

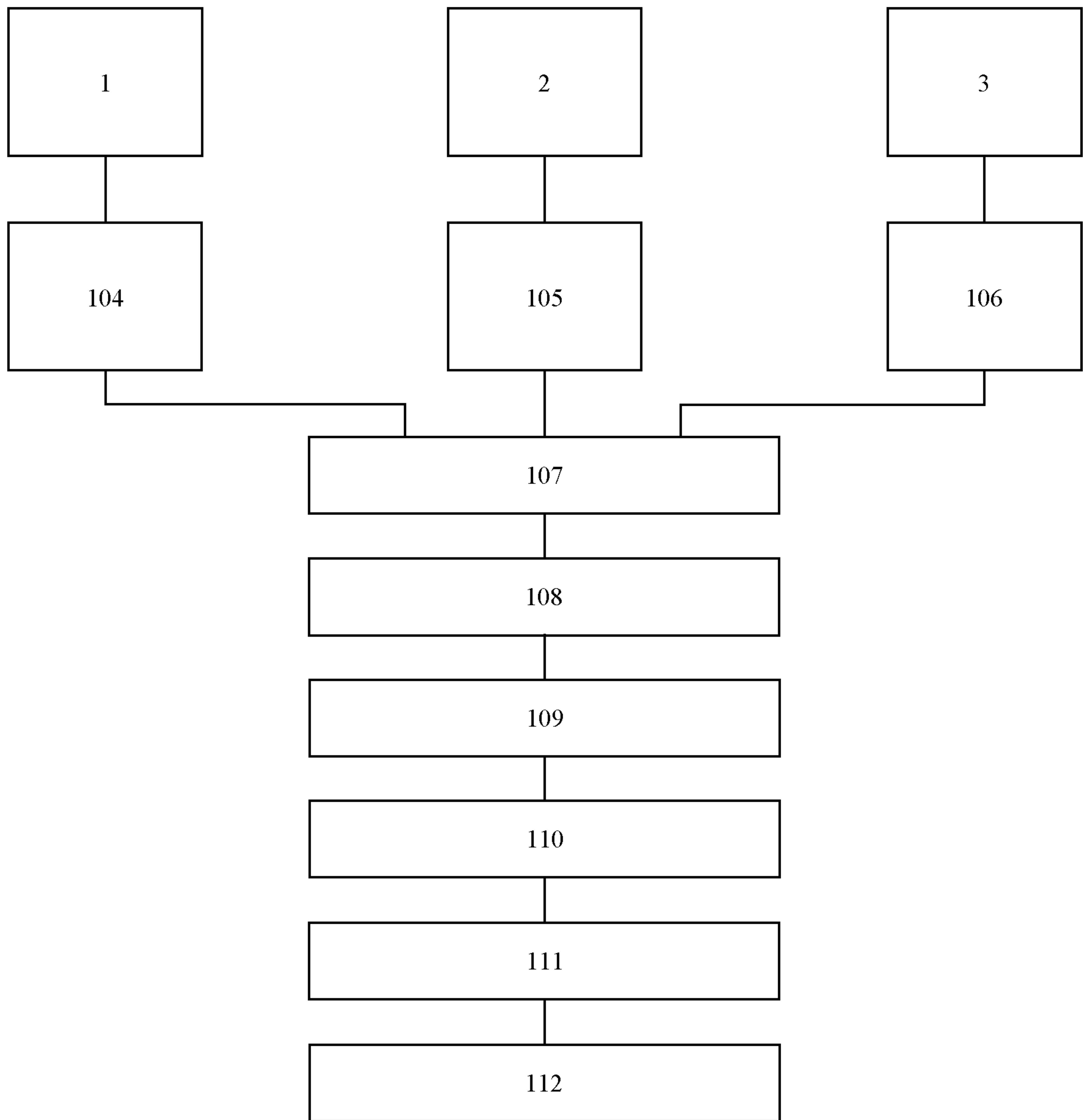
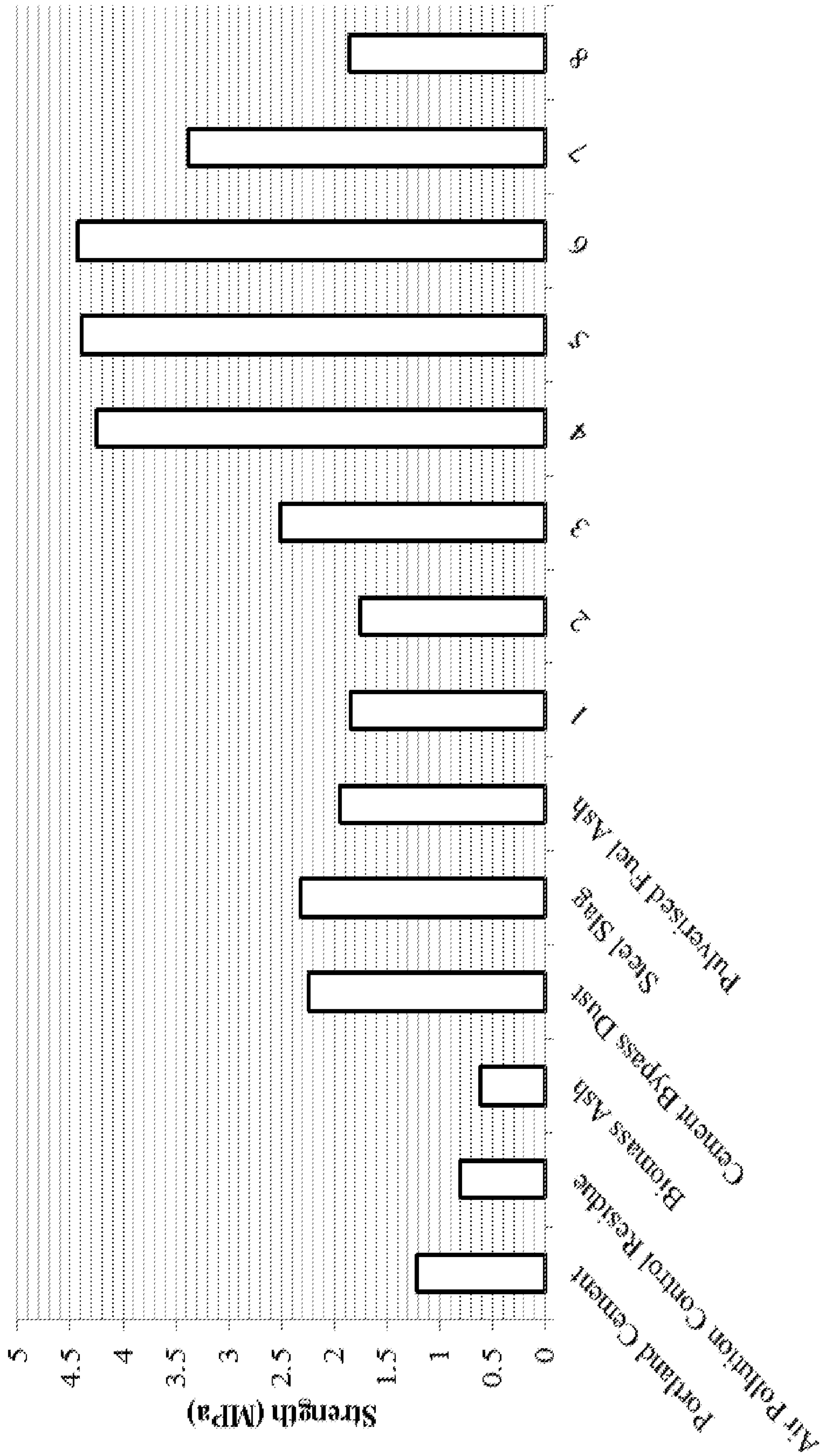


FIGURE 1



Example No.

FIGURE 2

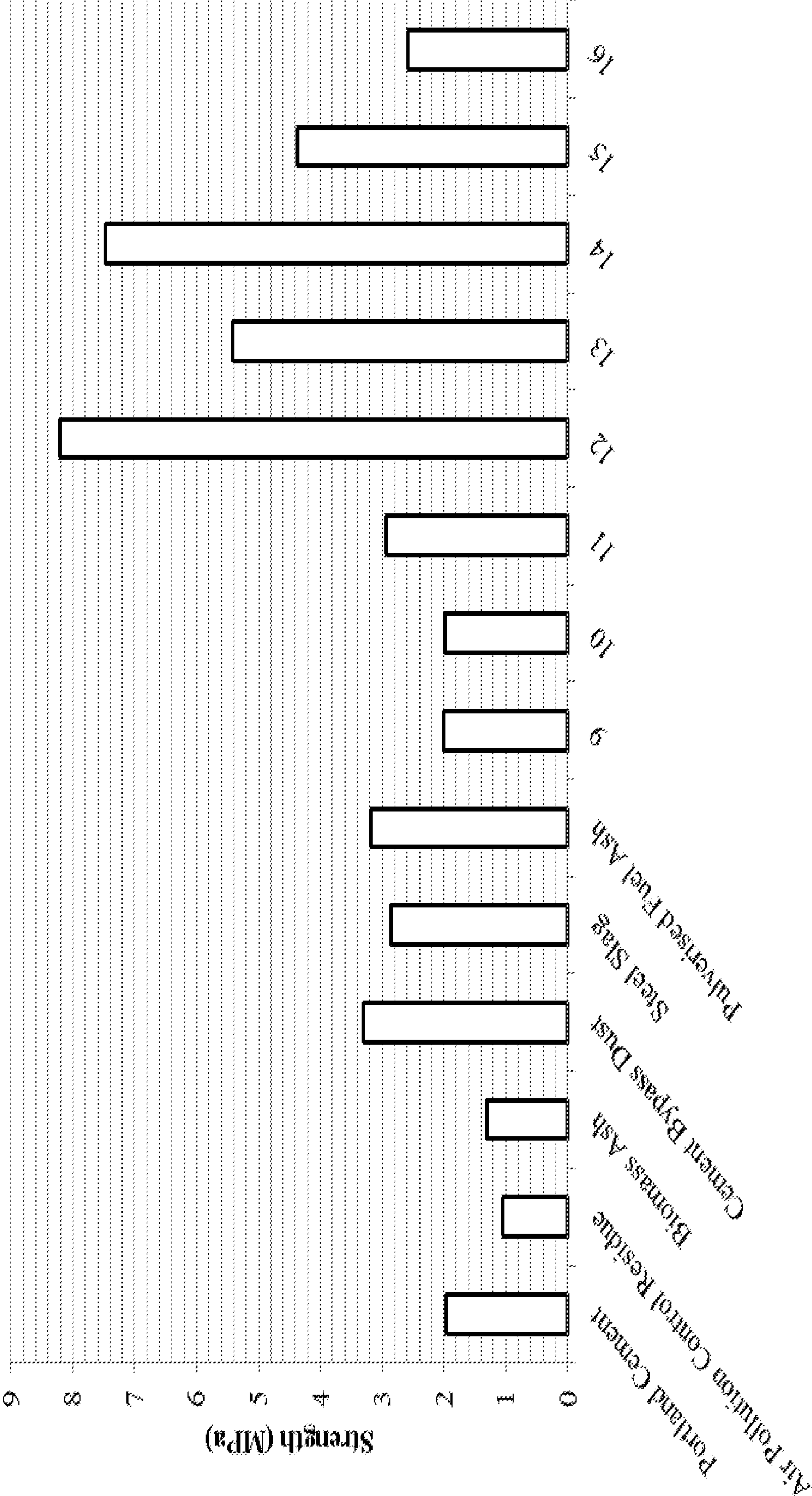


FIGURE 3

Carbonatable Waste	Source	Location of Source
Air Pollution Control Residue	Municipal Waste Solid Incineration	Northern England, UK
Steel Slag	Steel Production	Northern England, UK
Cement Bypass Dust	Cement Production	England Midlands, UK
Biomass Ash	Power Generation	Picardie, France
Pulverised Fuel Ash	Coal Fired Power Station	Nova Scotia, Canada
Portland Cement	Cemex Ltd.	

TABLE 1

Carbonatable Waste	Al ₂ O ₃	CaO	Fe ₂ O ₃	MgO	P ₂ O ₅	K ₂ O	SiO ₂	SO ₃	Na ₂ O	TiO ₂	Cl	Others
Air Pollution Control Residue	0.51	32.34	0.35	0.4	0.27	0.39	1.96	8.24	8.51	0.34	26.54	20.15
Steel Slag	0.98	44.16	0.33	3.96	-	-	17.75	0.97	-	0.27	-	31.58
Cement Bypass Dust	1.96	43.3	2.18	0.32	0.22	4.5	7.5	17.1	0.45	0.23	0.9	21.34
Biomass Ash	0.6	52.4	1.3	2.21	2.3	10.61	2.71	6	0.14	0.07	0.48	21.25
Pulverised Fuel Ash	3.48	38.32	5.28	0.37	-	0.79	7.52	18.29	-	-	0.14	25.81
Portland Cement	2.66	54.79	2.94	0.69	0.1	0.8	12.8	3.79	0.22	0.18	0.04	21.29

TABLE 2

Carbonatable Waste	Carbonation Time (mins)	Strength (MPa)
Portland Cement	10	1.215
Air Pollution Control Residue	10	0.802
Biomass Ash	10	0.61
Cement Bypass Dust	10	2.237
Steel Slag	10	2.312
Pulverised Fuel Ash	10	1.94

TABLE 3

Carbonatable Waste	Carbonation Time (mins)	Strength (MPa)
Portland Cement	20	1.959
Air Pollution Control Residue	20	1.045
Biomass Ash	20	1.301
Cement Bypass Dust	20	3.311
Steel Slag	20	2.851
Pulverised Fuel Ash	20	3.196

TABLE 4