

Table S1. Samples of group 1. The table includes the fragment label (ID), the number of shards analyzed (S), identification of the slab (if known), a short description and the relevant bibliography. Most data were retrieved from the Stanford Digital *Forma Urbis Romae* project (<http://formaurbis.stanford.edu.>).

ID	S	Slab	Description	Bibliography
1abcde	3	XI-6	The inscriptions label two buildings possibly the Imperial changing station (<i>mutatorium Caesaris</i>) and a customs post or vegetable market outside the porta Capena (<i>area radicaria</i>). The vertical streets that traverses the entire slab are identified as the New Street (<i>via Nova</i>) and maybe the Appian Way (<i>via Appia</i>)	[1,18,73]
7abcd	4	IX-6	Three buildings are engraved: the <i>Circus Maximus</i> , the Arch of Titus and the <i>Septizodium</i>	[18,74–77]
10abcde	3	VIII-3	Residential and commercial Subura district. The horizontal street that traverses the fragments correspond to the <i>Vicus Sabuci</i>	[40,41,77]
10opqr	3	VIII-3	Large section of the residential and commercial district called the Subura. The inscription on fragments 10p, an 10q identified the porticoed structure as the Porticus of Livia. On the right side of these fragments a monumental building identified as the Baths of Trajan is visible.	[41,78,79]
33abc	3	V-17	The fragments could contain the representation of the huge artificial reservoir called the <i>Naumachia Transtiberina</i> of Augustus. The building at middle left of group 33 could be a barracks (<i>Castra Ravennatum?</i>)	[18,80,81]
35ab	1	IV-5	Fragments depict the <i>Porticus Divorum</i> that served as a precinct for the temples of the deified Vespasian and Titus	[82–84]
35cdefghi	1	IV-5	The inscriptions label two buildings: the <i>Porticus Divorum</i> and the temple of <i>Minerva Calcidica</i>	[82–84]
35lpqr	1	IV-5	The inscription labels a rectangular space identified as the <i>Diribitorium</i> . The <i>Saepta Iulia</i> porch is also visible	[1,85,86]
41abc	3	I-10	The inscription identifies the Mausoleum of Hadrian	[1,18]
57abc	2	-	The fragments show the inscription H [...]--]	[1,18]
165abd	3	-	The fragments show a group of buildings not identified	[1,18]
277ab	4	-	The fragments show a section of residential and commercial buildings	[1,18]
336ab	2	-	The fragments show a group of rooms and environments not identified	[1]
362ab	2	-	The fragments depict the horizontal inscription [...] MAGNI	[1,18]
496ab	2	-	The fragments represent groups of rooms, a staircase and an internal portico with columns	[1]
538abdefg	2	IV-4	The fragments show different buildings on the slopes of the Quirinal	[1,88]
586ab	3	-	The fragments depict two constructions facing each other on a street	[1]
619ab	3	-	The fragments show a series of parallel, horizontal lines identified as rooms, perhaps commercial structures	[1,18]
621abcd	3	V-13	The inscription AEMILI [...] on these fragments could identify the <i>Pons Aemilius</i>	[18,41,88–90]

Table S2. Samples of group 2. The table includes the fragment label (ID), the number of shards analyzed (S), identification of the slab (if known), a short description and the relevant bibliography. Most data were retrieved from the Stanford Digital *Forma Urbis Romae* project (<http://formaurbis.stanford.edu>).

ID	S	Slab	Description	Bibliography
5Abcd	5	IX-5	One of the inscriptions [---] TORIAE, identifies the upper street visible in the fragments as Victory Street. The other street that runs obliquely from top left to bottom right corresponds to the Scaurus Street. A second inscription SEVERIETAN* / TONINIAV[---] / NN most probably refers to a building or place belonging to/built by Septimius Severus and Caracalla emperors	[1,18]
5a	1	IX-5	The fragment shows a section of the edge of the platform of the Temple to the Deified Claudius	[1,28,91,92]
5b	1	IX-5	The fragment retains parts of two letters, of which the second is an M. It has been identified as a section of the Temple of the Deified Claudius	[1,28,91,92]
5h	1	IX-5	The fragment depicts three parallel double lines. It has been identified as a section of the Temple of the Deified Claudius	[1,28,91,92]
8a	1	VIII-5	The inscription SEPT*[---] identifies the <i>Septizodium</i> monument	[93]
8c	1	VIII-5	The inscription C[---] identifies the <i>Circus Maximus</i>	[9]
11c	1	VII-7	Series of buildings with shops and atrium houses. The horizontal street that traverses the upper part of the fragment has been identified as the <i>Vicus Patricius</i>	[44,94]
11fgh	1	VII-7	The fragments depict a series of shops, a warehouse and two unidentified buildings	[1,44,45,95]
18a	1	VII-11	The inscription [...]S*TORIS on the fragment could identify the Temple of Castor. The small structure quadrangular depicted above the inscription has been identified as the Fountain of Juturna	[47–49,96]
28a	1	VI-9	The fragment shows an industrial space and maybe a storage at the waterfront of the Tiber. The circular feature at the lower left could represent the Temple of Fors Fortuna	[80,97]
28c	1	VI-9	The fragment could contain the representation of the huge artificial reservoir called the <i>Naumachia Transtiberina</i> of Augustus (see Coarelli 1992). The <i>Via Portuense</i> and the waterfront of the Tiber are represented too. Taylor moves the location of the <i>Naumachia Transtiberina</i> further north, in an extended rectangular area near the actual church of <i>S. Francesco a Ripa</i> and the <i>Via della Lungaretta</i>	[80,81,98–100]
29f	1	V-9	The inscription [---]VLPIA identified the Basilica Ulpia in the Forum of Trajan	[1,78,101]
29g	1	V-9	The fragment depicts a section of the Forum of Trajan	[1,102]
31cc	1	V-12	The fragment depicts two porticoed structures identified as the <i>Porticus Octaviae</i> and <i>Philippi</i>	[1,103–106]
31h	1	V-12	The fragment depicts part of two temples, probably the Temple of <i>Ianus</i> and the Temple of <i>Iuno Sospita</i>	[1]
31ii	1	V-12	The inscription [---] CIR / FLAMI [.] [---] identifies the <i>Circus Flamininus</i>	[24,104]
31ll ¹	1	V-12	The inscription [---]CUS / [---] NIUS identifies the <i>Circus Flamininus</i>	[24]
31qrs	2	V-12	The inscription [---] HEAT*[---] / [.].AR [.] [---] identifies the Theater of <i>Marcellus</i>	[1,107,108]

36b	1	III-9	The inscription TEM PL [---] labels a temple. Rodríguez-Almeida identified it as the <i>Templum Matidiae</i>	[1,51,109]
37a	1	IV-6	The fragment depicts two temples, A and B in the <i>Largo Argentina</i> and the Porticus of Pompey	[18,110–113]
40cdefgh	2	III-12	Fragments depict a section of blocks (insulae) in the Field of Mars. A vertical street partially labelled seems to be the <i>Vicus Stabularius</i>	[41,114]
46acd	1	-	The inscription [---] [.]DO[.] [---] identified the Adonaea Gardens	[28,115,116]
68ab	1	-	The fragments depict part of a large building with two colonnades and a large exedra. It could be part of the Adonaea	[55]
70a	1	VII-11	The inscription [---]NAE. refers to the temple of the Deified Faustina on the Palatine	[46]
70b	2	VII-11	The fragment depicts two parallel lines of columns (temple of Faustina)	[46]
70c	2	VII-11	The inscription [---] ST [---] refers to the temple of the Deified Faustina on the Palatine	[46]
103	1	VII-11	The fragment depicts the front corner of a temple identified as the Temple of the Deified Faustina on the Palatine	[46]
238a	1	IV-6	The fragment shows part of a temple, perhaps the Temple of Mars	[53]
307ab	2	III-12	The fragments represent rows of back-to-back shops (tabernae) and a street labelled as [---]ORV[---]	[1,18,54]
452ab	1	VIII-5	The fragments depict a wide street flanked by porticoes with shops	[1,56,57,117,118]
452d	1	VIII-5	The inscription [---] ETAE [.] [---] could identify the small building with temple as the <i>Curiae Vetaeres</i>	[1,56,57,117,118]
499	1	V-12	The fragment depicts a staircase and a temple, perhaps the temple of Fides	[58,121]
517abcdef	2	-	The fragment shows an urban sector in the area north of the Forum of Trajan	[1,18,45,50]
590	1	VII-10	On the right side of the fragment appears part of a large staircase	[45]

[†]This sample does not appear within the Stanford Digital *Forma Urbis Romae* project database.

Table S3. Samples of group 3 (isolated samples). The table includes the fragment label (ID), identification of the slab (if known), a short description and the relevant bibliography. Most data were retrieved from the Stanford Digital *Forma Urbis Romae* project (<http://formaurbis.stanford.edu.>).

ID	Slab	Description	Bibliography
2a	XI-10	The inscription NA[---] along with fragment 2b could refer to a lower military ship yard	[1,45]
4a	X-5	The inscription AQVE / DVCTI / VM refers to the Neronian branch of the <i>Aqua Claudia</i>	[1,119]
fn9	VII-13	The fragment depicts a row of shops and a street with the original red paint, maybe commercial buildings next to the <i>Circus Maximus</i>	[7]
10g	VIII-3	Large section of the residential and commercial district called the Subura	[40,41,44,77]
16a	VI-5	The fragment depicts the Temple of Peace, the <i>Porticus Absidata</i> , the <i>Forum Transitorium</i> with the Temple of Minerva and the Forum of Augustus	[1,9,120,121]
21c	VII-14	The inscription BAL refers to the Baths of <i>L. Licinius Sura</i> . In the lower side of the fragment an unidentified temple is also depicted	[122]
22b	VII-15	The inscriptions MINER / BAE and CORNIFICIA[---] identified two temples respectively: the Temple of Minerva and the Temple of Diana	[1,123–126]
24c	VII-8	In the center of the fragment the structure of the <i>Porticus Aemilia</i> is depicted. Other structures represented are three parallel buildings visible in the top left corner, most probably warehouses of imperial estate (the <i>praedia Galbae</i> or <i>Galbana</i>) and the funerary monument of <i>Ser. Sulpicius Galba</i> in the top left corner of this fragment	[1,86,127–131]
25a	VII-20	The inscription HORREA / LOLLIANA identified the Lollian Warehouses. The building in the lower side of the fragment could be interpreted as a bath complex or as possible headquarters of an organization. The blank space along the right side of the fragment represents the Tiber	[1,47,132,133]
fn30	-	The fragment has been recently published with inventory number 36403. It depicts two parallel streets, overlooked by numerous buildings, sometimes preceded by porticoes	[7]
fn37	-	The fragment has been recently published with inventory number 36409. It depicts part of a neighbourhood with two streets perpendicular to each other and two buildings with rectangular rooms (shops?)	[7]
38	III-10	The inscription [---]E*RMAE / [---] PAE identified the Baths of Agrippa	[1,23,134]
44abcde	-	The inscription H[---]REA / CANDELAR[.] identified the <i>Horrea Candelaria</i> and refers to the warehouses and the market for candles or perhaps more generally for lighting materials	[1,41,45]
85	-	The fragment shows an inscription in large letters comprising a D	[1,18]
89	-	The fragment depicts a complex of large enclosed areas on the edge of a space without constructions	[1]
108ab	-	The fragments depict a section with arcaded shops and a courtyard	[1,45]
119	-	The fragment depicts a street, a row of large rooms probably shops and another building	[1,45]
159	-	The fragment depicts two parallel lines; a staircase and four rooms	[1]

171	-	The fragment depicts a colonnade on the left side, in the centre various rooms and on the right side an area with rests of apsidal building	[1]
184	-	The fragment depicts vast and irregular enclosures, roads, clusters and rows of outdoor spaces	[1,95]
190	-	The fragment depicts a group of three rooms	[1]
195	-	Section of non-identified inscription [--]AE	[1,45]
200b	-	The inscription S[.]reconstructed as TIBERIS could refer to the Tiber River. An alternative identification suggests that it refers to the <i>campus Martialis</i> on the Caelian Hill	[45,135]
201	-	The fragment depicts parts of two large areas; the upper one trapezoidal with rooms on two sides and the lower one rectangular	[1]
212b	VI-6	The inscription [--]ANVS[--] could refer to the Temple of Janus	[19,136,137]
216	-	The inscription [--]M*INA[--] could refer to the Viminal Hill	[1,45]
232abc	-	The fragments depict long parallel strips (gardens?)	[1]
234abc	-	The fragments depict three temples within an enclosed area	[1,51,138]
330	-	The fragment depicts single- and multi-storey apartment complexes, shops and a small bath	[1,45]
348	-	The fragment depicts a row of rooms, some of which are preceded by portico	[1]
366	-	The fragment depicts a peripteral podium temple with the crenellated outer wall of the <i>cella</i>	[1,45]
471	-	The fragment depicts a set of long lines surrounded by large blank spaces, perhaps they refer to a circus or stadium	[1,45]
484	-	The fragment depicts groups of regular buildings separated by streets	[1]
487ab	-	The fragments depict two groups of rooms of various sizes	[1]
501	-	The fragment depicts a section of buildings with open spaces	[1]
599	-	The fragment depicts four parallel rows of shops	[1,18]
603	-	The inscription on the fragment retains the letter A and part of another letter	[1,18]
665	-	The fragment depicts a double row of columns one of which is flanked by a row of rooms	[1]

Table S4. $\delta^{18}\text{O}$ and $\delta^{13}\text{C}$ isotopic ratios for the measured marble fragments.

Fragment	$\delta^{18}\text{O}$ (‰)	$\delta^{13}\text{C}$ (‰)
1abcde	0.06	2.60
2a	-0.29	2.45
4a	-1.35	2.72
5Aa	-0.76	2.34
5a	0.26	2.85
5h	-0.37	2.66
7a	-0.31	2.49
7b	-0.39	2.70
7c	-0.31	2.56
7d	-0.48	2.32
8a	0.18	2.85
8c	0.01	2.72
fn9	-2.13	2.99
10a	0.26	2.33
10d	0.73	2.77
10e	-0.10	2.40
10g	0.12	2.42
10opqr	-0.23	2.71
11c	-1.30	2.89
11fgh	-1.72	2.81
13l ¹	-0.38	2.15
16a	-0.24	2.38
18a	-0.75	2.48
21c	-2.20	2.67
22b	-2.13	2.86
24c	0.11	2.30
25a	-0.25	2.48
27a ¹	-0.86	2.74
28a	-3.61	1.90
28c	-4.09	2.21
29f	-0.34	2.68
29g	-0.98	2.67
fn30	-2.74	3.18
fn31 ²	-0.55	1.67
31cc	-1.82	1.48
31h	-2.25	1.96
31ii	-2.35	1.31
31ll	-1.33	2.93
31qrs	-2.43	2.51
33abc	-1.97	2.21
35ab	-1.97	1.93
35cdefghi	-2.12	3.13
35l	-2.40	2.60
36b	-1.84	2.48
fn37	0.14	3.10
37a	-1.02	3.38
38	-2.06	2.44
40cdefgh	0.15	2.11

41abc	-1.33	2.22
44abcde	-0.37	2.60
46acd	-1.22	2.49
57abc	0.43	2.65
68ab	-1.25	2.38
70a	-0.60	2.95
70b	-1.12	2.94
85	-1.16	2.69
89	-1.89	2.41
103	-0.33	2.66
108ab	-1.14	2.82
119	-0.09	2.61
159	0.74	2.52
165abd	-0.15	2.55
171	-0.96	2.07
184	-1.51	2.86
190	-0.57	2.46
195	-0.03	2.79
200b	-0.68	2.58
201	0.35	2.53
212b	0.26	2.40
216	-2.14	2.52
232abc	-0.98	2.27
234abc	-1.48	2.32
238a	-2.61	-0.68
277ab	-0.80	1.95
307ab	-1.07	2.93
330	-1.05	2.17
336ab	0.07	2.38
348	-2.57	2.93
362ab	-1.06	2.59
366	-1.77	3.05
452d	-0.36	2.65
471	-2.87	2.42
484	-1.45	2.74
487ab	-2.01	2.70
496ab	0.07	3.04
499	-2.59	1.31
501	-3.02	2.78
517abcdef	-0.46	2.99
538abcdefg	-0.75	2.70
586ab	-1.01	2.11
599	-2.09	2.97
603	-1.15	3.20
619ab	0.06	2.86
621abcd	-0.60	2.70
665	-1.42	2.24
fms1960 ²	-1.42	1.58

¹ For these fragments isotopic ratios were the only measured parameters.

² These samples do not belong to the F.U.

Table S5. CL RGB triplets for the different analyzed samples including the averaged color and the three main color clusters for segmented images. Different samples from a given fragment are identified arbitrarily with a number of sample. Besides the averaged color, the color hue is also identified (blue (BL), brown (BR), gray (GRa), green (GR), violet (VI)). Color cluster triplets are also characterized with the percentage of pixels assigned to the cluster. N is the total number of color clusters.

Fragment Sample	Averaged Color			H	1 st Color Cluster				2 nd Color Cluster				3 rd Color Cluster				N
	R	G	B		R	G	B	%	R	G	B	%	R	G	B	%	
1abcde.1	44	47	102	VI	37	34	79	47	43	46	101	32	54	56	115	20	3
1abcde.2	35	47	95	BL	31	42	88	57	41	54	106	43					2
1abcde.3	33	47	104	BL	31	41	94	57	38	56	118	43					2
2a	26	26	44	BL	28	31	50	51	24	23	39	49					2
4a	27	34	70	VI	30	38	75	58	22	27	59	42					2
5Aa	58	53	114	VI	54	51	106	58	64	61	130	42					2
5Ab	30	39	98	VI	22	31	86	51	34	45	109	49					2
5Ac.1	21	54	126	BL	16	41	108	47	21	55	129	32	28	74	152	21	3
5Ac.2	11	37	95	BL	15	46	110	59	10	31	84	41	80	225	220	<1	3
5Ad	49	43	105	VI	44	37	91	51	53	50	119	49					2
5a	29	34	78	BL	28	31	72	63	35	41	93	37					2
5b	41	37	78	BL	37	33	70	60	50	47	90	40					2
5h	30	39	83	VI	27	36	77	32	31	39	86	28	23	26	59	28	4
7a	36	30	58	VI	40	33	64	52	31	25	51	48					2
7b	39	31	60	VI	30	25	48	44	43	34	65	42	63	48	81	<1	3
7c	33	39	82	VI	29	34	72	62	43	51	98	38					2
7d	68	39	62	VI	54	35	65	43	76	50	77	28	74	33	47	<1	3
8a	42	44	98	VI	50	52	113	50	34	37	80	50					2
8c	36	40	83	VI	33	35	74	52	41	43	92	48					2
fn9	4	22	58	BL	4	20	54	61	5	27	66	39					2
10a	41	40	84	VI	49	47	96	55	37	35	75	45					2
10d	54	44	82	VI	63	52	94	52	47	37	72	48					2
10e	35	35	79	VI	33	32	72	65	45	43	93	35					2
10g	40	33	68	VI	46	38	75	59	37	30	64	41					2
10opqr.1	40	62	144	BL	33	49	127	55	46	70	156	45					2
10opqr.2	40	48	118	BL	34	40	102	56	43	54	133	44					2
10opqr.3	46	45	109	VI	38	37	95	52	52	55	126	48					2
11c	5	16	36	BR	4	15	33	70	7	23	48	30					2
11fg'h	11	20	44	GR	12	22	49	55	9	17	40	45					2
16a	59	40	56	VI	65	47	63	51	51	33	49	49					2
18a	5	29	95	BL	5	26	83	51	6	36	108	49					2
21c	4	27	64	BL	4	31	74	59	4	22	58	41					2
22b	3	23	65	BR	6	28	75	59	1	19	59	41					2
24c	5	36	91	BL	6	38	99	55	5	31	80	45					2
25a	45	47	90	BL	53	57	104	35	44	47	88	29	36	37	67	27	4
28a	49	42	75	VI	56	48	87	52	42	35	66	48					2
28c	20	36	75	BL	16	30	65	57	26	43	89	43					2
29f	4	29	79	BL	2	26	72	52	5	35	89	48					2
29g	3	26	72	BL	4	30	79	53	2	21	63	47					2
fn30	10	36	73	BL	11	39	78	52	9	33	69	48					2
31cc	6	23	82	BR	5	18	73	56	9	28	94	44					2
31h	6	17	47	BR	7	20	54	50	4	14	41	50					2
31ii	19	28	81	BL	15	21	69	54	21	33	93	46					2
31ll	9	21	66	BR	8	20	60	63	13	26	79	37					2

277ab.4	27	46	102	BL	36	55	111	42	16	53	121	26	21	38	90	24	5
307a	4	33	86	BR	6	38	97	51	2	28	77	49					2
307b	11	26	66	BL	13	30	73	56	9	22	57	44					2
330	14	38	108	BL	10	33	101	57	17	45	119	43					2
336a	23	41	96	BL	19	34	77	57	28	47	105	43					2
336b	29	43	104	BL	33	48	115	56	24	36	88	44					2
348	4	33	70	BR	6	38	79	57	4	28	64	43					2
362a	28	40	104	GR	30	46	121	59	25	35	96	41					2
362b	32	42	107	BL	30	35	93	57	38	52	127	43					2
366	2	26	65	BL	1	23	60	58	2	31	75	42					2
452ab	34	40	93	VI	39	45	103	50	28	34	82	50					2
452d	27	44	101	BL	34	58	120	45	29	44	101	31	21	33	85	24	3
471	20	37	97	BL	17	34	86	58	22	45	115	42					2
484	3	11	37	BL	3	9	33	51	4	13	42	49					2
487ab	8	41	124	BL	8	43	125	47	10	49	142	28	7	34	105	25	3
496ab.1	32	58	125	BL	37	67	140	58	30	51	114	42					2
496ab.2	37	51	107	BL	39	61	119	52	31	41	90	48					2
499	17	33	87	BL	20	40	99	60	15	31	82	40					2
501	11	47	119	BL	14	56	132	54	11	40	110	46					2
517abcdef.1	38	30	59	VI	33	24	51	51	42	33	64	49					2
517abcdef.2	42	45	103	VI	38	39	96	59	50	54	117	41					2
538abdefg.1	31	37	81	VI	27	30	71	53	35	43	90	47					2
538abdefg.2	22	31	69	BL	19	27	63	54	26	35	78	46					2
586a	12	45	117	BL	13	57	132	60	9	38	106	40					2
586b.1	14	42	108	BL	17	52	120	65	12	37	101	35					2
586b.2	15	51	125	BL	11	39	112	31	15	48	119	31	19	58	133	29	4
590	2	32	91	BL	1	40	105	64	2	27	83	36					2
599	2	21	58	BL	2	18	52	63	4	27	68	37					2
603	9	34	108	BL	9	35	110	37	10	30	99	28	8	24	83	20	4
619a	17	40	104	BL	24	48	122	62	15	33	95	38					2
619b.1	18	47	113	BL	15	36	99	57	21	50	118	43					2
619b.2	25	38	84	BL	30	46	97	64	23	34	79	36					2
621abcd.1	8	25	68	BR	11	32	79	43	9	26	69	34	6	21	60	23	3
621abcd.2	4	19	57	BR	5	19	56	100	68	173	192	0					2
621abcd.3	7	32	87	BR	7	30	84	35	2	22	72	29	9	35	94	20	4
665	63	44	75	VI	55	39	66	59	76	52	88	41					2
fms1960 ¹	57	44	59	VI	67	51	64	59	53	39	54	41					2

¹These samples do not belong to the F.U.