

RIS

- Gravity **26.8 BLG**
- ABV **12.7 %**
- IBU **139**
- SRM **69.3**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **10 %**
- Size with trub loss **16.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19.8 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **2 liter(s) / kg**
- Mash size **18.6 liter(s)**
- Total mash volume **27.9 liter(s)**

Steps

- Temp **65 C**, Time **60 min**
- Temp **72 C**, Time **10 min**

Mash step by step

- Heat up **18.6 liter(s)** of strike water to **76.3C**
- Add grains
- Keep mash **60 min** at **65C**
- Keep mash **10 min** at **72C**
- Sparge using **10.5 liter(s)** of **76C** water or to achieve **19.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-----------------------------|----------------|-------|------|
| Grain | Weyermann - Pale Ale Malt | 5 kg (53.8%) | 85 % | 7 |
| Grain | Strzegom Monachijski typ II | 1.5 kg (16.1%) | 79 % | 22 |
| Grain | Weyermann Caramunich 3 | 0.5 kg (5.4%) | 76 % | 150 |
| Grain | Płatki owsiane | 0.5 kg (5.4%) | 85 % | 3 |
| Grain | Weyermann - Grodziski | 0.5 kg (5.4%) | 80 % | 4 |
| Grain | Chocolate Malt (UK) | 0.5 kg (5.4%) | 73 % | 1100 |
| Grain | Jęczmień palony | 0.4 kg (4.3%) | 55 % | 1100 |
| Grain | Weyermann - Chocolate Wheat | 0.4 kg (4.3%) | 74 % | 1000 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|------------|---------|--------|--------|------------|
| First Wort | Equinox | 30 g | 60 min | 13.4 % |
| First Wort | Cascade | 30 g | 60 min | 6.9 % |
| Boil | Chinook | 30 g | 60 min | 12.8 % |
| Boil | Equinox | 30 g | 60 min | 13.4 % |

| | | | | |
|------|---------|------|--------|--------|
| Boil | Equinox | 30 g | 10 min | 13.4 % |
| Boil | Cascade | 60 g | 10 min | 6.9 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--|------|------|--------|------------|
| Mangrove Jack's M42 New World Strong Ale | Ale | Dry | 23 g | --- |

Extras

| Type | Name | Amount | Use for | Time |
|-------|---------------|--------|-----------|-----------|
| Other | płatki dębowe | 40 g | Secondary | 21 day(s) |