

Danielowe - RIS

- Gravity **27 BLG**
- ABV **12.9 %**
- IBU **56**
- SRM **47.1**
- Style **Russian Imperial Stout**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **90 min**
- Evaporation rate **15 %/h**
- Boil size **29.4 liter(s)**

Mash information

- Mash efficiency **65 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **33.4 liter(s)**
- Total mash volume **46.7 liter(s)**

Steps

- Temp **66 C**, Time **90 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **33.4 liter(s)** of strike water to **75.2C**
- Add grains
- Keep mash **90 min** at **66C**
- Keep mash **10 min** at **78C**
- Sparge using **9.4 liter(s)** of **76C** water or to achieve **29.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--|----------------|-------|-----|
| Grain | Weyermann - Pale Ale Malt | 8 kg (59.9%) | 85 % | 7 |
| Grain | Weyermann pszeniczny jasny | 0.6 kg (4.5%) | 80 % | 6 |
| Grain | Weyermann - Chocolate Wheat | 0.25 kg (1.9%) | 74 % | 788 |
| Grain | Weyermann - Carafa I | 0.5 kg (3.7%) | 70 % | 690 |
| Grain | Black Barley (Roast Barley) | 0.5 kg (3.7%) | 55 % | 985 |
| Grain | Monachijski typ II 20-25 EBC Weyermann | 3 kg (22.5%) | 80 % | 20 |
| Grain | Płatki owsiane | 0.5 kg (3.7%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------------------|--------|--------|------------|
| Boil | Challenger | 50 g | 90 min | 7 % |
| Boil | Challenger | 50 g | 60 min | 7 % |
| Boil | East Kent Goldings | 40 g | 30 min | 5.1 % |
| Boil | East Kent Goldings | 40 g | 10 min | 5.1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------|------|--------|--------|------------|
| Fermentum Mobile F13 | Ale | Liquid | 25 ml | FM |

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------------------|--------|-----------|-----------|
| Flavor | płatki dębowe mocno palone | 50 g | Secondary | 90 day(s) |