

Finanziato dall'Unione europea

NextGenerationEU

Ministero delle Infrastrutture e dei Trasporti

Italiadomani

DIPARTIMENTO REGIONALE

COMUNE DI BORGO SAN LORENZO

Intervento ID 443 "Intervento di sostituzione edilizia a completamento PRU ex Macelli in via Niccolai nel Comune di Borgo San Lorenzo, contenuto nella proposta ID916 "Home in Inner Metropoli" del PIANO NAZIONALE DI RIPRESA E RESILIENZA (PNRR) MISSIONE M5 - COMPONENTE C2 - INVESTIMENTO 2.3

CUP: I61821000380001



FINANZIAMENTO:
Piano Nazionale di Ripresa e Resilienza (PNRR) - Missione M5C2 - Investimento 2.3 - Programma Innovativo Nazionale per la Qualità dell'abitare (PNUQA) - decreto direttoriale MIMS n. 804 del 20.01.2022

SOGETTO BENEFICIARIO ATTUATORE 1° LIVELLO:

Città Metropolitana di Firenze

SOGETTO BENEFICIARIO ATTUATORE 2° LIVELLO:

Casa SPA

SOGETTO REALIZZATORE:

Casa SPA

RESPONSABILE DEL PROCEDIMENTO:

Ing. Cristiano Rebecchi (Direttore Generale CasaSpa)

PROGETTISTE:

Ing. Dimitri Celi

COLLABORAZIONE ALLA PROGETTAZIONE:

Geom. Leonardo Bertini

TAV. N°

ES-MEC

05.4

DISSEGNO:

SCARICHI ACQUE METEORICHE: PLANIMETRIE E SCHEMI

SCALA:

-

DATA:

NOVEMBRE 2023

BL04-ES-MEC-05.4-01

ADDETTO ALLA VERIFICA

Geom. A.Romagnoli

Ing. A.Bevalacqua

PLANIMETRIA PIANO TERRA

PLANIMETRIA PIANO PRIMO

SCALA 1:100

PLANIMETRIA PIANO TERZO

SCALA 1:100

PLANIMETRIA PIANO SECONDO

SCALA 1:100

PLANIMETRIA PIANO COPERTURA

SCALA 1:100

LEGENDA LINEE E SIMBOLI	
SIMB.	DESCRIZIONE
	Tubazione per SCARICHI ACQUE METEORICHE, realizzata in tubo di PVC-U idoneo per convogliamento interato di acque piovane non in pressione, a norma UNI 10972, colore grigio, classe SN2, codice di applicazione U, con bricchi dotati di anello di tenuta elastomerica. Area pedonali NON CARICABILI. Pendenza minima 1 ‰ con indicazione del verso di percorrenza del flusso
	Fiede di calcolo dei pluviali con pozzetto sifonato per l'ispezione dei discendenti dim. 50x50x50cm con chiusura in c/a
	Pluviale in tubo fondo di rame sp. 8/10 a 100mm
	Pozzetto per l'ispezione della linea acque meteoriche dim. 50x50x50cm con chiusura in c/a per traffico pedonale
	Pozzetto di raccolta delle acque meteoriche di fine lotto dim. 80x80x80cm con chiusura per traffico pedonale
	Pozzetto in c.a.p. dim. 40x40x40cm con cassetto in ghisa dim. 40x40x40cm per la linea di raccolta acque meteoriche, per traffico pedonale (centrali tecnologiche)
	Bocchettone messicano
	Area per la portata di effluo considerata nei calcoli

NOTE:

- Il percorso riportato a disegno è indicativo e dovrà essere verificato in cantiere in accordo con la D.L.L. e il progettista degli impianti.
- I calcoli di acque pluviali sono stati dimensionati con pendenza minima del 1‰.
- Sulla linea di smaltimento acque meteoriche posta interamente esternamente all'edificio verrà innestata la linea proveniente dalla vasca di raccolta acque di lavaggio posta a piano interrato.

Rientro negli obblighi dell'impresa Appaltatrice la redazione degli elaborati AS BUILT (come realizzato) prima del collaudo finale.

Gli elaborati di progetto dovranno essere aggiornati a cura dell'impresa come realizzati e dovranno contenere nel dettaglio le tipologie di apparecchiature e componenti principali, specificandone la marca, il modello e le caratteristiche fondamentali.

Nel caso in cui la Ditta Esecutrice dei Lavori ritenga di voler apportare modifiche al presente schema di impianto, lo stesso Ditta dovrà fornire, prima di eseguire qualsiasi lavorazione ad esso relativo, lo schema aggiornato e le verifiche di calcolo derivanti dalla modifica apportata. La Stazione Appaltante si riserva di accettare o meno le varianti proposte.

DIMENSIONAMENTO RETE DI RACCOLTA ACQUE PIOVANE																																																																																																																																																																																																																																																																																																																																																																																																							
LATO "A": Area di copertura effettiva = mq 140; Portata di scorrimento = 5,7 l/s; Si adottò: n. 2 Pluviali con diametro 100 mm	LATO "B": Area di copertura effettiva = mq 270; Portata di scorrimento = 11,1 l/s; Si adottò: n. 3 Pluviali con diametro 100 mm																																																																																																																																																																																																																																																																																																																																																																																																						
Tabella 10-18 Dimensionamento dei pluviali di acque piovane																																																																																																																																																																																																																																																																																																																																																																																																							
<table><thead><tr><th rowspan="2">Diametro mm</th><th colspan="10">Pendenza</th></tr><tr><th>0,5%</th><th>1,0%</th><th>1,5%</th><th>2,0%</th><th>2,5%</th><th>3,0%</th><th>3,5%</th><th>4,0%</th><th>5,0%</th></tr></thead><tbody><tr><td>100</td><td>1,0</td><td>1,0</td><td>2,2</td><td>2,2</td><td>3,0</td><td>3,0</td><td>3,8</td><td>4,0</td><td>4,0</td></tr><tr><td>125</td><td>2,2</td><td>2,2</td><td>4,0</td><td>4,0</td><td>5,0</td><td>5,0</td><td>6,0</td><td>6,0</td><td>6,0</td></tr><tr><td>150</td><td>4,0</td><td>4,0</td><td>6,0</td><td>6,0</td><td>7,0</td><td>7,0</td><td>8,0</td><td>8,0</td><td>8,0</td></tr><tr><td>175</td><td>6,0</td><td>6,0</td><td>8,0</td><td>8,0</td><td>9,0</td><td>9,0</td><td>10,0</td><td>10,0</td><td>10,0</td></tr><tr><td>200</td><td>8,0</td><td>8,0</td><td>10,0</td><td>10,0</td><td>11,0</td><td>11,0</td><td>12,0</td><td>12,0</td><td>12,0</td></tr><tr><td>225</td><td>10,0</td><td>10,0</td><td>12,0</td><td>12,0</td><td>13,0</td><td>13,0</td><td>14,0</td><td>14,0</td><td>14,0</td></tr><tr><td>250</td><td>12,0</td><td>12,0</td><td>14,0</td><td>14,0</td><td>15,0</td><td>15,0</td><td>16,0</td><td>16,0</td><td>16,0</td></tr><tr><td>275</td><td>14,0</td><td>14,0</td><td>16,0</td><td>16,0</td><td>17,0</td><td>17,0</td><td>18,0</td><td>18,0</td><td>18,0</td></tr><tr><td>300</td><td>16,0</td><td>16,0</td><td>18,0</td><td>18,0</td><td>19,0</td><td>19,0</td><td>20,0</td><td>20,0</td><td>20,0</td></tr><tr><td>325</td><td>18,0</td><td>18,0</td><td>20,0</td><td>20,0</td><td>21,0</td><td>21,0</td><td>22,0</td><td>22,0</td><td>22,0</td></tr><tr><td>350</td><td>20,0</td><td>20,0</td><td>22,0</td><td>22,0</td><td>23,0</td><td>23,0</td><td>24,0</td><td>24,0</td><td>24,0</td></tr><tr><td>375</td><td>22,0</td><td>22,0</td><td>24,0</td><td>24,0</td><td>25,0</td><td>25,0</td><td>26,0</td><td>26,0</td><td>26,0</td></tr><tr><td>400</td><td>24,0</td><td>24,0</td><td>26,0</td><td>26,0</td><td>27,0</td><td>27,0</td><td>28,0</td><td>28,0</td><td>28,0</td></tr><tr><td>425</td><td>26,0</td><td>26,0</td><td>28,0</td><td>28,0</td><td>29,0</td><td>29,0</td><td>30,0</td><td>30,0</td><td>30,0</td></tr><tr><td>450</td><td>28,0</td><td>28,0</td><td>30,0</td><td>30,0</td><td>31,0</td><td>31,0</td><td>32,0</td><td>32,0</td><td>32,0</td></tr><tr><td>475</td><td>30,0</td><td>30,0</td><td>32,0</td><td>32,0</td><td>33,0</td><td>33,0</td><td>34,0</td><td>34,0</td><td>34,0</td></tr><tr><td>500</td><td>32,0</td><td>32,0</td><td>34,0</td><td>34,0</td><td>35,0</td><td>35,0</td><td>36,0</td><td>36,0</td><td>36,0</td></tr><tr><td>525</td><td>34,0</td><td>34,0</td><td>36,0</td><td>36,0</td><td>37,0</td><td>37,0</td><td>38,0</td><td>38,0</td><td>38,0</td></tr><tr><td>550</td><td>36,0</td><td>36,0</td><td>38,0</td><td>38,0</td><td>39,0</td><td>39,0</td><td>40,0</td><td>40,0</td><td>40,0</td></tr><tr><td>575</td><td>38,0</td><td>38,0</td><td>40,0</td><td>40,0</td><td>41,0</td><td>41,0</td><td>42,0</td><td>42,0</td><td>42,0</td></tr><tr><td>600</td><td>40,0</td><td>40,0</td><td>42,0</td><td>42,0</td><td>43,0</td><td>43,0</td><td>44,0</td><td>44,0</td><td>44,0</td></tr><tr><td>625</td><td>42,0</td><td>42,0</td><td>44,0</td><td>44,0</td><td>45,0</td><td>45,0</td><td>46,0</td><td>46,0</td><td>46,0</td></tr><tr><td>650</td><td>44,0</td><td>44,0</td><td>46,0</td><td>46,0</td><td>47,0</td><td>47,0</td><td>48,0</td><td>48,0</td><td>48,0</td></tr><tr><td>675</td><td>46,0</td><td>46,0</td><td>48,0</td><td>48,0</td><td>49,0</td><td>49,0</td><td>50,0</td><td>50,0</td><td>50,0</td></tr><tr><td>700</td><td>48,0</td><td>48,0</td><td>50,0</td><td>50,0</td><td>51,0</td><td>51,0</td><td>52,0</td><td>52,0</td><td>52,0</td></tr><tr><td>725</td><td>50,0</td><td>50,0</td><td>52,0</td><td>52,0</td><td>53,0</td><td>53,0</td><td>54,0</td><td>54,0</td><td>54,0</td></tr><tr><td>750</td><td>52,0</td><td>52,0</td><td>54,0</td><td>54,0</td><td>55,0</td><td>55,0</td><td>56,0</td><td>56,0</td><td>56,0</td></tr><tr><td>775</td><td>54,0</td><td>54,0</td><td>56,0</td><td>56,0</td><td>57,0</td><td>57,0</td><td>58,0</td><td>58,0</td><td>58,0</td></tr><tr><td>800</td><td>56,0</td><td>56,0</td><td>58,0</td><td>58,0</td><td>59,0</td><td>59,0</td><td>60,0</td><td>60,0</td><td>60,0</td></tr><tr><td>825</td><td>58,0</td><td>58,0</td><td>60,0</td><td>60,0</td><td>61,0</td><td>61,0</td><td>62,0</td><td>62,0</td><td>62,0</td></tr><tr><td>850</td><td>60,0</td><td>60,0</td><td>62,0</td><td>62,0</td><td>63,0</td><td>63,0</td><td>64,0</td><td>64,0</td><td>64,0</td></tr><tr><td>875</td><td>62,0</td><td>62,0</td><td>64,0</td><td>64,0</td><td>65,0</td><td>65,0</td><td>66,0</td><td>66,0</td><td>66,0</td></tr><tr><td>900</td><td>64,0</td><td>64,0</td><td>66,0</td><td>66,0</td><td>67,0</td><td>67,0</td><td>68,0</td><td>68,0</td><td>68,0</td></tr><tr><td>925</td><td>66,0</td><td>66,0</td><td>68,0</td><td>68,0</td><td>69,0</td><td>69,0</td><td>70,0</td><td>70,0</td><td>70,0</td></tr><tr><td>950</td><td>68,0</td><td>68,0</td><td>70,0</td><td>70,0</td><td>71,0</td><td>71,0</td><td>72,0</td><td>72,0</td><td>72,0</td></tr><tr><td>975</td><td>70,0</td><td>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mm	Pendenza										0,5%	1,0%	1,5%	2,0%	2,5%	3,0%	3,5%	4,0%	5,0%	100	1,0	1,0	2,2	2,2	3,0	3,0	3,8	4,0	4,0	125	2,2	2,2	4,0	4,0	5,0	5,0	6,0	6,0	6,0	150	4,0	4,0	6,0	6,0	7,0	7,0	8,0	8,0	8,0	175	6,0	6,0	8,0	8,0	9,0	9,0	10,0	10,0	10,0	200	8,0	8,0	10,0	10,0	11,0	11,0	12,0	12,0	12,0	225	10,0	10,0	12,0	12,0	13,0	13,0	14,0	14,0	14,0	250	12,0	12,0	14,0	14,0	15,0	15,0	16,0	16,0	16,0	275	14,0	14,0	16,0	16,0	17,0	17,0	18,0	18,0	18,0	300	16,0	16,0	18,0	18,0	19,0	19,0	20,0	20,0	20,0	325	18,0	18,0	20,0	20,0	21,0	21,0	22,0	22,0	22,0	350	20,0	20,0	22,0	22,0	23,0	23,0	24,0	24,0	24,0	375	22,0	22,0	24,0	24,0	25,0	25,0	26,0	26,0	26,0	400	24,0	24,0	26,0	26,0	27,0	27,0	28,0	28,0	28,0	425	26,0	26,0	28,0	28,0	29,0	29,0	30,0	30,0	30,0	450	28,0	28,0	30,0	30,0	31,0	31,0	32,0	32,0	32,0	475	30,0	30,0	32,0	32,0	33,0	33,0	34,0	34,0	34,0	500	32,0	32,0	34,0	34,0	35,0	35,0	36,0	36,0	36,0	525	34,0	34,0	36,0	36,0	37,0	37,0	38,0	38,0	38,0	550	36,0	36,0	38,0	38,0	39,0	39,0	40,0	40,0	40,0	575	38,0	38,0	40,0	40,0	41,0	41,0	42,0	42,0	42,0	600	40,0	40,0	42,0	42,0	43,0	43,0	44,0	44,0	44,0	625	42,0	42,0	44,0	44,0	45,0	45,0	46,0	46,0	46,0	650	44,0	44,0	46,0	46,0	47,0	47,0	48,0	48,0	48,0	675	46,0	46,0	48,0	48,0	49,0	49,0	50,0	50,0	50,0	700	48,0	48,0	50,0	50,0	51,0	51,0	52,0	52,0	52,0	725	50,0	50,0	52,0	52,0	53,0	53,0	54,0	54,0	54,0	750	52,0	52,0	54,0	54,0	55,0	55,0	56,0	56,0	56,0	775	54,0	54,0	56,0	56,0	57,0	57,0	58,0	58,0	58,0	800	56,0	56,0	58,0	58,0	59,0	59,0	60,0	60,0	60,0	825	58,0	58,0	60,0	60,0	61,0	61,0	62,0	62,0	62,0	850	60,0	60,0	62,0	62,0	63,0	63,0	64,0	64,0	64,0	875	62,0	62,0	64,0	64,0	65,0	65,0	66,0	66,0	66,0	900	64,0	64,0	66,0	66,0	67,0	67,0	68,0	68,0	68,0	925	66,0	66,0	68,0	68,0	69,0	69,0	70,0	70,0	70,0	950	68,0	68,0	70,0	70,0	71,0	71,0	72,0	72,0	72,0	975	70,0	70,0	72,0	72,0	73,0	73,0	74,0	74,0	74,0	1000	72,0	72,0	74,0	74,0	75,0	75,0	76,0	76,0	76,0
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525	34,0	34,0	36,0	36,0	37,0	37,0	38,0	38,0	38,0																																																																																																																																																																																																																																																																																																																																																																																														
550	36,0	36,0	38,0	38,0	39,0	39,0	40,0	40,0	40,0																																																																																																																																																																																																																																																																																																																																																																																														
575	38,0	38,0	40,0	40,0	41,0	41,0	42,0	42,0	42,0																																																																																																																																																																																																																																																																																																																																																																																														
600	40,0	40,0	42,0	42,0	43,0	43,0	44,0	44,0	44,0																																																																																																																																																																																																																																																																																																																																																																																														
625	42,0	42,0	44,0	44,0	45,0	45,0	46,0	46,0	46,0																																																																																																																																																																																																																																																																																																																																																																																														
650	44,0	44,0	46,0	46,0	47,0	47,0	48,0	48,0	48,0																																																																																																																																																																																																																																																																																																																																																																																														
675	46,0	46,0	48,0	48,0	49,0	49,0	50,0	50,0	50,0																																																																																																																																																																																																																																																																																																																																																																																														
700	48,0	48,0	50,0	50,0	51,0	51,0	52,0	52,0	52,0																																																																																																																																																																																																																																																																																																																																																																																														
725	50,0	50,0	52,0	52,0	53,0	53,0	54,0	54,0	54,0																																																																																																																																																																																																																																																																																																																																																																																														
750	52,0	52,0	54,0	54,0	55,0	55,0	56,0	56,0	56,0																																																																																																																																																																																																																																																																																																																																																																																														
775	54,0	54,0	56,0	56,0	57,0	57,0	58,0	58,0	58,0																																																																																																																																																																																																																																																																																																																																																																																														
800	56,0	56,0	58,0	58,0	59,0	59,0	60,0	60,0	60,0																																																																																																																																																																																																																																																																																																																																																																																														
825	58,0	58,0	60,0	60,0	61,0	61,0	62,0	62,0	62,0																																																																																																																																																																																																																																																																																																																																																																																														
850	60,0	60,0	62,0	62,0	63,0	63,0	64,0	64,0	64,0																																																																																																																																																																																																																																																																																																																																																																																														
875	62,0	62,0	64,0	64,0	65,0	65,0	66,0	66,0	66,0																																																																																																																																																																																																																																																																																																																																																																																														
900	64,0	64,0	66,0	66,0	67,0	67,0	68,0	68,0	68,0																																																																																																																																																																																																																																																																																																																																																																																														
925	66,0	66,0	68,0	68,0	69,0	69,0	70,0	70,0	70,0																																																																																																																																																																																																																																																																																																																																																																																														
950	68,0	68,0	70,0	70,0	71,0	71,0	72,0	72,0	72,0																																																																																																																																																																																																																																																																																																																																																																																														
975	70,0	70,0	72,0	72,0	73,0	73,0	74,0	74,0	74,0																																																																																																																																																																																																																																																																																																																																																																																														
1000	72,0	72,0	74,0	74,0	75,0	75,0	76,0	76,0	76,0																																																																																																																																																																																																																																																																																																																																																																																														