

## #83 Quad

- Gravity **21.6 BLG**
- ABV **9.7 %**
- IBU **28**
- SRM **29.8**
- Style **English Barleywine**

### Batch size

- Expected quantity of finished beer **16.5 liter(s)**
- Trub loss **7 %**
- Size with trub loss **17.7 liter(s)**
- Boil time **120 min**
- Evaporation rate **13 %/h**
- Boil size **24.3 liter(s)**

### Mash information

- Mash efficiency **69 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **24.5 liter(s)**
- Total mash volume **31.5 liter(s)**

### Steps

- Temp **67 C**, Time **210 min**

### Mash step by step

- Heat up **24.5 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **210 min** at **67C**
- Sparge using **6.8 liter(s)** of **76C** water or to achieve **24.3 liter(s)** of wort

### Fermentables

| Type  | Name                      | Amount         | Yield  | EBC |
|-------|---------------------------|----------------|--------|-----|
| Grain | Weyermann - Pale Ale Malt | 5.8 kg (77.3%) | 85 %   | 7   |
| Grain | Abbey Malt Weyermann      | 0.8 kg (10.7%) | 75 %   | 45  |
| Grain | Special B Malt            | 0.4 kg (5.3%)  | 65.2 % | 315 |
| Sugar | Candi Sugar, Dark         | 0.5 kg (6.7%)  | 78.3 % | 542 |

### Hops

| Use for | Name    | Amount | Time   | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil    | Marynka | 50 g   | 60 min | 6 %        |

### Yeasts

| Name | Type | Form  | Amount    | Laboratory       |
|------|------|-------|-----------|------------------|
| LA3  | Ale  | Slant | 368.46 ml | Fermentum Mobile |

### Notes

- Warzenie 21.02.2021, cała gęstwa z dubbla

21.02.2021 - brzeczka o temperaturze +-15 stopni dodana do drożdży, napowietrzona, sterownik 18,5  
22.02.2021 - godz. 20 - dodany cukier w postaci syropu, napowietrzenie + wymieszanie. Temp piwa 18,5. Po dodaniu cukru 19,7. Sterownik 19,5  
23.02.2021 - piwo 20 sterownik 20,5  
24.02.2021 - piwo 20,9 sterownik 21,5  
25.02.2021 - piwo 21 lodówka off

26.02.2021 - piwo 21,4 podłączony pas, sterownik 22, histereza 0,3  
27.02.2021 - piwo 22 sterownik 23  
28.02.2021 - piwo 22,7 sterownik 24  
01.03.2021 - piwo 23,9  
02.03.2021 -  
03.03.2021 - piwo 23,8 sterownik 24,7  
*Feb 22, 2021, 8:24 PM*