

American Stout Polak Rodak

- Gravity **16.1 BLG**
- ABV **6.8 %**
- IBU **48**
- SRM **38.1**
- Style **American Stout**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **23.4 liter(s)**
- Total mash volume **31.2 liter(s)**

Steps

- Temp **67 C**, Time **90 min**

Mash step by step

- Heat up **23.4 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **90 min** at **67C**
- Sparge using **16.1 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------------------|----------------|-------|------|
| Grain | Pilzneński | 5.8 kg (74.4%) | 81 % | 4 |
| Grain | Płatki owsiane | 0.4 kg (5.1%) | 60 % | 3 |
| Grain | Caramel/Crystal Malt - 80L | 0.6 kg (7.7%) | 74 % | 158 |
| Grain | Weyermann - Dehusked Carafa III | 0.5 kg (6.4%) | 70 % | 1024 |
| Grain | Weyermann - Chocolate Wheat | 0.5 kg (6.4%) | 74 % | 788 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|-------------|--------|----------|------------|
| Boil | lunga | 50 g | 60 min | 11.5 % |
| Whirlpool | Zibi | 100 g | 1 min | 13.2 % |
| Whirlpool | 2/20 | 100 g | 1 min | 12 % |
| Dry Hop | Amora Preta | 50 g | 2 day(s) | 10 % |