

Air System Sizing Summary for Sistema N1

Project Name: Tribunales San Lorenzo

02/22/2022

07:15

Air System Information

Air System Name: **Sistema N1**
Air System Type:..... **Fan Coils/WSHPs**

Number of zones: **24**
Floor Area:..... **496.0** sqm
Location:..... **San Lorenzo, Argentina**

Sizing Calculation Information

Calculation Months:.....**Jan to Dec**

Calculation method: **Transfer Function Method**

Zone Sizing Data

Zone Name	Maximum Cooling Sensible kW	Design Airflow L/s	Time of Peak Load	Maximum Heating Load kW	Zone Floor Area sqm	Zone L/(s-sqm)
*N1 - Empleados Fisc.	1.1	85	Jan 1700	1.5	14.0	6.06
*N1 - Paso jueces	1.7	128	Jan 1300	2.1	11.7	10.93
*N1 - Sede Coleg. Abog.	2.9	214	Jan 1500	1.8	15.4	13.88
*N1 1.01 At. al público	1.4	101	Jan 1800	1.7	15.2	6.66
*N1 1.02 Sala IPP	2.2	164	Jan 1500	1.9	23.3	7.03
*N1 1.03 Juez	1.5	109	Jan 1500	1.1	11.3	9.61
*N1 1.04 Juez	1.7	123	Jan 1500	1.3	11.7	10.54
*N1 1.05 Juez	1.9	138	Feb 1500	1.8	14.0	9.84
*N1 1.08 S. Juicio Oral	6.0	441	Jan 1400	4.1	58.0	7.61
*N1 1.09 Sala IPP	2.0	145	Jan 1800	1.9	24.0	6.05
*N1 1.07 Sala Reuniones	2.0	149	Jan 1300	2.1	15.2	9.83
*N1 1.10 Empleados	2.2	166	Jan 1500	1.8	18.0	9.24
*N1 1.11 Jefe Unidad	0.6	48	Jan 1700	0.9	8.9	5.34
*N1 1.12 Evidencias	0.4	34	Jan 1800	0.9	4.8	7.03
*N1 Defensor Gral.	1.7	124	Jan 1500	1.7	11.6	10.67
*N1 Empleados Defens. 1	1.4	104	Jan 1500	1.0	9.2	11.35
*N1 Empleados Defens. 2	1.8	134	Feb 1500	1.7	11.6	11.53
*N1 Fiscal	1.8	135	Jan 1500	1.5	12.3	10.98
*N1 Hall PB A	8.0	590	Jan 1400	7.8	79.0	7.46
*N1 Hall PB B	3.3	243	Jan 1400	4.6	26.5	9.16
*N1 Hall PB C	5.3	391	Jan 1400	7.6	48.0	8.14
*N1 Informes y atención	1.1	84	Jan 1700	1.5	18.0	4.65
*N1 M Entrada Defensoría	1.2	90	Jan 1300	1.0	9.2	9.81
*N1 S. Espera Defensoría	2.1	156	Jan 1400	2.5	25.1	6.22

Terminal Unit Sizing Data - Cooling

Zone Name	Total Coil Loads kW	Sensible Coil Load kW	Coil Entering DB/WB C	Coil Leaving DB/WB C	Time of Peak Load
*N1 - Empleados Fisc.	1.8	1.2	25.4 / 19.0	13.2 / 12.7	Jan 1700
*N1 - Paso jueces	2.6	1.9	25.3 / 18.4	12.9 / 12.3	Jan 1300
*N1 - Sede Coleg. Abog.	4.2	3.2	25.5 / 18.5	13.1 / 12.5	Jan 1500
*N1 1.01 At. al público	2.1	1.5	25.4 / 18.9	13.3 / 12.7	Jan 1700
*N1 1.02 Sala IPP	3.5	2.4	25.5 / 18.8	13.1 / 12.5	Jan 1500
*N1 1.03 Juez	2.2	1.6	25.5 / 18.6	13.1 / 12.5	Jan 1500
*N1 1.04 Juez	2.5	1.8	25.5 / 18.6	13.1 / 12.5	Jan 1500
*N1 1.05 Juez	2.8	2.0	25.3 / 18.6	13.1 / 12.5	Feb 1400
*N1 1.08 S. Juicio Oral	9.2	6.5	25.2 / 18.7	12.9 / 12.3	Dec 1300
*N1 1.09 Sala IPP	3.1	2.2	25.4 / 19.0	13.1 / 12.6	Jan 1600
*N1 1.07 Sala Reuniones	3.0	2.2	25.4 / 18.6	13.1 / 12.5	Jan 1400
*N1 1.10 Empleados	3.4	2.4	25.4 / 18.7	13.1 / 12.6	Dec 1400
*N1 1.11 Jefe Unidad	1.0	0.7	25.4 / 19.1	13.2 / 12.7	Feb 1700
*N1 1.12 Evidencias	0.6	0.4	25.2 / 19.2	14.1 / 13.6	Jan 1800
*N1 Defensor Gral.	2.5	1.8	25.4 / 18.6	13.1 / 12.5	Jan 1400
*N1 Empleados Defens. 1	2.1	1.6	25.5 / 18.5	13.1 / 12.5	Jan 1500
*N1 Empleados Defens. 2	2.7	2.0	25.4 / 18.6	13.1 / 12.5	Dec 1500
*N1 Fiscal	2.7	2.0	25.4 / 18.6	13.1 / 12.5	Dec 1500
*N1 Hall PB A	14.9	9.5	26.5 / 20.0	13.2 / 12.7	Dec 1400
*N1 Hall PB B	4.9	3.6	25.5 / 18.8	13.4 / 12.8	Jan 1500
*N1 Hall PB C	8.1	5.8	25.4 / 18.7	13.0 / 12.4	Jan 1500
*N1 Informes y atención	1.8	1.2	25.4 / 19.2	13.2 / 12.7	Jan 1700
*N1 M Entrada Defensoría	1.8	1.3	25.5 / 18.6	13.1 / 12.5	Jan 1500

Air System Sizing Summary for Sistema N1

Project Name: Tribunales San Lorenzo
Prepared by: Ing. Peressutti

02/22/2022
07:15

*N1 S. Espera Defensoría	3.3	2.3	25.4 / 19.0	13.2 / 12.7	Dec 1500
--------------------------	-----	-----	-------------	-------------	----------

Terminal Unit Sizing Data - Heating, Fan, Ventilation

Zone Name	Heating Coil Load kW	Heating Coil Ent/Lvg DB C	Fan Design Airflow L/s	Fan Motor BHP	Fan Motor kW	Vent Design Airflow L/s
*N1 - Empleados Fisc.	1.7	19.4 / 36.2	85	0.00	0.00	8
*N1 - Paso jueces	2.4	19.5 / 35.0	128	0.00	0.00	13
*N1 - Sede Coleg. Abog.	2.4	19.4 / 28.7	214	0.00	0.00	21
*N1 1.01 At. al público	2.0	19.5 / 35.8	101	0.00	0.00	10
*N1 1.02 Sala IPP	2.4	19.5 / 31.6	164	0.00	0.00	16
*N1 1.03 Juez	1.4	19.5 / 30.2	109	0.00	0.00	11
*N1 1.04 Juez	1.6	19.6 / 30.6	123	0.00	0.00	12
*N1 1.05 Juez	2.1	19.5 / 32.3	138	0.00	0.00	14
*N1 1.08 S. Juicio Oral	5.2	19.5 / 29.3	441	0.00	0.00	44
*N1 1.09 Sala IPP	2.3	19.5 / 32.7	145	0.00	0.00	15
*N1 1.07 Sala Reuniones	2.4	19.4 / 33.0	149	0.00	0.00	15
*N1 1.10 Empleados	2.3	19.5 / 30.8	166	0.00	0.00	17
*N1 1.11 Jefe Unidad	1.0	19.3 / 36.2	48	0.00	0.00	5
*N1 1.12 Evidencias	1.0	19.4 / 43.1	34	0.00	0.00	3
*N1 Defensor Gral.	2.0	19.5 / 33.0	124	0.00	0.00	12
*N1 Empleados Defens. 1	1.3	19.4 / 29.7	104	0.00	0.00	10
*N1 Empleados Defens. 2	2.0	19.3 / 31.7	134	0.00	0.00	13
*N1 Fiscal	1.9	19.6 / 31.0	135	0.00	0.00	14
*N1 Hall PB A	10.8	17.2 / 32.4	590	0.00	0.00	118
*N1 Hall PB B	5.2	19.4 / 37.0	243	0.00	0.00	24
*N1 Hall PB C	8.6	19.4 / 37.7	391	0.00	0.00	39
*N1 Informes y atención	1.7	19.3 / 36.1	84	0.00	0.00	8
*N1 M Entrada Defensoría	1.2	19.3 / 30.3	90	0.00	0.00	9
*N1 S. Espera Defensoría	2.9	19.4 / 34.9	156	0.00	0.00	16

System Design Load Summary for Sistema N1

Project Name: Tribunales San Lorenzo
Prepared by: Ing. Peressutti

02/22/2022
07:15

	DESIGN COOLING			DESIGN HEATING		
	Jan 1500 OA DB / WB 37 C / 28 C			Design Heating Day OA DB / WB -0.6 C / -3.2 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	193 sqm	13343	-	193 sqm	-	-
Wall Transmission	355 sqm	7298	-	355 sqm	13675	-
Roof Transmission	15 sqm	237	-	15 sqm	205	-
Window Transmission	193 sqm	3650	-	193 sqm	7522	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	2 sqm	127	-	2 sqm	89	-
Floor Transmission	505 sqm	716	-	505 sqm	2967	-
Partitions/Ceilings	1238 sqm	5995	-	1238 sqm	23639	-
Overhead Lighting	3968 W	3968	-	0 W	0	-
Electric Equipment	8755 W	8755	-	0 W	0	-
People	118	8187	5470	0	0	0
Infiltration	-	2657	5196	-	7614	1
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>>Total Zone Loads	-	54934	10666	-	55710	1
Thermostat and Pulldown Adjustment	-	-998	0	-	-484	0
Plenum Wall Load	0%	0	-	0	0	-
Plenum Roof Load	0%	0	-	0	0	-
Plenum Lighting Load	0%	0	-	0	0	-
Ventilation Load	469 L/s	7195	14372	469 L/s	12539	0
Supply Fan Load	- L/s	0	-	- L/s	0	-
>> Total System Loads	-	61131	25039	-	67765	1
Terminal Unit Cooling	-	61131	25046	-	0	0
Terminal Unit Heating	-	0	-	-	67765	-
>> Total Coil Loads	-	61131	25046	-	67765	0
Key:	Positive values are clg loads Negative values are htg loads			Positive values are htg loads Negative values are clg loads		

Zone Design Load Summary for Sistema N1

Project Name: Tribunales San Lorenzo
Prepared by: Ing. Peressutti

02/22/2022
07:15

*N1 - Empleados Fisc.	DESIGN COOLING			DESIGN HEATING		
	Jan 1700			Design Heating Day		
	OA DB / WB 35.8 C / 27.7 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	0 sqm	0	-	0 sqm	-	-
Wall Transmission	11 sqm	180	-	11 sqm	419	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	0 sqm	0	-	0 sqm	0	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	14 sqm	0	-	14 sqm	0	-
Partitions/Ceilings	49 sqm	291	-	49 sqm	1089	-
Overhead Lighting	112 W	112	-	0 W	0	-
Electric Equipment	420 W	420	-	0 W	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1146	120	-	1508	0

*N1 - Paso jueces	DESIGN COOLING			DESIGN HEATING		
	Jan 1300			Design Heating Day		
	OA DB / WB 35.7 C / 27.7 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	8 sqm	657	-	8 sqm	-	-
Wall Transmission	16 sqm	419	-	16 sqm	622	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	8 sqm	140	-	8 sqm	322	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	12 sqm	54	-	12 sqm	145	-
Partitions/Ceilings	51 sqm	229	-	51 sqm	967	-
Overhead Lighting	94 W	93	-	0 W	0	-
Electric Equipment	0 W	0	-	0 W	0	-
People	2	135	70	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1727	70	-	2055	0

Zone Design Load Summary for Sistema N1

Project Name: Tribunales San Lorenzo
Prepared by: Ing. Peressutti

02/22/2022
07:15

*N1 - Sede Coleg. Abog.	DESIGN COOLING			DESIGN HEATING		
	Jan 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	12 sqm	1661	-	12 sqm	-	-
Wall Transmission	14 sqm	227	-	14 sqm	545	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	12 sqm	219	-	12 sqm	451	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	15 sqm	0	-	15 sqm	45	-
Partitions/Ceilings	40 sqm	210	-	40 sqm	802	-
Overhead Lighting	123 W	123	-	0 W	0	-
Electric Equipment	231 W	231	-	0 W	0	-
People	3	215	180	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	2886	180	-	1843	0

*N1 1.01 At. al público	DESIGN COOLING			DESIGN HEATING		
	Jan 1800			Design Heating Day		
	OA DB / WB 34.5 C / 27.4 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	0 sqm	0	-	0 sqm	-	-
Wall Transmission	21 sqm	572	-	21 sqm	813	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	0 sqm	0	-	0 sqm	0	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	15 sqm	30	-	15 sqm	119	-
Partitions/Ceilings	45 sqm	196	-	45 sqm	788	-
Overhead Lighting	122 W	122	-	0 W	0	-
Electric Equipment	304 W	304	-	0 W	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1367	120	-	1721	0

Zone Design Load Summary for Sistema N1

Project Name: Tribunales San Lorenzo
Prepared by: Ing. Peressutti

02/22/2022
07:15

*N1 1.02 Sala IPP	DESIGN COOLING			DESIGN HEATING		
	Jan 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	3 sqm	443	-	3 sqm	-	-
Wall Transmission	13 sqm	258	-	13 sqm	489	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	3 sqm	66	-	3 sqm	135	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	23 sqm	46	-	23 sqm	183	-
Partitions/Ceilings	65 sqm	282	-	65 sqm	1116	-
Overhead Lighting	186 W	186	-	0 W	0	-
Electric Equipment	500 W	500	-	0 W	0	-
People	6	431	360	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	2212	360	-	1923	0

*N1 1.03 Juez	DESIGN COOLING			DESIGN HEATING		
	Jan 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	2 sqm	305	-	2 sqm	-	-
Wall Transmission	5 sqm	99	-	5 sqm	187	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	2 sqm	45	-	2 sqm	93	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	11 sqm	22	-	11 sqm	89	-
Partitions/Ceilings	41 sqm	189	-	41 sqm	747	-
Overhead Lighting	90 W	90	-	0 W	0	-
Electric Equipment	500 W	500	-	0 W	0	-
People	3	215	180	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1466	180	-	1116	0

Zone Design Load Summary for Sistema N1

Project Name: Tribunales San Lorenzo
Prepared by: Ing. Peressutti

02/22/2022
07:15

*N1 1.04 Juez	DESIGN COOLING			DESIGN HEATING		
	Jan 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	3 sqm	414	-	3 sqm	-	-
Wall Transmission	7 sqm	134	-	7 sqm	254	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	3 sqm	62	-	3 sqm	128	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	12 sqm	56	-	12 sqm	145	-
Partitions/Ceilings	41 sqm	190	-	41 sqm	751	-
Overhead Lighting	94 W	93	-	0 W	0	-
Electric Equipment	500 W	500	-	0 W	0	-
People	3	215	180	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1666	180	-	1278	0

*N1 1.05 Juez	DESIGN COOLING			DESIGN HEATING		
	Feb 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	2 sqm	291	-	2 sqm	-	-
Wall Transmission	23 sqm	478	-	23 sqm	899	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	2 sqm	45	-	2 sqm	93	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	14 sqm	67	-	14 sqm	173	-
Partitions/Ceilings	36 sqm	152	-	36 sqm	602	-
Overhead Lighting	112 W	112	-	0 W	0	-
Electric Equipment	500 W	500	-	0 W	0	-
People	3	215	180	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1861	180	-	1767	0

Zone Design Load Summary for Sistema N1

Project Name: Tribunales San Lorenzo
Prepared by: Ing. Peressutti

02/22/2022
07:15

*N1 1.08 S. Juicio Oral	DESIGN COOLING			DESIGN HEATING		
	Jan 1400			Design Heating Day		
	OA DB / WB 36.6 C / 27.9 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	14 sqm	1122	-	14 sqm	-	-
Wall Transmission	49 sqm	1039	-	49 sqm	1870	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	14 sqm	258	-	14 sqm	551	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	2 sqm	130	-	2 sqm	89	-
Floor Transmission	58 sqm	111	-	58 sqm	455	-
Partitions/Ceilings	82 sqm	280	-	82 sqm	1143	-
Overhead Lighting	464 W	464	-	0 W	0	-
Electric Equipment	870 W	870	-	0 W	0	-
People	25	1685	879	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	5960	879	-	4107	0

*N1 1.09 Sala IPP	DESIGN COOLING			DESIGN HEATING		
	Jan 1800			Design Heating Day		
	OA DB / WB 34.5 C / 27.4 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	1 sqm	105	-	1 sqm	-	-
Wall Transmission	15 sqm	388	-	15 sqm	569	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	1 sqm	23	-	1 sqm	54	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	24 sqm	47	-	24 sqm	188	-
Partitions/Ceilings	65 sqm	275	-	65 sqm	1104	-
Overhead Lighting	192 W	192	-	0 W	0	-
Electric Equipment	500 W	500	-	0 W	0	-
People	6	431	360	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1960	360	-	1915	0

Zone Design Load Summary for Sistema N1

Project Name: Tribunales San Lorenzo
Prepared by: Ing. Peressutti

02/22/2022
07:15

*N1 1.07 Sala Reuniones	DESIGN COOLING			DESIGN HEATING		
	Jan 1300			Design Heating Day		
	OA DB / WB 35.7 C / 27.7 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	5 sqm	182	-	5 sqm	-	-
Wall Transmission	22 sqm	347	-	22 sqm	857	-
Roof Transmission	15 sqm	320	-	15 sqm	205	-
Window Transmission	5 sqm	81	-	5 sqm	187	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	24 sqm	111	-	24 sqm	297	-
Partitions/Ceilings	23 sqm	120	-	23 sqm	508	-
Overhead Lighting	122 W	122	-	0 W	0	-
Electric Equipment	304 W	304	-	0 W	0	-
People	6	431	360	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	2018	360	-	2054	0

*N1 1.10 Empleados	DESIGN COOLING			DESIGN HEATING		
	Jan 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	5 sqm	604	-	5 sqm	-	-
Wall Transmission	23 sqm	400	-	23 sqm	883	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	5 sqm	91	-	5 sqm	187	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	18 sqm	0	-	18 sqm	64	-
Partitions/Ceilings	42 sqm	180	-	42 sqm	710	-
Overhead Lighting	144 W	144	-	0 W	0	-
Electric Equipment	540 W	540	-	0 W	0	-
People	4	287	240	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	2245	240	-	1843	0

Zone Design Load Summary for Sistema N1

Project Name: Tribunales San Lorenzo
Prepared by: Ing. Peressutti

02/22/2022
07:15

*N1 1.11 Jefe Unidad	DESIGN COOLING			DESIGN HEATING		
	Jan 1700			Design Heating Day		
	OA DB / WB 35.8 C / 27.7 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	0 sqm	0	-	0 sqm	-	-
Wall Transmission	0 sqm	0	-	0 sqm	0	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	0 sqm	0	-	0 sqm	0	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	9 sqm	0	-	9 sqm	0	-
Partitions/Ceilings	45 sqm	232	-	45 sqm	869	-
Overhead Lighting	71 W	71	-	0 W	0	-
Electric Equipment	267 W	267	-	0 W	0	-
People	1	72	60	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	642	60	-	869	0

*N1 1.12 Evidencias	DESIGN COOLING			DESIGN HEATING		
	Jan 1800			Design Heating Day		
	OA DB / WB 34.5 C / 27.4 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	0 sqm	0	-	0 sqm	-	-
Wall Transmission	11 sqm	188	-	11 sqm	419	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	0 sqm	0	-	0 sqm	0	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	5 sqm	0	-	5 sqm	19	-
Partitions/Ceilings	23 sqm	109	-	23 sqm	437	-
Overhead Lighting	38 W	38	-	0 W	0	-
Electric Equipment	0 W	0	-	0 W	0	-
People	1	72	60	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	407	60	-	876	0

Zone Design Load Summary for Sistema N1

Project Name: Tribunales San Lorenzo
Prepared by: Ing. Peressutti

02/22/2022
07:15

*N1 Defensor Gral.	DESIGN COOLING			DESIGN HEATING		
	Jan 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	3 sqm	244	-	3 sqm	-	-
Wall Transmission	20 sqm	440	-	20 sqm	756	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	3 sqm	66	-	3 sqm	135	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	12 sqm	57	-	12 sqm	130	-
Partitions/Ceilings	32 sqm	164	-	32 sqm	648	-
Overhead Lighting	93 W	93	-	0 W	0	-
Electric Equipment	464 W	464	-	0 W	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1671	120	-	1669	0

*N1 Empleados Defens. 1	DESIGN COOLING			DESIGN HEATING		
	Jan 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	3 sqm	443	-	3 sqm	-	-
Wall Transmission	6 sqm	130	-	6 sqm	247	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	3 sqm	66	-	3 sqm	135	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	9 sqm	45	-	9 sqm	103	-
Partitions/Ceilings	27 sqm	141	-	27 sqm	557	-
Overhead Lighting	74 W	74	-	0 W	0	-
Electric Equipment	368 W	368	-	0 W	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1411	120	-	1042	0

Zone Design Load Summary for Sistema N1

Project Name: Tribunales San Lorenzo
Prepared by: Ing. Peressutti

02/22/2022
07:15

*N1 Empleados Defens. 2	DESIGN COOLING			DESIGN HEATING		
	Feb 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	3 sqm	425	-	3 sqm	-	-
Wall Transmission	20 sqm	394	-	20 sqm	756	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	3 sqm	66	-	3 sqm	135	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	12 sqm	57	-	12 sqm	130	-
Partitions/Ceilings	32 sqm	164	-	32 sqm	648	-
Overhead Lighting	93 W	93	-	0 W	0	-
Electric Equipment	464 W	464	-	0 W	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1806	120	-	1669	0

*N1 Fiscal	DESIGN COOLING			DESIGN HEATING		
	Jan 1500			Design Heating Day		
	OA DB / WB 37 C / 28 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	5 sqm	587	-	5 sqm	-	-
Wall Transmission	9 sqm	188	-	9 sqm	356	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	5 sqm	87	-	5 sqm	180	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	12 sqm	0	-	12 sqm	59	-
Partitions/Ceilings	41 sqm	228	-	41 sqm	902	-
Overhead Lighting	98 W	98	-	0 W	0	-
Electric Equipment	492 W	492	-	0 W	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1824	120	-	1497	0

Zone Design Load Summary for Sistema N1

Project Name: Tribunales San Lorenzo
Prepared by: Ing. Peressutti

02/22/2022
07:15

*N1 Hall PB A	DESIGN COOLING			DESIGN HEATING		
	Jan 1400			Design Heating Day		
	OA DB / WB 36.6 C / 27.9 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	51 sqm	2902	-	51 sqm	-	-
Wall Transmission	9 sqm	175	-	9 sqm	340	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	51 sqm	927	-	51 sqm	1980	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	79 sqm	0	-	79 sqm	219	-
Partitions/Ceilings	103 sqm	492	-	103 sqm	2005	-
Overhead Lighting	632 W	632	-	0 W	0	-
Electric Equipment	395 W	395	-	0 W	0	-
People	20	1348	703	0	0	0
Infiltration	-	1092	2181	-	3220	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	7963	2884	-	7764	0

*N1 Hall PB B	DESIGN COOLING			DESIGN HEATING		
	Jan 1400			Design Heating Day		
	OA DB / WB 36.6 C / 27.9 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	27 sqm	1011	-	27 sqm	-	-
Wall Transmission	5 sqm	76	-	5 sqm	186	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	27 sqm	483	-	27 sqm	1032	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	26 sqm	0	-	26 sqm	88	-
Partitions/Ceilings	75 sqm	386	-	75 sqm	1573	-
Overhead Lighting	212 W	212	-	0 W	0	-
Electric Equipment	133 W	132	-	0 W	0	-
People	6	404	211	0	0	0
Infiltration	-	573	1137	-	1690	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	3278	1348	-	4569	0

Zone Design Load Summary for Sistema N1

Project Name: Tribunales San Lorenzo
Prepared by: Ing. Peressutti

02/22/2022
07:15

*N1 Hall PB C	DESIGN COOLING			DESIGN HEATING		
	Jan 1400			Design Heating Day		
	OA DB / WB 36.6 C / 27.9 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	36 sqm	1693	-	36 sqm	-	-
Wall Transmission	14 sqm	299	-	14 sqm	539	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	36 sqm	658	-	36 sqm	1407	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	48 sqm	0	-	48 sqm	152	-
Partitions/Ceilings	132 sqm	680	-	132 sqm	2772	-
Overhead Lighting	384 W	384	-	0 W	0	-
Electric Equipment	240 W	240	-	0 W	0	-
People	6	404	211	0	0	0
Infiltration	-	917	1862	-	2704	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	5275	2073	-	7573	0

*N1 Informes y atención	DESIGN COOLING			DESIGN HEATING		
	Jan 1700			Design Heating Day		
	OA DB / WB 35.8 C / 27.7 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	0 sqm	0	-	0 sqm	-	-
Wall Transmission	14 sqm	229	-	14 sqm	534	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	0 sqm	0	-	0 sqm	0	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	18 sqm	0	-	18 sqm	0	-
Partitions/Ceilings	56 sqm	273	-	56 sqm	992	-
Overhead Lighting	144 W	144	-	0 W	0	-
Electric Equipment	270 W	270	-	0 W	0	-
People	3	215	180	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1131	180	-	1526	0

Zone Design Load Summary for Sistema N1

Project Name: Tribunales San Lorenzo
Prepared by: Ing. Peressutti

02/22/2022
07:15

*N1 M Entrada Defensoría	DESIGN COOLING			DESIGN HEATING		
	Jan 1300			Design Heating Day		
	OA DB / WB 35.7 C / 27.7 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	3 sqm	276	-	3 sqm	-	-
Wall Transmission	6 sqm	167	-	6 sqm	247	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	3 sqm	59	-	3 sqm	135	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	9 sqm	0	-	9 sqm	43	-
Partitions/Ceilings	27 sqm	132	-	27 sqm	557	-
Overhead Lighting	74 W	74	-	0 W	0	-
Electric Equipment	368 W	368	-	0 W	0	-
People	2	144	120	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	1219	120	-	982	0

*N1 S. Espera Defensoría	DESIGN COOLING			DESIGN HEATING		
	Jan 1400			Design Heating Day		
	OA DB / WB 36.6 C / 27.9 C			OA DB / WB -0.6 C / -3.2 C		
	Thermostat Setpoint 24.0 C			Thermostat Setpoint 21.8 C		
Zone Loads based on TFM	Details	Sensible W	Latent W	Details	Sensible W	Latent W
Window and Skylight Solar Loads	5 sqm	346	-	5 sqm	-	-
Wall Transmission	23 sqm	614	-	23 sqm	889	-
Roof Transmission	0 sqm	0	-	0 sqm	0	-
Window Transmission	5 sqm	84	-	5 sqm	180	-
Skylight Transmission	0 sqm	0	-	0 sqm	0	-
Door Loads	0 sqm	0	-	0 sqm	0	-
Floor Transmission	25 sqm	0	-	25 sqm	120	-
Partitions/Ceilings	66 sqm	332	-	66 sqm	1353	-
Overhead Lighting	201 W	201	-	0 W	0	-
Electric Equipment	126 W	125	-	0 W	0	-
People	6	404	211	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	-	2107	211	-	2542	0