

# RIS

- Gravity **24.4 BLG**
- ABV **11.3 %**
- IBU **53**
- SRM **38.7**
- Style **Russian Imperial Stout**

## Batch size

- Expected quantity of finished beer **16 liter(s)**
- Trub loss **5 %**
- Size with trub loss **16.8 liter(s)**
- Boil time **120 min**
- Evaporation rate **10 %/h**
- Boil size **22.1 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **21.4 liter(s)**
- Total mash volume **29.9 liter(s)**

## Steps

- Temp **67 C**, Time **90 min**
- Temp **80 C**, Time **5 min**

## Mash step by step

- Heat up **21.4 liter(s)** of strike water to **76.4C**
- Add grains
- Keep mash **90 min** at **67C**
- Keep mash **5 min** at **80C**
- Sparge using **9.3 liter(s)** of **76C** water or to achieve **22.1 liter(s)** of wort

## Fermentables

| Type  | Name                                   | Amount         | Yield | EBC  |
|-------|--|----------------|-------|------|
| Grain | Strzegom Pale Ale                      | 5 kg (58.5%)   | 79 %  | 6    |
| Grain | słód fiński dekstrynowy viking malt 16 | 2 kg (23.4%)   | 70 %  | 16   |
| Grain | Weyermann - Carared                    | 1 kg (11.7%)   | 75 %  | 45   |
| Grain | Jęczmień palony                        | 0.15 kg (1.8%) | 55 %  | 985  |
| Grain | Weyermann - Carafa III                 | 0.4 kg (4.7%)  | 70 %  | 1024 |

## Hops

| Use for | Name    | Amount | Time   | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil    | lunga   | 50 g   | 60 min | 11 %       |
| Boil    | Oktawia | 28 g   | 10 min | 7.1 %      |

## Yeasts

| Name                      | Type | Form  | Amount | Laboratory       |
|---------------------------|------|-------|--------|------------------|
| FM13 Irlandzkie Ciemności | Ale  | Slant | 200 ml | Fermentum Mobile |

## Extras

| Type   | Name                | Amount | Use for   | Time      |
|--------|---------------------|--------|-----------|-----------|
| Other  | płatki po bourbonie | 50 g   | Secondary | 21 day(s) |
| Fining | mech irlandzki      | 7 g    | Boil      | 5 min     |