

## RIS beta

---

- Gravity **32 BLG**
- ABV **16.3 %**
- IBU **77**
- SRM **64.4**
- Style **Russian Imperial Stout**

### Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **19.9 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **24 liter(s)**
- Total mash volume **33.6 liter(s)**

### Steps

- Temp **67 C**, Time **90 min**
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up **24 liter(s)** of strike water to **76.4C**
- Add grains
- Keep mash **90 min** at **67C**
- Keep mash **5 min** at **78C**
- Sparge using **5.5 liter(s)** of **76C** water or to achieve **19.9 liter(s)** of wort

### Fermentables

| Type  | Name                      | Amount        | Yield  | EBC  |
|-------|---------------------------|---------------|--------|------|
| Grain | Pilzneński                | 5 kg (48.5%)  | 80 %   | 3    |
| Grain | Strzegom Czekoladowy 1200 | 1 kg (9.7%)   | 68 %   | 1202 |
| Grain | Strzegom pszenica prażona | 1 kg (9.7%)   | 70 %   | 6    |
| Grain | Caraamber                 | 1 kg (9.7%)   | 75 %   | 59   |
| Grain | Abbey Malt Weyermann      | 0.5 kg (4.9%) | 75 %   | 45   |
| Grain | Carabelge                 | 0.5 kg (4.9%) | 74 %   | 30   |
| Grain | Barley, Flaked            | 0.6 kg (5.8%) | 70 %   | 4    |
| Sugar | Candi Sugar, Clear        | 0.7 kg (6.8%) | 78.3 % | 2    |

### Hops

| Use for | Name   | Amount | Time   | Alpha acid |
|---------|--------|--------|--------|------------|
| Boil    | Simcoe | 50 g   | 60 min | 13.2 %     |
| Boil    | Simcoe | 50 g   | 30 min | 13.2 %     |

### Yeasts

| Name | Type | Form | Amount | Laboratory |
|------|------|------|--------|------------|
|------|------|------|--------|------------|

|                              |     |        |       |                  |
|------------------------------|-----|--------|-------|------------------|
| FM13 Irlandzkie<br>Ciemności | Ale | Liquid | 15 ml | Fermentum Mobile |
|------------------------------|-----|--------|-------|------------------|