

## R-power

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- Gravity **21.1 BLG**
- ABV **9.4 %**
- IBU **17**
- SRM **35.2**

### Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **11 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **13.8 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2.67 liter(s) / kg**
- Mash size **10.8 liter(s)**
- Total mash volume **14.9 liter(s)**

### Steps

- Temp **68 C**, Time **60 min**
- Temp **71 C**, Time **30 min**

### Mash step by step

- Heat up **10.8 liter(s)** of strike water to **77C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **30 min** at **71C**
- Sparge using **7.1 liter(s)** of **76C** water or to achieve **13.8 liter(s)** of wort

### Fermentables

| Type  | Name                          | Amount         | Yield  | EBC  |
|-------|-------------------------------|----------------|--------|------|
| Grain | Weyermann - Carafa I          | 0.1 kg (2.3%)  | 70 %   | 690  |
| Grain | Weyermann - Carafa II         | 0.1 kg (2.3%)  | 70 %   | 837  |
| Grain | Monachijski                   | 1.9 kg (43.7%) | 80 %   | 16   |
| Grain | viking malt honing/crystal10l | 0.3 kg (6.9%)  | 78.5 % | 20   |
| Grain | Weyermann - Pale Ale Malt     | 1.5 kg (34.5%) | 85 %   | 7    |
| Sugar | cukier brązowy                | 0.3 kg (6.9%)  | --- %  | ---  |
| Grain | black bezmaltz                | 0.15 kg (3.4%) | 55 %   | 1200 |

### Hops

| Use for | Name     | Amount | Time   | Alpha acid |
|---------|----------|--------|--------|------------|
| Boil    | Sterling | 25 g   | 60 min | 4.5 %      |

### Yeasts

| Name         | Type | Form  | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Gestwa us 04 | Ale  | Slant | 200 ml | Brak       |

### Extras

| Type   | Name                                    | Amount | Use for   | Time      |
|--------|---|--------|-----------|-----------|
| Flavor | platki debowe<br>macerowane w<br>brendy | 10 g   | Secondary | 10 day(s) |