

# TECHNICAL DATA SHEET



Saudi Industries for Pipes Co.

## PIPES APPLICATIONS

FOR PRESSURE WATER APPLICATIONS.

Control No.: QC/TDS/101/21 2-4

## STANDARD SPECIFICATION

SASO 14/15; DIN 8061/8062 CLASS 5 PN 16 GREY

TEST PROPERTY	SPECIFICATION	TEST METHOD	RESULT
Cell Designation	12454-B	ASTM D 1784	Passed
Impact Izod	80.1 J/m of notch	ASTM D 256	Passed
Tensile Strength	49.6 Mpa	ASTM D 639	Passed
Impact Resistance	No broken and visibility of crack	SASO 14/15 & DIN 8061/8062	Passed
Modulus of Elasticity in tension	≥2482 Mpa	ASTM D 639	Passed
Heat deflection temp. @ 1.82 MPa	158°F	ASTM D 648	Passed
Outside Diameter	Refer to the attached pipes dimension specification	SASO 14/15 & DIN 8061/8062	Passed
Wall Thickness	Refer to the attached pipes dimension specification	SASO 14/15 & DIN 8061/8062	Passed
Length	Refer to the attached pipes dimension specification	SIP STANDARD	Passed
Chemical Test (Methylene Chloride)	No chemical attack within (20 minutes Immersion to Methylene chloride)	SASO 14/15 & DIN 8061/8062	Passed
Opacity	< 0.2%	SASO 1177 / GS867	Passed
Heat Reversion (1HR)	Shrinkage is not more than 5 % and no visibility of crack and blister on surface.	SASO 14/15 & DIN 8061/8062	Passed
Hydrostatic Pressure Test (1HR)	No ballooning, busting and weeping under below test pressure 67 kg/cm <sup>2</sup> @ 20 °C water.	SASO 14/15 & DIN 8061/8062	Passed
Pressure Rating	16 Bars	SASO 14/15 & DIN 8061/8062	Passed

### Saudi Industries for Pipes Co.

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Size	Outside Diameter	Wall Thickness	Length	Status
25	25 + 0.2/ 0	1.9 + 0.4/ 0	6000 ± 10	Passed
32	32 + 0.2/ 0	2.4 + 0.5/ 0		Passed
40	40 + 0.2/ 0	3.0 + 0.5/ 0		Passed
50	50 + 0.2/ 0	3.7 + 0.6/ 0		Passed
63	63 + 0.2/ 0	4.7 + 0.7/ 0		Passed
75	75 + 0.3 / 0	5.6 + 0.8/ 0		Passed
90	90 + 0.3/ 0	6.7 + 0.9/ 0		Passed
110	110 + 0.3/ 0	8.2 + 1.1/ 0		Passed
160	160 + 0.4/ 0	11.9 + 1.4/ 0		Passed
200	200 + 0.4/ 0	14.9 + 1.4/ 0		Passed
225	225 + 0.5/ 0	16.7 + 1.9/ 0		Passed
250	250 + 0.5/ 0	18.6 + 2.1/ 0		Passed
315	250 + 0.6/ 0	23.4 + 2.6/ 0		Passed
400	400 + 0.7/ 0	29.7 + 3.2/ 0		Passed

**Note:** All dimensions are in mm

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## PIPES APPLICATIONS

FOR PRESSURE WATER APPLICATIONS

Control No.: QC/TDS/107/21 1-5

## STANDARD SPECIFICATION

SASO ISO 1452 SDR 33 PN 6 AND PN 8

Test Property	Specification	Test Method	Result
Cell Designation	12454-B	ASTM D 1784	PASSED
Impact Izod	80.1 J/m of notch	ASTM D 256	PASSED
Tensile Strength	48.6 MPa	ASTM D 639	PASSED
Modulus of Elasticity in Tension	2880 MPa	ASTM D 639	PASSED
Heat Deflection temp. @ 1.82 MPa	158°F (70°C)	ASTM D 648	PASSED
Outside Diameter	Refer to the attached pipes dimension & pressure specification	SASO ISO 1452 DIN 8061/8062	PASSED
Wall Thickness	Refer to the attached pipes dimension & pressure specification	SASO ISO 1452 DIN 8061/8062	PASSED
Length	6000 ± 10	SIP STANDARD	PASSED
Burial Depth	0.6 m to 6 m	SIP STANDARD	PASSED
Chemical Test (Methylene Chloride)	No chemical attack within 30 minutes Immersion to Methylene chloride	SASO ISO 1452 DIN 8061/8062	PASSED
Impact Resistance	No broken and visibility of crack when tested after 1-hour conditioning @ 0°C.	SASO ISO 1452 DIN 8061/8062	PASSED
Opacity	< 0.2%	SASO 1177 / GS867	PASSED
Heat Reversion	Shrinkage not be more than 5 % and no visibility of crack and blister on surface.	SASO ISO 1452 DIN 8061/8062	PASSED
Hydrostatic Pressure Test	No ballooning, busting and weeping under test pressure of 25.5 kg/cm <sup>2</sup> @ 20°C water.	SASO ISO 1452 DIN 8061/8062	PASSED
Pressure Rating	Refer to the attached pipes dimension & pressure specification	SASO ISO 1452 DIN 8061/8062	PASSED

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## PIPE DIMENSION SPECIFICATION

Size	Outside Diameter	Wall Thickness	Pressure Rating	Status
40	40 + 0.2/ 0	1.5 + 0.4/ 0	PN 6	PASSED
50	50 + 0.2/ 0	1.6 + 0.4/ 0		PASSED
63	63 + 0.3/ 0	2 + 0.4/ 0		PASSED
75	63 + 0.3/ 0	2.3 + 0.5/ 0		PASSED
90	90 + 0.3/ 0	2.8 + 0.5/ 0		PASSED
110	110 + 0.4/ 0	3.4 + 0.6/ 0		PASSED
160	160 + 0.5/ 0	4.9 + 0.7/ 0		PASSED
200	200 + 0.6/ 0	6.2 + 0.9/ 0	PN 8	PASSED
225	225 + 0.7/ 0	6.9 + 0.9/ 0		PASSED
250	250 + 0.8/ 0	7.7 + 1.0/ 0		PASSED
280	280 + 0.9/ 0	8.6 + 1.1/ 0		PASSED
315	315 + 1.0/ 0	9.7 + 1.2/ 0		PASSED
400	400 + 1.2/ 0	12.3 + 1.5/ 0		PASSED
500	500 + 1.5/ 0	15.3 + 1.8/ 0		PASSED

**Note:**

1. All dimension unit are in mm unless otherwise specify.
2. The standard specification are equivalent to cancelled standards SASO 14/15:1998 Class 3 uPVC pipes.

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# TECHNICAL DATA SHEET



## PIPES APPLICATION FOR PRESSURE WATER APPLICATIONS.

Control No.: QC/TDS/107/21 1-5

## STANDARD SPECIFICATION SASO ISO 1452 SDR 13.6 PN 16 GREY

Test Property	Specification	Test Method	Result
Cell Designation	12454-B	ASTM D 1784	Passed
Impact Izod	80.1 J/m of notch	ASTM D 256	Passed
Tensile Strength	48.6 Mpa	ASTM D 639	Passed
Impact Resistance	No broken and visibility of crack when tested after 1-hour conditioning @ 0°C.	SASO ISO 1452 DIN 8061/8062	Passed
Modulus of Elasticity in Tension	3880 Mpa	ASTM D 639	Passed
Heat Deflection temp. @ 1.82 MPa	158°F (70°C)	ASTM D 648	Passed
Outside Diameter	Refer to the attached pipes dimension & pressure specification	SASO ISO 1452 DIN 8061/8062	Passed
Wall Thickness	Refer to the attached pipes dimension & pressure specification	SASO ISO 1452 DIN 8061/8062	Passed
Length	6000 ± 10	SIP STANDARD	Passed
Chemical Test (Methylene Chloride)	No chemical attack within 30 minutes Immersion to Methylene chloride	SASO ISO 1452 DIN 8061/8062	Passed
Opacity	< 0.2%	SASO 1177 / GS867	Passed
Heat Reversion	Shrinkage not be more than 5 % and no visibility of crack and blister on surface.	SASO ISO 1452 DIN 8061/8062	Passed
Hydrostatic Pressure Test	No ballooning, busting and weeping under test pressure of 67 kg/cm <sup>2</sup> @ 20°C water.	SASO ISO 1452 DIN 8061/8062	Passed
Pressure Rating	Refer to the attached pipes dimension & pressure specification	SASO ISO 1452 DIN 8061/8062	Passed

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Size	Outside Diameter	Wall Thickness	Rating Pressure	Remarks
25	25 + 0.2/0	1.9 + 0.4/0	16 BARS	PASSED
32	32 + 0.2/0	2.4 + 0.5/0		PASSED
40	40 + 0.2/0	3.0 + 0.5/0		PASSED
50	50 + 0.2/0	3.7 + 0.6/0		PASSED
63	63 + 0.3/0	4.7 + 0.7/0		PASSED
75	75 + 0.3/0	5.6 + 0.8/0		PASSED
90	90 + 0.3/0	6.70 + 0.9/0		PASSED

## PIPE DIMENSION & PRESSURE SPECIFICATION

- 1- This standard SASO ISO 1452 is the replacement of the cancelled standard SASO 14/15:1998 uPVC pipes.
- 2- All measurement unit use in dimension is in mm and Bars in burst pressure unless specify

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# TECHNICAL DATA SHEET



## PIPES APPLICATION

FOR PRESSURE WATER APPLICATIONS.

Control No.: QC/TDS/109/21 2-1

## STANDARD SPECIFICATION

SASO ISO 1452 SDR 17 PN 16 GREY

Test Property	Specification	Test Method	Result
Cell Designation	12454-B	ASTM D 1784	Passed
Impact Izod	80.1 J/m of notch	ASTM D 256	Passed
Tensile Strength	49.6 MPa	ASTM D 639	Passed
Impact Resistance	No broken and visibility of crack when tested after 1 hour conditioning @ 0°C.	SASO ISO 1452 DIN 8061/8062	Passed
Modulus of Elasticity in Tension	≥3880 MPa	ASTM D 639	Passed
Heat Deflection temp. @ 1.82 MPa	158°F	ASTM D 648	Passed
Outside Diameter	Refer to the attached pipes dimension & pressure specification	SASO ISO 1452 DIN 8061/8062	Passed
Wall Thickness	Refer to the attached pipes dimension & pressure specification	SASO ISO 1452 DIN 8061/8062	Passed
Length	6000± 10	SASO ISO 1452 DIN 8061/8062	Passed
Chemical Test (Methylene Chloride)	No chemical attack within 30 minutes Immersion to Methylene chloride	SASO ISO 1452 DIN 8061/8062	Passed
Opacity	< 0.2%	SASO 1177 / GS867	Passed
Heat Reversion	Shrinkage not be more than 5 % and no visibility of crack and blister on surface.	SASO ISO 1452 DIN 8061/8062	Passed
Hydrostatic Pressure Test	No ballooning, busting and weeping under test pressure of 53 kg/cm <sup>2</sup> @ 20°C water.	SASO ISO 1452 DIN 8061/8062	Passed
Pressure Rating	Refer to the attached pipes dimension & pressure specification	SASO ISO 1452 DIN 8061/8062	Passed

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## DIMENSION & PRESSURE SPECIFICATION

Size	Outside Diameter	Wall Thickness	Rating Pressure	Remarks
110	110 + 0.4/ 0	6.6 + 0.9/ 0	16	Passed
160	160 + 0.5/ 0	9.5 + 1.2/ 0		Passed
200	200 + 0.6/ 0	11.9 + 1.4/ 0		Passed
225	225 + 0.7/ 0	13.4 + 1.6/ 0		Passed
250	250 + 0.8/ 0	14.8 + 1.7/ 0		Passed
315	315 + 1.0/ 0	18.7 + 2.1/ 0		Passed
400	400 + 1.2/ 0	23.7 + 2.6/ 0		Passed

1. This standard SASO ISO 1452 SDR 17 is the replacement of the cancelled standard SASO 14/15 Class 5 uPVC pipes.
2. All measurement unit use in dimension are in mm and Bars for pressure unless specify.

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## PIPES APPLICATION

FOR PRESSURE WATER APPLICATIONS.

Control No.: QC/TDS/105/21 2-1

## STANDARD SPECIFICATION

SASO ISO 1452 SDR 21 PN 10

TEST PROPERTY	SPECIFICATION	TEST METHOD	RESULT
Cell Designation	12454-B	ASTM D 1784	Passed
Impact Izod	80.1 J/m of notch	ASTM D 256	Passed
Tensile Strength	48.8 MPa	ASTM D 639	Passed
Impact Resistance	No broken and visibility of crack when tested after 1 hour conditioning @ 0°C.	SASO ISO 1452 DIN 8061/8062	Passed
Modulus of Elasticity in Tension	≥3880 MPa	ASTM D 639	Passed
Heat deflection temp. @ 1.82 MPa	158°F	ASTM D 648	Passed
Outside Diameter	Refer to the attached pipes dimension & pressure specification	SASO ISO 1452 DIN 8061/8062	Passed
Wall Thickness	Refer to the attached pipes dimension & pressure specification	SASO ISO 1452 DIN 8061/8062	Passed
Length	6000± 10	SASO ISO 1452 DIN 8061/8062	Passed
Chemical Test (Methylene Chloride)	No chemical attack within 30 minutes Immersion to Methylene chloride	SASO ISO 1452 DIN 8061/8062	Passed
Opacity	< 0.2%	SASO 1177 / GS867	Passed
Heat Reversion	Shrinkage not be more than 5 % and no visibility of crack and blister on surface.	SASO ISO 1452 DIN 8061/8062	Passed
Hydrostatic Pressure Test	No ballooning, busting and weeping under test pressure of 42 kg/cm <sup>2</sup> @ 20°C water.	SASO ISO 1452 DIN 8061/8062	Passed
Pressure Rating	Refer to the attached pipes dimension & pressure specification	SASO ISO 1452 DIN 8061/8062	Passed

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## DIMENSION & PRESSURE SPECIFICATION

Size	Outside Diameter	Wall Thickness	Pressure Rating	Status
32	32 + 0.2/ 0	1.6 + 0.4/ 0	10 BARS	Passed
40	40 + 0.2/ 0	1.9 + 0.4/ 0		Passed
50	50 + 0.2/ 0	2.4 + 0.5/ 0		Passed
63	63 + 0.3/ 0	3 + 0.5/ 0		Passed
75	75 + 0.3/ 0	3.6 + 0.6/ 0		Passed
90	90 + 0.3/ 0	4.3 + 0.7/ 0		Passed

1. This standard SASO ISO 1452 SDR 21 is the replacement of the cancelled standard SASO 14/15 Class 4 uPVC pipes.
2. All measurement unit use in dimension are in mm and Bars for pressure unless specify.

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# TECHNICAL DATA SHEET



## PIPES APPLICATIONS FOR PRESSURE WATER APPLICATIONS.

Control No.: QC/TDS/106/21 2-1

## STANDARD SPECIFICATION SASO ISO 1452 SDR 26 PN 10

Test Property	Specification	Test Method	Result
Cell Designation	12454-B	ASTM D 1784	Passed
Impact Izod	80.1 J/m of notch	ASTM D 256	Passed
Tensile Strength	48.8 MPa	ASTM D 638	Passed
Modulus of Elasticity in Tension	3880 MPa	ASTM D 638	Passed
Impact Resistance	No broken and visibility of crack when tested after 1 hour conditioning @ 0°C.	SASO ISO 1452 DIN 8061/8062	Passed
Heat Deflection temp. @ 1.82 MPa	158°F (70°C)	ASTM D 648	Passed
Outside Diameter	Refer to the attached pipes dimension & pressure specification	SASO ISO 1452 DIN 8061/8062	Passed
Wall Thickness	Refer to the attached pipes dimension & pressure specification	SASO ISO 1452 DIN 8061/8062	Passed
Length	6000± 10	SASO ISO 1452 DIN 8061/8062	Passed
Chemical Test (Methylene Chloride)	No chemical attack within 30 minutes Immersion to Methylene chloride	SASO ISO 1452 DIN 8061/8062	Passed
Opacity	< 0.2%	SASO 1177 / GS867	Passed
Vicat Softening temp	83 °C	SASO ISO 1452 DIN 8061/8062	Passed
Heat Reversion	Shrinkage not be more than 5 % and no visibility of crack and blister on surface.	SASO ISO 1452 DIN 8061/8062	Passed
Hydrostatic Pressure Test	No ballooning, busting and weeping under test pressure of 33.3 kg/cm <sup>2</sup> @ 20°C water.	SASO ISO 1452 DIN 8061/8062	Passed
Pressure Rating	10 BARS	SASO ISO 1452 DIN 8061/8062	Passed

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## DIMENSION & PRESSURE SPECIFICATION

Size	Outside Diameter	Wall Thickness	Pressure Rating	Status
110	110 + 0.4	4.2 + 0.7/ 0	10 BARS	Passed
160	160 + 0.5	6.2 + 0.9/ 0		Passed
200	200 + 0.6	7.7 + 1.0/ 0		Passed
250	250 + 0.8	9.6 + 1.2/ 0		Passed
315	315 + 1.0	12.1 + 1.5/ 0		Passed
400	400 + 1.2	15.3 + 1.8/ 0		Passed
500	500 + 1.5	19.1 + 2.2/ 0		Passed

1. This standard of SASO is the replacement of the cancelled standard SASO 14/15 Class 4 uPVC pipes.
2. All measurement unit use in dimension are in mm and Bars for pressure unless specify.

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