoP-INTEGRAL001EN EN598 Ductile iron pipes, fittings, accessories and their joints for sewerage applications INTEGRAL Range Pipes, fittings and joints for DN80 to 2000	
Essential characteristics requirement	Performances
Dimension tolerances Internal pressure strength Impact resistance <ul style="list-style-type: none"> • Pipes • Fittings Longitudinal bending strength Maximum load for admissible deformation Tightness : gas and liquid <ul style="list-style-type: none"> • Internal pressure • Vacuum • External pressure • Cyclic pressure 	Comply with 420 Mpa 230 HB 250 HB Comply with Comply with 2 bar -0.9 bar 2 bar 24 000 cycles
Durability aspects	
<u>External coatings :</u> Pipes <ul style="list-style-type: none"> • Zinc • Zn Al alloy • Polyethylene • Polyurethane • Cement mortar • Polyurethane foam Fittings <ul style="list-style-type: none"> • Epoxy • Polyurethane <u>Internal coatings:</u> Pipes <ul style="list-style-type: none"> • High alumina cement mortar • Polyurethane Fittings <ul style="list-style-type: none"> • Epoxy • Polyurethane 	200g/m ² 400g/m ² Comply with EN14 628 Comply with EN15 189 Comply with EN15 542 Comply with DIN 8074-8075 Comply with EN14 901 Comply with Comply with Comply with EN15 655 Comply with EN14 901 Comply with EN15 655
Chemical resistance to effluents Abrasion resistance	Comply with Comply with

 Saint-Gobain PAM 91, Avenue de la libération F - 54076 Nancy 10	
Unique Identification Code of the product-type: AP001A Declaration of performances N° DoP-PLUVIAL001EN EN598 Ductile iron pipes, fittings, accessories and their joints for sewerage applications PLUVIAL Range Pipes, fittings and joints for DN350 to 2000	
Essential characteristics requirement	Performances
Dimension tolerances Internal pressure strength Impact resistance <ul style="list-style-type: none"> • Pipes • Fittings Longitudinal bending strength Maximum load for admissible deformation Tightness : gas and liquid <ul style="list-style-type: none"> • Internal pressure • Vacuum • External pressure 	Comply with 420 Mpa 230 HB 250 HB Comply with Comply with 2 bar -0.9 bar 2 bar
Durability aspects	
<u>External coatings :</u> Pipes <ul style="list-style-type: none"> • Zinc Fittings <ul style="list-style-type: none"> • Epoxy <u>Internal coatings:</u> Pipes <ul style="list-style-type: none"> • High alumina cement mortar Fittings <ul style="list-style-type: none"> • Epoxy 	130g/m ² Comply with EN14 901 Comply with Comply with EN14 901
Chemical resistance to effluents Abrasion resistance	Comply with Comply with

 Saint-Gobain PAM 91, Avenue de la libération F - 54076 Nancy 10	
Unique Identification Code of the product-type: AT001A Declaration of performances N° DoP-TAG001EN EN598 Ductile iron pipes, fittings, accessories and their joints for sewerage applications TAG 32 Range Pipes, fittings and joints for DN125 to 300	
Essential characteristics requirement	Performances
Dimension tolerances Internal pressure strength Impact resistance <ul style="list-style-type: none"> • Pipes • Fittings Longitudinal bending strength Maximum load for admissible deformation Tightness : gas and liquid <ul style="list-style-type: none"> • Internal pressure • Vacuum • External pressure 	Comply with 420 Mpa 230 HB 250 HB Comply with Comply with 2 bar -0.9 bar 2 bar
Durability aspects	
<u>External coatings :</u> Pipes <ul style="list-style-type: none"> • Zinc • ZnAl Alloy Fittings <ul style="list-style-type: none"> • Epoxy <u>Internal coatings:</u> Pipes <ul style="list-style-type: none"> • Epoxy Fittings <ul style="list-style-type: none"> • Epoxy 	200g/m ² 400g/m ² Comply with EN14 901 Comply with Comply with EN14 901
Chemical resistance to effluents Abrasion resistance	Comply with Comply with

Comply with = in accordance with EN598

Product Accompanying Documents acc. ZA.2: INTEGRAL, PLUVIAL, TAG32 Range, PAD_INTEGRALPLUVIALTAG001EN_2013-06-18