

CLAIMS

1. A process for manufacture of a building material such as a ceramic building material comprising the steps of:
 - 5 - mixing clay and/or sand with digestate obtained from a Municipal Solid Waste (MSW) process comprising liquefaction of the organic fraction of MSW by addition of one or more enzymes,
 - optionally adjusting the water contents of the mixture,
 - shaping the mixture,
 - 10 - drying the shaped mixture, and
 - optionally firing the shaped mixture,so as to form said building material.
2. The process according to claim 1, wherein said digestate is selected from the group consisting of digestate directly obtained by said MSW process, dewatered digestate,
15 dried digestate, and digestate ash.
3. The process according to any of claims 1-2, wherein said building material is selected from the group consisting of bricks, light weight aggregates, tiles, floor tiles, roof tiles, wall tiles, drain pipes, sewer pipes, ducts, field drains, clay blocks, pavers, cement, concrete and mortar.
- 20 4. The process according to any of the preceding claims, wherein said digestate is obtained from MSW which has been degraded by microbial and enzymatic treatment to obtain a bioliquid which has been subjected to anaerobic digestion.
5. The process according to any of the preceding claims, wherein said digestate has a moisture content of at least 10%w/w, at least 15%w/w, at least 20%w/w, at least 25%w/w
25 or at least 30%w/w.
6. The process according to any of the preceding claims, wherein said digestate has a moisture content in the range from about 55%w/w to about 95%w/w, or from about 65%w/w to about 75%w/w.
7. The process according to any of the preceding claims, wherein said digestate has a
30 content of organic matter in the range from about 45%w/w to about 75%w/w on dry weight basis, or in the range from about 50%w/w to about 70%w/w on dry weight basis, or about 60%w/w on dry weight basis.
8. The process according to any of the preceding claims, wherein said digestate has a content of inorganic matter in the range from about 25%w/w to about 55%w/w on dry

- weight basis, or in the range from about 30%w/w to about 50%w/w on dry weight basis, or about 40%w/w on dry weight basis.
9. The process according to any of the preceding claims, wherein the firing temperature is from about 900 degrees C to about 1200 degrees C.
- 5 10. A building material characterized in being manufactured by the process according to any of the preceding claims.
11. The building material according to claim 10 which has been manufactured by a process where the total amount of raw materials comprises from 1%w/w to 30%w/w digestate on dry weight basis, or from 5%w/w to 30%w/w digestate on dry weight basis, or from
- 10 10%w/w to 30%w/w digestate on dry weight basis.
12. The building material according to any of claims 10-11, wherein the building material is selected from the group consisting of bricks, light weight aggregates, tiles, floor tiles, roof tiles, wall tiles, drain pipes, sewer pipes, ducts, field drains, clay blocks, and pavers.
13. A brick characterized in being manufactured by the process according to any of claims 1-
- 15 9.
14. A light weight aggregate characterized in being manufactured by a process according to any of claims 1-9.
15. A material selected from concrete, a concrete additive, cement or mortar characterized in being manufactured from digestate obtained from a Municipal Solid Waste (MSW)
- 20 process comprising liquefaction of the organic fraction of MSW by addition of one or more enzymes.